

79853-66501	PC Board	Detector Controller Board (DCB)	\$981.00	
79853-66502	PC Board	Keyboard Display Interface (KDI) Board - Part of Front Panel Assembly	\$133.00	
79853-66503	PC Board	Display Module (VFD) Board - Part of Front Panel Assembly	\$403.00	
79853-66504	PC Board	Power Supply Connection (PSC) Board	\$122.00	
79853-66505	PC Board	Pre-Amplifier Board (2 Used) - for Sample & Reference Diode Assemblies in Optical Unit	\$170.00	
79853-66510	PC Board	Leak Sensor Board - Attaches to Front Panel Assembly Next to Leak Sensor Assembly	\$223.00	
79853-68711	PC Board	HP-IB Communication Interface Board	\$930.00	
* 79853-69501	PC Board	Detector Controller Board (DCB)	\$981.00	\$563.00
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79853-66111	Sensor	Leak Sensor Assembly - Attaches to Front Panel Assembly Next to Leak Sensor Board	\$392.00	

VW Detector (79853C)

79853-61802	Cable	Cable - Connects Keyboard Display Interface (KDI) Board to Display Module (VFD) Board	\$36.00	
79853-61605	Cable	Cable - from Power Supply Connection (PSC) Board to the Detector Controller Board (DCB)	\$13.30	
79853-61609	Cable	Cable - Connects Detector Controller (DCB) Board to Keyboard Display Interface (KDI) Board	\$66.00	
79853-61610	Cable	Cable - Connects HP-IB Communication Interface Board to Detector Controller (DCB) Board	\$48.75	
79853-64101	Cover	Top/Side Cover - of Variable Wavelength Detector Module	\$138.00	
79853-61109	Diode	Sample Diode - Part of Optical Unit	\$413.00	
79853-61110	Diode	Reference Diode - Part of Optical Unit	\$330.00	
79853-68502	Fan	Fan Assembly - Cable Included - Located Close to the Lamp Housing - Highest Speed Fan of the Two Fans in the Detector	\$82.15	
79853-68503	Fan	Fan Assembly - Cable Included - Located under the HP-IB Interface - Lowest Speed Fan of the Two Fans in the Detector	\$82.15	
79853-67903	Filter	Filter Assembly (Filter & Motor) - Part of Optical Unit	\$498.00	
79853-60000	Flow Cell	Standard Flow Cell 8mm (SST-Version) - Part of Optical Unit	\$946.00	
79853-60010	Flow Cell	Semi-Micro Flow Cell (SST-Version) - Part of Optical Unit	\$1,321.00	
79853-60011	Flow Cell	Standard Flow Cell 8mm (Ti-Version) - Part of Optical Unit	\$1,493.00	

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79853-60012	Flow Cell	Preparative Flow Cell (Ti-Version) - Part of Optical Unit	\$1,144.00	
79853-60013	Flow Cell	Ultra High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$2,180.00	
79853-60203	Front Panel	Complete Front Panel - Includes Leak Sensor Board, Leak Sensor Assembly, Display Module (VFD) Board, Display Interface (KDI) Board and Interconnecting Cables	\$1,380.00	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$ .30	
79853-64605	Grating	Grating - Part of Optical Unit - Stepper Motor NOT Included	\$640.00	
79853-13004	IC ROM	ROM (Firmware) - on HP-IB Communication Interface Board	\$133.00	
79853-13005	IC ROM	ROM (Firmware) - on Detector Controller Board (DCB)	\$118.50	
79853-60002	Lamp	Deuterium Lamp Assembly - Part of Optical Unit	\$494.00	
79853-68107	Mirror	Mirror Assembly Number One - Part of Optical Unit	\$121.00	
79853-68108	Mirror	Mirror Assembly Number Two - Part of Optical Unit	\$127.00	
79853-68109	Mirror	Mirror Assembly Number Three or Four - Part of Optical Unit	\$138.00	
79853-64606	Motor	Stepper Motor - Drives Grating Assy - Part of Optical Unit	\$500.00	
79853-60015	Optical Unit	Optical Unit - Exchange Assembly	\$4,980.00	
* 79853-69015	Optical Unit	Optical Unit - Exchange Assembly	\$4,980.00	\$2,540.00
79853-66502	PC Board	Keyboard Display Interface (KDI) Board - Part of Front Panel Assembly	\$133.00	
79853-66503	PC Board	Display Module (VFD) Board - Part of Front Panel Assembly	\$403.00	
79853-66507	PC Board	Pre-Amplifier Board - for Sample Diode in Optical Unit	\$223.00	
79853-66508	PC Board	Pre-Amplifier Board - for Reference Diode in Optical Unit	\$223.00	
79853-66510	PC Board	Leak Sensor Board - Attaches to Front Panel Assembly Next to Leak Sensor Assembly	\$223.00	
79853-66511	PC Board	Detector Controller Board (DCB)	\$1,220.00	
79853-66512	PC Board	Power Supply Connection (PSC) Board	\$143.00	
79853-68711	PC Board	HP-IB Communication Interface Board	\$930.00	
* 79853-69511	PC Board	Detector Controller Board (DCB)	\$1,220.00	\$1,000.00
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79853-61106	Sensor	Position Sensor - for Grating Assembly in Optical Unit	\$66.00	
79853-61107	Sensor	Position Sensor - for Filter Assembly in Optical Unit	\$66.25	
79853-66111	Sensor	Leak Sensor Assembly - Attaches to Front Panel Assembly Next to Leak Sensor Board	\$392.00	

\* = Exchange Part

\*\* = Call (800) 227-8164 for volume discount

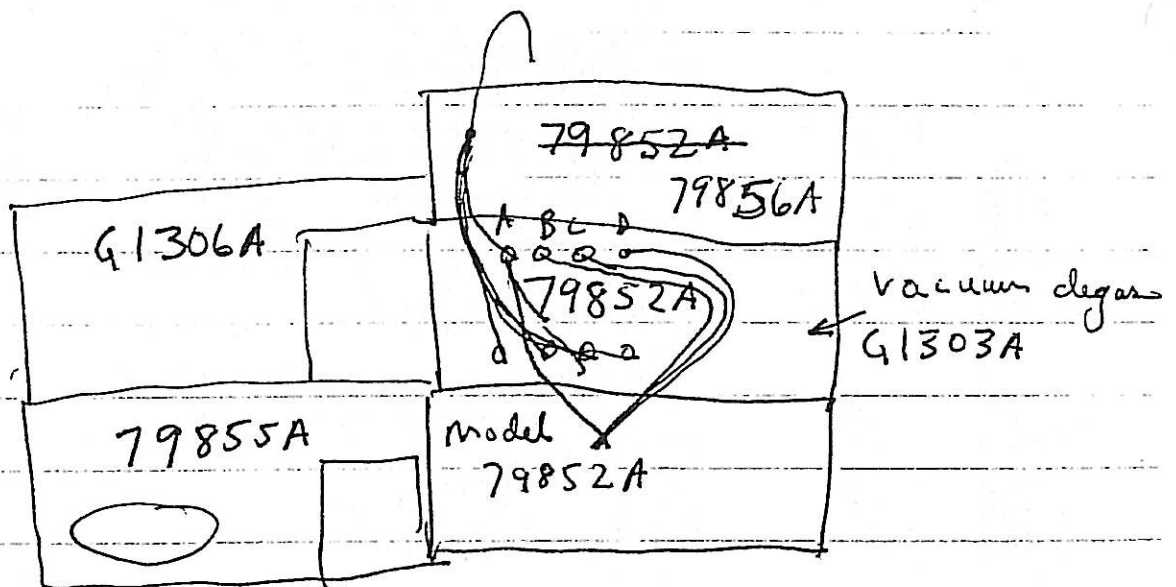
CIB / CRB

Pump - 5062 - 2482, Rev A,

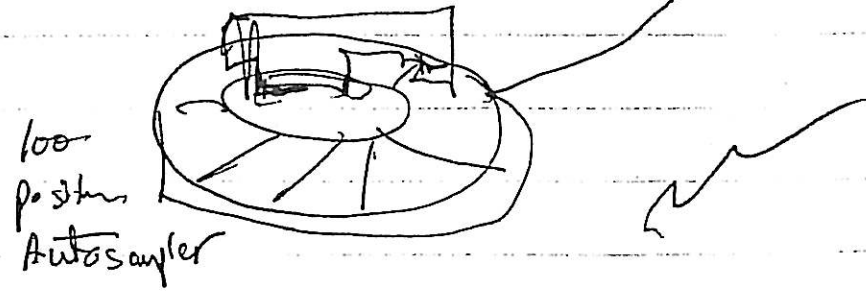
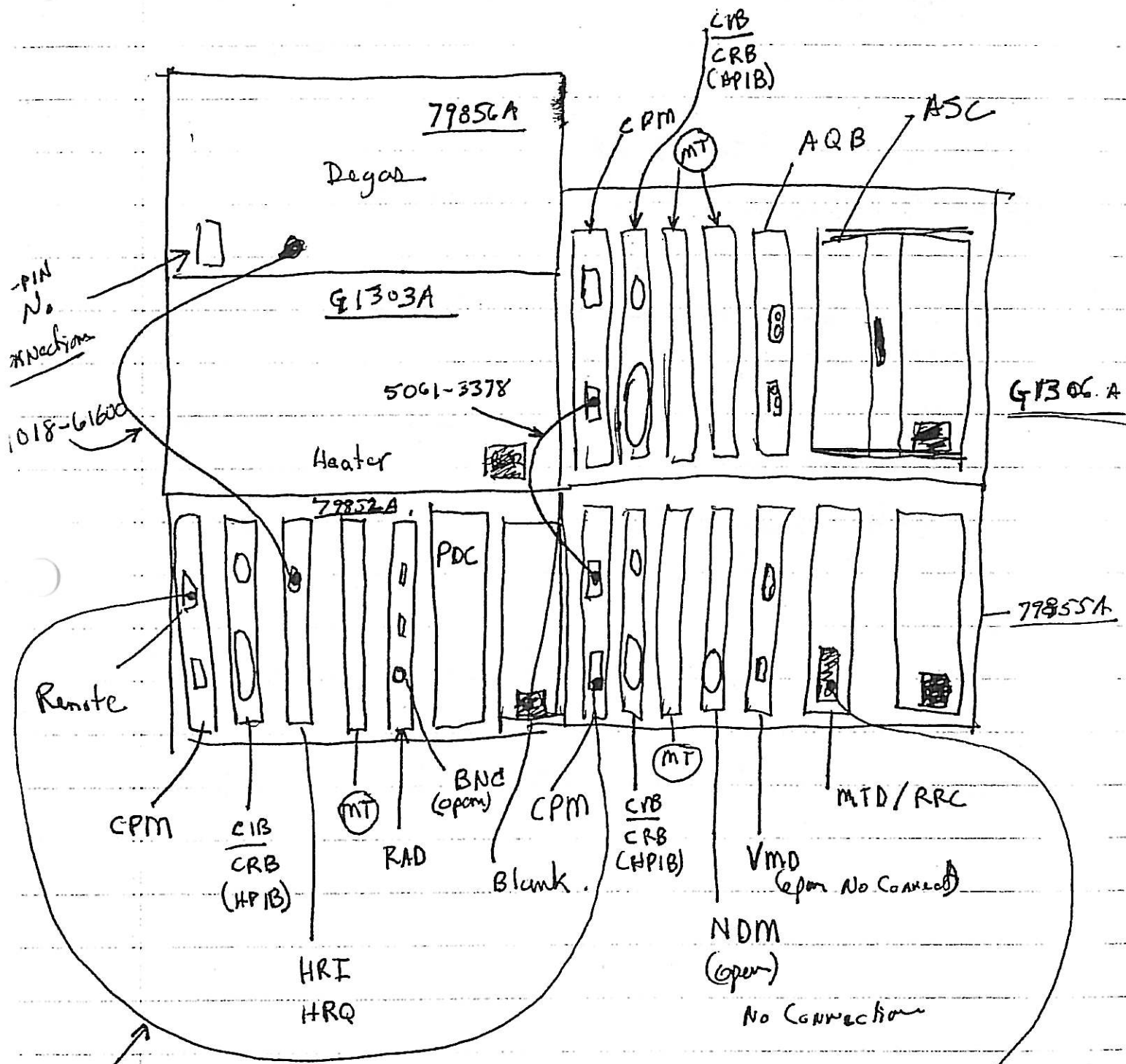
Auto sampler 01078 - 66513, 1993

Booth For/Troy Connection.

79



1046A Fluorescence



## Manuals

Autosampler Instruction kit 79855-90008  
pumping system [ 79852-90008  
01050-90000

Software 42171 AA  
LC 3D Single Insto 41642A

HPLC Chem Station Handbooks

41300-90014 (kit)

41303-90001 ← on-line degas User Guide

~~42083-90001~~

Getting Ready I/P 1050 01050-90211

DAD User guide 41306-90000 (kit)

1300-90014 (kit) HPLC Chem 3D Comrade

PARTS

CIB/CRB (HPIB)	5062-2484		\$ 489.00
Autosampler board	01078-66513	MTD	\$ 820.00
Cable	5061-3378		50.00

MTD - Max Tray Drive

VMD - Valve Metering Drive Board

CMP - Common Main Processor (CMP)

CIB - Communication Interface Board (CIB)

AQB - Data Acquisition Board

RAD - Relative A/D Converter Board

CPM - Common Main Processor

NDM - Needle Minitray Drive Board

HRI / - Heater Interface Board

HRQ - Heater Quaternary Board - Column HTR Control

CRB - Communication Interface Board

PDC - Pump Drive Control Board

ASC - Array Signal Conversion Board.

1050

Info:

79855 A / B

Auto sampler

G1306 A

DAD Detector

79854 A

MW Detector

79851 / 2A

Pump

79852 B

Pump

79856 A / B

Solvent

79853 A

VW Detector (Variable Wavelength)

79853 C

VW Detector

01048-66504	FIM BOARD ASSY		\$287.00	
01048-66509	LUC BOARD ASSY		\$170.00	
01048-66510	LUM BOARD ASSY		\$360.00	
01048-66543	AOB BOARD	01048-69543	\$424.00	
* 01048-69011	EX MMD OPTICAL	01048-60011	\$3,180.00	\$1,007.00
* 01048-69024	EX OPTICAL UNIT	01048-60024	\$3,290.00	\$1,010.00
* 01048-69501	ASC BOARD ASSY	01048-66501	\$742.00	\$477.00
01048-69502	DAC BOARD ASSY	01048-66502	\$820.00	\$520.00
01048-69543	AOB BOARD	01048-66543	\$424.00	\$308.00
01048-87305	HEAT EXCHANGER ASSY		\$556.50	
* 01050-69374	DPS-B	5061-3374	\$636.00	\$380.00
* 01050-69375	DPS-A	5061-3375	\$1,330.00	\$610.00
* 01050-69580	CMP BOARD	5061-3380	\$1,030.00	\$530.00
* 01050-69582	EX CIR BOARD	5061-3382	\$400.00	\$217.00
* 01050-69592	EX CRB BOARD	5062-2482	\$489.00	\$318.00
01050-90102	1050 SERVICE MANUAL		\$159.00	
01078-04110	COVER, TOP		\$330.00	
01078-44501	TRAY, SAMPLE		\$68.00	
01078-44511	34 VIAL TRAY		\$58.00	
01078-60001	SAMPLING UNIT		\$2,650.00	
01078-60002	DRIVE, METERING		\$800.00	
01078-60003	ANALYTICAL HEAD ASSY		\$740.00	
01078-60004	SWITCHING VALVE 79855A	01078-69004	\$2,330.00	
01078-60201	MODULE, KEYBOARD		\$235.00	
01078-60301	PANEL, FRONT		\$55.00	
01078-61601	CABLE, PRESS SWITCH		\$17.50	
01078-64702	TRAY MOTOR ASSY		\$138.00	
01078-64703	SPINDLE MOTOR ASSY		\$530.00	
01078-66101	ASSEMBLY, PNEUMATIC		\$420.00	
01078-66501	BOARD, VMD	01078-69501	\$488.00	
01078-66502	BOARD, NMD	01078-69502	\$558.00	
01078-66504	ALM		\$392.00	
01078-66506	BOARD, FIM		\$210.00	
01078-66513	MTD BD FOR B TRAY	01078-69513	\$820.00	
01078-60720	FAN UPGRADE KIT		\$133.00	
* 01078-69004	SWITCHING VALVE 79855A	01078-60004	\$2,330.00	\$795.00
* 01078-69501	VMD BOARD	01078-66501	\$488.00	\$265.00
* 01078-69502	NMD BOARD	01078-66502	\$558.00	\$287.00
* 01078-69513	RSTRD-66513		\$820.00	\$370.00
01078-87302	CAPILLARY, 100UL LOOP		\$160.00	
01078-60001	TI-SAMPLING UNIT		\$2,860.00	
01078-60003	TI ANALY HEAD ASSY		\$1,170.00	
01078-69004	TI-SWITCHING VALVE EX		\$875.00	
01078-87302	TI LOOP CAPILARY 100UL		\$716.00	
01078-02701	FILTER, LUSI AIR		\$8.75	
01090-04102	LABEL, LEFT		\$18.00	
01090-04133	WINDOW, COVER ALS		\$26.00	
01090-04135	COVER L II		\$71.55	
01090-04142	COVER BASE, LEFT		\$63.60	
01090-04143	LABEL RIGHT		\$28.60	
01090-04144	COVER BASE, RIGHT		\$46.65	
01090-07101	AIR FILTER FOR HP1090		\$12.00	
01090-07703	BOTTLE, BASE		\$63.65	
01090-21202	CLAMP		\$20.00	
01090-22313	UNION HOLDER		\$77.00	
01090-40303	KEYBOARD, DOOR SYS		\$106.00	
01090-40304	KEYBOARD, DOOR LUSI		\$122.00	
01090-42302	COLUMN HOLDER		\$23.85	
01090-43701	RAIL		\$29.70	
01090-45001	CATCH		\$11.65	
01090-47701	FRAME TOP, LEFT		\$133.00	
01090-47702	FRAME TOP, RIGHT		\$133.00	
01090-47703	FRAME BASE, LEFT		\$122.00	
01090-47704	FRAME BASE, RIGHT		\$122.00	
01090-60003	BOTTLE HOLDER		\$239.00	
01090-60006	BOTTLE HEAD QUAT		\$208.00	
01090-60008	SOLVENT FILTER, SS, 10		\$53.00	
01090-60009	TEFLON TUBING AND GLAS		\$42.00	
01090-60011	INTERFACE, LOCAL USER		\$2,170.00	
01090-60206	REMOTE START CABLE		\$143.00	
01090-60304	OVEN DOOR		\$196.00	
01090-60310	CABLE, CONNECTION		\$207.00	
01090-60312	1090 BCD GEN PURP		\$164.00	
01090-61103	TRANSFORMER, POWER		\$435.00	
01090-61105	HEATER ASSY		\$795.00	
01090-61604	SENSOR PT100 ASSY		\$240.00	
01090-64101	COVER DAD		\$207.00	
01090-64111	COVER, DAD SERIES II		\$276.00	
01090-64112	COVER, ALS SERIES II		\$392.00	
01090-64113	COVER, MAIN SERIES II		\$1,330.00	
01090-66507	BOARD, DKI		\$330.00	
01090-66508	OVI BOARD ASSY		\$190.00	
01090-66509	BOARD, DKU	01090-69509	\$580.00	
01090-66510	LIL BOARD ASSY		\$466.00	
01090-66511	HPIL BD CONNECTOR ASSY		\$154.00	

01090-66522	PWS BOARD	01090-69522	\$530.00	
01090-66523	PSC BOARD	01090-69523	\$489.00	
01090-66524	PSM BOARD ASSY		\$330.00	
01090-66525	PRI BOARD ASSY		\$275.00	
01090-66526	ECI BOARD ASSY		\$190.00	
01090-66529	BOARD, LIB		\$520.00	
01090-66535	BOARD, IBU		\$307.00	
01090-66538	RCI BD		\$275.00	
01090-66540	EXTENDER BOARD ASSY		\$196.00	
01090-66542	MCO BOARD	01090-69542	\$715.00	
01090-66552	SYS KEYBOARD		\$318.00	
01090-66553	LUSI KEYBOARD ASSY	01090-69553	\$690.00	
01090-66554	ISD DRIVER BD ASSY		\$195.00	
01090-66555	PRIMARY BOARD		\$111.00	
01090-66557	CTM BOARD		\$212.00	
01090-66565	MEM BOARD DKC SERIES 1		\$170.00	
01090-66573	MEM BOARD MCO		\$127.00	
01090-66575	MEM BOARD DKC		\$127.00	
01090-66579	LIB BOARD		\$275.00	
01090-67602	OUTLET, HELIUM		\$133.00	
01090-67610	CABLE, EXTENDER		\$66.00	
01090-68520	FAN ASSY DC		\$228.00	
01090-68706	CABINET, SOLVENT		\$201.00	
01090-68708	MCO ASSY KIT	01090-69708	\$850.00	
01090-68715	KEYBD DOOR SERIES II		\$180.00	
01090-68716	CABINET SOLVENT SII		\$170.00	
* 01090-69509	BOARD, DKC	01090-66509	\$580.00	\$360.00
* 01090-69522	PWS BOARD	01090-66522	\$530.00	\$390.00
* 01090-69523	PSC BOARD	01090-66523	\$489.00	\$340.00
* 01090-69542	RSTRD-66542		\$715.00	\$477.00
* 01090-69553	RSTRD-66553		\$690.00	\$530.00
* 01090-69708	MCO ASSY KIT	01090-68708	\$850.00	\$600.00
01090-82701	SOLVENT FILTER KIT FOR		\$117.00	
01090-87304	FLEX CAPILLARY 0.17X20		\$74.00	
01090-87305	FLEX CAPILLARY, 0.17X1		\$79.00	
01090-87602	BOTTLE, CONN		\$175.00	
01090-87606	SOLVENT TUBING FOR HP		\$35.00	
01090-87610	FLEX CAPILLARY, 0.12X2		\$73.00	
01090-87611	FLEX CAPILLARY, 0.12X1		\$73.00	
01090-90024	HBOOK 1090 II/L		\$58.00	
01090-90100	HP1090 SERIES A SERVIC		\$115.00	
01090-90211	GETTING READY		\$15.00	
03394-60550	CABLE, 1090A REM CONTR		\$106.00	
03394-60600	REMOTE CABLE, 1046/1050		\$87.50	
03396-60560	SAMPLE NO. CABLE, 7673		\$74.20	
03396-60580				
03396-61010	3395B/96C/97A		\$64.00	
03396-61020	CABLE, ANALOG 33595A/		\$64.00	
0380-0644	STANDOFF, METRIC		\$4.30	
0380-1102	STANDOFF, HEX		\$1.95	
0403-0427	FOOT-BUMPER, REAR		\$1.00	
05090-00390	COVER, AC REAR		\$103.00	
05090-00395	REAR COVER ASSY		\$95.00	
05090-00810	BASKET, CHEM TRAP		\$21.20	
05090-40080	BODY, CONNECTOR		\$8.20	
05090-40100	PANEL, FLOW SIDE		\$77.00	
05090-40110	PANEL, ELEC SIDE		\$69.00	
05090-40115	RIGHT SIDE PANEL		\$66.00	
05090-40120	COVER, ELEC TOP		\$50.00	
05090-40125	ELECT TOP COVER		\$32.90	
05090-40130	DOOR, FLOW		\$29.70	
05090-60035	DISPLAY, PCB		\$170.00	
05090-60050	BOARD, SINGLE 120 PC		\$307.00	
05090-60060	BOARD, S220/240 PC		\$297.00	
05090-60070	PCB, AC 200/240V		\$339.00	
05090-60740	KEYBOARD BEZEL ASSY		\$148.00	
05090-60747	KEYBOARD BEZEL ASSY		\$87.00	
05090-60760	3390 OUTPUT CABLE		\$58.00	
05090-60780	INTEGRATOR CABLE		\$85.00	
05090-60790	CABLE, 3350 OUTPUT		\$122.00	
05090-60800	CBL, DP OUTPUT		\$106.00	
05090-60870	USA 120 CABLE ASSY		\$26.50	
05090-60880	220V CABLE ASSY		\$63.60	
05090-60890	220V/240V CABLE ASSY		\$138.00	
05090-60900	240V CABLE ASSY		\$180.00	
05090-60910	240V CABLE ASSY		\$111.00	
05090-60920	200V CABLE ASSY		\$186.00	
05090-60940	STEPPER MOTOR		\$90.00	
05090-60960	220V CABLE ASSY		\$55.70	
05090-60970	120 TRANSFORMER ASSY		\$239.00	
05090-60980	TRANSFORMER, 200V		\$180.00	
05090-60990	TRANSFORMER, 220V		\$244.00	
05090-61000	240V TRANSFORMER ASSY		\$228.00	
05090-61030	OVEN SENSOR AY		\$98.00	
05090-61050	STARTER, STP3390 REMOTE		\$93.00	



05890-61060	RMT/STR/STP 3392	\$101.00
05890-61070	STARTER,STP LAS REMOTE	\$101.00
05890-61080	RMT STRT/STP GP	\$122.00
05890-61140	CABLE, HTR SENSOR	\$201.00
05890-61160	CABLE, 5890A/18652A	\$127.00
05890-61170	CABLE, 5880/90A/3388A	\$127.00
05890-61180	CABLE, 5890A/18762A	\$65.00
05890-61340	MAINBO EXTDR CBL 5890A	\$58.00
05890-61367	BZL, KEYBOARD DISPLAY	\$223.00
05890-61400	OPERATORS MANUAL, GERM	\$177.00
05890-61410	OPERATORS MANUAL, FREN	\$177.00
05890-61420	MANUAL KIT, ITALIAN	\$177.00
05890-61430	OPERATORS MANUAL, SPAN	\$177.00
05890-61480	LEFT SIDE PANEL	\$154.00
05890-61570	FLOW DOOR ASSY	\$42.00
05890-61615	120V RPL OVN SHROUD	\$154.00
05890-61625	200V RPL OVN SHROUD	\$154.00
05890-61635	220V RPL OVN SHROUD	\$154.00
05890-61645	230V RPL OVN SHROUD	\$154.00
05890-61655	240V RPL OVN SHROUD	\$154.00
05890-67020	FAN MOTOR BOX KIT	\$212.00
05890-67030	FAN MOTOR BOX KIT	\$249.00
* 05890-69015	5890 SER II MAINBOARD	\$690.00
05890-80220	PROG EPROM REVR	\$31.00
05890-80270	FAN, STIRRING SST	\$50.00
05890-80325	PROGRAMMED EPROM	\$26.50
05890-80560	SHAFT ASSY	\$69.00
05890-90100	CARD, QUICK REF	\$7.00
05890-90110	MANUAL, INST	\$208.00
05890-90140	MNL, 5890A ACCESSORY	\$11.70
05890-90320	SERVICE MANUAL, ENGLIS	\$224.00
05890-91000	NAME PLATE	\$6.10
05890-91100	QUICK REFERENCE CARD,	\$17.00
05890-91110	MANUAL, 5890A GERMAN R	\$221.00
05890-92100	CARD, FRENCH QUICK REF	\$17.00
05890-92110	MANUAL, FRENCH REF	\$216.00
05890-94100	QUICK REFERENCE CARD,	\$17.00
05890-94110	REF MANUAL, SPANISH	\$216.00
0854-0141	PLUG, GLOW; 1.5V	\$19.00
0905-0103	O-RING, 0.445 OD	\$7.00
0905-0626	O-RING	\$ .30
0905-0970	O-RING ID4 48MM	\$37.00
0905-0997	O-RING	\$ .45
0905-0998	O-RING	\$2.10
0905-1194	PUMP SEAL FOR HP 1090	\$63.00
0905-1259	KALREZ O-RING	\$74.00
10833A	HP-IB CABLE, 1 METER	\$90.00
10833B	HP-IB CABLE, 2 METER	\$100.00
10833C	HP-IB CABLE, 4 METER	\$110.00
10833D	HP-IB CABLE, .5 METER	\$90.00
1252-5289	CONNECTOR, MULTICONACT	\$7.25
1390-0421	CATCH, FASTENER	\$17.50
1420-0361	BATTERY, LITHIUM	\$55.00
1460-1998	SPRING, COMP OD 1725	\$4.00
1480-0632	PIN - ORLSE	\$12.00
1500-0635	BELT, GEAR	\$15.00
1500-0668	BELT, GEAR	\$15.20
1500-0697	BELT, GEAR	\$13.00
1500-0698	BELT, SAMPLING UNIT	\$18.00
1535-4048	ROTOR SEAL VESPEL	\$60.00
1535-4854	FITTING, NEEDLE PART	\$50.00
1535-4856	SEAL, ISOLATION	\$58.30
1535-4860	LOOP, 5 UL 7020	\$73.00
1535-4861	SEAL, ROTOR 7413	\$95.00
1535-4862		
1535-4900	SEAL, HIGH PH ROTOR	\$99.00
18594-60510	CABLE, 3392 BCD	\$122.00
18594-60520	GROUP, ECD CABLE	\$69.00
18596M	100-SAMPLE TRAY FOR TH	\$2,900.00
18710-20119	JET, 2.5 IN	\$42.00
18740-20800	NUT, REDUCING	\$30.00
18740-20880	SEAL, STAINLESS STEEL	\$24.00
18740-20885	GOLD PLATED SEAL	\$30.00
18740-60830	RETAINER NUT, HEADSPAC	\$34.00
18740-60835	SER II SEPTUM NUT ASSE	\$35.00
18740-60840	INSERT, SPLIT, PACKED	\$46.00
18740-80190	INSERT, SPLIT, UNPACKE	\$41.00
18740-80200	INSERT, DIRECT INJECTI	\$17.00
18740-80220	INSERT, SPLITLESS	\$27.00
18789-80070	JET TUBE ASSEMBLY	\$42.00
19231-20520	MANIFOLD, FLOW	\$95.00
19231-20530	PLUG, VALVE	\$15.40
19231-20540	VALVE, ON/OFF	\$21.20
19231-20550	VALVE, FRD IGNTN	\$27.60
19231-60010	FID BOARD	\$477.00

19231-60025	DIODE BRIDGE ASSY	\$44.50
19231-60610	RESTR, FID AIR	\$10.60
19231-60620	HEATER	\$39.20
19231-60650	NEEDLE VALVE ASSY	\$95.00
19231-60660	PRT SENSOR	\$82.00
19231-60680	GLOW PLUG/CABLE ASSEMB	\$36.00
19231-60690	COLLECTOR, ASSEMBLY	\$177.00
19231-60710	INTERCONNECT ASSY	\$90.00
19231-60750	FID MANIFOLD ASSY	\$445.00
19231-60770	FID HYD RESTRICTOR	\$15.40
19231-80580	WELDMENT, DETECTOR	\$424.00
19232-20500	MANIFOLD, FLOW BLK	\$95.00
19232-60010	TCO BOARD	\$557.00
19232-60020	SER II TCO PCA	\$413.00
19232-60610	RESISTOR, MAKE-UP	\$14.00
19232-60650	RSTR, REF GAS	\$10.30
19232-60660	PRT ASSY	\$61.00
19232-60676	TCO REPLACEMENT CELL	\$895.00
19232-60680	TCO MANIFOLD ASSY	\$445.00
19232-60725	RP TCO SWITCH VLV KT	\$217.00
19232-80550	ADAPTER, WELDMENT	\$97.00
19233-20515	BLOCK, LOWER HEATER	\$77.00
19233-60600	INTERCONNECT ASSY	\$101.00
19233-60610	ECO MANIFOLD ASSY	\$286.00
19233-60625	ECO HEAT SENSOR	\$122.00
19233-60627	ECO HEATER	\$53.00
19233-60635	ECO SIGNAL	\$19.10
19233-60675	FLOW BLOCK ASSY ECO	\$509.00
19233-67010	ASSY, ANODE FERRULE NUT	\$127.00
19233-69570	HP 5890A ECO (GENERAL)	\$940.00
19233-69576	SERIES II ECO, GENERAL	\$875.00
19233-80510	HEATED BLOCK	\$111.00
19233-80565	ECO MAKE-UP GAS ADAPTE	\$177.00
19234-20610	CONTACT	\$75.00
19234-60012	NPD PCB	\$557.00
19234-60540	NPD COLLECTOR BODY RED	\$131.00
19234-60570	REST, NPD AIR/AUX	\$15.90
19234-60580	TORROID ASSY	\$223.00
19234-60600	RESTRICTOR, NPD AIR	\$20.10
19234-60650	NPD MANIFOLD ASSY	\$413.00
19234-60660	RESTRICTOR, BLUE DOT	\$15.90
19234-60750	CRIMP-NPD TORROID/	\$164.00
19234-80510	BODY ASSY	\$106.00
19235-69530	HP 5890A EDC(SPECIFIC)	\$940.00
19235-69536	SERIES II EDC, SPECIFIC	\$870.00
19239-20550	SOUND INSULATION	\$63.60
19239-60545	CO2 VALVE ASSY	\$254.00
19239-65507	BLAST, LN2 CRYO	\$413.00
19239-65517	KIT, CRYOGENIC LN2	\$329.00
19239-80505	CO2 CRYO WELDMENT	\$55.65
19239-80535	LNT BRAZE MOUNT CYROB	\$111.00
19242-60015	BUFFERED INLET I/F BO	\$392.00
19242-60030	BOARD, RS232 PC	\$519.00
19243-60500	NONPURGING SEPTUM NUT	\$59.00
19243-60650	REG ASSY, SEPTA PURGE	\$159.00
19243-80500	INJ PORT WELDMENT	\$350.00
19243-80560	WELDMENT, PPIP BASE	\$318.00
19243-80570	WELDMENT, PPIP INSERT	\$118.00
19244-80540	INJECTION PORT LINER 5	\$100.00
19244-80560	CAP COLUMN JET TIP	\$50.00
19244-80620	HIGH T CAP JET WELDMEN	\$29.00
19245-20510	NARROW BORE INSERT	\$74.00
19245-20515	250-MICRON INSERT	\$88.00
19245-20525	320 MICRON INSERT	\$64.00
19245-20550	GLASS INSERT	\$39.00
19245-20580	530 MICRON INSERT	\$45.00
19245-20780	530U INSERT-ALUMINUM C	\$35.00
19245-60510	PCOC COOLING FAN ASSY	\$42.40
19245-60760	PCOC INSERT SPRING	\$7.00
19245-80521	PCOC SEPTUM NUT BASE	\$50.90
19245-80550	CRYO BLAST NOZZLE	\$79.50
19246-60530	PRESSURE REGULATOR	\$117.00
19246-60570	BACK PRESSURE REGULATO	\$144.00
19247-60510	DEFLECTOR, OVEN EXHAUS	\$112.00
19251-00100	WRENCH, ANGLED	\$24.00
19251-20620	CAPILLARY INJECTION RT	\$24.00
19251-60540	LINER, SPLIT WITH GLAS	\$26.00
19251-60560	CAPILLARY INJ SOL ASSY	\$159.00
19251-60575	ASSEMBLY, INSERT	\$194.00
19251-80570	WELD, 5890 SHELL	\$191.00
19256-20730	DRIP TUBE, 5890 FPD	\$31.00
19256-60010	BOARD, FPD PC	\$583.00
19256-60510	TUBE ASSY	\$1,700.00
19256-60540	HEATER/SENSOR ASSY	\$159.00
19256-60590	FERRULE/LINER KIT	\$69.00

19256-60630	FPD MANIFOLD ASSY	\$466.00
19256-80000	FILTER, SULFUR 5890 FP	\$293.00
19256-80010	FILTER, P 5890 FPD	\$293.00
19256-80030	WINDOW, FIRST	\$30.00
19256-80060	WINDOW, SECOND	\$31.00
19257-00035	PANEL, REAR	\$122.00
19257-60015	HPIB INTERFACE, RFI	\$260.00
19257-60020	CONNECTOR PCB ASSY	\$244.00
19257-60505	CABLE HPIB/RS232	\$36.00
19261-60010	BOARD, ANALOG	\$399.00
19301-00150	NUT, WRENCH THR	\$8.00
19310-20500	NOZZLE	\$38.20
19320-60656	30 PSI GAUGE KIT	\$73.00
19325-20640	PISTON	\$45.60
19325-20650	PISTON ROD	\$21.70
19325-60660	ACTR ASSEMBLY	\$297.00
19325-80010	LINK	\$42.40
19358-20520	BLOCK, HEATED	\$43.45
19361-60566	100 PSI REPLACEMENT GA	\$73.00
19362-60565	MASS FLOW CNTRLR WITH	\$227.00
19362-60575	MASS FLOW CNTRLR 400CC	\$227.00
2110-0001	FUSE, 1 AMP	\$3.30
2110-0002	FUSE, 2 AMP MED	\$5.85
2110-0003	FUSE, 3 AMP, BUY IN 5'S	\$5.30
2110-0004	FUSE, .25 AMP MED	\$1.40
2110-0007	FUSE, 1 AMP SLOW	\$5.90
2110-0030	FUSE, 5 AMP SLOW	\$2.00
2110-0036	FUSE, 8 AMP MED	\$1.10
2110-0054	FUSE, 15 AMP SLOW	\$5.95
2110-0055	FUSE, 4 AMP MED	\$1.10
2110-0083	FUSE, 2.5 AMP MED	\$1.00
2110-0098	FUSE, 20 AMP MED	\$1.00
2110-0099	FUSE, 1 AMP FAST	\$3.00
2110-0303	FUSE, 2 AMP SLOW	\$1.05
2110-0304	FUSE, 1.5 AMP SLOW	\$4.00
2110-0342	FUSE, 8 AMP	\$3.00
2110-0421	FUSE, .375 AMP	\$3.00
2110-0422	FUSE, 6.25 AMP SLO	\$5.95
2110-0565	CAP, FUSE GRAY UL/CSA	\$5.95
2110-0566	HOLDER, FUSE	\$2.40
2110-0761	FUSE, 48023A & 48026A	\$1.30
24542M	RS-232C US/EURO, MODEM	\$45.00
3101-0402	SWITCH, ON/OFF	\$8.00
3107-0010	SWITCH, PRESSURE	\$27.50
3107-0019	SWITCH, 1/8" LO AIR PRSS	\$42.00
3110-0162	HINGE ASSY	\$24.00
3140-0675	MOTOR, STEPPER	\$100.00
3140-0682	MOTOR, AC 230V	\$154.00
3140-0683	MOTOR, AC 115V	\$185.50
3150-0462	FILTER FOAM LARGE	\$15.00
3150-0463	FILTER FOAM SMALL	\$15.00
3160-0402	FAN, CROSSFLOW	\$116.00
3160-0421	FAN, TBAX	\$75.00
3160-0547	FAN, 24V DC	\$66.00
3160-0861	FAN FOR 79847B	\$72.50
3160-0862	FAN ASSY FOR 79855A	\$74.00
35900-60670	CABLE, GEN PUR REMOTE	\$92.20
35900-60710	CABLE, 1090 REMOTE	\$87.50
35900-60750	CABLE, 1046 SIGNAL	\$61.00
3980-0672	SAPPHIRE PISTON FOR HP	\$91.00
5001-3724	PUMP, TOP COVER	\$212.00
5021-7127	POLY TUBING	\$8.00
5041-1203	BUTTON, PWR WHITE	\$1.00
5041-2106		
5041-2107	BASE, LEFT FRAME	\$115.00
5041-2109	TOP, LEFT FRAME	\$143.00
5041-2142	SENSOR, INTERRUPTOR	\$39.00
5041-2161	FOOT, FRONT	\$12.50
5041-2162	ACTUATOR	\$14.00
5041-2170	PLATE, NAME	\$12.50
5061-3349	MICRO-VIAL TRAY	\$40.00
5061-3352	CABLE INTERFACE ASSY	\$43.45
5061-3356	SENSOR, LEAK	\$63.60
5061-3374	DPS, B 01050-69374	\$636.00
5061-3375	DPS, A 01050-69375	\$1,330.00
5061-3376	FIP, FLOURESCENT INTFC	\$360.00
5061-3378	CABLE, REMOTE	\$50.00
5061-3380	CMP BOARD ASSY 01050-69580	\$1,030.00
5061-3382	CIB BOARD AY 01050-69582	\$400.00
5061-3400	CABLE, DISPLAY BOARD	\$30.00
5061-5867	FPD O-RING 12/PK	\$14.00
5062-2410	CABL.AY-INT.FACE	\$30.00
5062-2416	CABLE, CONNECTOR BOARD	\$32.00
5062-2482	CRB BOARD AY 01050-69592	\$489.00
5062-2494	PISTON SEALS FOR HP 10	\$115.00

5062-3587	LINER, BORISILICATE TA	"	\$34.00	
5080-8728	SEPTA, 3/8" GRAY 24/P		\$30.00	
5080-8732	SLEEVES 25/PK		\$34.00	
5080-8774	FERRULE, 10/PK		\$39.00	
5080-8872	5700/5800 NP CARTRIDGE		\$123.00	
5080-8894	SEPTA, 11MM GRAY 144/		\$65.00	
5080-8896	SEPTA, 11MM GRAY 24/P		\$30.00	
5180-0841	VIALS, MICRO 500/PK	"	\$130.00	
5180-0842	MICRO VIAL CAPS 500/P	"	\$135.00	
5180-0843	SLEEVES, MIC VIAL 10/		\$14.00	
5180-4150	CLEANING WIRES FOR 0.0		\$8.00	
5180-4152	CLEANING WIRES: 0.018"		\$14.00	
5180-4153	CAPILLARY INLET CLEANI		\$8.00	
5180-4181	O-RINGS, UNGREASED 12		\$12.00	
5181-1251	O-RING, GREASED		\$4.90	
5181-1260	SEPTA 5MM THRU HOLE 2	"	\$26.00	
5181-1261	SEPTA 5MM 25PK		\$26.00	
5181-1263	SEPTA 11MM NO HOLE 25	"	\$26.00	
5181-3315	LINER DEACTIVATED	"	\$34.00	
5181-3316	DEACTIVATED LINER	"	\$31.00	
5181-3400	2ML VIAL & CAP KIT		\$111.00	
5181-8801	2ML VIAL AMBER & 11MM		\$136.00	
5181-8818	SPLITLESS LINER 2MM ID	"	\$30.00	
5181-8830	COLUMN NUT 2/PK		\$24.00	
5182-0538	2ML VIAL 100PK	"	\$16.00	
5182-0539	2ML AMBER VIAL 100/PK	"	\$18.00	
5182-0739	HIGH TEMPERATURE, LOW		\$63.00	
6010-0694	PAINT, COCO-BRN 6.5 OZ		\$25.00	
6010-0695	PAINT, PEARL GR 6.5 OZ		\$20.00	
6010-1146	PAINT TOUCH-UP6.5OZ/CN		\$23.00	
6010-1148	PAINT, TOUCH-UP6.5OZ/CN		\$17.50	
7121-5291	TI NAME PLATE		\$9.00	
79835-84123	DIAPHRAGM FOR SOLVENT		\$40.00	
79835-22330	HOLDER, UNION		\$63.65	
79835-43101	GUIDE, PLUNGER		\$25.45	
79835-43613	BELT GEAR DRIVER		\$7.15	
79835-43615	BELTGEAR 50HZ AY		\$30.75	
79835-43616	BELT GEAR ASSY 60HZ		\$31.80	
79835-44183	HOUSING COVER		\$14.80	
79835-60003	LPC ASSY	79835-69003	\$1,380.00	
79835-60005	HP DAMPER		\$800.00	
79835-60011	PUMP, 220V/50HZ	79835-69004	\$3,390.00	
79835-60012	PUMP, 115V/60HZ	79835-69009	\$3,710.00	
79835-60020	MET PUMP NO VALVE INCL	79835-69020	\$3,180.00	
79835-60021	VALVE, ROTARY	79835-69021	\$1,590.00	
79835-61111	OVERRIDE VALVE		\$196.00	
79835-61112	OVERRIDE 350		\$233.00	
79835-61620	SENSOR, LEAK II		\$58.30	
79835-65213	REPLACEMNET SIEVE FOR		\$23.00	
79835-65216	REPLACEMENT SIEVE FOR		\$29.00	
79835-66511	SDM BOARD ASSY		\$720.00	
79835-66512	IOC BOARD ASSY		\$201.00	
79835-66515	MPL BOARD ASSY		\$76.85	
79835-66516	KVS BOARD ASSY		\$100.75	
79835-66517	PSS BOARD ASSY		\$71.50	
79835-66520	SIC BOARD ASSY		\$307.00	
79835-66521	MCD BOARD ASSY	79835-69521	\$715.00	
79835-66522	SMD BOARD ASSY		\$557.00	
79835-66523	BCT BOARD ASSY		\$148.00	
79835-66534	CVD BOARD ASSY		\$382.00	
79835-67101	CHECK VALVE CARTRIDGE		\$129.00	
79835-67102	CHECK VALVE CARTRIDGE,		\$180.00	
79835-67701	VALVE, MCG	79835-69701	\$1,430.00	
79835-68721	MCGV UPGRADE KIT		\$370.00	
79835-68722	MCD ASSY KIT(66520,665	79835-69722	\$901.00	
* 79835-69003	LPC ASSY	79835-60003	\$1,380.00	\$610.00
* 79835-69004	BOOSTER PUMP 50	79835-60011	\$3,390.00	\$980.00
* 79835-69009	BOOSTER PUMP 60	79835-60012	\$3,710.00	\$980.00
* 79835-69020	MET PUMP NO VALV	79835-60020	\$3,180.00	\$930.00
* 79835-69021	VALVE, ROTARY	79835-60021	\$1,590.00	\$580.00
* 79835-69521	MCD BOARD ASSY	79835-66521	\$715.00	\$455.00
* 79835-69701	MC GV	79835-67701	\$1,430.00	\$660.00
* 79835-69722	MCD ASSY KIT(66520,665	79835-68722	\$901.00	\$636.00
79835-87330	SOLVENT MIXER		\$178.00	
79841-65501	INJECTOR LUBRICANT		\$22.00	
79846-23203	FLASH UNION		\$21.50	
79846-23702	ARM 1, BAR SWIVEL		\$24.90	
79846-24501	WASTE SLEEVE, 25 UL		\$25.00	
79846-24502	WASTE SLEEVE, 250 UL		\$25.00	
79846-27101	SEAL, THREADED END OF		\$12.00	
79846-27103	SEAL, THREADED END OF		\$14.00	
79846-27303	WASTE TUBE FOR HP1090		\$21.00	
79846-44701	SUPPORT		\$42.40	
79846-45001	ARM, SWIVEL		\$28.60	
79846-60001	HP VALVE UNIT	79846-69001	\$2,390.00	

79846-60002	DEVICE, METERING		\$900.00	
79846-60005	UNIT, VIAL SWIVEL		\$223.00	
79846-66501	ICO INJECTOR BOARD AY		\$307.00	
79846-66502	LIGHT SWI BOARD ASSY		\$66.25	
79846-66503	LIGHT SWI BOARD ASSY		\$53.00	
79846-66504	LIGHT SWI BOARD ASSY		\$63.60	
79846-66505	BOS LIGHT SW BOARD AY		\$58.30	
79846-67101	NEEDLE SEAT ASSEMBLY		\$33.00	
79846-67103	ARM ASSY		\$212.00	
79846-67901	SYM ASSY		\$111.00	
79846-67902	FLUSH VALVE		\$452.00	
79846-68101	METERING BASE ASSY		\$382.00	
* 79846-69001	HP VALVE UNIT	79846-60001	\$2,390.00	\$740.00
79846-87201	NEEDLE INSERT FOR HP 1		\$50.00	
79846-87202	NEEDLE INSERT, 250UL		\$70.00	
79846-87601	SYRINGE CAPILLARY, SYR		\$88.00	
79846-87604	SAMPLE LOOP CAPILLARY,		\$82.00	
79846-87612	LOOP CAP 125 UL		\$111.00	
79846-87613	SAMPLE LOOP CAPILLARY,		\$111.00	
79847-42001	HEAT EXCHANGER TCAS		\$424.00	
79847-43701	MAGAZINE HOLDER 1		\$16.95	
79847-43702	MAGAZINE HOLDER 2		\$16.95	
79847-43703	MAGAZINE HOLDER 3		\$16.95	
79847-43704	MAGAZINE HOLDER 4		\$16.95	
79847-43705	MAGAZINE HOLDER 5		\$16.95	
79847-43706	MAGAZINE HOLDER 6		\$16.95	
79847-43707	MAGAZINE HOLDER 7		\$16.95	
79847-43708	MAGAZINE HOLDER 8		\$16.95	
79847-43709	MAGAZINE HOLDER 9		\$32.00	
79847-43710	MAGAZINE HOLDER 0		\$16.95	
79847-45001	DRIVER		\$15.90	
79847-60005	MAGAZINE FOR HP 1090 L		\$14.00	
79847-66501	SCO SAMPLER BOARD ASSY		\$212.00	
79847-66502	CPS LIGHT SWI BOARD AY		\$74.25	
79847-66503	MIP LIGHT SWI BOARD AY		\$63.60	
79847-66504	VCS LIGHT SWI BOARD AY		\$71.50	
79847-66510	SWITCH, CPS LIGHT		\$127.00	
79847-66511	SWITCH, MIP LIGHT		\$93.00	
79847-66512	SWITCH, VCS LIGHT		\$106.00	
79847-67901	CAR MOTOR ASSY		\$122.00	
79847-67902	MAG MOTOR ASSY		\$122.00	
79852-90001	QUICK REFERENCE GUIDE		\$8.00	
79852-90003	INSTRUCTION KIT FOR		\$95.00	
79852-90006	INSTRUCTION KIT FOR		\$106.00	
79852-90007	INSTRUCTION KIT FOR		\$180.00	
79852-90008	INSTRUCTION KIT FOR HP		\$73.00	
79853-13002	ROM DCB HPIB		\$133.00	
79853-13004	ROM HPIB		\$133.00	
79853-13005	ROM, DCB 53C-4.24		\$118.50	
79853-60000	79853C STANDARD FLOW C		\$946.00	
79853-60002	D2 LAMP ASSEMBLY		\$327.00	
79853-60003	HIGH PRESSURE FLOWCELL		\$2,586.00	
79853-60004	FLOWCELL, SST MICRO		\$1,384.00	
79853-60005	FLOWCELL, 10MM, TI		\$1,800.00	
79853-60006	PREP FLOWCELL, SST		\$1,352.00	
79853-60010	MICRO FLOW CELL, SS		\$1,321.00	
79853-60011	STANDARD FLOW CELL TI		\$1,493.00	
79853-60012	PREP FLOW CELL TI		\$1,144.00	
79853-60013	ULTRA HIGH PRESSURE CE		\$2,180.00	
79853-60015	OPT 53C "D" W/FLOW CELL	79853-69015	\$4,980.00	
79853-60203	PANEL W/ELECT FOR 53A/		\$1,380.00	
79853-61101	SAMP DIODE AY		\$413.00	
79853-61102	REF DIODE AY		\$318.00	
79853-61106	POS SENSOR GRATING		\$66.00	
79853-61107	POS SENSOR FILTER		\$66.25	
79853-61109	DIODE SAMPLE		\$413.00	
79853-61110	DIODE REFERENCE		\$330.00	
79853-61601	CABLE DCB-KDI 53A		\$77.00	
79853-61602	CABLE KDI-VFD 53A		\$36.00	
79853-61603	CABLE SAMPLE 53A		\$122.00	
79853-61605	CABLE DCB-PSC 53A/C		\$13.30	
79853-61609	CABLE AY DCB-KDI		\$66.00	
79853-61610	CABLE HPIB-DCB		\$48.75	
79853-62702	FILTER AY		\$350.00	
79853-64101	COVER ASSEMBLY		\$138.00	
79853-64601	GRATING AY		\$690.00	
79853-64602	GRATING DRIVE AY		\$583.00	
79853-64605	GRATING		\$640.00	
79853-64606	GRATING MOTOR ASSY		\$500.00	
79853-66111	LEAK SENSOR ASSY		\$392.00	
79853-66501	DCB BOARD AY	79853-69501	\$981.00	
79853-66502	BOARD, DISP INTRFC		\$133.00	
79853-66503	DISPLAY MODULE AY		\$403.00	
79853-66504	CONNECTION, BOARD		\$122.00	
79853-66505	PRE-AMP BD AY		\$170.00	

79853-66507	PRE-AMP BOARD SAMPLE		\$223.00	
79853-66508	PRE-AMP BOARD REF		\$223.00	
79853-66510	LEAK BOARD ASSY		\$223.00	
79853-66511	DCB BOARD 53C	79853-69511	\$1,220.00	
79853-66512	PSC BOARD 53C		\$143.00	
79853-67901	STEPPER MOTOR AY		\$445.00	
79853-67903	FILTER MOTOR ASSY		\$498.00	
79853-68101	MIRROR ASSY #1		\$217.00	
79853-68102	MIRROR ASSY #2		\$185.50	
79853-68103	MIRROR ASSY #3		\$190.00	
79853-68104	MIRROR ASSY #4		\$275.00	
79853-68107	MIRROR #1		\$121.00	
79853-68108	MIRROR #2		\$127.00	
79853-68109	MIRROR #3		\$138.00	
79853-68501	FAN ASSEMBLY		\$80.00	
79853-68502	FAN ASSY (HIGH)		\$82.15	
79853-68503	FAN ASSY (LOW)		\$82.15	
79853-68711	HP18 INTERFACE		\$930.00	
* 79853-69015	OPT 53C "D" W/FLOW CELL	79853-60015	\$4,980.00	\$2,540.00
* 79853-69501	DCB BOARD ASSY	79853-66501	\$981.00	\$663.00
* 79853-69511	DCB BOARD 53C	79853-66511	\$1,220.00	\$1,000.00
79853-90001	QUICK REFERENCE GUIDE		\$8.00	
79853-90003	INSTRUMENT KIT FOR 105		\$102.00	
79853-90005	VARIABLE WAVELENGTH DE		\$68.00	
79853-90006	INSTRUCTION KIT FOR		\$101.00	
79853-90007	INSTRUCTION KIT FOR		\$255.00	
79853-90009	VARIABLE WAVELENGTH IN		\$53.00	
79854-90001	QUICK REFERENCE GUIDE		\$8.00	
79854-90006	INSTRUCTION KIT FOR		\$87.50	
79854-90007	INSTRUCTION KIT FOR		\$250.00	
79854-90008	INSTRUCTION KIT 4TH ED		\$91.00	
79855-90001	QUICK REF GUIDE FOR HP		\$8.00	
79855-90003	INSTRU KIT FR AUTOSMLR		\$144.00	
79855-90006	INSTRUCTION KIT FOR		\$122.00	
79855-90007	INSTRUCTION KIT FOR		\$286.00	
79855-90008	INSTRUCTION KIT/AUTOSA		\$75.00	
79858A				
79880-60002	DEUTERIUM LAMP FOR 105	"	\$463.00	
79881-02401	GEAR, FILTER		\$106.00	
79881-09103	CELL SPRING FOR HP7988		\$8.00	
79881-22403	SCREW FOR FLOW CELL		\$24.00	
79881-25204	CELL HOUSING 6		\$740.00	
79881-27101	CELL GASKET 0.6		\$11.00	
79881-27102	CELL GASKET 1.2		\$11.00	
79881-28101	CELL WINDOW FOR HP 798		\$30.00	
79881-60002	CELL ASSY 1		\$1,640.00	
79881-60004	UNIT, OPTICAL	79881-69004	\$3,820.00	
79881-60006	SMP DIODE ASSY		\$558.00	
79881-60007	REF DIODE ASSY		\$610.00	
79881-62501	WHEEL ASSY		\$111.00	
79881-62760	FILTER KIT FOR HP 1090		\$2,127.00	
79881-62761	1-210 FILTER ASSEMBLY		\$359.00	
79881-62762	2-230 FILTER ASSEMBLY		\$359.00	
79881-62763	3-250 FILTER ASSEMBLY		\$359.00	
79881-62764	4-280 FILTER ASSEMBLY		\$359.00	
79881-62765	5-340 FILTER ASSEMBLY		\$359.00	
79881-62766	6-430 FILTER ASSEMBLY		\$359.00	
79881-62767	7-540 FILTER ASSEMBLY		\$359.00	
79881-62769	FILTER ASSY 269NM		\$360.00	
79881-66501	FMB BOARD ASSY		\$276.00	
79881-66502	ADA BOARD	79881-69502	\$928.00	
79881-66503	PROCESSOR BOARD ASSY	79881-69503	\$636.00	
* 79881-69004	EX FPD OPTICAL	79881-60004	\$3,820.00	\$1,000.00
* 79881-69502	ADA BOARD	79881-66502	\$928.00	\$660.00
* 79881-69503	PROCESSOR BOARD	79881-66503	\$636.00	\$390.00
79883-60002	DEUTERIUM LAMP FOR 105	"	\$494.00	
79883-60051	CELL ASSY FOR 1050, PA		\$796.00	
79883-60052	CELL ASSY FOR 1050, PA		\$796.00	
79883-60054	HIGH PRESSURE FLOW CEL		\$1,894.00	
79883-60055	HIGH PRE MICRO CELL		\$1,894.00	
79883-61901	SHUTTER AY		\$276.00	
79883-66501	BOARD, DPS		\$370.00	
79883-66509	LPC BOARD AY		\$98.00	
79994-90025	4.2 RUN AN ANAL		\$18.00	
79994-90026	4.2 AUTO ANAL		\$18.00	
79994-90027	4.2 FACT FILE		\$45.00	
79994-90028	CUSTOMIZING WITH 4.2 M		\$15.00	
79994-90029	4.2 COMMANDS		\$24.00	
79994-90031	5.2 RUN AN ANAL		\$18.00	
79994-90032	5.2 AUTO ANAL		\$13.00	
79994-90033	5.2 FACT FILE		\$45.00	
79994-90034	CUSTOMIZING WITH 5.2 M		\$13.00	
79994-90035	5.2 COMMANDS		\$24.00	
8120-0698	CABLE ASSY		\$12.00	
8120-1351	POWER CORD, UK, GREY		\$26.00	

8120-1369	POWER CORD, AUSTRALIA		\$18.00	
8120-1378	PWR CORD US 115V GR		\$10.00	
8120-1689	POWER CORD, EUR, GREY		\$22.00	
8120-1840	CABLE ASSY		\$29.00	
8120-2104	POWER CORD, SWITZ, GRY		\$13.50	
8120-2956	POWER CORD, DENMK, GRY		\$16.50	
8120-2957	POWER CORD SET		\$30.00	
8120-4211	PWR CORD, SAFRICA, GRY		\$19.50	
82167-60001	0.5 METER CABLE		\$8.75	
82167-60002	1.0 METER CABLE		\$6.00	
82167-60003	5.0 METER CABLE		\$8.00	
8710-1158	WRENCH		\$378.00	
8710-1346	BRUSH, WIRE		\$8.00	
8710-1643	CRIMPER, 8MM		\$204.00	
9135-0038	FILTER, LINE		\$30.00	
9135-0202	FILTER, LINE		\$32.00	
9301-0633	SYRINGE, 25UL HPLC INJ		\$63.00	
9301-0656	1 LITER SOLVENT RESERV		\$35.00	
9301-0675	REPLACEMENT PLUNGER		\$35.00	
9301-0676	NEEDLE, 250UL		\$15.00	
9301-0677	SYRINGE PLUNGER		\$30.00	
9301-0678	SYRINGE, 1725RN		\$63.00	
9301-0679	NEEDLE, 10-100UL		\$17.00	
9301-0985	DET CLEAN KIT		\$32.00	
9301-1168	VIAL		\$1.25	
G1306-66524	DAD FW REV 1.2 SEE G1306-69524		\$1,590.00	
* G1306-69524	DAO-FIRMWARE RSTD		\$1,590.00	\$270.00
G1530-00035	REAR LWR COVER		\$46.65	
G1530-00220	REAR TOP COVER		\$39.20	
G1530-00470	MANIFOLD RFI PLATE		\$38.20	
G1530-40010	ON/OFF SWITCH ROD		\$9.00	
G1530-40040	PNEUMATICS TOP COVER		\$31.00	
G1530-40050	LEFT SIDE COVER		\$41.30	
G1530-40070	INJ PORT TOP COVER		\$38.20	
G1530-40115	ELECT. SIDE COVER		\$43.50	
G1530-40125	ELECT TOP COVER		\$19.10	
G1530-40130	DETECTOR TOP COVER		\$39.20	
G1530-40200	INLET FAN COVER		\$11.50	
G1530-60010	MAINBD W/O ROMS G1530-69010		\$1,540.00	
G1530-60050	AC BOARD, UNIVERSAL		\$249.00	
G1530-60560	CABLE, GEN PURPOSE SIG		\$53.00	
G1530-60570	CABLE ASSEMBLY, 6890A		\$45.00	
G1530-60590	CABLE, 6890, EXT. EVEN		\$39.00	
G1530-60600	CABLE, RS232, 9F/9F		\$45.00	
G1530-60630	CBL, GEN. PURPOSE BCD		\$26.50	
G1530-60690	120V. CONFIG, PLUG		\$14.80	
G1530-60700	220V. CONFIG, PLUG		\$13.30	
G1530-60710	220V. CONFIG, PLUG		\$13.30	
G1530-60720	230V. CONFIG PLUG		\$12.20	
G1530-60730	240V. CONFIG. PLUG		\$12.20	
G1530-60815	OVEN DOOR ASSY		\$498.00	
G1530-60870	CABLE, USA 120V POWER		\$35.00	
G1530-60880	CABLE, EURP 220V POWER		\$44.50	
G1530-60885	CABLE, EURP SP220V PWR		\$44.50	
G1530-60890	CBL, GB/IRELAND 240V PW		\$101.00	
G1530-60900	CABLE, USA 240V POWER		\$79.50	
G1530-60910	CBL, AUSTRALIA 240V PW		\$76.90	
G1530-60920	CBL, JAPAN, 220V, PWR		\$84.80	
G1530-60930	CABLE, REMOTE, 6890, 9		\$45.00	
G1530-60940	FLAPPER MOTOR ASSY		\$74.00	
G1530-60960	PNEUMATIC LK TEST KT		\$403.00	
G1530-60970	TRANSFORMER, UNIVERSAL		\$297.00	
G1530-61120	CABLE, MODEM, 9M/9F		\$54.00	
G1530-61310	MOTOR, UNIVERSAL OVEN		\$164.00	
G1530-61380	MANUAL KIT, 6890 USER		\$67.00	
G1530-61500	HP-6890 SERVICE MANUA		\$94.00	
G1530-61610	120V. OVEN SHROUD		\$170.00	
G1530-61620	OVEN SHROUD 200V, JAPAN		\$170.00	
G1530-61630	220V. OVEN SHROUD		\$170.00	
G1530-61640	240V. OVEN SHROUD		\$170.00	
G1530-61650	230V. OVEN SHROUD		\$170.00	
G1530-61702	ROM SET REV A03.03		\$72.50	
G1530-67500	CBL, SWITZERLAND, 10A		\$55.70	
G1530-67501	CBL, S.AFRICA/INDIA		\$95.40	
G1530-67502	CBL, DENMARK, 230V PWR		\$61.00	
G1530-67503	CBL, DENMARK/SWITZERLAN		\$90.10	
G1530-67505	CBL, HONG KONG 220V, PWR		\$101.00	
G1530-67506	CBL, CHINA, 220V PWR		\$76.90	
* G1530-69010	MAINBD W/O ROMS RSTRD		\$1,540.00	\$610.00
G1530-80560	FLAPPER SHAFT ASSY		\$51.90	
G1530-90640	6890 SERV INFO CD-ROM		\$51.00	
G1531-60010	FID SIGNAL BOARD		\$276.00	
G1531-60020	FID INTERFACE BOARD		\$103.00	
G1531-60520	EPC/FID MANIFOLD ASSY		\$1,590.00	
G1531-60610	VALVE EPC REPLACE KT		\$205.00	

G1531-60680	IGNITER CABLE ASSEMBLY		\$34.00	
G1531-60690	6890 FID COLLECTOR ASS		\$164.00	
G1531-60710	FID INTRCONNECT ASSY		\$122.00	
G1531-61140	SENSOR ASY, FID/TCD/NPD		\$87.00	
G1531-80560	6890 CAPILLARY/SERIES		\$37.00	
G1531-80580	PKD COL FID WELDMENT		\$307.00	
G1531-80620	6890 CAPILLARY, HIGH T		\$27.00	
G1531-80630	CAP FID BASS WELDMENT		\$286.00	
G1532-60010	TCD SIGNAL BOARD		\$329.00	
G1532-60520	EPC/TCD MANIFOLD ASSY		\$1,330.00	
G1532-60675	TCD REPLACEMENT CELL 6		\$842.00	
G1533-60010	ECD SIGNAL BOARD		\$239.00	
G1533-60020	ECD INTERFACE BOARD		\$117.00	
G1533-60520	EPC/ECD MANIFOLD ASSY		\$1,170.00	
G1533-60576	SEE: G1533-69576	G1533-69576	\$1,640.00	
G1533-60625	ECD HTR./SENSOR ASSY		\$82.00	
G1533-60660	SEE: G1533-69660	G1533-69660	\$1,640.00	
G1533-60730	SEE: G1533-69730	G1533-69730	\$1,800.00	
* G1533-69576	RSTRD: G1533-60576		\$1,640.00	\$843.00
* G1533-69660	RSTRD: G1533-60660		\$1,640.00	\$843.00
* G1533-69730	RSTRD: G1533-60730		\$1,800.00	\$875.00
G1533-80565	6890 ECD MAKE-UP GAS A		\$154.00	
G1534-60010	NPD SIGNAL BOARD		\$228.00	
G1534-60020	NPD INTERFACE BOARD		\$265.00	
G1534-60520	EPC/NPD MANIFOLD ASSY		\$1,590.00	
G1534-60570	6890 NPD BEAD ASSEMBLY		\$261.00	
G1534-60600	NPD PWR CABLE ASSY		\$42.40	
G1534-60610	NPD INTERCONNECT ASSY		\$100.00	
G1534-80500	CAP NPD HTR BLOCK		\$339.00	
G1535-80050	PHOTOMULTIPLIER TUBE		\$600.00	
G1543-20510	INLET/FRIT SUPPLY FTG		\$55.00	
G1543-60500	EPC/PPIP MANIFOLD ASSY		\$1,220.00	
G1543-61540	PPIP HTR/SENSOR ASSY		\$79.50	
G1543-80580	PPIP BODY BRAZEMENT		\$350.00	
G1544-20590	RETAINING NUT		\$21.00	
G1544-60500	EPC/CAPILLARY MANIFOLD		\$1,480.00	
G1544-60560	CAP. SOL. VALVE		\$111.00	
G1544-60575	SPLIT/SPLITLESS INSERT		\$184.00	
G1544-60580	VALVE, ON/OFF SPLT VENT		\$101.00	
G1544-61140	CAP, INLET HTR/SENSOR		\$82.00	
G1544-80570	CAP INL WELDMENT		\$130.00	
G1545-60500	EPC/PCOC MANIFOLD ASSY		\$1,350.00	
G1545-80507	PCOC/EPC INL WELDMENT		\$186.00	
G1545-80520	PCOC 530 SEPTUM NUT		\$52.00	
G1580-80030	VALVE BOX TOP COVER		\$33.90	
G1580-20500	VALVE BOX STANDOFF		\$14.30	
G1580-20520	VALVE BOX HTR BLOCK		\$24.40	
G1580-61140	VLV BOX HTR/SENSOR		\$77.00	
H2603-90006	HP 5890 TROUBL & MAINT		\$195.00	
H2603-90007	HP 5890 T&M VIDEO		\$95.00	
H2603-90008	HP 5890 T & M VIDEO		\$95.00	
H2603-90009	HP 5890 T & M VIDEO		\$95.00	
H2604-90006	VIDEO 1090 T&M		\$195.00	
H2604-90007	INTRO TO HP1090 LC T&M		\$95.00	

\* = Exchange Part

# = Call (800) 227-8164 for volume discount





HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP LIQUID CHROMATOGRAPH

(1050 SERIES)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Autosampler [79855A/B]</b>				
1500-0697	Belt	Belt - Part of Metering Drive Assembly	\$13.00	
1500-0698	Belt	Belt - Part of Sampling Unit	\$18.00	
01078-61601	Cable	Cable - Connects to Low Air Pressure Switch of Pneumatic Valve Assembly	\$17.50	
5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00	
01078-87302	Capillary	Loop Capillary (Standard-Version) - Attaches Between ZOV Fitting on Sampling Unit and Metering Drive Assembly	\$160.00	
01079-87302	Capillary	Loop Capillary (Ti-Version) - Attaches Between ZOV Fitting on Sampling Unit and Metering Drive Assembly	\$716.00	
01078-04110	Cover	Top/Side Cover of Autosampler	\$330.00	
01078-60301	Cover	Front Cover - Has Center Cut-Out so Sample Tray is Visible	\$55.00	
5061-3376	Display	Fluorescent Interface/Display Board (FIP)	\$360.00	
01078-68720	Fan	Fan Upgrade Kit - to Add a Fan to Autosamplers Without One	\$133.00	
3160-0862	Fan	Fan Assembly - Includes Cable	\$74.00	
0403-0427	Foot	Rubber Foot - Attaches to Rear of Bottom Case (2 Used)	\$1.00	
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50	
2110-0002	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 120V Operation	\$ .30	
2110-0004	Fuse	Fuse - 250mA, 250V - F12 and F14 on VMD Board	\$1.40	
01078-60003	Head Assembly	Analytical Head Assembly (Standard-Version)	\$740.00	
01079-60003	Head Assembly	Analytical Head Assembly (Ti-Version)	\$1,170.00	
01078-60201	Keyboard	Front Panel Keyboard Module - Includes Cable - Does NOT Include Display	\$235.00	
5041-1203	Keycap	Keycap (White) - for the Power Switch Extender Shaft	\$1.00	
01078-60002	Metering Drive	Metering Drive Assy - is Responsible for Drawing the Sample into the Sample Loop - Attaches to Analytical Head Assembly	\$800.00	
01078-64702	Motor	Tray Motor Assembly - Part of Sampling Unit	\$130.00	
01078-64703	Motor	Spindle Motor Assembly - Part of Sampling Unit	\$530.00	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
* 01050-69580	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	\$530.00
* 01050-69582	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00	\$217.00
01078-66501	PC Board	Valve Metering Drive Board (VMD) - Controls Metering Drive and High Pressure Switching Valve	\$488.00	
01078-66502	PC Board	Needle Minitray Drive Board (NMD) - Main Function is to Control Needle Motor and Tray Motor	\$558.00	
01078-66504	PC Board	Autosampler Motherboard (ALM) - Connects Various Boards and Assemblies of the Autosampler	\$392.00	
01078-66506	PC Board	Firmware Board (FIN) - Connects to Valve Metering Bd (VMD)	\$210.00	
01078-66513	PC Board	Max Tray Drive (MTD) Board - Controls 18596M Optional Sample Tray if it is Being Used	\$820.00	
* 01076-69501	PC Board	Valve Metering Drive Board (VMD) - Controls Metering Drive and High Pressure Switching Valve	\$488.00	\$265.00
* 01078-69502	PC Board	Needle Minitray Drive Board (NMD) - Main Function is to	\$558.00	\$287.00
Page: 1				
* 01078-69513	PC Board	Control Needle Motor and Tray Motor Max Tray Drive (MTD) Board - Controls 18596M Optional Sample Tray if it is Being Used	\$820.00	\$370.00
5061-3380	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	
5061-3382	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00	
* 01050-69374	Power Supply	Base Power Supply (DPS-B)	\$636.00	\$380.00
5061-3374	Power Supply	Base Power Supply (DPS-B)	\$636.00	
01078-60001	Sampling Unit	Complete Sampling Unit (Standard-Version)	\$2,650.00	
01079-60001	Sampling Unit	Complete Sampling Unit (Ti-Version)	\$2,860.00	
5041-2142	Sensor	Sensor - Determines Home Position of Piston in Metering Drive Assembly	\$39.00	
5061-3356	Sensor	Sensor - Detects Liquid Leaks in the System	\$63.60	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	
3107-0019	Switch	Low Air Pressure Switch - Part of Pneumatic Valve Assembly - Cable NOT Included	\$42.00	
01078-44501	Tray	Sample Tray - 21 Vial	\$68.00	
01078-44511	Tray	Sample Tray - 34 Vial	\$58.00	
18596M	Tray	Optional Autosampler Tray - Increases Capacity by 100	\$2,900.00	
01078-60004	Valve	High Pressure Switching (HPS) Valve (Standard-Version)	\$2,330.00	
01078-66101	Valve	Pneumatic Valve Assembly - Includes Solenoid Valve, Low Air Pressure Switch, and 'Push In', 'Elbow' Fittings	\$420.00	
* 01078-69004	Valve	High Pressure Switching (HPS) Valve (Standard-Version)	\$2,330.00	\$795.00
01079-69004	Valve	High Pressure Switching (HPS) Valve (Ti-Version)	\$875.00	

DA Detector (G1306A)

5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00	
5062-2410	Cable	Cable - from Optical Unit to Motherboard (LUM) - Two Used	\$30.00	
5001-3724	Cover	Top/Side Cover of Module	\$212.00	
5061-3776	Display	Fluorescent Interface/Display Board (FIP)	\$360.00	
79883-60051	Flow Cell	Standard Flow Cell 6mm (SST-Version) - Part of Optical Unit	\$796.00	
79883-60052	Flow Cell	Standard Flow Cell 10mm (SST-Version) - Part of Optical Unit	\$796.00	
79883-60054	Flow Cell	Standard High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$1,894.00	
79883-60055	Flow Cell	Micro High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$1,894.00	
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$ .30	
2110-0004	Fuse	Fuse - 250mA, 250V - F11 and F12 on AQB Board	\$1.40	
01048-67305	Heat Exchanger	Heat Exchanger Unit - Used in Series I & II Optical Units	\$556.50	
01048-60202	Keyboard	Front Panel Keyboard Module - Includes Cable - Does NOT Include Display	\$240.00	
5041-1203	Keycap	Keycap (White) - for the Power Switch Extender Shaft	\$1.00	
79883-60002	Lamp	Deuterium Lamp Assembly - Part of Optical Unit	\$494.00	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
* 01048-69024	Optical Unit	Optical Unit (Series II) - Exchange Assembly		\$1,010.00
01048-66501	PC Board	Array Signal Conversion (ASC) Board	\$742.00	
01048-66502	PC Board	Digital to Analog Conversion (DAC) Board	\$820.00	
01048-66510	PC Board	Detector Motherboard (LUM) - Connects Various Boards and Assemblies of the Detector	\$360.00	
01048-66543	PC Board	Data Acquisition (AOB) Board	\$424.00	
* 01048-69501	PC Board	Array Signal Conversion (ASC) Board	\$742.00	\$477.00
* 01048-69502	PC Board	Digital to Analog Conversion (DAC) Board	\$820.00	\$520.00
* 01048-69543	PC Board	Data Acquisition (AOB) Board	\$424.00	\$308.00
Page: 2				
* 01050-69580	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	\$530.00
* 01050-69592	PC Board	Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections	\$489.00	\$318.00
5061-3380	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	
5062-2402	PC Board	Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections	\$489.00	
79883-66509	PC Board	Leak/Shutter Interface (LPC) Board - Part of Series II Optical Units	\$98.00	
61306-66524	PC Board	Firmware (FIM) Board - Attaches to Data Acquisition (AOB) Bd	\$1,590.00	
* 61306-69524	PC Board	Firmware (FIM) Board - Attaches to Data Acquisition (AOB) Bd	\$1,590.00	\$270.00
01048-60301	Panel	Front Panel of MW & DA Detectors - Includes Filter & Filter Rings Which are NOT Available Separately	\$122.00	
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79835-61620	Sensor	Leak Sensor Assembly - Used in Series I & II Optical Units	\$58.30	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	
79883-61901	Shutter	Shutter Assembly - for Series II Optical Units	\$276.00	

Interconnecting Cables

01040-60101	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to HP 3390/2/3A Integrators	\$170.00	
01046-60105	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to General Purpose (Spade Lug) Connector	\$68.90	
01046-60200	Cable	Remote Control Cable - Connects HP 1050 Module to HP 1081 Liquid Chromatographs	\$148.00	
01046-60201	Cable	Remote Control Cable - Connects HP 1050 Module to HP 1084 Liquid Chromatographs/General Purpose (Spade Lug) Connectors	\$127.00	
01046-60202	Cable	Remote Control Cable - Connects HP 1050 Module to HP 1040 Diode Array Detector or HP 1090 Liquid Chromatographs	\$143.00	
01046-60203	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3390A Integrator	\$185.50	
01046-60206	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3392/3A Integrators	\$190.00	
01046-60210	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3394A Integrator	\$240.00	
03394-60600	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3396A/B Integrators	\$87.50	
03396-60560	Cable	BCD Cable - Connects HP 1050 Autosampler Module to HP 3396A Integrator	\$74.20	
18594-60510	Cable	BCD Cable - Connects HP 1050 Autosampler Module to HP 3392A or 3393A Integrators	\$122.00	
18594-60520	Cable	BCD Cable - Connects HP 1050 Autosampler Module to General Purpose Connector (Spade Lugs)	\$69.00	
35900-60750	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to HP 3394/6A Integrators	\$61.00	
5061-3378	Cable	Remote Control Cable - Connects HP 1050 Modules Together or to HP 1046A Programmable Fluorescence Detector	\$50.00	
6120-1840	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to HP 1084 Liquid Chromatographs	\$29.00	
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	

8120-1378 Power Cord Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America \$10.00

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8120-1689 Power Cord Korea/Taiwan//Thailand - 7.5ft, Straight \$22.00  
 8120-2104 Power Cord Power Cord (Gray) - for 220V in Europe - 2.0m, Straight \$13.50  
 8120-2956 Power Cord Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight \$16.50  
 8120-4211 Power Cord Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight \$19.50  
 Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight

MW Detector (79854A)

5061-3400 Cable Cable - Connects to Fluorescent Interface/Display Board \$38.00  
 5062-2410 Cable Cable - from Optical Unit to Motherboard (LUM) - Two Used \$30.00  
 5001-3724 Cover Top/Side Cover of Module \$212.00  
 5061-3376 Display Fluorescent Interface/Display Board (FIP) \$360.00  
 3160-0547 Fan 24VDC Tubaxial Fan (2 Used in MW Detector) - Includes Cable \$66.00  
 01048-60013 Flow Cell Flow Cell Assembly - Used in Series I & II Optical Units \$931.00  
 0403-0427 Foot Rubber Foot - Attaches to Rear of Bottom Case (2 Used) \$1.00  
 5041-2161 Foot Foot - on Bottom of Left and Right Front Corners \$12.50  
 2110-0002 Fuse Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation \$.85  
 2110-0003 Fuse Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation \$.30  
 2110-0004 Fuse Fuse - 250mA, 250V - F11 and F12 on AOB Board \$1.40  
 01048-87305 Heat Exchanger Heat Exchanger Unit - Used in Series I & II Optical Units \$556.50  
 01048-60201 Keyboard Front Panel Keyboard Module - Includes Cable - does NOT Include Display \$265.00  
 5041-1203 Keycap Keycap (White) - for the Power Switch Extender Shaft \$1.00  
 79880-60002 Lamp Deuterium Lamp Assembly - Part of Series II Optical Units = \$463.00  
 79883-60002 Lamp Deuterium Lamp Assembly - Part of Series I Optical Units = \$494.00  
 5041-2170 Nameplate Nameplate - HP 1050 Logo \$12.50  
 \* 01048-69011 Optical Unit Optical Unit (Series I) - Exchange Assembly - for Units with Serial Number Prefix < 3016G \$1,007.00  
 \* 01048-69024 Optical Unit Optical Unit (Series II) - Exchange Assembly - for Units with Serial Number Prefix >= 3016G \$1,010.00  
 01048-66501 PC Board Array Signal Conversion (ASC) Board \$742.00  
 01048-66502 PC Board Digital to Analog Conversion (DAC) Board \$820.00  
 01048-66504 PC Board Firmware (FIM) Board - Attaches to Data Acquisition (AOB) Bd \$287.00  
 01048-66509 PC Board Leak/Shutter Interface (LUC) Board - Part of Series I \$170.00  
 01048-66510 PC Board Optical Unit Detector Motherboard (LUM) - Connects Various Boards and Assemblies of the Detector \$360.00  
 01048-66543 PC Board Data Acquisition (AOB) Board \$424.00  
 \* 01048-69501 PC Board Array Signal Conversion (ASC) Board \$742.00 \$477.00  
 \* 01048-69502 PC Board Digital to Analog Conversion (DAC) Board \$820.00 \$520.00  
 \* 01048-69543 PC Board Data Acquisition (AOB) Board \$424.00 \$308.00  
 \* 01050-69580 PC Board Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules \$1,030.00 \$530.00  
 \* 01050-69592 PC Board Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections \$489.00 \$318.00  
 5061-3380 PC Board Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules \$1,030.00  
 5062-2402 PC Board Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections \$489.00  
 79883-66509 PC Board Leak/Shutter Interface (LPC) Board - Part of Series II \$98.00  
 01048-60301 Panel Optical Units Front Panel of MW & DA Detectors - Includes Filter & Filter Rings Which are NOT Available Separately \$122.00  
 \* 01050-69375 Power Supply Lamp Power Supply (DPS-A) \$1,330.00 \$610.00  
 5061-3375 Power Supply Lamp Power Supply (DPS-A) \$1,330.00  
 79835-61620 Sensor Leak Sensor Assembly - Used in Series I & II Optical Units \$58.30  
 5041-2162 Shaft Power Switch Extender Shaft - Keycap NOT Included \$14.00

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01048-61901 Shutter Shutter Assembly - for Series I Optical Units \$340.00  
 79883-61901 Shutter Shutter Assembly - for Series II Optical Units \$276.00  
 79858A Upgrade Kit Upgrade Kit - Includes Hardware and Firmware to Upgrade 79854A MW Detector to G1306A DA Detector Capabilities \$2,265.00

Other Accessories

01050-90102 Manual HP 1050 Service Handbook - Modules Covered Are 79851/2A & 79852B Pumping Systems, 79856A/B Solvent Cabinet, 79854A MW Detector, 79853A/C VW Detectors & the 79855A/B Autosamplers \$159.00  
 79852-90001 Manual Quick Reference Guide - for HP 1050LC Pumping Systems (79851/2A & 79852B) \$8.00  
 79852-90003 Manual Installation and User Information (French) - for HP 1050LC Pumping Systems (79851/2A & 79852B) \$95.00  
 79852-90006 Manual Installation and User Information (German) - for HP 1050LC Pumping Systems (79851/2A & 79852B) \$106.00  
 79852-90007 Manual Installation and User Information (Spanish) - for HP 1050LC Pumping Systems (79851/2A & 79852B) \$180.00  
 79852-90008 Manual Installation and User Information - for HP 1050LC Pumping Systems (79851/2A & 79852B) \$73.00  
 79853-90001 Manual Quick Reference Guide - for HP 1050LC VW Detector (79853A) \$8.00  
 79853-90003 Manual Installation and User Information (French) - for HP 1050LC VW Detector (79853A) \$102.00  
 79853-90005 Manual Installation and User Information - for HP 1050LC \$60.00

79853-90006	Manual	VH Detector (79853A) Installation and User Information (German) - for HP 1050LC	\$101.00
79853-90007	Manual	VH Detector (79853C) Installation and User Information (Spanish) - for HP 1050LC	\$255.00
79853-90009	Manual	VH Detector (79853A) Installation and User Information - for HP 1050LC	\$53.00
79854-90001	Manual	VH Detector (79853C) Quick Reference Guide - for HP 1050LC MH Detector (79854A)	\$8.00
79854-90006	Manual	Installation and User Information (German) - for HP 1050LC MH Detector (79854A)	\$87.50
79854-90007	Manual	Installation and User Information (Spanish) - for HP 1050LC MH Detector (79854A)	\$250.00
79854-90008	Manual	Installation and User Information - for HP 1050LC MH Detector (79854A)	\$91.00
79855-90001	Manual	Quick Reference Guide - for HP 1050LC Autosampler (79855A/B)	\$8.00
79855-90003	Manual	Installation and User Information (French) - for HP 1050LC Autosampler (79855A/B)	\$144.00
79855-90006	Manual	Installation and User Information (German) - for HP 1050LC Autosampler (79855A/B)	\$122.00
79855-90007	Manual	Installation and User Information (Spanish) - for HP 1050LC Autosampler (79855A/B)	\$286.00
79855-90008	Manual	Installation and User Information - for HP 1050LC Autosampler (79855A/B)	\$75.00

Pumps (79851/2A & 79852B)

01018-23207	Adapter	Short Adapter - Threads into Bottom of Pump Head Assembly - Provides Piston 2 Capillary Connection	\$82.15
01018-60007	Adapter	Frit Adapter Assy - Threads into top of Pump Head Assembly	\$128.00
5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00
5062-2416	Cable	Cable - from Connector Board to Motherboard	\$32.00
01018-67302	Capillary	Piston 2 Capillary (Standard-Version)	\$90.00
01018-67309	Capillary	Piston 1 Capillary (Standard-Version)	\$63.60

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01019-67301	Capillary	Piston 1 Capillary (Ti-Version)	\$297.00
01019-67302	Capillary	Piston 2 Capillary (Ti-Version)	\$276.00
5001-3724	Cover	Top/Side Cover of Module	\$212.00
01019-60005	Damper	High Pressure Damper (Ti-Version)	\$1,330.00
79835-60005	Damper	High Pressure Damper (Standard-Version)	\$800.00
5061-3376	Display	Fluorescent Interface/Display Board (FIP)	\$360.00
01018-60301	Door	Front Door of Pumping System	\$55.00
3160-0547	Fan	24V DC Tubeaxial Fan - Includes Cable	\$66.00
0403-0427	Foot	Rubber Foot - Attaches to Rear of Bottom Case (2 Used)	\$1.00
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50
2110-0002	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 240V Operation	\$8.85
2110-0003	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 120V Operation	\$3.30
2110-0004	Fuse	Fuse - 250mA, 250V - F12 and F22 on RAD Board	\$1.40
2110-0007	Fuse	Fuse - 1A, 250V - F15 on the Heater Quaternary Board (HRQ)	\$1.90
2110-0083	Fuse	Fuse - 2.5A, 250V - F4 on Heater Isocratic (HRI) and Heater Quaternary (HRQ) Boards	\$1.00
2110-0099	Fuse	Pico Fuse - 1A, 125V - for Fluorescent Interface/Display Bd	\$3.00
2110-0304	Fuse	Fuse - 1.5A, 250V - F401 on Pump Drive Control Board (PDC2)	\$4.80
2110-0421	Fuse	Connector Board Fuse - 375mA, 250V - Protects Active Inlet Valve Circuit (Only on Board Revisions 'B' and Greater)	\$3.00
2110-0761	Fuse	Fuse - .5A, 250V - F112 and F113 on the Pump Drive Control Board (PDC2)	\$1.30
01018-60201	Keyboard	Front Panel Keyboard Module - Includes Cable - Does NOT Include Display	\$195.00
5041-1203	Keypad	Keypad (White) - for the Power Switch Extender Shaft	\$1.00
01018-60001	Metering Drive	Metering Drive Assembly - Attaches to Pump Head Assembly	\$2,490.00
* 01018-69100	Metering Drive	Metering Drive Assembly - Attaches to Pump Head Assembly	\$2,490.00
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50
01018-66501	PC Board	Pump Motherboard (HPS) - Connects Various Boards of the Pump	\$445.00
01018-66503	PC Board	Relative A/D Converter Board (RAD)	\$400.00
01018-66505	PC Board	Connector Board - has connectors for the MCGV, Active Inlet Valve and the Leak Sensor	\$77.00
01018-66506	PC Board	Firmware Board (SFH) - Connects to Relative A/D Converter Bd	\$210.00
01018-66517	PC Board	Heater Isocratic (HRI) Board - Controls the Column Heater in the Solvent Conditioning Module	\$510.00
01018-66518	PC Board	Heater Quaternary (HRQ) Board - Controls the Column Heater in the Solvent Conditioning Module and the Multi Channel Gradient Valve (MCGV)	\$530.00
01018-66532	PC Board	Pump Drive Control Board (PDC2)	\$400.00
* 01018-69503	PC Board	Relative A/D Converter Board (RAD)	\$400.00
* 01018-69517	PC Board	Heater Isocratic (HRI) Board - Controls the Column Heater in the Solvent Conditioning Module	\$510.00
* 01018-69518	PC Board	Heater Quaternary (HRQ) Board - Controls the Column Heater in the Solvent Conditioning Module and the Multi Channel Gradient Valve (MCGV)	\$530.00
* 01018-69532	PC Board	Pump Drive Control Board (PDC2)	\$400.00
* 01050-69580	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00
* 01050-69582	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00
5061-3380	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00

\$795.00

\$295.00

\$445.00

\$520.00

\$280.00

\$530.00

\$217.00

5061-3382	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00	
* 01050-69374	Power Supply	Base Power Supply (DPS-B)	\$636.00	\$380.00
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3374	Power Supply	Base Power Supply (DPS-B)	\$636.00	

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5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
01018-60004	Pump Head	Pump Head Assy (Standard-Version) - Includes Active Inlet Valve, Frit Adapter Assy, Purge Valve, Short Adapter, and Outlet Ball Valve	\$2,650.00	
01019-60002	Pump Head	Pump Head Assy (Ti-Version) - Includes Active Inlet Valve, Frit Adapter Assy, Purge Valve, Short Adapter, and Outlet Ball Valve	\$3,600.00	
5061-3356	Sensor	Sensor - Detects Liquid Leaks in the System	\$63.60	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	
01018-67304	Tube	Connection Tube - from the MGV to the Active Inlet Valve	\$63.60	
01018-60008	Valve	Outlet Ball Valve - Threads into top of Pump Head Assembly - Provides Piston 1 Capillary Connection	\$271.00	
01018-60009	Valve	Purge Valve Assy - Threads into top of Pump Head Assembly	\$338.00	
01018-60010	Valve	Active Inlet Valve (Standard-Version)	\$385.00	
01019-60010	Valve	Active Inlet Valve (Ti-Version)	\$1,480.00	
01019-67701	Valve	Multi Channel Gradient Valve (MCGV) (Ti-Version)	\$1,480.00	
79835-67701	Valve	Multi-Channel Gradient Valve (MCGV) (Standard-Version)	\$1,430.00	
* 79835-69701	Valve	Multi-Channel Gradient Valve (MCGV) (Standard-Version)	\$1,430.00	\$660.00

Solvent Cabinet(79856A/B)

9301-0656	Bottle	Solvent Bottle - 1 Liter Capacity	\$35.00	
01018-60302	Door	Column Heater Door - Folds Down to Allow Access to Heater	\$29.00	
01018-60019	Enclosure	Solvent Bottle Enclosure - Includes Tub for Bottles and Front Panel	\$435.00	
01018-66901	Heater	Column Heater Assembly	\$900.00	
01018-45101	Hinge	Hinge - for Column Heater Door (2 Used)	\$7.00	
01018-44901	Holder	Waste Vial Holder	\$8.75	
01018-47412	Knob	On/Off Knob - for Valve That Controls Flow to the Four Helium Regulator Assemblies	\$8.25	
01018-47413	Knob	Knob - for 'A' Helium Regulator Assembly	\$14.50	
01018-47414	Knob	Knob - for 'B' Helium Regulator Assembly	\$7.25	
01018-47415	Knob	Knob - for 'C' Helium Regulator Assembly	\$7.25	
01018-47416	Knob	Knob - for 'D' Helium Regulator Assembly	\$8.25	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
7121-5291	Nameplate	Nameplate - HP 1050 Logo (Ti Version)	\$9.00	
01018-67001	Regulator	Helium Regulators and On/Off Valve Assembly (5 Used)	\$477.00	
0101-0607	Valve	Rheodyne Valve Assembly (Standard-Version)	\$655.00	
0101-0641	Valve	Rheodyne Valve Assembly (Ti-Version)	\$1,045.00	
9301-1168	Vial	Waste Vial	\$1.25	

VH Detector (79853A)

79853-64602	Bar	'T' Shaped Bar - Part of the Grating Assembly - Which is a Part of the Optical Unit	\$583.00	
79853-61601	Cable	Cable - Connects Detector Controller (DCB) Board to Keyboard Display Interface (KDI) Board	\$77.00	
79853-61602	Cable	Cable - Connects Keyboard Display Interface (KDI) Board to Display Module (VFD) Board	\$36.00	
79853-61603	Cable	Cable - from Power Supply Connection (PSC) Board to the Detector Controller Board (DCB)	\$122.00	
79853-61610	Cable	Cable - Connects HP-IB Communication Interface Board to Detector Controller (DCB) Board	\$48.75	
79853-64101	Cover	Top/Side Cover - of Variable Wavelength Detector Module	\$138.00	
79853-61101	Diode	Sample Diode Assembly - on Front Right Side of Optical Unit	\$413.00	
79853-61102	Diode	Reference Diode Assy - on Front Left Center of Optical Unit	\$318.00	
79853-68501	Fan	Fan Assembly - Cable Included	\$80.00	

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79853-62702	Filter	Filter Assembly (Filter & Motor) - Part of Optical Unit	\$350.00	
79853-60003	Flow Cell	High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$2,586.00	
79853-60004	Flow Cell	Micro Flow Cell (SST-Version) - Part of Optical Unit	\$1,384.00	
79853-60005	Flow Cell	Standard Flow Cell (Ti-Version) - Part of Optical Unit	\$1,800.00	
79853-60006	Flow Cell	Preparative Flow Cell (SST-Version) - Part of Optical Unit	\$1,352.00	
79853-60203	Front Panel	Complete Front Panel - Includes Leak Sensor Board, Leak Sensor Assembly, Display Module (VFD) Board, Display Interface (KDI) Board and Interconnecting Cables	\$1,380.00	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$ .30	
79853-64601	Grating	Grating - Part of Optical Unit - Stepper Motor and 'T' Bar NOT Included	\$690.00	
79853-13002	IC ROM	EPROM (Firmware) - on Detector Controller Board (DCB)	\$133.00	
79853-13004	IC ROM	ROM (Firmware) - on HP-IB Communication Interface Board	\$133.00	
79853-60002	Lamp	Deuterium Lamp Assembly - Part of Optical Unit	\$327.00	
79853-68101	Mirror	Mirror Assembly Number One - Part of Optical Unit	\$217.00	
79853-68102	Mirror	Mirror Assembly Number Two - Part of Optical Unit	\$185.50	
79853-68103	Mirror	Mirror Assembly Number Three - Part of Optical Unit	\$190.00	
79853-68104	Mirror	Mirror Assembly Number Four - Part of Optical Unit	\$275.00	
79853-67901	Motor	Stepper Motor - Drives 'T' Shaped Bar of Grating Assembly	\$445.00	

## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP CHROMATOGRAPHS

## HP LIQUID CHROMATOGRAPH

(1090A/L/H)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	*	LIST PRICE	EXCHANGE PRICE
<b>Autoinjector Parts</b>					
0101-0558	Actuator	Air Actuator Bridge Assembly - Solenoid Controlled Air for Movement of the Needle Arm (Up And Down) and Rotating the Rheodyne Valve (and if Equipped, the Column Switching Valve)		\$660.00	
79846-45001	Arm	Vial Holder/Swivel Arm - Positions Sample Vial Under Needle		\$28.60	
79846-67103	Base	Needle Arm Drive Unit Base Assembly - Pneumatically Moves Needle Arm Up and Down (Assembly Includes Air Cylinder)		\$212.00	
79846-68101	Base	Metering Base Assembly - Base Structure for the Syringe Metering Assembly		\$382.00	
79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve		\$88.00	
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary to Needle Arm Assembly		\$70.00	
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly		\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly		\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly		\$111.00	
3140-0675	Motor	Stepper Motor - Drives the Vial Holder/Swivel Arm		\$100.00	
79846-60005	Motor	Motor Assembly (Drives the Vial Holder/Swivel Arm) - Includes Motor, Bracket, Interrupter, and Sensor Board		\$223.00	
79846-67901	Motor	Drive Motor - Moves the Plunger in the Metering Syringe		\$111.00	
0100-1176	Muffler	Pneumatic Muffler - Screws on to the Air Damper Adapter		\$21.20	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting		\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting		\$70.00	
0905-0970	O-Ring	4.48mm O-Ring - Between Syringe Plunger and Waste Sleeve		\$37.00	
79846-66501	PC Board	Injector Controller Board (ICB) - Mounts to Right Side of Autoinjector Assembly		\$307.00	
79846-66502	PC Board	Syringe Position Sensor Board - Mount to Bottom of the Syringe Metering Assembly		\$66.25	
79846-66503	PC Board	Light Sensor Board - Used as the 'Vial Holder/Swivel Arm' Position Sensor and the 'Needle Arm' Position Sensor(2 Used)		\$53.00	
79846-66504	PC Board	Valve Sensor Board - Mounts to 6 Port Rheodyne Valve and Actuator Assembly		\$63.60	
79846-66505	PC Board	'Vial in Position' Sensor Board - Mounts to Needle Arm Assy		\$58.30	
9301-0675	Plunger	Replacement Plunger - for the 25ul Syringe		\$35.00	
9301-0677	Plunger	Replacement Plunger - for the 250ul Syringe		\$30.00	
79846-23702	Rod	Vial Holder/Swivel Arm Drive Rod - Attaches to Drive Motor		\$24.90	
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the 6 Port Rheodyne Valve and Actuator Assembly		\$60.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for the 6 Port Rheodyne Valve and Actuator Assembly		\$99.00	
79846-27101	Seal	Syringe Seal - Provides Seal Between 25ul Metering Syringe Tip and the Attached Capillary		\$12.00	
79846-27103	Seal	Syringe Seal - Provides Seal Between 250ul Metering Syringe Tip and the Attached Capillary		\$14.00	
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79846-67101	Seat	Tip and the Attached Capillary Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip		\$33.00	
0101-0559	Solenoid	Solenoid Valve - Controls Air Flow Out of the Air Actuator Bridge Assembly (4 Used)		\$275.00	
3107-0018	Switch	Low Pressure Sensor Switch (with 1/4 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Older Units)		\$27.50	
3107-0019	Switch	Low Pressure Sensor Switch (with 1/8 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Newer Units)		\$42.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size		\$63.00	
9301-0678	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size		\$63.00	
79846-44701	Tray	Syringe Holder Tray - Has Two V-Shaped Support Blocks (for Cradling the Metering Syringe)		\$42.40	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot		\$3.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample		\$2,390.00	
79846-67902	Valve	Flush Valve Assembly - for Flushing Out the System		\$452.00	
* 79846-69001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample		\$2,390.00	\$740.00
79846-24501	Waste Sleeve	25ul Waste Sleeve - Attaches to the Plunger End of the 25ul Metering Syringe (Drains Off Waste Fluids)		\$25.00	
79846-24502	Waste Sleeve	250ul Waste Sleeve - Attaches to the Plunger End of the 250ul Metering Syringe (Drains Off Waste Fluids)		\$25.00	
79846-27303	Waste Tube	Waste Tube - Attaches to the Waste Sleeve (at the Plunger End of the Metering Syringe)		\$21.00	

## Autosampler Parts





79847-45001	Arm	Magazine Position Slide Arm (Belt Driven) - Slides on the Two Guide Rods in the Drive Unit Assembly	\$15.90
1500-0635	Belt	Gear Belt - Drives Magazine Position Slide Arm	\$15.00
3160-0861	Fan	Fan Assembly - for Cooling the Temperature Controlled Autosampler Chamber (NOT Used on Standard Autosampler)	\$72.50
79847-42001	Heat Exchanger	Heat Exchanger Unit - Used in Cooling the Temperature Controlled Autosampler (NOT Used on Standard Autosampler)	\$424.00
79847-43710	Holder	Magazine Holder (Position 0) - Holds Magazine on Carriage	\$16.95
79847-43701	Holder	Magazine Holder (Position 1) - Holds Magazine on Carriage	\$16.95
79847-43702	Holder	Magazine Holder (Position 2) - Holds Magazine on Carriage	\$16.95
79847-43703	Holder	Magazine Holder (Position 3) - Holds Magazine on Carriage	\$16.95
79847-43704	Holder	Magazine Holder (Position 4) - Holds Magazine on Carriage	\$16.95
79847-43705	Holder	Magazine Holder (Position 5) - Holds Magazine on Carriage	\$16.95
79847-43706	Holder	Magazine Holder (Position 6) - Holds Magazine on Carriage	\$16.95
79847-43707	Holder	Magazine Holder (Position 7) - Holds Magazine on Carriage	\$16.95
79847-43708	Holder	Magazine Holder (Position 8) - Holds Magazine on Carriage	\$16.95
79847-43709	Holder	Magazine Holder (Position 9) - Holds Magazine on Carriage (NOT Used on Temperature Controlled Autosamplers)	\$32.00
79847-60005	Magazine	Vial Magazine Assembly - Holds Ten Sample Vials (Standard Uses 10, Temperature Controlled Autosampler Uses 9)	\$14.00
79847-67901	Motor	Carriage Drive Motor Assembly (Made by Berger-Lahr) - Mounts on End of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Drive Board - Part Number 01090-66531)	\$122.00
79847-67902	Motor	Magazine Drive Motor Assembly (Made by Berger-Lahr) - Mounts on Bottom of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Drive Board - Part Number 01090-66531)	\$122.00
01090-66554	PC Board	Injector-Sampler Drive Board (ISD) (New Style Board - with +/- 12V Motor Supplies) - Works with Old AND New Type Motors	\$195.00
79847-66501	PC Board	Sampler Controller Bd (SCO) - Mounts to Bottom of Drive Assy	\$212.00

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79847-66502	PC Board	'Carriage Home Position' Sensor Board (Standard) - Mounts Next to Carriage Drive Motor	\$74.25
79847-66510	PC Board	'Carriage Home Position' Sensor Board (Plastic Coated) - for Use in Temperature Controlled Autosamplers - Mounts Next to Carriage Drive Motor	\$127.00
79847-66503	PC Board	'Magazine in Position' Sensor Board (Standard) - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$63.60
79847-66511	PC Board	'Magazine in Position' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$93.00
79847-66504	PC Board	'Vial Count (Position)' Sensor Board (Standard) - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$71.50
79847-66512	PC Board	'Vial Count (Position)' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$106.00

## Column Compartment Parts

01090-87304	Adapter	0.17mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$74.00
01090-87305	Adapter	0.17mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$79.00
01090-87610	Adapter	0.12mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-87611	Adapter	0.12mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-21202	Clamp	Clamp - Holds Zero Dead Volume Fitting on Rear Screen Wall of Column Compartment	\$20.00
01090-60304	Door	Oven Door Assembly (NOT Original Color) - Pull Down Door on Front of Column Compartment - Does NOT Include Hinges	\$196.00
3160-0402	Fan	120V/240V AC Fan Assembly (Squirrel Cage Style) - Mounts to Rear Wall of Column Compartment	\$116.00
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary from the Heater Assembly to the Column Adapter	\$70.00
01090-61105	Heater	Heater Assembly (with Connecting Capillaries) - Heats Incoming Sample/Solvent Mixture Going to the Column	\$795.00
3110-0162	Hinge	Hinge Assembly - for Column Compartment Front Door (2 Used)	\$24.00
01090-42302	Holder	Column Holder Rack (5 Position) - Mounts to Internal Screen Wall (3 Used)	\$23.85
01090-66508	PC Board	Oven Interface Board (OVI) - Interfaces Oven Electronics to Controller Mother Bd - Mounts to Side of Column Compartment	\$190.00
01090-61604	Sensor	Temperature Sensor - for Sensing Oven Temperature	\$240.00

## FPO Detector Assembly

79881-60006	Diode	Sample Diode Assy - Mounts to End of Optical Unit Housing - Receives Light from Beam Splitter (Provides Signal from Light Source after Passing Through the Flow Cell)	\$558.00
79881-60007	Diode	Reference Diode Assembly - Mounts to Side of Optical Unit Housing - Receives Light from Beam Splitter (Provides Reference Signal from Light Source Directly)	\$610.00
01090-07101	Filter	Air Filter - Behind Board Slots on the Filter Photometric Detector Card Cage	\$12.00
79881-62761	Filter	210nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62762	Filter	230nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62763	Filter	254nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00

79881-62769	Filter	269nm Light Filter - Mounts in the Filter Wheel Assembly	\$360.00	
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79881-62764	Filter	280nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62765	Filter	340nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62766	Filter	430nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62767	Filter	540nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62760	Filter Kit	Light Filter Kit - Includes 210nm, 230nm, 280nm, 340nm, 430nm, and 540nm Light Filters	\$2,127.00	
79881-60002	Flow Cell	Flow Cell Assembly - Mounts in Cavity of Optical Unit Housing (Next to Sample and Reference Diodes)	\$1,640.00	
2110-0001	Fuse	Fuse - 1A, 250V - F33 on Deterium Lamp Power Supply Board - Fuses the High Voltage Source to the Deterium Lamp Assembly	\$ .30	
2110-0342	Fuse	Fuse - 8A, 250V - F31 on Deterium Lamp Power Supply Board - Fuses 4V AC Filament Supply to the Deterium Lamp Assembly	\$3.00	
79881-27101	Gasket	0.6mm ID Cell Gasket - Between Rear Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-27102	Gasket	1.2mm ID Cell Gasket - Between Front Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-22403	Hardware	Flow Cell Screw - Retains the Flow Cell Windows in the Flow Cell Housing (2 Used)	\$24.00	
79881-25204	Housing	Flow Cell Housing - Round Base Structure of the Flow Cell Assembly (NO Other Hardware Included)	\$740.00	
79880-60002	Lamp	Deuterium Lamp Assembly - Mounts in Cavity at End of Optical Unit Housing	\$463.00	
79881-02401	Motor	Drive Motor - for Filter Wheel Assembly	\$186.00	
79881-60004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	
* 79881-69004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	\$1,800.00
79881-66501	PC Board	Filter Detector Motherboard (FMB)	\$276.00	
79881-66502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	
79881-66503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	
* 79881-69502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	\$660.00
* 79881-69503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	\$390.00
79883-66501	PC Board	Deterium Lamp Power Supply Board (DPS)	\$370.00	
79881-09103	Spring	Window Spring - Between the Screw and Window on the Flow Cell Housing (2 Used)	\$8.00	
79881-62501	Wheel	Filter Wheel Assembly - Holds Up to 7 Filters (NOT Included)	\$111.00	
79881-28101	Window	Flow Cell Window - Goes in Each Side of the Flow Cell Housing (2 Used) (3/Pkg)	\$30.00	

High Pressure Pump Parts

79835-67101	Ball Valve	Ball Valve Cartridge (for pH 2.3 to 9.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$129.00	
79835-67102	Ball Valve	Ball Valve Cartridge pH (for pH 2.3 to 12.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$180.00	
1500-0668	Belt	Drive Belt (0.5in Wide) - from Motor to High Pressure Pump Plunger Drive Shaft	\$15.20	
79835-04123	Diaphragm	Diaphragm - in High Pressure Pump Head (Above Ball Valves)	\$40.00	
79835-43613	Gear	Small Belt Gear (50Hz or 60Hz Operation) - Mounts to Motor Shaft on the High Pressure Pump Assembly	\$7.15	
79835-43615	Gear	Large Belt Gear (50Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$30.75	
79835-43616	Gear	Large Belt Gear (60Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$31.80	
3140-0692	Motor	High Pressure Pump Motor - for 240V, 50Hz Operation	\$154.00	
3140-0683	Motor	High Pressure Pump Motor - for 120V, 60Hz Operation	\$185.50	
0905-0998	O-Ring	27.3mm O-Ring - for the Oil Reservoir Top Cover	\$2.10	

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79835-60011	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	
79835-60012	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	
* 79835-69004	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	\$980.00
* 79835-69009	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	\$980.00
79835-65213	Sieve	Sieve Assembly (for pH 2.3 to 9.5) - Goes in the Inlet Valve on the High Pressure Pump	\$23.00	
79835-65216	Sieve	Sieve Assembly pH (for pH 2.3 to 12.5) - Goes in the Inlet Valve on the High Pressure Pump	\$29.00	
79835-61111	Valve	Override Valve (440 bar) - Attaches to the Right Side of the Pump Head on the High Pressure Pump (Standard)	\$196.00	
79835-61112	Valve	Override Valve (350 bar) - Attaches to the Right Side of the Pump Head on the High Pressure Pump (Causes Reduced Pumping Pressure But Results in Longer Diaphragm Life)	\$233.00	

Interconnecting Cables

01040-60201	Cable	Remote Cable - General Purpose (Spade Lugs) - 2m	\$154.00	
01040-60202	Cable	Remote Cable - from 1090 LC to Distribution Module - 2m	\$175.00	
01040-60203	Cable	Remote Start Cable - from 1090 LC to 3390A Integrator - 2m	\$159.00	
01040-60204	Cable	Remote Start Cable - from 1090 LC to 18562A/D Converter - 2m	\$228.00	
01040-60205	Cable	Remote Start Cable - from 1090 LC to 3388A Integrator - 2m	\$154.00	
01090-60206	Cable	Remote Start/Stop Cable - 1090 LC to 3392/3A Integrator - 2m	\$143.00	
01090-60310	Cable	BCD Cable - from 1090 LC to 3392A/93A Integrator - 2m	\$207.00	
01090-60312	Cable	General Purpose BCD Cable - from 1090 LC to Spade Lugs - 2m	\$164.00	

03394-80550	Cable	Remote Cable - from 1090 LC to 3394A/96A Integrator	\$106.00
03396-60580	Cable	BCD Cable - from 1090 LC to 3396A Integrator	\$140.00
35900-60710	Cable	Remote Cable - from 1090 LC to 35900C ChemStation Interface	\$87.50
10833A	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 1.0m	\$90.00
10833B	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 2.0m	\$100.00
10833C	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 4.0m	\$110.00
10833D	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 0.5m	\$90.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

LC Mainframe Case Parts

01090-68706	Cabinet	Solvent Cabinet Assembly - for Holding Solvent Bottles	\$201.00
1390-0421	Catch	Magnetic Catch - for Keyboard Door Panel (Mounts on Side of Solvent Cabinet)	\$17.50
01090-47702	Cover	Upper Right Side Cover(w/ Frame) - on DAD Side of Main Cover	\$133.00
01090-64101	Cover	Lift-Up Cover - for the Diode Array Detector (DAD) Assembly	\$207.00
01090-64112	Cover	Lift-Up Cover (with Viewing Window) - for the Automatic Liquid Sampler (ALS) - Note: Replacement Cover Has New Style Color Scheme (Original Color Cover is No Longer Available)	\$392.00
01090-64113	Cover	Main Cover Assembly - Includes Top, Upper Side, and Both (ALS & DAD) Lift-Up Covers - Note: Replacement Cover Has New Style Colors (Original Color Cover is No Longer Available)	\$1,330.00
5041-2106	Cover	Lower Right Side Cover (with Frame) - on Keyboard/ Electronics Side of Instrument	\$155.00
5041-2107	Cover	Lower Left Side Cover (with Frame) - on Solvent Compartment Side of Instrument	\$115.00
5041-2109	Cover	Upper Left Side Cover (w/ Frame) - on ALS Side of Main Cover	\$143.00
01090-40304	Door	Keyboard Door Panel - Used on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$122.00
01090-68715	Door	Keyboard Door Panel - Used on LC's That Have a System Keyboard (No Display) - New Part is NOT the Original Color	\$180.00

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01090-02701	Filter	Air Filter - on Back of Keyboard Door Panel - on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$8.75
3150-0462	Filter	Foam Air Filter (590mm x 85mm) - Air Inlet Filter (on Bottom of Mainframe)	\$15.00
3150-0463	Filter	Foam Air Filter - Two (Side by Side) on Back of Main Cover and Two on Back of the Keyboard Door Panel (on LC's That Have a System Keyboard (No Display) ONLY) (4 Used)	\$15.00
0380-0644	Hardware	Hex Standoff - for the HP-IB Connector (2 Used)	\$4.30
01090-04135	Trim	Trim Strip - on Top of Lower Left Side Cover	\$71.55
01090-04144	Trim	Trim Strip - on Top of Lower Right Side Cover (New Color)	\$46.65
01090-04133	Window	Viewing Window - Mounts in Cover Assembly for the Automatic Liquid Sampler (ALS)	\$26.00

LC Mainframe Electronics

1420-0361	Battery	3.67V Lithium Battery - for RAM Back-Up on Display Keyboard Driver Board	\$55.00
01090-68520	Fan	24V DC Fan Assembly (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of >= 3044A	\$228.00
3160-0421	Fan	120V AC Tubeaxial Fan (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of < 3044A	\$75.00
01090-66552	Keyboard	System Keyboard Assembly (SYK) (NO Display) - Mounts to Keyboard Door Panel - Used on LC's That Have an HP-IB Interface Board (IBU) and Requires an External Controller	\$318.00
01090-66553	Keyboard	Local User Interface Keyboard Assembly (DDK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00
* 01090-69553	Keyboard	Local User Interface Keyboard Assembly (DDK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00 \$530.00
9135-0038	Line Filter	220V Line Filter/Power Receptacle Assembly - on Rear Panel	\$30.00
9135-0202	Line Filter	120V Line Filter/Power Receptacle Assembly - on Rear Panel	\$32.00
01090-66507	PC Board	Display Keyboard Interface Board (DKI) (Has 8 Status LED's - on Keyboard Door Panel) Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$330.00
01090-66509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00
01090-66510	PC Board	Piggy-Back HP-IL Inet Interface Board - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$466.00
01090-66511	PC Board	HP-IL Connector Board (CIL) (for LC's that Have an HP-IL Interface) - Mounts to Rear Panel	\$154.00
01090-66526	PC Board	External Contacts Interface Board - Mounts to Rear Panel	\$190.00
01090-66529	PC Board	Piggy-Back HP-IB Interface Board (LIB) - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$520.00
01090-66535	PC Board	HP-IB Interface Board (IBU) - Used in Versions of LC's That Require an External Controller (Has a System Keyboard Rather than a Local User Interface Keyboard)	\$307.00
01090-66557	PC Board	Control Mother Board (CTM) - Interconnects Mainframe	\$212.00

01090-66565	PC Board	Controller to Other Boards	
* 01090-69509	PC Board	Piggy-Back Memory Board (MEM) - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$170.00
		Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00
			\$360.00
5061-3352	PC Board	HP-IB Connector Board (Includes Cable) - Mounts to Rear Panel - Works with Either Type of HP-IB Interface Board	\$43.45
01090-66542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00
* 01090-69542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00
01090-68708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00
* 01090-69708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00
01090-66573	PC Board	Memory Board - Mounts to Mainframe Controller Board	\$127.00

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Manual Injector Parts

1535-4854	Fitting	Needle Port Fitting (Teflon) - Provides Seal Around Needle in the Loop Filler Port (Rheodyne Model 7012)	\$50.00
1535-4860	Loop	5ul Sample Loop - for the Model 7125 Rheodyne Valve	\$73.00
0101-0376	Loop	10ul Sample Loop - for the Model 7125 Rheodyne Valve	\$50.00
0101-0377	Loop	20ul Sample Loop - for the Model 7125 Rheodyne Valve	\$45.00
0101-0378	Loop	50ul Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00
0101-0379	Loop	100ul Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00
1535-4862	Loop	Micro Volume Loop Disk (Includes 0.5ul, 1.0ul, and 5ul Sample Loops) - for the Model 7143 Rheodyne Valve	
9301-0676	Needle	Blunt Tip Needle - for Use with the 250ul Syringe and the Model 7125 Rheodyne Valve	\$15.00
9301-0679	Needle	Blunt Tip Needle - for Use with the 25ul Syringe and the Model 7143 Rheodyne Valve	\$17.00
0100-1214	Port	Loop Filler Port (Rheodyne Model 7012) - Used to Manually Inject a Sample Directly with a Conventional Syringe	\$126.00
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the Model 7125 Rheodyne Valve	\$60.00
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for Model 7125 Rheodyne Valve	\$99.00
1535-4861	Seal	Rotor Seal - for the Model 7143 Rheodyne Valve	\$95.00
1535-4856	Seal	Isolation Seal - for the Model 7143 Rheodyne Valve	\$58.30
9301-0633	Syringe	25ul Hamilton Syringe - for Drawing Up to a 25ul Sample Size - for Use with the Model 7143 Rheodyne Valve	\$63.00
9301-0678	Syringe	250ul Hamilton Syringe - for Drawing Up to a 250ul Sample Size - for Use with the Model 7125 Rheodyne Valve	\$63.00
0101-0607	Valve	6 Port Rheodyne Valve Assembly (Model 7125) - for Manual Injection	\$655.00

Manuals, Tools & Supplies

01090-67610	Cable	Extender Cable - for Working on the Autosampler Outside of the 1090 Mainframe	\$66.00
5180-0842	Cap	Crimp Cap - for the 300ul Microvial (500/Pkg)	\$135.00
79841-65501	Lubricant	Lubricant - for High Pressure Pump Belt	\$22.00
01090-90024	Manual	1090L and II/L Liquid Chromatograph Operator's Manual	\$58.00
01090-90100	Manual	1090 Series L, M, II/L, and II/M Liquid Chromatograph Service Handbook	\$115.00
01090-90211	Manual	1090L, M, II/L, and II/M Liquid Chromatograph Getting Ready Guide	\$15.00
79994-90025	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Standard Software)	\$18.00
79994-90026	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Std Software)	\$18.00
79994-90027	Manual	1040M/1090M DAD/LC 'Fact File' Handbook (Standard Software)	\$45.00
79994-90028	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Standard Software)	\$15.00

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79994-90029	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Std Software)	\$24.00
79994-90031	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Foreground/Background Software)	\$18.00
79994-90032	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Foreground/Background Software)	\$13.00
79994-90033	Manual	1040M/1909M DAD/LC 'Fact File' Handbook (Foreground/Background Software)	\$45.00
79994-90034	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Foreground/Background Software)	\$13.00
79994-90035	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Foreground/Background Software)	\$24.00
01010-80002	Oil	Hydraulic Fluid - for the High Pressure Pump (100ml)	\$18.00
01090-66540	PC Board	Extender Board - for Power Supply Control Board (PCS) and Power Supply Board (PWS) - for Access to Test Points	\$196.00
6010-0694	Paint	Cocoa Brown Paint (6.5oz Aerosol Can) - Touch-Up for Older Instruments (Series I)	\$25.00
6010-0695	Paint	Pearl Gray Paint (6.5oz Aerosol Can) - Touch-Up for Older Instruments (Series I)	\$20.00
5180-0843	Sleeve	Adapter Sleeve - for Adapting 300ul Microvials to Fit in the Autosampler Magazine	\$14.00

8710-1150	Tool	Torque Wrench (3.5 to 17 Newton-Meter) - for Installing the Pump Head on the High Pressure Pump	\$378.00	
8710-1643	Tool	Crimping Tool - for 8mm Crimp Tops (on 300ul Microvials)	\$204.00	
5061-3349	Tray	Microvial Accessory Tray - Holds 50 300ul Vials	\$40.00	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00	
5180-0841	Vial	300ul Microvial (Requires Sleeves to Fit in the Autosampler Magazine) (500/Pkg)	\$130.00	
5181-3400	Vial	2ul Crimp Top Vial (Clear) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$111.00	
5181-8801	Vial	2ul Crimp Top Vial (Amber) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$136.00	
5182-0538	Vial	2ml Crimp Top Vial (Clear) - Will NOT Accept Insert(100/Pkg)	\$16.00	
5182-0539	Vial	2ml Crimp Top Vial (Amber) - Will NOT Accept Insert(100/Pkg)	\$18.00	
H2604-90006	Video Tape	1090 Series Liquid Chromatograph Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00	
H2604-90007	Video Tape	1090 Series Liquid Chromatograph Troubleshooting and Maintenance Video - PAL Format (VHS)	\$95.00	

Metering Pump Parts

79835-44103	Cover	Protective Cover (Clear Plastic) - Covers Lower Part of Metering Pump and Valves	\$14.80	
79835-43101	Guide	Piston Guide - for the Sapphire Plungers in the Metering Pump (on Bottom of each Solvent Chamber) (2 Used/Pump)	\$25.45	
3980-0672	Plunger	Sapphire Plunger (or Piston) - in Solvent Chambers of the Metering Pump (2 Used/Pump)	\$91.00	
79835-68020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00	
* 79835-69020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00	\$930.00
5062-2494	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Standard Solvents (4/Pkg)	\$115.00	
0905-1194	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Buffered Solvents	\$63.00	
1460-1998	Spring	Compression Spring - Around Plungers (Pistons) on the Metering Pump (Below the Solvent Chambers)(2 Used/Pump)	\$4.00	
79835-68021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00	
* 79835-69021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00	\$580.00

Power Supplies and Parts

2110-0030	Fuse	Fuse - 5A, 250V - for +36V Supply on the Power Supply Control Board	\$2.00	
2110-0303	Fuse	Fuse - 2A, 250V - for -24V Supply on the Power Supply Board, and +17V and -17V Supplies on the Power Supply Control Board	\$1.05	
2110-0342	Fuse	Fuse - 8A, 250V - for +24V Supply on the Power Supply Board	\$3.00	
2110-0055	Fuse	Line Fuse - 4A, 250V - for 220V Operation	\$1.10	
2110-0342	Fuse	Line Fuse - 8A, 250V - for 120V Operation	\$3.00	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$ .95	
2110-0566	Fuseholder	Fuseholder Body - Cap NOT Included	\$2.40	
01090-66522	PC Board	Power Supply Board	\$530.00	
01090-66523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00	
01090-66524	PC Board	Power Supply Mother Board - Interconnects the Power Supply Boards to the Power Supply Control Board	\$330.00	
01090-66525	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 120V AC Main Fan ONLY (Serial Number Prefix < 3044A)	\$275.00	
01090-66555	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 24V DC Main Fan ONLY (Serial Number Prefix >= 3044A)	\$111.00	
* 01090-69522	PC Board	Power Supply Board	\$530.00	\$390.00
* 01090-69523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00	\$340.00
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$18.00	
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
8120-2957	Power Cord	Power Cord (Gray) - 220V Operation in Denmark - 2m, 90 Deg	\$30.00	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
3101-0402	Switch	Power Switch - Mounts on Rear Panel	\$8.00	
01090-61103	Transformer	Power Transformer Assy - for 100/120V and 220/240V Operation	\$435.00	

SOS Electronics

79835-66515	PC Board	Metering Pump Limit Board (MPL) - Senses Upper End Position of Both Pistons on the Metering Pump System	\$76.85	
79835-66516	PC Board	Rotary Valve Sensor Board (RVS) (Almost Round PC Board) - Checks Position of Rotary Valve Unit	\$100.75	
79835-66517	PC Board	Pump Stroke Sensor Board (PSS) - Produces a Pulse for Each Revolution of the High Pressure Pump Motor	\$71.50	
79835-66522	PC Board	Solvent Delivery Mother Board (SDM) (New Style - Has 3 Board Slots and Attached Interconnecting Cables) - for Serial	\$557.00	

## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP DETECTORS

HP MASS SELECTIVE DETECTOR

(5971A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	#	LIST PRICE	EXCHANGE PRICE
<b>Effluent Splitter Parts</b>					
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a 320um Column in Straight Part of Tee Connector (10/Pkg)		\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing Restrictor Tube in Straight Part of Tee Connector (10/Pkg)		\$55.00	
5062-3538	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a Mega-Bore Column in Straight Part of Tee Connector (10/Pkg)		\$43.00	
59913A 05988-20066	Jet Separator Nut	Glass Jet Separator - Use with Packed or Megabore Columns SGE Nut - for Securing (Mega-Bore or Wide-Bore) Column or Restrictor Tube in Ends of Straight Part of 'Tee' Connector		\$12.00	
2740-0015	Nut	Short Nut - for Securing Vent Tube in Leg of Tee Connector		\$10.60	
0905-0938	O-Ring	Graphitised Vespel Sealing Ring - for Sealing the Vent Tube in the Leg of the 'Tee' Connector		\$13.00	
05971-20590	Restrictor	Restrictor Column (0.115mm ID) - Connecting Capillary Tube Between Tee Connector and GC/MSD Interface		\$63.60	
05995-20174	Tee Connector	Tee Connector - Used to Adapt Wide-Bore or Mega-Bore Columns for MSD Use - Attaches to Column in GC Oven Compartment		\$152.00	
05988-20224	Tube	Split Tube - Slides into Tee Connector - for Adapting Wide-Bore Column for Use with MSD (NOT Used with Mega-Bore)		\$92.50	
1530-2163	Tube	Vent Tube (Stainless Steel) - Attaches to Cross Leg of Tee Connector - Vents Excess Effluent Out of GC Oven Compartment		\$11.00	
<b>GC/MSD Interface Parts</b>					
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC		\$138.00	
0100-1398	Clamp	Hinged Flange Clamp (Size KF25) - for Securing GC/MSD Interface to Mass Analyzer Vacuum Cavity		\$23.00	
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.5mm ID) for Sealing a 320um Column at Entrance to GC/MSD Interface (10/Pkg)		\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing a 100um Column at Entrance to GC/MSD Interface (10/Pkg)		\$55.00	
5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) for Sealing a 200/250um Column at Entrance to GC/MSD Interface (10/Pkg)		\$55.00	
5101-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of GC/MSD Interface During Storage or Shipping (10/Pkg)		\$42.00	
05971-20307	Guide Tube	Guide Tube (Fused-Silica) - Transfer Line in Center of GC/MSD Interface (NOTE: End of Column (or Restrictor Tube) Can Be Used Instead of the Transfer Line)		\$80.00	
0515-0071	Hardware	Cap Head Screw (M4.0 x 0.70, 16mm Long) - Holds the Heater/Sensor Sleeve Halves Together (on the GC/MSD Interface Assy)		\$ .55	
05971-60105	Heater/Sensor	Heater/Sensor Assy (with 5 Pin Connector) - Cartridge Style Heater and Sensor - Slides into Interface Outer Metal Jacket		\$297.00	
05971-20301	Insulation	Insulation Tube - Covers GC/MSD Interface Assembly		\$106.00	
05971-60302	Interface	GC/MSD Interface Assembly - Includes Internal Heat Transfer Tube and Bellows (with KF25 Flange)		\$583.00	
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05988-20066	Nut	SGE Nut - for Securing Column in End of GC/MSD Interface		\$12.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between GC/MSD Interface Bellows and Mass Analyzer Vacuum Cavity		\$29.70	
05988-20210	Sleeve	Heater/Sensor Sleeve (Clamp) for GC/MSD Interface - Outer Metal Jacket of Interface (Part Number is for Both Halves)		\$191.00	
05971-20305	Tip	Transferline Tip (Gold Plated) - Screw-On Tip End of the GC/MSD Interface (Which is Inserted into the Ion Source)		\$191.00	
05971-60112	Upgrade Kit	Upgrade Kit - Replaces 6 Pin Heater/Sensor and Cable Assemblies with 5 Pin (AMP Style) Components		\$392.00	
<b>Interconnecting Cables</b>					
05971-60429	Cable	Cable Assy - IRD External Accessory Control Cable - Used in GC/IRD/MSD Systems		\$340.00	
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC		\$138.00	
35960-60700	Cable	Cable Assembly - from the Accessory Remote Control (APG) Connector on the Rear Panel to the Gas Chromatograph		\$68.90	
8120-4654	Cable (Interface)	HP-IB Cable (1.0m) - for Connecting MSD to Controller System		\$77.50	
<b>Ion Gauge Tube Controller</b>					
59822-60002	Cable	Cable Assembly - from the Ionization Gauge Tube to the Gauge Tube Controller		\$371.00	
0100-0549	Clamp	Flange Clamp (Size KF25) - for the Securing Calibration Valve to Bottom of (Ionization Gauge Tube) Tee-Fitting, and the Tee-Fitting to the Bottom of the Vacuum Cavity (2 Used)		\$33.00	
59822-60003	Controller	Replacement Ionization Gauge Tube Controller (598228)		\$1,599.00	

* 59822-69003 598228	Controller Controller	Replacement Ionization Gauge Tube Controller (598228) Ionization Gauge Tube Controller System - Includes Controller, Ionization Gauge Tube, Cables, and Fittings	\$1,590.00	\$930.00
05971-20580	Fitting	'Tee' Fitting - Attaches to Bottom of Mass Analyzer Vacuum Cavity, Ion Gauge Tube, and Calibration Valve Assembly	\$424.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between the Ionization Gauge Tube Tee-Fitting to the Bottom of Vacuum	\$29.70	
0905-0456	O-Ring	Cavity or for the Tee-Fitting to Calibration Valve (2 Used) 0.737in O-Ring - Provides a Seal Between the Ion Gauge Tube and the Tee-Fitting	\$1.65	
0960-0376	Tube	Ionization Gauge Tube (Clear Glass) - Attaches to the 'Tee' Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00	

Ion Source Parts

05971-20128	Body	Ion Source Body - Outer Body/Main Structure of Ion Source - Metal Cylinder with End Flange for Mounting the Repeller	\$382.00	
G1072-20008	Cylinder	Drawout Cylinder - Slotted Metal Ring - Slides into Ion Source Body (on Top of Drawout Plate)	\$170.00	
05971-60140	Filament	Filament Assy - 2 Contact Plates/Pins with a Welded Filament Wire Between Them - all Secured to a Mounting Block (2 Used)	\$126.00	
0515-1046	Hardware	Cap Head Screw (M2.0 x 0.40, 8mm Long) - Secures the Filaments and the Repeller Assy to the Source Body (2 Used)	\$ .70	
0515-1077	Hardware	Cap Head Screw (M2.0 x 0.40, 5mm Long) - Secures the Ion Source (Via Slots in the Repeller) to the Radiator Housing	\$1.65	
0515-1446	Hardware	Set Screw (M3 x 0.5, 3mm Long) - On Side of Ion Source - Keeps Interior Parts (Lens Stack) in Place	\$2.35	
05971-20130	Insulator	Lens Insulator Half - Keeps Entrance and Ion Focus Lenses from Contacting Side Wall of Ion Source Body(Sold as a Pair)	\$230.00	

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05971-60102	Ion Source	Complete Ion Source Assembly (Tested)	\$1,760.00	
* 05971-69102	Ion Source	Complete Ion Source Assembly (Tested)	\$1,760.00	\$740.00
05971-20126	Lens	Entrance Lens Assembly (with Contact Pin) - 'T' Shaped (Side View) Round Metal Tip of Ion Source - Goes into End of Ion Source Body Between Insulator Halves	\$93.00	
05971-20143	Lens	Ion Focus Lens (with Contact Pin) - Metal Cylinder with a Flat Bottom (and Center Hole) - Goes into Ion Source Body Between the two Insulator Halves	\$233.00	
05971-20134	Plate	Drawout Plate - Round Washer Shaped Metal Piece - Sits in Bottom of Deeper Cylinder Side of Ion Source Body	\$61.00	
05971-60170	Repeller	Repeller Assy (Rectangular Shaped Piece) - Mounts to Flange End of Source Body (Also Has Mounting Holes for Filaments)	\$244.00	

MSD Electronics

05970-60151	Cable	Remote Cable Assembly - From APG Control Board to Rear Panel Remote Control (Top) Connector	\$63.60	
05971-60411	Cable	Ribbon Cable - From Top Bd to Main Bd (on Electronics Panel)	\$40.30	
05971-60413	Cable	Cable Assembly - from the Power Distribution Board to the Foreline Vacuum Gauge Tube	\$143.00	
05971-60417	Cable	Ribbon Cable - From HP-IB/MS Control Board (on Electronics Panel) to Rear Panel HP-IB Connector	\$25.40	
05971-60419	Cable	Ribbon Cable - from GPIO Interface Control Bd to Rear Panel	\$28.60	
05971-60426	Cable	Ribbon Cable - From APG Board to HP-IB/MS Control Board	\$19.60	
05971-60540	Fan	Fan Assembly (for 110V/120V Operation) - Mounts to Rear Panel (Between Diffusion Pump and Rear Panel)	\$160.00	
05971-60541	Fan	Fan Assembly (for 220V/240V Operation) - Mounts to Rear Panel (Between Diffusion Pump and Rear Panel)	\$138.00	
2110-0001	Fuse	Fuse - 1A, 250V (for 240V Operation) - For Fuse Holder in Center of Power Supply	\$ .30	
2110-0002	Fuse	Fuse - 2A, 250V (for 120V Operation) - For Fuse Holder in Center of Power Supply	\$ .85	
2110-0014	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.00	
2110-0055	Fuse	Fuse - 4A, 250V - for 220V/240V Operation - for Rear Panel (Line) Fuseholder - for Serial Number Prefix < 2908A	\$1.10	
2110-0342	Fuse	Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$3.00	
05971-60001	PC Board	Fuse - 8A, 250V - for 110V/120V Operation - for Rear Panel (Line) Fuseholder - for Serial Number Prefix < 2908A	\$1,480.00	
05971-60004	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer (Under Two Safety Covers)	\$530.00	
05971-60009	PC Board	GPIO Interface Control Board - Mounts in Back of Main Board - for Use with PASCAL (PAWS) ChemStations ONLY	\$509.00	
05971-60012	PC Board	APG Remote Control Interface Board - Small Board Behind Power Switch/Circuit Breaker - Mounts to HP-IB/MS Control Bd	\$2,600.00	
05971-60018	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB /MS Control Bd (for Use with HP-UX ChemStations ONLY)	\$1,540.00	
* 05971-69001	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer (Under Two Safety Covers)	\$1,480.00	\$415.00
* 05971-69004	PC Board	GPIO Interface Control Board - Mounts in Back of Main Board - for Use with PASCAL (PAWS) ChemStations ONLY	\$530.00	\$276.00
* 05971-69006	PC Board	HP-IB/MS Control Board - Large Board Near the Power Switch/ Interface Control Board (for Use with PASCAL (PAWS) or DOS ChemStations ONLY)	\$690.00	\$690.00

Circuit Breaker (APG Control Board Mounts to This Board) -

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* 05971-69012	PC Board	For Use with DOS or HP-UX ChemStations ONLY		
		Main Board (Largest Board in MSD) - Mounts in Front of GPIO Interface Control Board (for Use with PASCAL (PAWS) or DOS ChemStations ONLY)	\$2,600.00	\$690.00
* 05971-69018	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB /MS Control Bd (for Use with HP-UX ChemStations ONLY)	\$1,540.00	\$580.00
05972-60003	PC Board	Power Distribution Board (L-Shaped) - Mounts to the Rear Side of the Electronics Panel (Next to Power Supply)	\$425.00	
* 05972-69003	PC Board	Power Distribution Board (L-Shaped) - Mounts to the Rear Side of the Electronics Panel (Next to Power Supply)	\$425.00	\$295.00
8170-0651	Power Cord	Power Cord (Gray) - for 220V in Europe - 4.5m, Stripped End	\$16.50	
8120-3330	Power Cord	Power Cord - for 220V Operation in Denmark - 2.5m, Cut End	\$37.00	
6120-5216	Power Cord	Power Cord (Black) 14 AWG - 120V USA/Canada - 78in, Lug Ends	\$27.60	
05972-67006	Power Supply	Switching Power Supply (Has 13 Wire Terminal Strip) - Mounts on Rear Side of Electronics Panel (Comes Fused for 120V)	\$530.00	
3105-0172	Switch	Power Switch/Circuit Breaker (for 120V Operation) - on Rear Panel - for Serial Number Prefix >=&= 2908A	\$67.50	
3105-0173	Switch	Power Switch/Circuit Breaker (for 240V Operation) - on Rear Panel - for Serial Number Prefix >=&= 2908A	\$67.50	
05971-60430	Thermoswitch	Thermoswitch Assy - Mounts to Side of Diffusion Pump - Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cable	\$145.00	

Manuals, Tools & Supplies

0660-0791	Abrasive Powder	Alumina Abrasive Powder - for Cleaning the Ion Source	\$26.00	
5061-5096	Abrasive Sheet	Abrasive Sheets (30 Micron Aluminum Oxide) - 8.5in x 11in - for Ion Source Maintenance (5/Pkg)	\$24.00	
8650-0029	Cleaning Gloves	Polyester Gloves (Small) - for Working on Mass Analyzer	\$8.75	
8650-0030	Cleaning Gloves	Polyester Gloves (Large) - for Working on Mass Analyzer	\$14.00	
05980-60051	Cleaning Wipes	Lint Free Cleaning Cloths - for Ion Source (or Mass Analyzer) Maintenance (15/Pkg)	\$39.00	
05971-90019	Manual	5971A Mass Selective Detector Hardware Manual	\$68.00	
05971-90147	Manual	5971A Mass Selective Detector CE Handbook	\$61.00	
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00	
6010-1146	Paint	Dove Gray Enclosure Paint - Touch-Up (6.5oz Aerosol Can)	\$23.00	
9301-1104	Pellets	Adsorbent Pellets (Molecular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly	\$43.00	
5090-5400	Swabs	Cotton Swabs (100 per Pack)	\$9.00	
05971-20172	Tool	Ion Source Holding Tool - for Ion Source Maintenance Work	\$49.00	
05971-60561	Tool	Tool Kit - Includes MOST Tools Needed for Cleaning the Ion Source	\$357.00	
8710-0510	Tool	Open End Wrench - 1/4 inch and 5/16 inch Ends	\$22.00	
8710-0907	Tool	Tightener (Stainless Steel) - 4 7/8in Long - for Ion Source Maintenance	\$45.00	
8710-1570	Tool	1.5mm Hex Ball Driver - for Mass Analyzer Maintenance	\$16.00	
05971-90007	Video Tape	Cleaning the Ion Source in the 5971A - NTSC Format (VHS)	\$34.00	
05971-90008	Video Tape	Cleaning the Ion Source in the 5971A - PAL Format (VHS)	\$47.00	
H5317-90006	Video Tape	5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00	
H5317-90007	Video Tape	5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - PAL Format (VHS)	\$35.00	

Other Mass Analyzer Parts

* 05971-69100	Analyzer	Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier & Top Board (all Mounted to		\$4,560.00
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* 05971-69108	Analyzer	the Top Plate) - for Use with DOS or HP-UX Workstations		\$6,040.00
		Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier & Top Board (all Mounted to the Top Plate) - for Use with PASCAL Workstations (PAWS)		
0100-0549	Clamp	Flange Clamp (Size KF25) - for the Securing Calibration Valve to Bottom of (Ionization Gauge Tube) Tee-Fitting, and the Tee-Fitting to the Bottom of the Vacuum Cavity (2 Used)	\$33.00	
05971-00210	Clamp	Front Shipping Clamp - Secures Mass Analyzer Assembly During Shipping	\$31.80	
05971-00211	Clamp	Rear Shipping Clamp - Secures Mass Analyzer Assembly During Shipping	\$40.30	
05972-67002	Contact	Quadrupole Contact Upgrade Kit - Includes Contacts, Springs, and Instructions	\$286.00	
05971-80101	Electron Multiplier	Electron Multiplier Assy (by Galileo) - Mounts to the End of Radiator (Square Tube) Assembly in the Mass Analyzer	\$1,045.00	
05971-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts to the End of Radiator (Square Tube) Assembly in the Mass Analyzer	\$980.00	
05971-20580	Fitting	'Tee' Fitting - Attaches to Bottom of Mass Analyzer Vacuum Cavity, Ion Gauge Tube, and Calibration Valve Assembly	\$424.00	
05971-40100	Gasket	Top Plate Gasket - for Seal Between the Top Plate of Mass Analyzer and the Vacuum Chamber (Manifold)	\$91.00	
05971-80103	Horn	Replacement Horn Assembly (Canister Shaped Component at End of Radiator Housing - Held in Place with a Spring Clip) - for the K & M Electron Multiplier ONLY	\$875.00	



05971-60160	Magnet	Magnet Assembly - Attaches to Ion Source End of the Radiator Housing (Opposite the Interface Socket)	\$413.00	
05971-20550	Manifold	Mass Analyzer Vacuum Manifold (Casted Metal) - Main Structure of the Vacuum Cavity in the MSD	\$530.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between GC/MSD Interface to Vacuum Cavity or for Ionization Gauge Tube Tee-Fitting to Vacuum Cavity and Calibration Valve (3 Used)	\$29.70	
0905-0456	O-Ring	0.737in O-Ring - Provides a Seal Between the Ion Gauge Tube and the Tee-Fitting	\$1.65	
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00	
05971-60120	Plate	Top Plate Assembly (Oval Shaped) - for Top of Mass Analyzer Vacuum Cavity - Includes Connection Feed-Throughs	\$1,010.00	
05971-20120	Radiator	Radiator Housing (Square Metal Tube) - Main Internal Structure of the Mass Analyzer (Quadrupole NOT Included)	\$466.00	
05971-20133	Socket	GC/MSD Interface Socket (Gold Plated) - Round Socket That Screws into Side of the Radiator Tube in the Mass Analyzer (Needed to Transfer Heat from the Interface to the Analyzer)	\$111.00	
0960-0376	Tube	Ionization Gauge Tube (Clear Glass) - Attaches to the 'Tee' Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00	
05971-60550	Valve	Calibration Valve (Solenoid Valve with Vial) - Attaches to Bottom of Tee-Fitting on Front End of Mass Analyzer Assembly	\$318.00	
05980-20018	Vial	PFTBA Vial - Attaches to Bottom of Calibration Valve	\$12.00	
<b>Pumps and Related Parts</b>				
05971-20562	Body	Foreline Trap Body - Canister Part of the Foreline Trap (with KF25 Bottom Fitting)	\$42.40	
0100-1395	Clamp	Flange Clamp (Size KF50) - Holds Diffusion Pump to Bottom of MSD's Mass Analyzer Vacuum Cavity	\$52.50	
0100-1397	Clamp	Flange Clamp (Size KF10/16) - Holds Foreline Vacuum Gauge Tube and Fitting (Hose to Foreline Pump) to Diffusion Pump	\$26.00	
0100-1398	Clamp	Hinged Flange Clamp (Size KF25) - for Securing the Foreline Trap to the Foreline Pump	\$23.00	
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0100-1426	Clamp	Flange Clamp (Size KF40) - for Securing The Top Cap to the Body of the Foreline Trap	\$35.00	
05971-20530	Fitting	Foreline Vacuum Gauge Fitting - Mounts to Exhaust Tube of Diffusion Pump - For Gauge Tube And Hose to Foreline Pump	\$77.00	
2110-0002	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.85	
2110-0055	Fuse	Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.10	
0960-0540	Gauge Tube	Foreline Vacuum Gauge Tube - Monitors Vacuum of the Foreline Pump - Attaches to a Fitting on Side of the Diffusion Pump	\$286.00	
05971-60119	Hose	Foreline Hose (with Internal Coil Spring) - Hose Between Diffusion Pump and Foreline Pump	\$74.00	
0100-1183	O-Ring	O-Ring (KF10 Seal) - for Seal Between Diffusion Pump and Foreline Vacuum Gauge Tube Fitting	\$17.00	
0100-1425	O-Ring	O-Ring (KF40 Seal) - for Seal Between Cap and Body of Foreline Trap	\$30.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between the Bottom of the Trap and the Foreline Pump	\$29.70	
05971-20177	O-Ring	O-Ring (NW50 Seal) - for Seal Between Diffusion Pump and the MSD's Mass Analyzer Vacuum Cavity	\$93.00	
6040-0809	Oil	Diffusion Pump Fluid (Polyphenyl Ether) - 18.5ml	\$70.00	
6040-0834	Oil	Vacuum Pump Oil (Polyalphaolefin) - for Foreline Pump (1 Qt)	\$36.00	
9301-1104	Pellets	Adsorbent Pellets (Molecular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly	\$43.00	
05971-60530	Pump	Diffusion Pump Assembly (for 110V/120V Operation) - Attaches to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)	\$2,600.00	
05971-60531	Pump	Diffusion Pump Assembly (for 220V/240V Operation) - Attaches to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)	\$2,330.00	
* 05971-69149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation - for MSD's with Serial Number Prefix >= 2908A	\$1,640.00	\$980.00
3162-0125	Pump	(Edwards E2M1) Foreline Pump Assembly - for 120V Operation - for MSD's with Serial Number Prefix < 2908A	\$1,300.00	
3162-0126	Pump	(Edwards E2M1) Foreline Pump Assembly - for 240V Operation - for MSD's with Serial Number Prefix < 2908A	\$1,430.00	
3162-0149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation - for MSD's with Serial Number Prefix >= 2908A	\$1,640.00	
05989-80024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation - for MSD's with Serial Number Prefix >= 2908A	\$2,010.00	
* 05989-80024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation - for MSD's with Serial Number Prefix >= 2908A	\$2,010.00	\$1,110.00
05971-00560	Screen	Lower Screen - for Foreline Trap Body	\$19.10	
05971-00561	Screen	Upper Screen - for Foreline Trap Cap	\$29.70	
05971-60430	Thermoswitch	Thermoswitch Assy - Mounts to Side of Diffusion Pump - Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cable	\$145.00	
<b>System Software</b>				
G10398	CD ROM	Pfleger/Maurer/Weber Library of 4370 Drugs, Poisons, and Their Metabolism - for HP-UX System ChemStations (Software Requires 4.5MB of Free Disk Space) - on CD ROM	\$4,285.00	
G1034C	Software	MS ChemStation DOS System Operating Software - Requires 10MB	\$7,350.00	

G1039A	Software	of Free Disk Space MS Pesticide Library - for DOS System Chemstations - Requires 1MB of Free Disk Space	\$805.00
G1042A	Software	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for DOS System ChemStations (Software	\$2,970.00

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Requires 4.5MB of Free Disk Space)

\* = Exchange Part  
# = Call (800) 227-8164 for volume discount

HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP DETECTORS

HP MASS SELECTIVE DETECTOR

(5972A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Effluent Splitter Parts</b>				
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a 320um Column in Straight Part of Tee Connector (10/Pkg)	\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing Restrictor Tube in Straight Part of Tee Connector (10/Pkg)	\$55.00	
5062-3538	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a Mega-Bore Column in Straight Part of Tee Connector (10/Pkg)	\$43.00	
59913A	Jet Separator	Glass Jet Separator - Use with Packed or Megabore Columns		
05988-20066	Nut	SGE Nut - for Securing (Mega-Bore or Wide-Bore) Column or Restrictor Tube in Ends of Straight Part of 'Tee' Connector	\$12.00	
2740-0015	Nut	Short Nut - for Securing Vent Tube in Leg of Tee Connector	\$10.60	
0905-0938	O-Ring	Graphitized Vespel Sealing Ring - for Sealing the Vent Tube in the Leg of the 'Tee' Connector	\$13.00	
05971-20590	Restrictor	Restrictor Column (0.115mm ID) - Connecting Capillary Tube Between Tee Connector and GC/MSD Interface	\$63.60	
05995-20174	Tee Connector	Tee Connector - Used to Adapt Wide-Bore or Mega-Bore Columns for MSD Use - Attaches to Column in GC Oven Compartment	\$152.00	
05988-20224	Tube	Split Tube - Slides into Tee Connector - for Adapting Wide-Bore Column for Use with MSD (NOT Used with Mega-Bore)	\$92.50	
1530-2163	Tube	Vent Tube (Stainless Steel) - Attaches to Cross Leg of Tee Connector - Vents Excess Effluent Out of GC Oven Compartment	\$11.00	
<b>GC/MSD Interface Parts</b>				
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC	\$138.00	
0100-1398	Clamp	Hinged Flange Clamp (Size KF25) - for Securing GC/MSD Interface to Mass Analyzer Vacuum Cavity	\$23.00	
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.5mm ID) for Sealing a 320um Column at Entrance to GC/MSD Interface (10/Pkg)	\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing a 100um Column at Entrance to GC/MSD Interface (10/Pkg)	\$55.00	
5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) for Sealing a 200/250um Column at Entrance to GC/MSD Interface (10/Pkg)	\$55.00	
5181-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of GC/MSD Interface During Storage or Shipping (10/Pkg)	\$42.00	
05971-20307	Guide Tube	Guide Tube (Fused-Silica) - Transfer Line in Center of GC/MSD Interface (NOTE: End of Column (or Restrictor Tube) Can Be Used Instead of the Transfer Line)	\$80.00	
0515-0071	Hardware	Cap Head Screw (M4.0 x 0.70, 16mm Long) - Holds the Heater/Sensor Sleeve Together on the GC/MSD Interface Assy	\$ .55	
05971-60105	Heater/Sensor	Heater/Sensor Assy (with 5 Pin Connector) - Cartridge Style Heater and Sensor - Slides into Interface Outer Metal Jacket	\$297.00	
05971-20301	Insulation	Insulation Tube - Covers GC/MSD Interface Assembly	\$106.00	
05971-60302	Interface	GC/MSD Interface Assembly - Includes Internal Heat Transfer Tube and Bellows (with KF25 Flange)	\$583.00	
Page: 1				
05988-20066	Nut	SGE Nut - for Securing Column in End of GC/MSD Interface	\$12.00	
0100-1597	O-Ring	O-Ring (KF25 Seal, with External Centering Ring) - for Seal Between GC/MSD Interface Bellows and Analyzer Vacuum Cavity	\$43.00	
05988-20210	Sleeve	Heater/Sensor Sleeve (Clamp) for GC/MSD Interface - Outer Metal Jacket of Interface (Part Number is for Both Halves)	\$191.00	
05971-20305	Tip	Transferline Tip (Gold Plated) - Screw-On Tip End of the GC/MSD Interface (Which is Inserted into the Ion Source)	\$191.00	
<b>Interconnecting Cables</b>				
05971-60429	Cable	Cable Assy - IRD External Accessory Control Cable - Used in GC/IRD/MSD Systems	\$340.00	
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC	\$138.00	
35900-60700	Cable	Cable Assembly - from the Accessory Remote Control (APG) Connector on the Rear Panel to the Gas Chromatograph	\$68.90	
8120-4654	Cable (Interface)	HP-IB Cable (1.0m) - for Connecting MSD to Controller System	\$77.50	
<b>Ion Gauge Tube Controller</b>				
05972-60015	Baffle	Flow Baffle - Goes in Stem of Ion Gauge Tube	\$13.50	
59822-60002	Cable	Cable Assembly - from the Ionization Gauge Tube to the Gauge Tube Controller	\$371.00	
05972-60210	Collar	Collar (Knurled Nut) - for Attaching Ion Gauge Tube to Fitting on Front of Mass Analyzer Vacuum Cavity	\$32.90	
59822-60003	Controller	Replacement Ionization Gauge Tube Controller (59822B)	\$1,590.00	
* 59822-69003	Controller	Replacement Ionization Gauge Tube Controller (59822B)	\$1,590.00	\$930.00
59822B	Controller	Ionization Gauge Tube Controller System - Includes		

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0905-1070	O-Ring	Controller, Ionization Gauge Tube, Cables, and Fittings		
		0.737in O-Ring - Provides Seal Between the Ion Gauge Tube	\$3.60	
0960-0376	Tube	and the Mass Analyzer Vacuum Cavity Fitting		
		Ionization Gauge Tube (Clear Glass) - Attaches to the	\$152.00	
		Fitting on the Front End of Mass Analyzer Vacuum Cavity		
<b>Ion Source Parts</b>				
05971-20128	Body	Ion Source Body - Outer Body/Main Structure of Ion Source -	\$382.00	
		Metal Cylinder with End Flange for Mounting the Repeller		
G1072-20000	Cylinder	Drawout Cylinder - Slotted Metal Ring - Slides into	\$170.00	
		Ion Source Body (on Top of Drawout Plate)		
05972-60053	Filament	Filament Assy - 2 Contact Rods/Pins with a Welded Filament	\$81.00	
		Wire Between Them - all Secured to a Mounting Block (2 Used)		
0515-1046	Hardware	Cap Head Screw (M2.0 x 0.40, 8mm Long) - Secures the	\$ .70	
		Filaments and the Repeller Assy to the Source Body (2 Used)		
0515-1077	Hardware	Cap Head Screw (M2.0 x 0.40, 5mm Long) - Secures the Ion	\$1.65	
		Source (Via Slots in the Repeller) to the Radiator Housing		
0515-1446	Hardware	Set Screw (M3 x 0.5, 3mm Long) - On Side of Ion Source -	\$2.35	
		Keeps Interior Parts (Lens Stack) in Place		
05971-20130	Insulator	Lens Insulator Half - Keeps Entrance and Ion Focus Lenses	\$230.00	
		From Contacting Side Wall of Ion Source Body(Sold as a Pair)		
05972-60226	Ion Source	Complete Ion Source Assembly (Tested)	\$1,700.00	
* 05972-69226	Ion Source	Complete Ion Source Assembly (Tested)	\$1,700.00	\$740.00
05971-20126	Lens	Entrance Lens Assembly (with Contact Pin) - 'T' Shaped (Side	\$93.00	
		View) Round Metal Tip of Ion Source - Goes into End of Ion		
		Source Body Between Insulator Halves		
05971-20143	Lens	Ion Focus Lens (with Contact Pin) - Metal Cylinder with a	\$233.00	
		Flat Bottom (and Center Hole) - Goes into Ion Source Body		
Page: 2				
05971-20134	Plate	Between the two Insulator Halves		
		Drawout Plate - Round Washer Shaped Metal Piece - Sits in	\$61.00	
		Bottom of Deeper Cylinder Side of Ion Source Body		
05971-60170	Repeller	Repeller Assy (Rectangular Shaped Piece) - Mounts to Flange	\$244.00	
		End of Source Body (Also Has Mounting Holes for Filaments)		
<b>MSD Electronics</b>				
05971-60411	Cable	Ribbon Cable - From Top Bd to Main Bd (on Electronics Panel)	\$40.30	
05971-60413	Cable	Cable Assembly - from the Power Distribution Board to the	\$143.00	
		Foreline Vacuum Gauge Tube		
05971-60417	Cable	Ribbon Cable - From HP-IB/MS Control Board (on Electronics	\$25.40	
		Panel) to Rear Panel HP-IB Connector		
05972-60437	Cable	Cable Assembly - from Main Board to Rear Panel Accessory	\$42.40	
		Control Connector		
05972-60438	Cable	Remote Cable Assembly - From APG Control Board to Rear Panel	\$41.30	
		Remote Control (Top) Connector		
05972-60541	Fan	Fan Assembly (for 220V/240V Operation) - Mounts to Rear	\$164.00	
		Panel (Between Diffusion Pump and Rear Panel)		
05972-60542	Fan	Fan Assembly (for 110V/120V Operation) - Mounts to Rear	\$185.00	
		Panel (Between Diffusion Pump and Rear Panel)		
2110-0002	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion	\$ .85	
		Pump (Fuseholders on Internal Electronics Panel) (2 Used)		
2110-0055	Fuse	Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion	\$1.10	
		Pump (Fuseholders on Internal Electronics Panel) (2 Used)		
05971-60001	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer	\$1,480.00	
		(Under Two Safety Covers)		
* 05971-69001	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer	\$1,480.00	\$415.00
		(Under Two Safety Covers)		
05972-60003	PC Board	Power Distribution Board (L-Shaped) - Mounts to the Rear	\$425.00	
		Side of the Electronics Panel (Next to Power Supply)		
05972-60020	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB	\$1,170.00	
		/MS Control Board		
05972-60030	PC Board	Front Panel Display Board - for MSD Status Indication	\$180.00	
* 05972-69003	PC Board	Power Distribution Board (L-Shaped) - Mounts to the Rear	\$425.00	\$295.00
		Side of the Electronics Panel (Next to Power Supply)		
* 05972-69020	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB	\$1,170.00	\$770.00
		/MS Control Board		
05990-65406	PC Board	HP-IB/MS Control Board - Large Board Near the Power Switch/	\$1,700.00	
		Circuit Breaker		
* 05990-69406	PC Board	HP-IB/MS Control Board - Large Board Near the Power Switch/	\$1,700.00	\$820.00
		Circuit Breaker		
8120-0651	Power Cord	Power Cord (Gray) - for 220V in Europe - 4.5m, Stripped End	\$16.50	
8120-3330	Power Cord	Power Cord - for 220V Operation in Denmark - 2.5m, Cut End	\$37.00	
8120-5216	Power Cord	Power Cord (Black) 14 AWG - 120V USA/Canada - 78in, Lug Ends	\$27.60	
0950-2552	Power Supply	Switching Power Supply (Has 13 Wire Terminal Strip) - Mounts	\$339.00	
		on Rear Side of Electronics Panel		
3105-0172	Switch	Power Switch/Circuit Breaker (for 120V Operation) - on Rear	\$62.50	
		Panel		
3105-0173	Switch	Power Switch/Circuit Breaker (for 240V Operation) - on Rear	\$67.50	
		Panel		
05972-60402	Thermoswitch	Thermoswitch Cable Assy - Mounts to Side of Diffusion Pump -	\$145.00	
		Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cables,		
		Plus the Cable to the Diffusion Pump Heater		

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8660-0791	Abrasive Powder	Alumina Abrasive Powder - for Cleaning the Ion Source	\$26.00
5061-5896	Abrasive Sheet	Abrasive Sheets (30 Micron Aluminum Oxide) - 8.5in x 11in - for Ion Source Maintenance (5/Pkg)	\$24.00
8650-0029	Cleaning Gloves	Polyester Gloves (Small) - for Working on Mass Analyzer	\$8.75
8650-0030	Cleaning Gloves	Polyester Gloves (Large) - for Working on Mass Analyzer	\$14.00
05980-60051	Cleaning Wipes	Lint Free Cleaning Cloths - for Ion Source (or Mass Analyzer) Maintenance (15/Pkg)	\$39.00
05972-90002	Manual	5972A Mass Selective Detector Installation Manual	\$19.60
05972-90026	Manual	5972A Mass Selective Detector Hardware Manual	\$80.00
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00
6010-1146	Paint	Dove Gray Enclosure Paint - Touch-Up (6.5oz Aerosol Can)	\$23.00
9301-1104	Pellets	Adsorbent Pellets (Molecular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly	\$43.00
5080-5400	Swabs	Cotton Swabs (100 per Pack)	\$9.00
05972-60566	Tool	Tool Kit - Includes MOST Tools Needed for Cleaning the Ion Source	\$318.00
8710-0510	Tool	Open End Wrench - 1/4 inch and 5/16 inch Ends	\$22.00
8710-0907	Tool	Tweezers (Stainless Steel) - 4.75in Long - for Ion Source Maintenance	\$45.00
8710-1570	Tool	1.5mm Hex Ball Driver - for Mass Analyzer Maintenance	\$16.00
05972-90011	Video Tape	Cleaning the Ion Source in the 5972A - NTSC Format (VHS)	\$16.40
05972-90012	Video Tape	Cleaning the Ion Source in the 5971A - PAL Format (VHS)	\$16.40
H5317-90006	Video Tape	5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00
H5317-90007	Video Tape	5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - PAL Format (VHS)	\$95.00

Other Mass Analyzer Parts

05972-60228	Analyzer	Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier and Top Board (all Mounted to the Top Plate)	\$11,910.00
* 05972-69228	Analyzer	Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier and Top Board (all Mounted to the Top Plate)	\$11,910.00 \$4,560.00
05972-00015	Baffle	Flow Baffle - Goes in Stem of Ion Gauge Tube	\$13.50
05972-00200	Clamp	Shipping Clamp - Secures Mass Analyzer Assembly During Shipping or Storing (2 Used)	\$16.40
05972-60210	Collar	Collar (Knurled Nut) - for Attaching Ion Gauge Tube to Fitting on Front of Mass Analyzer Vacuum Cavity	\$32.90
05972-67002	Contact	Quadrupole Contact Upgrade Kit - Includes Contacts, Springs, and Instructions	\$286.00
05971-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts to the End of Radiator (Square Tube) Assembly in the Mass Analyzer	\$980.00
0100-1637	Fitting	Fitting - for Calibration Valve - Screws into Bottom of Mass Analyzer Vacuum Cavity (Manifold)	\$69.00
05971-80103	Horn	Replacement Horn Assembly (Canister Shaped Component at End of Radiator Housing - Held in Place with a Spring Clip)	\$875.00
05971-60160	Magnet	Magnet Assembly - Attaches to Ion Source End of the Radiator Housing (Opposite the Interface Socket)	\$413.00
05972-20560	Manifold	Mass Analyzer Vacuum Manifold (Casted Metal) - Main Structure of the Vacuum Cavity in the MSD	\$1,030.00
0100-1597	O-Ring	O-Ring (KF25 Seal, with External Centering Ring) - for Seal Between GC/MSD Interface Bellows and Analyzer Vacuum Cavity	\$43.00
0905-1070	O-Ring	0.737in O-Ring - Provides Seal Between the Ion Gauge Tube and the Mass Analyzer Vacuum Cavity Fitting	\$3.60

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0905-1217	O-Ring	0.239in O-Ring - for Seal Between the Calibration Valve Assy and the Fitting on the Bottom of the Vacuum Cavity	\$1.20
0905-1242	O-Ring	Top Plate O-Ring - for Seal Between the Top Plate of Mass Analyzer and the Vacuum Chamber (Manifold)	\$60.00
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00
05971-60120	Plate	Top Plate Assembly (Oval Shaped) - for Top of Mass Analyzer Vacuum Cavity - Includes Connection Feed-Throughs	\$1,010.00
05971-20120	Radiator	Radiator Housing (Square Metal Tube) - Main Internal Structure of the Mass Analyzer (Quadrupole NOT Included)	\$466.00
05971-20133	Socket	GC/MSD Interface Socket (Gold Plated) - Round Socket That Screws into Side of the Radiator Tube in the Mass Analyzer (Needed to Transfer Heat from the Interface to the Analyzer)	\$111.00
0960-0376	Tube	Innization Gauge Tube (Clear Glass) - Attaches to the Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00
05972-60101	Valve	Calibration Valve Assy (Solenoid Valve with Vial) - Attaches to Fitting on Bottom of Mass Analyzer Vacuum Cavity	\$233.00
05980-20018	Vial	PFTBA Vial - Attaches to Bottom of Calibration Valve	\$12.00

Pumps and Related Parts

05971-20562	Body	Foreline Trap Body - Canister Part of the Foreline Trap (with KF25 Bottom Fitting)	\$42.40
0100-1395	Clamp	Flange Clamp (Size KF50) - Holds Diffusion Pump to Bottom	\$52.50

0100-1397	Clamp	of MSD's Mass Analyzer Vacuum Cavity Flange Clamp (Size KF10/16) - Holds Foreline Vacuum Gauge Tube and Fitting (Hose to Foreline Pump) to Diffusion Pump	\$26.00	
0100-1398	Clamp	Minged Flange Clamp (Size KF25) - for Securing the Foreline Trap to the Foreline Pump	\$23.00	
0100-1426	Clamp	Flange Clamp (Size KF40) - for Securing The Top Cap to the Body of the Forline Trap	\$35.00	
2110-0002	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$ .85	
2110-0055	Fuse	Fuse - 4A, 250V (For 110V/120V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.10	
05972-60545	Gauge Tube	Forline Gauge Assembly - Includes Forline Gauge Tube and Tee Fitting (to Gauge Tube, Diffusion Pump, and Hose)	\$435.00	
05971-60119	Hose	Foreline Hose (with Internal Coil Spring) - Hose Between Diffusion Pump and Foreline Pump	\$74.00	
0100-1103	O-Ring	O-Ring (KF10 Seal) - for Seal Between Diffusion Pump and and Foreline Vacuum Gauge Tube Fitting	\$17.00	
0100-1425	O-Ring	O-Ring (KF40 Seal) - for Seal Between Cap and Body of Foreline Trap	\$30.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between the Bottom of the Trap and the Foreline Pump	\$29.70	
0100-1804	O-Ring	O-Ring (KF50 Seal, with External Centering Ring) - for Seal Between the Diffusion Pump and the MSD Vacuum Cavity	\$55.65	
6040-0809	Oil	Diffusion Pump Fluid (Polychenyl Ether) - 18.5ml	\$70.00	
6040-0834	Oil	Vacuum Pump Oil (Polyalphaolefin) - for Forline Pump (1 Qt)	\$36.00	
9301-1104	Pellets	Adsorbent Pellets (Molucular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly	\$43.00	
* 05971-69149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation	\$1,640.00	\$980.00
05989-60824	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation	\$2,010.00	
* 05989-89024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation	\$2,010.00	\$1,110.00
3162-0149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation	\$1,640.00	
05972-60415	Pump	Diffusion Pump Assembly (for 110V/120V Operation) - Attaches to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)	\$2,260.00	

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05972-60416	Pump	Diffusion Pump Assembly (for 220V/240V Operation) - Attaches to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)	\$2,330.00	
05971-00560	Screen	Lower Screen - for Foreline Trap Body	\$19.10	
05971-00561	Screen	Upper Screen - for Foreline Trap Cap	\$29.70	
05972-60402	Thermoswitch	Thermoswitch Cable Assy - Mounts to Side of Diffusion Pump - Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cables, Plus the Cable to the Diffusion Pump Heater	\$145.00	

System Software

G10398	CD ROM	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for HP-UX System ChemStations (Software Requires 4.5MB of Free Disk Space) - on CD ROM	\$4,285.00	
G1034C	Software	MS ChemStation DOS System Operating Software - Requires 10MB of Free Disk Space	\$7,350.00	
G1038A	Software	MS Pesticide Library - for DOS System Chemstations - Requires 1MB of Free Disk Space	\$805.00	
G1042A	Software	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for DOS System ChemStations (Software Requires 4.5MB of Free Disk Space)	\$2,970.00	

\* = Exchange Part

\*\* = Call (800) 227-8164 for volume discount

		Prefix >=&= 2538G	
79835-66511	PC Board	Solvent Delivery Motherboard (SDM) (Old Style - Has 6 Board Slots) - for Serial Number Prefix <=&= 2245G	\$720.00
79835-66523	PC Board	BUS Connector Ternary Board (BTU) - on Front of Channel Driver Boards (Behind Keyboard) - for Newer Style SDS Electronics (Serial Number Prefix >=&= 2538G)	\$148.00
79835-66512	PC Board	Solvent Delivery System Input/Output Connector Board (IOC) - on Front of Controller/Driver Boards (Behind Keyboard) - for Older Style SDS Electronics (Serial Number Prefix <=&= 2245G)	\$201.00

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79835-66521	PC Board	Metering Channel Driver Board (MCD) - Can Be Used on LC's with Either 3 Slot or 6 Slot Motherboard - NOTE: on 6 Slot Motherboard, Must also Use 79835-66520 (SCT Adapter Board)	\$715.00	
* 79835-69521	PC Board	Metering Channel Driver Board (MCD) - Can Be Used on LC's with Either 3 Slot or 6 Slot Motherboard - NOTE: on 6 Slot Motherboard, Must also Use 79835-66520 (SCT Adapter Board)	\$715.00	\$455.00
79835-66520	PC Board	SCT Adapter Board - Adapts New Metering Channel Driver Board (MCD) for Use with 6 Slot Motherboard - for Instruments with Serial Number Prefix <=&= 2245G	\$307.00	
79835-61620	Sensor	Positive Temperature Coefficient (PTC) Leak Sensor Assembly - Used in SDS, Injector, and Detector Units	\$58.30	
79835-68722	Upgrade Kit	Motor Driver Board (-66533) (MDR)/Servo Controller Board (-66514) (SCT) Replacement Kit - Includes Metering Channel Driver Board (MCD) and SCT Adapter Board (for S/N <=&= 2245G)	\$901.00	
* 79835-69722	Upgrade Kit	Motor Driver Board (-66533) (MDR)/Servo Controller Board (-66514) (SCT) Replacement Kit - Includes Metering Channel Driver Board (MCD) and SCT Adapter Board (for S/N <=&= 2245G)	\$901.00	\$636.00

SDS MCGV System Parts

9301-0656	Bottle	External Solvent Bottle - 1 Liter Capacity	\$35.00	
01018-60025	Filter	Solvent Filter (Round Filter in Bottom of External Solvent Bottle) - Inlet for Filtering Solvent Going to the Multi-Channel Gradient Valve - for External Solvent Bottle ONLY	\$68.00	
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for External Solvent Bottle	\$42.00	
0100-0900	Fitting	Zero Dead Volume (ZDF) Fitting - Couples Capillaries to External Solvent Bottle	\$70.00	
01090-60006	Head Assembly	Bottle Head Assembly - Includes Solvent Filter, Helium Frit, and all Tubing	\$208.00	
79835-22330	Holder	Connector Holder - for External Solvent Bottle Connectors	\$63.65	
79835-87330	Mixer	Static Mixer Assembly (for Proper Mixing of Solvents) - Attaches Between the High Pressure Damper and the Injector Valve Driver Board (CVD) - Controls the Multi-Channel Gradient Valve (or Old Style Proportioning Valve) - Plugs into Solvent Delivery Motherboard	\$170.00	
79835-66534	PC Board	Multi-Channel Gradient Valve (MCGV) Upgrade Kit - Parts Needed for Replacing the Old Style Proportioning Valve (Serial Number Prefix = 2738G) - MCGV Valve NOT Included	\$382.00	
79835-68721	Upgrade Kit	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$370.00	
79835-67701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00	
* 79835-69701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00	\$660.00

SDS Solvent Flow Parts

79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$88.00	
79835-60005	Damper	High Pressure Damper Assembly - Reduces Ripple Caused by the High Pressure Pump Output - Connects to Valve Unit Input	\$800.00	
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for Solvent Bottle	\$42.00	
0100-0900	Fitting	Zero Dead Volume (ZDF) Fitting - Couples Capillaries in Several Locations in the Solvent Flow Path	\$70.00	
79835-60003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	

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* 79835-69003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	\$610.00
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-60002	Metering Device	Metering Device - for Drawing Up a Selected Amount of Sample	\$900.00	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
79846-67101	Seat	Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0678	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow	\$2,390.00	

Part Number	Description	Price	Total
79846-67902	Valve	\$452.00	
* 79846-69001	Valve	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	\$25.00	
79846-24502	Waste Sleeve	\$25.00	
79846-27303	Waste Tube	\$21.00	

## Solvent Compartment Parts

01090-43701	Arm	Bottle Release Arm (Rail) - Causes Bottle Catch to Flip Down when Pulled (End Protrudes from Top of Solvent Compartment)	\$29.70
01090-07703	Base	Bottle Holder Base (L-Shaped) - Mounting Plate for the Bottle Holding Mechanics	\$63.65
9301-0656	Bottle	Solvent Bottle - 1 Liter Capacity	\$35.00
01090-60003	Bottle Holder	Bottle Holder Assembly - Includes Base and all Mechanical Parts (Does NOT Include Helium Venting or Plumbing Parts)	\$239.00
01090-88706	Cabinet	Solvent Cabinet Assembly - for Holding Solvent Bottles	\$201.00
01090-87606	Capillary	Connecting Capillary - from Solvent Inlet Filter (in Bottle) to Bottle Connector	\$35.00
01090-45001	Catch	Bottle Catch (U-Shaped) - Holds Solvent Bottle (by its Neck) - Flips Down when Release Arm is Pulled	\$11.65
01090-87602	Connector	Bottle Connector/Stopper - with Tube Fittings for the Helium Inlet and Outlet, and the Solvent Filter and Metering Pump	\$175.00
01090-60008	Filter	Solvent Filter (Round Filter in Bottom of Solvent Bottle) - Inlet for Filtering Solvent Going to the Metering Pump	\$53.00
01090-82701	Filter	Filter Assembly (for the Solvent Bottle) - Includes Helium Inlet, Solvent Filters, and Tubing	\$117.00
8985-1259	O-Ring	23.52mm O-Ring - Provides Seal Between the Bottle Connector and the Solvent Bottle	\$74.00
01090-67602	Outlet	Helium Outlet Assembly (Mounts on Back of Bottle Base Plate) - Has three Flexible Tubing Lines (to the Solvent Bottle Connectors) - for Helium Venting	\$133.00

\* = Exchange Part

= Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP INTEGRATORS

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

HP INTEGRATOR (3396A)

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Basic Chassis Parts</b>				
03396-40050	Bracket	Paper Roll Holder Bracket - Attaches to Rear of Integrator - Supports Paper Roll/Core Rod (2/Pkg)	\$6.00	
03394-40010	Case	Bottom Half of Case - Base Structure	\$62.50	
03394-40020	Case	Top Half of Case - Has Cut Outs for Keyboard and Print Mech	\$34.00	
0403-0282	Foot	Adhesive Bumper Foot - for Bottom of Integrator (4 Used)	\$ .30	
0370-2625	Keypad	Keypad (White) - for Rear Panel Power Switch	\$1.65	
03394-20500	Rod	Paper Core Rod - Inserts in Center of Paper Roll	\$11.00	
03394-00020	Separator	Paper Separator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	\$19.00	
03394-40100	Window	Lift-Up Viewing Window - on Top Cover (Behind Keyboard)	\$12.70	
<b>Integrator Electronics</b>				
35900-60520	Fan	Fan Assembly - Mounts in Front Left Corner of the Base Assy	\$39.20	
2110-0003	Fuse	Fuse - 3A, 250V - for 110V/120V or 220V/240V Operation	\$ .30	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$ .95	
03394-80031	IC	Printer CPU IC - Goes in Socket (About in Center) on Main Bd	\$154.00	
1020-6292	IC	Data Communications CPU IC - Goes in Socket on Main Board	\$17.50	
1010-4100	IC RAM	32k RAM IC - Goes in Socket on Main Board (2 Used)	\$28.00	
03396-60635	Keyboard	Keyboard Assembly - Does NOT Include Ribbon Cable	\$159.00	
* 03396-69010	PC Board	Main Board - Large Board in Bottom of Integrator (Includes Interface/Control Connectors and Keyboard Cable)		
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan/Thailand - 7.5ft, Straight	\$10.00	
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
03394-60030	Power Module	Power Module Assembly - Includes Power Switch, Line Select Switch, Fuse Holder, and Power Receptacle	\$69.00	
0950-1884	Power Supply	Power Supply Assembly - Mounts in Front of Power Module (on Left Side of Integrator)	\$90.00	
3101-2511	Switch	Power Switch - Pushbutton Switch (in Power Module Assembly)	\$21.50	
3101-2640	Switch	Datacomm Switches - All 10 Switches in a DIP Package	\$12.50	
<b>Interconnecting Cables</b>				
92224M	Adapter	RS-232C Gender Converter - 25 Pin (M) to 25 Pin (M) (P/O Option 304)		
03394-60510	Cable	Remote Control Cable - from Integrator to 57XX GC's and 1081B UV Detector - 2.1m	\$101.00	
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03394-60540	Cable	Remote Control Cable (General Purpose) - from Integrator to Spade Lug Connectors - 2.1m	\$69.40	
03394-60550	Cable	Remote Control Cable - from Integrator to 1090L/H LC and 1040A Diode Array Detector - 2.1m	\$106.00	
03394-60560	Cable	Remote Control Cable - from Integrator to 5890A and 5890 Series II (Analog Output) - 2m	\$82.20	
03394-60600	Cable	Remote Control Cable - from Integrator to 1046A Fluorescence Detector	\$87.50	
03396-60500	Cable	BCD Sample Number Cable - from Integrator to Spade Lug Connectors - 2.1m	\$66.30	
35900-60570	Cable	Analog Signal Cable - from Integrator to 5880A GC - 1.8m	\$63.60	
35900-60590	Cable	Analog Signal Cable - from Integrator to 5790A GC - 1.8m	\$66.30	
35900-60600	Cable	Analog Signal Cable - from Integrator to 1040A Diode Array Detector and 1090A/L LC's - 1.8m	\$63.60	
35900-60610	Cable	Analog Signal Cable - from Integrator to 5890A and 5890 Series II GC's - 1.8m	\$53.00	
35900-60620	Cable	Analog Signal Cable - from Integrator to 5710/30 GC's and 1081B UV Detector - 1.8m	\$58.30	
35900-60630	Cable	Analog Signal Cable (General Purpose) - from Integrator to Spade Lug Connectors - 1.8m	\$49.80	
35900-60640	Cable	Analog Signal Cable (Special Purpose) - from Integrator to Square Pin Connectors - 1.8m	\$47.70	
35900-60750	Cable	Analog Signal Cable - from Integrator to 1046A Fluorescence Detector - 2m	\$61.00	
03396-60510	Cable (Interface)	RS-232C DTE Interface Cable - 15 Pin (M) to 25 Pin (M) - 25ft (Option 302)	\$106.00	
03396-60520	Cable (Interface)	RS-232C DCE Interface Cable - 15 Pin (M) to 25 Pin (F) - 1.8m (Option 301 and P/O 304)	\$133.80	

03396-60530	Cable (Interface)	RS-232C DCE Interface Cable - 15 Pin (M) to 9 Pin (F) - 1.8m (Option 303)	\$122.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

516058	Cartridge	Blue Print Cartridge - for Use with InkJet Paper	\$15.95
51605R	Cartridge	Red Print Cartridge - for Use with InkJet Paper	\$15.95
5181-1220	Cartridge	Black Print Cartridge - for Use with InkJet Paper	\$16.00
03396-60920	Manual	3396A Integrator Manual Kit - Includes Operating and Reference Manuals (Which Also Has Service Information)	\$74.00
61213-60500	Manual	3396A/B BASIC Language Programming Manual	\$140.00
5062-3561	Paper	Z-Fold InkJet Paper (with Sequentially Numbered Pages) - 8.5in x 11in (500 Sheets Per Pack, 5 Packs/Box)	\$94.00
5181-1219	Paper	Perforated ThinkJet Paper - 8.5in X 11in Pages - 340 Pages Per Roll (4 Rolls/Box)	\$74.00
5181-1255	Paper	Perforated ThinkJet Paper - 210mm X 297mm Pages (4 Rolls/Box) - for European Use Only	\$76.00
5062-3560	Stand	Z-Fold Acrylic Paper Stand (U Shaped) - Holds Z-Fold Paper Supply Under Integrator	\$90.00
8710-1347	Tool	Pry Tool - for Opening the Integrator Case	\$17.00

## Print Mechanism Parts

02225-80027	Cable	Flex Cable - from Main Board to Carriage Assembly	\$11.00
02225-60914	Carriage	Carriage Assembly - Includes Flex Cable	\$8.25
02225-00017	Hardware	Cup Washer - Used in Mounting the Print Mechanism to the	\$1.75

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03394-40080	Latch	Base Assembly (2 Used)	\$4.90
3140-0785	Motor	Carriage Latch - Retains Print Cartridge in Carriage	\$38.00
3140-0787	Motor	Carriage Drive Motor - Mounts on Rear Left of Mechanism	\$23.50
03394-60625	Print Mechanism	Paper Drive Motor - Mounts on Right Side of Print Mechanism	\$276.00
03394-00020	Separator	Print Mechanism Assembly - Complete	\$19.00
		Paper Separator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	

\* = Exchange Part

= = Call (800) 227-8164 for volume discount

HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP LIQUID CHROMATOGRAPH

(1090L/M SERIES II)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Autoinjector Parts</b>				
0101-0558	Actuator	Air Actuator Bridge Assembly - Solenoid Controlled Air for Movement of the Needle Arm (Up And Down) and Rotating the Rheodyne Valve (and if Equipped, the Column Switching Valve)	\$660.00	
79846-45001	Arm	Vial Holder/Swivel Arm - Positions Sample Vial Under Needle	\$28.60	
79846-67103	Base	Needle Arm Drive Unit Base Assembly - Pneumatically Moves Needle Arm Up and Down (Assembly Includes Air Cylinder)	\$212.00	
79846-68101	Base	Metering Base Assembly - Base Structure for the Syringe Metering Assembly	\$382.00	
79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$88.00	
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary to Needle Arm Assembly	\$70.00	
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
3140-0675	Motor	Stepper Motor - Drives the Vial Holder/Swivel Arm	\$100.00	
79846-60005	Motor	Motor Assembly (Drives the Vial Holder/Swivel Arm) - Includes Motor, Bracket, Interrupter, and Sensor Board	\$223.00	
79846-67901	Motor	Drive Motor - Moves the Plunger in the Metering Syringe	\$111.00	
0100-1176	Muffler	Pneumatic Muffler - Screws on to the Air Damper Adapter	\$21.20	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
0905-0970	O-Ring	4.40mm O-Ring - Between Syringe Plunger and Waste Sleeve	\$37.00	
79846-66501	PC Board	Injector Controller Board (IC0) - Mounts to Right Side of Autoinjector Assembly	\$307.00	
79846-66502	PC Board	Syringe Position Sensor Board - Mount to Bottom of the Syringe Metering Assembly	\$66.25	
79846-66503	PC Board	Light Sensor Board - Used as the 'Vial Holder/Swivel Arm' Position Sensor and the 'Needle Arm' Position Sensor(2 Used)	\$53.00	
79846-66504	PC Board	Valve Sensor Board - Mounts to 6 Port Rheodyne Valve and Actuator Assembly	\$63.60	
79846-66505	PC Board	'Vial in Position' Sensor Board - Mounts to Needle Arm Assy	\$58.30	
9301-0675	Plunger	Replacement Plunger - for the 25ul Syringe	\$35.00	
9301-0677	Plunger	Replacement Plunger - for the 250ul Syringe	\$30.00	
79846-23702	Rod	Vial Holder/Swivel Arm Drive Rod - Attaches to Drive Motor	\$24.90	
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the 6 Port Rheodyne Valve and Actuator Assembly	\$60.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for the 6 Port Rheodyne Valve and Actuator Assembly	\$99.00	
79846-27101	Seal	Syringe Seal - Provides Seal Between 25ul Metering Syringe Tip and the Attached Capillary	\$12.00	
79846-27103	Seal	Syringe Seal - Provides Seal Between 250ul Metering Syringe Tip and the Attached Capillary	\$14.00	
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79846-67101	Seat	Tip and the Attached Capillary Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
0101-0559	Solenoid	Solenoid Valve - Controls Air Flow Out of the Air Actuator Bridge Assembly (4 Used)	\$275.00	
3107-0018	Switch	Low Pressure Sensor Switch (with 1/4 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Older Units)	\$27.50	
3107-0019	Switch	Low Pressure Sensor Switch (with 1/8 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Newer Units)	\$42.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0678	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-44701	Tray	Syringe Holder Tray - Has Two V-Shaped Support Blocks (for Cradling the Metering Syringe)	\$42.40	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	
79846-67902	Valve	Flush Valve Assembly - for Flushing Out the System	\$452.00	
* 79846-69001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	25ul Waste Sleeve - Attaches to the Plunger End of the 25ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-24502	Waste Sleeve	250ul Waste Sleeve - Attaches to the Plunger End of the 250ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-27303	Waste Tube	Waste Tube - Attaches to the Waste Sleeve (at the Plunger End of the Metering Syringe)	\$21.00	

Autosampler Parts

79847-45001	Arm	Magazine Position Slide Arm (Belt Driven) - Slides on the Two Guide Rods in the Drive Unit Assembly	\$15.90
1500-0635	Belt	Gear Belt - Drives Magazine Position Slide Arm	\$15.00
3160-0861	Fan	Fan Assembly - For Cooling the Temperature Controlled Autosampler Chamber (NOT Used on Standard Autosampler)	\$72.50
79847-42001	Heat Exchanger	Heat Exchanger Unit - Used in Cooling the Temperature Controlled Autosampler (NOT Used on Standard Autosampler)	\$424.00
79847-43710	Holder	Magazine Holder (Position 0) - Holds Magazine on Carriage	\$16.95
79847-43701	Holder	Magazine Holder (Position 1) - Holds Magazine on Carriage	\$16.95
79847-43702	Holder	Magazine Holder (Position 2) - Holds Magazine on Carriage	\$16.95
79847-43703	Holder	Magazine Holder (Position 3) - Holds Magazine on Carriage	\$16.95
79847-43704	Holder	Magazine Holder (Position 4) - Holds Magazine on Carriage	\$16.95
79847-43705	Holder	Magazine Holder (Position 5) - Holds Magazine on Carriage	\$16.95
79847-43706	Holder	Magazine Holder (Position 6) - Holds Magazine on Carriage	\$16.95
79847-43707	Holder	Magazine Holder (Position 7) - Holds Magazine on Carriage	\$16.95
79847-43708	Holder	Magazine Holder (Position 8) - Holds Magazine on Carriage	\$16.95
79847-43709	Holder	Magazine Holder (Position 9) - Holds Magazine on Carriage (NOT Used on Temperature Controlled Autosamplers)	\$32.00
79847-60005	Magazine	Vial Magazine Assembly - Holds Ten Sample Vials (Standard Uses 10, Temperature Controlled Autosampler Uses 9)	\$14.00
79847-67901	Motor	Carriage Drive Motor Assembly (Made by Berger-Lahr) - Mounts on End of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Driver Board - Part Number 01090-66531)	\$122.00
79847-67902	Motor	Magazine Drive Motor Assembly (Made by Berger-Lahr) - Mounts on Bottom of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Driver Board - Part Number 01090-66531)	\$122.00
01090-66554	PC Board	Injector-Sampler Drive Board (ISD) (New Style Board - with +/- 12V Motor Supplies) - Works with Old AND New Type Motors	\$195.00
79847-66501	PC Board	Sampler Controller Bd (SCO) - Mounts to Bottom of Drive Assy	\$212.00

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79847-66502	PC Board	'Carriage Home Position' Sensor Board (Standard) - Mounts Next to Carriage Drive Motor	\$74.25
79847-66510	PC Board	'Carriage Home Position' Sensor Board (Plastic Coated) - for Use in Temperature Controlled Autosamplers - Mounts Next to Carriage Drive Motor	\$127.00
79847-66503	PC Board	'Magazine in Position' Sensor Board (Standard) - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$63.60
79847-66511	PC Board	'Magazine in Position' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$93.00
79847-66504	PC Board	'Vial Count (Position)' Sensor Board (Standard) - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$71.50
79847-66512	PC Board	'Vial Count (Position)' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$106.00

## Column Compartment Parts

01090-87304	Adapter	0.17mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$74.00
01090-87305	Adapter	0.17mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$79.00
01090-87610	Adapter	0.12mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-87611	Adapter	0.12mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-21202	Clamp	Clamp - Holds Zero Dead Volume Fitting on Rear Screen Wall of Column Compartment	\$20.00
01090-60304	Door	Oven Door Assembly - Pull Down Door on Front of Column Compartment - Does NOT Include Hinges	\$196.00
3160-0402	Fan	120V/240V AC Fan Assembly (Squirrel Cage Style) - Mounts to Rear Wall of Column Compartment	\$116.00
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary from the Heater Assembly to the Column Adapter	\$70.00
01090-61105	Heater	Heater Assembly (with Connecting Capillaries) - Heats Incoming Sample/Solvent Mixture Going to the Column	\$795.00
3110-0162	Hinge	Hinge Assembly - for Column Compartment Front Door (2 Used)	\$24.00
01090-42302	Holder	Column Holder Rack (5 Position) - Mounts to Internal Screen Wall (3 Used)	\$23.85
01090-66508	PC Board	Oven Interface Board (OVI) - Interfaces Oven Electronics to Controller Mother Bd - Mounts to Side of Column Compartment	\$190.00
01090-61604	Sensor	Temperature Sensor - for Sensing Oven Temperature	\$240.00

## FPD Detector Assembly

79881-60006	Diode	Sample Diode Assy - Mounts to End of Optical Unit Housing - Receives Light from Beam Splitter (Provides Signal from Light Source after Passing Through the Flow Cell)	\$558.00
79881-60007	Diode	Reference Diode Assembly - Mounts to Side of Optical Unit Housing - Receives Light from Beam Splitter (Provides Reference Signal from Light Source Directly)	\$610.00
01090-07101	Filter	Air Filter - Behind Board Slots on the Filter Photometric Detector Card Cage	\$12.00
79881-62761	Filter	210nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62762	Filter	230nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62763	Filter	254nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00

79881-62769 Filter 269nm Light Filter - Mounts in the Filter Wheel Assembly \$360.00

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79881-62764	Filter	280nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62765	Filter	340nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62766	Filter	430nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62767	Filter	540nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62768	Filter Kit	Light Filter Kit - Includes 210nm, 230nm, 280nm, 340nm, 430nm, and 540nm Light Filters	\$2,127.00	
79881-60002	Flow Cell	Flow Cell Assembly - Mounts in Cavity of Optical Unit Housing (Next to Sample and Reference Diodes)	\$1,640.00	
2110-0001	Fuse	Fuse - 1A, 250V - F33 on Deterium Lamp Power Supply Board - Fuses the High Voltage Source to the Deterium Lamp Assembly	\$3.00	
2110-0342	Fuse	Fuse - 8A, 250V - F31 on Deterium Lamp Power Supply Board - Fuses 4V AC Filament Supply to the Deterium Lamp Assembly	\$3.00	
79881-27101	Gasket	0.6mm ID Cell Gasket - Between Rear Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-27102	Gasket	1.2mm ID Cell Gasket - Between Front Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-22403	Hardware	Flow Cell Screw - Retains the Flow Cell Windows in the Flow Cell Housing (2 Used)	\$24.00	
79881-25204	Housing	Flow Cell Housing - Round Base Structure of the Flow Cell Assembly (NO Other Hardware Included)	\$740.00	
79880-60002	Lamp	Deuterium Lamp Assembly - Mounts in Cavity at End of Optical Unit Housing	\$463.00	
79881-02401	Motor	Drive Motor - for Filter Wheel Assembly	\$106.00	
79881-60004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	
* 79881-69004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	\$1,800.00
79881-66501	PC Board	Filter Detector Motherboard (FMB)	\$276.00	
79881-66502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	
79881-66503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	
* 79881-69502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	\$660.00
* 79881-69503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	\$390.00
79883-66501	PC Board	Deterium Lamp Power Supply Board (DPS)	\$370.00	
79881-09103	Spring	Window Spring - Between the Screw and Window on the Flow Cell Housing (2 Used)	\$8.00	
79881-62501	Wheel	Filter Wheel Assembly - Holds Up to 7 Filters (NOT Included)	\$111.00	
79881-28101	Window	Flow Cell Window - Goes in Each Side of the Flow Cell Housing (2 Used) (3/Pkg)	\$30.00	

High Pressure Pump Parts

79835-67101	Ball Valve	Ball Valve Cartridge (for pH 2.3 to 9.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$129.00	
79835-67102	Ball Valve	Ball Valve Cartridge pH (for pH 2.3 to 12.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$180.00	
1500-0668	Belt	Drive Belt (0.5in Wide) - from Motor to High Pressure Pump Plunger Drive Shaft	\$15.20	
79835-04123	Diaphragm	Diaphragm - in High Pressure Pump Head (Above Ball Valves)	\$40.00	
79835-43613	Gear	Small Belt Gear (50Hz or 60Hz Operation) - Mounts to Motor Shaft on the High Pressure Pump Assembly	\$7.15	
79835-43615	Gear	Large Belt Gear (50Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$30.75	
79835-43616	Gear	Large Belt Gear (60Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$31.80	
3140-0682	Motor	High Pressure Pump Motor - for 240V, 50Hz Operation	\$154.00	
3140-0693	Motor	High Pressure Pump Motor - for 120V, 60Hz Operation	\$185.50	
0905-0998	O-Ring	27.3mm O-Ring - for the Oil Reservoir Top Cover	\$2.10	

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79835-62311	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	
79835-62312	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	
* 79835-69004	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	\$980.00
* 79835-69009	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	\$980.00
79835-65213	Sieve	Sieve Assembly (for pH 2.3 to 9.5) - Goes in the Inlet Valve on the High Pressure Pump	\$23.00	
79835-65216	Sieve	Sieve Assembly pH (for pH 2.3 to 12.5) - Goes in the Inlet Valve on the High Pressure Pump	\$29.00	
79835-61111	Valve	Override Valve (440 bar) - Attaches to the Right Side of of the Pump Head on the High Pressure Pump (Standard)	\$196.00	
79835-61112	Valve	Override Valve (350 bar) - Attaches to the Right Side of of the Pump Head on the High Pressure Pump (Causes Reduced Pumping Pressure But Results in Longer Diaphragm Life)	\$233.00	

Interconnecting Cables

01040-60201	Cable	Remote Cable - General Purpose (Spade Lugs) - 2m	\$154.00	
01040-60202	Cable	Remote Cable - from 1090 LC to Distribution Module - 2m	\$175.00	
01040-60203	Cable	Remote Start Cable - from 1090 LC to 3390A Integrator - 2m	\$159.00	
01040-60204	Cable	Remote Start Cable - from 1090 LC to 18562A/D Converter - 2m	\$228.00	
01040-60205	Cable	Remote Start Cable - from 1090 LC to 3388A Integrator - 2m	\$154.00	
01046-60201	Cable	General Purpose Remote Control Cable (Spade Lugs) - Connects to the 1090 LC (Via the Remote Control Interface Board)	\$127.00	
01046-60202	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote	\$143.00	

01046-60203	Cable	Control Interface Board) to a 1040A Diode Array Detector, Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 3390A Integrator	\$185.50
01046-60206	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 3392A/93A Integrator	\$190.00
01046-60210	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 3394A Integrator	\$240.00
01090-60206	Cable	Remote Start/Stop Cable - 1090 LC to 3392/3A Integrator - 2m	\$143.00
01090-60310	Cable	BCD Cable - from 1090 LC to 3392A/93A Integrator - 2m	\$207.00
01090-60312	Cable	General Purpose BCD Cable - from 1090 LC to Spade Lugs - 2m	\$164.00
03394-60550	Cable	Remote Cable - from 1090 LC to 3394A/96A Integrator	\$106.00
03396-60580	Cable	BCD Cable - from 1090 LC to 3396A Integrator	\$148.00
35900-60710	Cable	Remote Cable - from 1090 LC to 35900C ChemStation Interface	\$87.50
5061-3378	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 1046A Fluorescence Detector or a 35900A Dual Channel Interface	\$50.00
01046-60202	Cable (Interface)	Another 1090 LC, or a Signal Distribution Module	\$143.00
10833A	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 1.0m	\$90.00
10833B	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 2.0m	\$100.00
10833C	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 4.0m	\$110.00
10833D	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 0.5m	\$90.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

LC Mainframe Case Parts

01090-68716	Cabinet	Solvent Cabinet Assembly - for Holding Solvent Bottles	\$170.00
1390-0421	Catch	Magnetic Catch - for Keyboard Door Panel (Mounts on Side of Solvent Cabinet)	\$17.50
01090-47701	Cover	Upper Left Side Cover (w/ Frame) - on ALS Side of Main Cover	\$133.00
01090-47702	Cover	Upper Right Side Cover (w/ Frame) - on DAO Side of Main Cover	\$133.00
01090-47703	Cover	Lower Left Side Cover (with Frame) - on Solvent Compartment	\$122.00

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01090-47704	Cover	Side of Instrument Lower Right Side Cover (with Frame) - on Keyboard/ Electronics Side of Instrument	\$122.00
01090-64111	Cover	Lift-Up Cover - for the Diode Array Detector (DAO) Assembly	\$276.00
01090-64112	Cover	Lift-Up Cover (with Viewing Window) - for the Automatic Liquid Sampler (ALS)	\$392.00
01090-64113	Cover	Main Cover Assembly - Includes Top Cover, Upper Side Covers, and Both (ALS and DAO) Lift-Up Covers	\$1,330.00
01090-40303	Door	Keyboard Door Panel - Used on LC's That Have a System Keyboard (No Display)	\$106.00
01090-40304	Door	Keyboard Door Panel - Used on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$122.00
01090-60011	Door	Keyboard Door Panel Assy - Includes Door Panel, Attaching Hardware and a Local User Interface Keyboard (Has a 32 Character Display)	\$2,170.00
01090-02701	Filter	Air Filter - on Back of Keyboard Door Panel - on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$8.75
3150-0462	Filter	Foam Air Filter (590mm x 85mm) - Air Inlet Filter (on Bottom of Mainframe)	\$15.00
3150-0463	Filter	Foam Air Filter - Two (Side by Side) on Back of Main Cover and Two on Back of the Keyboard Door Panel (on LC's That Have a System Keyboard (No Display) ONLY) (4 Used)	\$15.00
0380-0644	Hardware	Hex Standoff - for the HP-IB Connector (2 Used)	\$4.30
01090-04102	Label	Label ('Hewlett Packard' Logo) - on Left Side of Main Cover	\$18.00
01090-04143	Nameplate	Nameplate - '1090 Liquid Chromatograph' - on Right Side of Main Cover	\$28.60
01090-66579	PC Board	Piggy-Back HP-IB Interface Board (LIB) - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$275.00
01090-04142	Trim	Trim Strip - on Top of Lower Left Side Cover	\$63.60
01090-04144	Trim	Trim Strip - on Top of Lower Right Side Cover	\$46.65
01090-04133	Window	Viewing Window - Mounts in Cover Assembly for the Automatic Liquid Sampler (ALS)	\$26.00

LC Mainframe Electronics

1420-0361	Battery	3.67V Lithium Battery - for RAM Back-Up on Display Keyboard Driver Board	\$55.00
01090-68520	Fan	24V DC Fan Assembly (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of >= 3044A	\$228.00
3160-0421	Fan	120V AC Tubeaxial Fan (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of < 3044A	\$75.00
01090-66552	Keyboard	System Keyboard Assembly (SYK) (NO Display) - Mounts to Keyboard Door Panel - Used on LC's That Have an HP-IB Interface Board (IBU) and Requires an External Controller	\$318.00
01090-66553	Keyboard	Local User Interface Keyboard Assembly (DDK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00
* 01090-69553	Keyboard	Local User Interface Keyboard Assembly (DDK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00

\$530.00

9135-0030	Line Filter	220V Line Filter/Power Receptacle Assembly - on Rear Panel	\$30.00	
9135-0202	Line Filter	220V Line Filter/Power Receptacle Assembly - on Rear Panel	\$32.00	
01090-66507	PC Board	Display Keyboard Interface Board (DKI) (Has 8 Status LED's - on Keyboard Door Panel) Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$330.00	
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01090-66509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00	
01090-66510	PC Board	Piggy-Back HP-IL Inet Interface Board - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$466.00	
01090-66511	PC Board	HP-IL Connector Board (CIL) (for LC's that Have an HP-IL Interface) - Mounts to Rear Panel	\$154.00	
01090-66526	PC Board	External Contacts Interface Board - Mounts to Rear Panel	\$190.00	
01090-66535	PC Board	HP-IB Interface Board (IBU) - Used in Versions of LC's That Require an External Controller (Has a System Keyboard Rather than a Local User Interface Keyboard)	\$307.00	
01090-66538	PC Board	Remote Control Interface Board (RCI)	\$275.00	
01090-66557	PC Board	Control Mother Board (CTM) - Interconnects Mainframe Controller to Other Boards	\$212.00	
01090-66575	PC Board	Piggy-Back Memory Board (MEM) - Attaches to the Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$127.00	
* 01090-69509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00	\$360.00
5061-3352	PC Board	HP-IB Connector Board (Includes Cable) - Mounts to Rear Panel - Works with Either Type of HP-IB Interface Board	\$43.45	
01090-66542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00	
* 01090-69542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00	\$477.00
01090-66708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00	
* 01090-69708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00	\$600.00
01090-66573	PC Board	Memory Board - Mounts to Mainframe Controller Board	\$127.00	

Manual Injector Parts

1535-4854	Fitting	Needle Port Fitting (Teflon) - Provides Seal Around Needle in the Loop Filler Port (Rheodyne Model 7012)	\$50.00	
1535-4860	Loop	5ul Sample Loop - for the Model 7125 Rheodyne Valve	\$73.00	
0101-0376	Loop	10ul Sample Loop - for the Model 7125 Rheodyne Valve	\$50.00	
0101-0377	Loop	20ul Sample Loop - for the Model 7125 Rheodyne Valve	\$45.00	
0101-0378	Loop	50ul Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00	
0101-0379	Loop	100ul Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00	
1535-4862	Loop	Micro Volume Loop Disk (Includes 0.5ul, 1.0ul, and 5ul Sample Loops) - for the Model 7143 Rheodyne Valve	\$15.00	
9301-0676	Needle	Blunt Tip Needle - for Use with the 250ul Syringe and the Model 7125 Rheodyne Valve	\$17.00	
9301-0679	Needle	Blunt Tip Needle - for Use with the 25ul Syringe and the Model 7143 Rheodyne Valve	\$126.00	
0100-1214	Port	Loop Filler Port (Rheodyne Model 7012) - Used to Manually Inject a Sample Directly with a Conventional Syringe	\$60.00	
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the Model 7125 Rheodyne Valve	\$99.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for Model 7125 Rheodyne Valve	\$95.00	
1535-4061	Seal	Rotor Seal - for the Model 7143 Rheodyne Valve	\$58.30	
1535-4856	Seal	Isolation Seal - for the Model 7143 Rheodyne Valve	\$63.00	
9301-0633	Syringe	25ul Hamilton Syringe - for Drawing Up to a 25ul Sample Size - for Use with the Model 7143 Rheodyne Valve	\$63.00	
9301-0678	Syringe	250ul Hamilton Syringe - for Drawing Up to a 250ul Sample Size - for Use with the Model 7125 Rheodyne Valve	\$655.00	
0101-0607	Valve	6 Port Rheodyne Valve Assembly (Model 7125) - for Manual		

Injection

Manuals, Tools & Supplies

01090-67610	Cable	Extender Cable - for Working on the Autosampler Outside of the 1090 Mainframe	\$66.00	
5180-0842	Cap	Crimp Cap - for the 300ul Microvial (500/Pkg)	\$135.00	
79841-65501	Lubricant	Lubricant - for High Pressure Pump Belt	\$22.00	
01090-90024	Manual	1090L and II/L Liquid Chromatograph Operator's Manual	\$58.00	
01090-90100	Manual	1090 Series L, M, II/L, and II/M Liquid Chromatograph Service Handbook	\$115.00	
01090-90211	Manual	1090L, M, II/L, and II/M Liquid Chromatograph Getting Ready Guide	\$15.00	
79994-90025	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Standard Software)	\$18.00	
79994-90026	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Std Software)	\$18.00	
79994-90027	Manual	1040M/1090M DAD/LC 'Fact File' Handbook (Standard Software)	\$45.00	
79994-90028	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Standard Software)	\$15.00	
79994-90029	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Std Software)	\$24.00	

79994-90031	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Foreground/Background Software)	\$18.00	
79994-90032	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Foreground/Background Software)	\$13.00	
79994-90033	Manual	1040M/1909M DAD/LC 'Fact File' Handbook (Foreground/Background Software)	\$45.00	
79994-90034	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Foreground/Background Software)	\$13.00	
79994-90035	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Foreground/Background Software)	\$24.00	
01010-00002	Oil	Hydraulic Fluid - for the High Pressure Pump (100mL)	\$18.00	
01090-66540	PC Board	Extender Board - for Power Supply Control Board (PCS) and Power Supply Board (PWS) - for Access to Test Points	\$196.00	
6010-1146	Paint	Dove Gray Enclosure Paint (6.5oz Aerosol Can) - Touch-Up for Newer Instruments (Series II)	\$23.00	
6010-1148	Paint	Parchment White Case Paint (6.5oz Aerosol Can) - Touch-Up for Newer Instruments (Series II)	\$17.50	
5180-0843	Sleeve	Adapter Sleeve - for Adapting 300ul Microvials to Fit in the Autosampler Magazine	\$14.00	
8710-1158	Tool	Torque Wrench (3.5 to 17 Newton-Meter) - for Installing the Pump Head on the High Pressure Pump	\$378.00	
8710-1643	Tool	Crimping Tool - for 8mm Crimp Tops (on 300ul Microvials)	\$204.00	
5061-3349	Tray	Microvial Accessory Tray - Holds 50 300ul Vials	\$40.00	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00	
5180-0841	Vial	300ul Microvial (Requires Sleeves to Fit in the Autosampler Magazine) (500/Pkg)	\$130.00	
5181-3400	Vial	2ul Crimp Top Vial (Clear) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$111.00	
5181-8801	Vial	2ul Crimp Top Vial (Amber) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$136.00	
5182-0538	Vial	2mL Crimp Top Vial (Clear) - Will NOT Accept Insert(100/Pkg)≠	\$16.00	
5182-0539	Vial	2mL Crimp Top Vial (Amber) - Will NOT Accept Insert(100/Pkg)≠	\$18.00	
H2604-90006	Video Tape	1090 Series Liquid Chromatograph Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00	

Metering Pump Parts

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79835-44103	Cover	Protective Cover (Clear Plastic) - Covers Lower Part of Metering Pump and Valves	\$14.00	
79835-43101	Guide	Piston Guide - for the Sapphire Plungers in the Metering Pump (on Bottom of each Solvent Chamber) (2 Used/Pump)	\$25.45	
3980-0672	Plunger	Sapphire Plunger (or Piston) - in Solvent Chambers of the Metering Pump (2 Used/Pump)	\$91.00	
79835-60020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00	
* 79835-69020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00	\$930.00
5062-2494	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Standard Solvents (4/Pkg)	\$115.00	
0905-1194	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Buffered Solvents	\$63.00	
1460-1998	Spring	Compression Spring - Around Plungers (Pistons) on the Metering Pump (Below the Solvent Chambers)(2 Used/Pump)	\$4.00	
79835-60021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00	
* 79835-69021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00	\$580.00

Power Supplies and Parts

2110-0030	Fuse	Fuse - 5A, 250V - for +36V Supply on the Power Supply Control Board	\$2.00	
2110-0303	Fuse	Fuse - 2A, 250V - for -24V Supply on the Power Supply Board, and +17V and -17V Supplies on the Power Supply Control Board	\$1.05	
2110-0342	Fuse	Fuse - 8A, 250V - for +24V Supply on the Power Supply Board	\$3.00	
2110-0055	Fuse	Line Fuse - 4A, 250V - for 220V Operation	\$1.10	
2110-0342	Fuse	Line Fuse - 8A, 250V - for 120V Operation	\$3.00	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$0.95	
2110-0566	Fuseholder	Fuseholder Body - Cap NOT Included	\$2.40	
01090-66522	PC Board	Power Supply Board	\$530.00	\$390.00
01090-66523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00	\$340.00
01090-66524	PC Board	Power Supply Mother Board - Interconnects the Power Supply Boards to the Power Supply Control Board	\$330.00	
01090-66525	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 120V AC Main Fan ONLY (Serial Number Prefix < 3044A)	\$275.00	
01090-66555	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 24V DC Main Fan ONLY (Serial Number Prefix >= 3044A)	\$111.00	
* 01090-69522	PC Board	Power Supply Board	\$530.00	\$390.00
* 01090-69523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00	\$340.00
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$18.00	



8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50
8120-2957	Power Cord	Power Cord (Gray) - 220V Operation in Denmark - 2m, 90 Deg	\$30.00
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50
3101-0402	Switch	Power Switch - Mounts on Rear Panel	\$8.00
01090-61103	Transformer	Power Transformer Assy - for 100/120V and 220/240V Operation	\$435.00

## SDS Electronics

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79835-66515	PC Board	Metering Pump Limit Board (MPL) - Senses Upper End Position of Both Pistons on the Metering Pump System	\$76.85
79835-66516	PC Board	Rotary Valve Sensor Board (RVS) (Almost Round PC Board) - Checks Position of Rotary Valve Unit	\$100.75
79835-66517	PC Board	Pump Stroke Sensor Board (PSS) - Produces a Pulse for Each Revolution of the High Pressure Pump Motor	\$71.50
79835-66522	PC Board	Solvent Delivery Mother Board (SDM) (New Style - Has 3 Board Slots and Attached Interconnecting Cables) - for Serial Prefix >&= 2538G	\$557.00
79835-66511	PC Board	Solvent Delivery Motherboard (SDM) (Old Style - Has 6 Board Slots) - for Serial Number Prefix <&= 2245G	\$720.00
79835-66523	PC Board	BUS Connector Ternary Board (BTU) - on Front of Channel Driver Boards (Behind Keyboard) - for Newer Style SDS Electronics (Serial Number Prefix >&= 2538G)	\$148.00
79835-66512	PC Board	Solvent Delivery System Input/Output Connector Board (IOC) - on Front of Controller/Driver Boards (Behind Keyboard) - for Older Style SDS Electronics (Serial Number Prefix <&= 2245G)	\$201.00
79835-66521	PC Board	Metering Channel Driver Board (MCD) - Can Be Used on LC's with Either 3 Slot or 6 Slot Motherboard - NOTE: on 6 Slot Motherboard, Must also Use 79835-66520 (SCT Adapter Board)	\$715.00
* 79835-69521	PC Board	Metering Channel Driver Board (MCD) - Can Be Used on LC's with Either 3 Slot or 6 Slot Motherboard - NOTE: on 6 Slot Motherboard, Must also Use 79835-66520 (SCT Adapter Board)	\$715.00 \$455.00
79835-66520	PC Board	SCT Adapter Board - Adapts New Metering Channel Driver Board (MCD) for Use with 6 Slot Motherboard - for Instruments with Serial Number Prefix <&= 2245G	\$307.00
79835-61620	Sensor	Positive Temperature Coefficient (PTC) Leak Sensor Assembly - Used in SDS, Injector, and Detector Units	\$58.30
79835-68722	Upgrade Kit	Motor Driver Board (-66533) (MOR)/Servo Controller Board (-66514) (SCT) Replacement Kit - Includes Metering Channel Driver Board (MCD) and SCT Adapter Board (for S/N <&= 2245G)	\$901.00
* 79835-69722	Upgrade Kit	Motor Driver Board (-66533) (MOR)/Servo Controller Board (-66514) (SCT) Replacement Kit - Includes Metering Channel Driver Board (MCD) and SCT Adapter Board (for S/N <&= 2245G)	\$901.00 \$636.00

## SDS MCGV System Parts

9301-0656	Bottle	External Solvent Bottle - 1 Liter Capacity	\$35.00
01018-60025	Filter	Solvent Filter (Round Filter in Bottom of External Solvent Bottle) - Inlet for Filtering Solvent Going to the Multi-Channel Gradient Valve - for External Solvent Bottle ONLY	\$68.00
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for External Solvent Bottle	\$42.00
79846-23203	Fitting	Flash Union - Couples Capillary to External Solvent Bottle	\$21.50
01090-60006	Head Assembly	Bottle Head Assembly - Includes Solvent Filter, Helium Frit, and all Tubing	\$208.00
01090-22313	Holder	Connector Holder - for External Solvent Bottle Connectors	\$77.00
79835-87330	Mixer	Static Mixer Assembly (for Proper Mixing of Solvents) - Attaches Between the High Pressure Damper and the Injector Valve Driver Board (CVD) - Controls the Multi-Channel Gradient Valve (or Old Style Proportioning Valve) - Plugs into Solvent Delivery Motherboard	\$170.00
79835-66534	PC Board	Multi-Channel Gradient Valve (MCGV) Upgrade Kit - Parts Needed for Replacing the Old Style Proportioning Valve (Serial Number Prefix = 2738G) - MCGV Valve NOT Included	\$382.00
79835-68721	Upgrade Kit	Multi-Channel Gradient Valve (MCGV) Upgrade Kit - Parts Needed for Replacing the Old Style Proportioning Valve (Serial Number Prefix = 2738G) - MCGV Valve NOT Included	\$370.00
79835-67701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00
* 79835-69701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00 \$660.00

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## SDS Solvent Flow Parts

79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$88.00
79835-60005	Damper	High Pressure Damper Assembly - Reduces Ripple Caused by the High Pressure Pump Output - Connects to Valve Unit Input	\$800.00
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for Solvent Bottle	\$42.00
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillaries in Several Locations in the Solvent Flow Path	\$70.00
79835-60003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00

* 79835-69003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	\$610.00
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-60002	Metering Device	Metering Device - for Drawing Up a Selected Amount of Sample	\$900.00	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
79846-67101	Seat	Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0670	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	
79846-67902	Valve	Flush Valve Assembly - for Flushing Out the System	\$452.00	
* 79846-69001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	25ul Waste Sleeve - Attaches to the Plunger End of the 25ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-24502	Waste Sleeve	250ul Waste Sleeve - Attaches to the Plunger End of the 250ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-27303	Waste Tube	Waste Tube - Attaches to the Waste Sleeve (at the Plunger End of the Metering Syringe)	\$21.00	

## Solvent Compartment Parts

01090-43701	Arm	Bottle Release Arm (Rail) - Causes Bottle Catch to Flip Down when Pulled (End Protrudes from Top of Solvent Compartment)	\$29.70	
01090-07703	Base	Bottle Holder Base (L-Shaped) - Mounting Plate for the Bottle Holding Mechanics	\$63.65	
9301-0656	Bottle	Solvent Bottle - 1 Liter Capacity	\$35.00	
01090-60003	Bottle Holder	Bottle Holder Assembly - Includes Base and all Mechanical Parts (Does NOT Include Helium Venting or Plumbing Parts)	\$239.00	
01090-87606	Capillary	Connecting Capillary - from Solvent Inlet Filter (in Bottle) to Bottle Connector	\$35.00	
01090-45001	Catch	Bottle Catch (U-Shaped) - Holds Solvent Bottle (by its Neck) - Flips Down when Release Arm is Pulled	\$11.65	
01090-87602	Connector	Bottle Connector/Stopper - with Tube Fittings for the Helium Inlet and Outlet, and the Solvent Filter and Metering Pump	\$175.00	
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01090-60008	Filter	Solvent Filter (Round Filter in Bottom of Solvent Bottle) - Inlet for Filtering Solvent Going to the Metering Pump	\$53.00	
01090-82701	Filter	Filter Assembly (for the Solvent Bottle) - Includes Helium Inlet, Solvent Filters, and Tubing	\$117.00	
0905-1259	O-Ring	23.52mm O-Ring - Provides Seal Between the Bottle Connector and the Solvent Bottle	\$74.00	
01090-67602	Outlet	Helium Outlet Assembly (Mounts on Back of Bottle Base Plate) - Has three Flexible Tubing Lines (to the Solvent Bottle Connectors) - for Helium Venting	\$133.00	

\* = Exchange Part

\* = Call (800) 227-8164 for volume discount

HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP INTEGRATORS

HP INTEGRATOR 3396 SERIES II

(3396B)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Basic Chassis Parts</b>				
03396-40050	Bracket	Paper Roll Holder Bracket - Attaches to Rear of Integrator - Supports Paper Roll/Core Rod (2/Pkg)	\$6.00	
03394-40010	Case	Bottom Half of Case - Base Structure	\$62.50	
03394-40020	Case	Top Half of Case - Has Cut Outs for Keyboard and Print Mech	\$34.00	
0403-0202	Foot	Adhesive Bumper Foot - for Bottom of Integrator (4 Used)	\$ .30	
0370-2625	Keypad	Keypad (White) - for Rear Panel Power Switch	\$1.65	
03394-20500	Rod	Paper Core Rod - Inserts in Center of Paper Roll	\$11.00	
03394-00020	Separator	Paper Separator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	\$19.00	
03394-40100	Window	Lift-Up Viewing Window - on Top Cover (Behind Keyboard)	\$12.70	
<b>Integrator Electronics</b>				
35900-60520	Fan	Fan Assembly - Mounts in Front Left Corner of the Base Assy	\$39.20	
2110-0003	Fuse	Fuse - 3A, 250V - for 110V/120V or 220V/240V Operation	\$ .30	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$ .95	
1820-6292	IC	Data Communications CPU IC (U305) - Goes in Socket on Main Board	\$17.50	
1820-6599	IC	Printer/Plotter CPU IC (U223) - Goes in Socket (About in Center) on Main Board	\$31.80	
03396-60595	IC ROM	Firmware Upgrade Kit - Includes: Z-80 Diagnostics ROM (U111), Z-80 BASIC ROM (U110), and INET ROM (U317)	\$74.00	
03396-80106	IC ROM	Application EPROM (Generic) (U318) - Goes in Socket on Main Board	\$79.50	
03395-60635	Keyboard	Keyboard Assembly - Does NOT Include Ribbon Cable	\$148.00	
03396-60015	PC Board	Main Board - Large Board in Bottom of Integrator (Includes Interface/Control Connectors and Keyboard Cable)	\$950.00	
* 03396-69015	PC Board	Main Board - Large Board in Bottom of Integrator (Includes Interface/Control Connectors and Keyboard Cable)	\$950.00	\$580.00
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan/Thailand - 7.5ft, Straight	\$10.00	
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
03394-60030	Power Module	Power Module Assembly - Includes Power Switch, Line Select Switch, Fuse Holder, and Power Receptacle	\$69.00	
0950-1884	Power Supply	Power Supply Assembly - Mounts in Front of Power Module (on Left Side of Integrator)	\$90.00	
3101-2511	Switch	Power Switch - Pushbutton Switch (in Power Module Assembly)	\$21.50	
3101-2640	Switch	Datcomm Switches - All 10 Switches in a DIP Package	\$12.50	

Interconnecting Cables

03394-60560	Cable	Remote Control Cable - from Integrator to 5890A and 5890 Series II (Analog Output) - 2m	\$82.20	
03394-60580	Cable	Remote Control Cable - from Integrator to Second 3394A or 3395A Integrator - 2.1m	\$87.00	
03394-60600	Cable	Remote Control Cable - from Integrator to 1046A Fluorescence Detector	\$87.50	
03394-60610	Cable	Remote Control Cable - from Integrator to 5890 GC with a 19395A Headspace Analyzer (Y Cable)	\$69.00	
03396-60500	Cable	BCD Sample Number Cable - from Integrator to Spade Lug Connectors - 2.1m	\$66.30	
03396-60560	Cable	BCD Cable - from Integrator to 7673 Automatic Sampler	\$74.20	
03396-60570	Cable	BCD Cable - from Integrator to 19395A Headspace Analyzer	\$90.00	
03396-60580	Cable	BCD Cable - from Integrator to 1090 LC Auto Sampler	\$148.00	
03396-60620	Cable	Remote Control Cable - from Integrator to 57XX GC's	\$95.40	
03396-60650	Cable	Remote Control Cable - from Integrator to 1040 Diode Detector and 1090A/L LC	\$122.00	
35900-60570	Cable	Analog Signal Cable - from Integrator to 5880A GC - 1.8m	\$63.60	
35900-60590	Cable	Analog Signal Cable - from Integrator to 5790A GC - 1.8m	\$66.30	
35900-60600	Cable	Analog Signal Cable - from Integrator to 1040A Diode Array Detector and 1090A/L LC's - 1.8m	\$63.60	
35900-60610	Cable	Analog Signal Cable - from Integrator to 5890A and 5890 Series II GC's - 1.8m	\$53.00	
35900-60620	Cable	Analog Signal Cable - from Integrator to 5710/30 GC's and 1081B UV Detector - 1.8m	\$58.30	
35900-60630	Cable	Analog Signal Cable (General Purpose) - from Integrator to	\$49.80	

35900-60640	Cable	Spade Lug Connectors - 1.8m	
		Analog Signal Cable (Special Purpose) - from Integrator to Square Pin Connectors - 1.8m	\$47.70
35900-60750	Cable	Analog Signal Cable - from Integrator to 1046A Fluorescence Detector - 2m	\$61.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

516058	Cartridge	Blue Print Cartridge - for Use with InkJet Paper	\$15.95
51605R	Cartridge	Red Print Cartridge - for Use with InkJet Paper	\$15.95
5181-1220	Cartridge	Black Print Cartridge - for Use with InkJet Paper	\$16.00
03395-62500	Manual	3395A/3396B Integrator Tutorial Manual Kit (German)	\$45.00
03395-63500	Manual	3395A/3396B Integrator Tutorial Manual Kit (French)	\$45.00
03395-64500	Manual	3395A/3396B Integrator Tutorial Manual Kit (Italian)	\$45.00
03395-65500	Manual	3395A/3396B Integrator Tutorial Manual Kit (Spanish)	\$45.00
03395-67500	Manual	3395A/3396B Integrator Tutorial Manual Kit (Chinese)	\$45.00
03396-60955	Manual	3396B Integrator Core Manual Kit - Includes: Installation and Service, RS-232C Programmer's Guide, Networking Guide, Tutorial, Using Applications Programs, and Operating Manuals	\$222.00
G1213-60500	Manual	3396A/B BASIC Language Programming Manual	\$140.00
5062-3561	Paper	Z-Fold InkJet Paper (with Sequentially Numbered Pages) - 8.5in x 11in (500 Sheets Per Pack, 5 Packs/Box)	\$94.00
5181-1219	Paper	Perforated ThinkJet Paper - 8.5in X 11in Pages - 340 Pages Per Roll (4 Rolls/Box)	\$74.00
5181-1255	Paper	Perforated ThinkJet Paper - 210mm X 297mm Pages (4 Rolls/Box) - for European Use Only	\$76.00
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5062-3560	Stand	Z-Fold Acrylic Paper Stand (U Shaped) - Holds Z-Fold Paper Supply Under Integrator	\$90.00
8710-1347	Tool	Pry Tool - for Opening the Integrator Case	\$17.00

## Print Mechanism Parts

02225-80027	Cable	Flex Cable - from Main Board to Carriage Assembly	\$11.00
02225-60914	Carriage	Carriage Assembly - Includes Flex Cable	\$8.25
02225-00017	Hardware	Cup Washer - Used in Mounting the Print Mechanism to the Base Assembly (2 Used)	\$ 7.75
03394-40080	Latch	Carriage Latch - Retains Print Cartridge in Carriage	\$4.90
3140-0785	Motor	Carriage Drive Motor - Mounts on Rear Left of Mechanism	\$38.00
3140-0787	Motor	Paper Drive Motor - Mounts on Right Side of Print Mechanism	\$23.50
03394-60625	Print Mechanism	Print Mechanism Assembly - Complete	\$276.00
03394-00020	Separator	Paper Separator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	\$19.00

\* = Exchange Part

# = Call (800) 227-8164 for volume discount

## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP CHROMATOGRAPHS

## HP GAS CHROMATOGRAPH SERIES II

(5890A II)

Prices are in U.S. dollars  
Effective from 10/01/97 to 12/31/97

ITEM NUMBER	KEYWORD	DESCRIPTION	* LIST PRICE	EXCHANGE PRICE
<b>ECD (G12xx) Detector</b>				
19233-20515	Base	Base Structure (Lower Heated Block) - of the ECD Detector	\$77.00	
19233-69576	ECD Assembly	ECD Assembly Replacement (General License)	\$875.00	
19235-69536	ECD Assembly	ECD Assembly Replacement (Specific License)	\$870.00	
19233-60627	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$53.00	
19233-60625	Heater/Sensor	Heater/Sensor Assembly - Includes Cable	\$122.00	
19233-60635	Interconnect	Signal Interconnect Lead - from ECD Detector to PC Board	\$19.10	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>ECD (G12xx) Flow Manifold</b>				
19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19233-60675	Flow Manifold	ECD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$509.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (2 Used Per Valve) (12/Pkg)	\$14.00	
5181-1251	O-Ring	Valve O-Ring (Greased) - for the Flow Manifold (1 Used Per Valve)	\$4.90	
19231-60770	Restrictor	Restrictor (Red) -for 'Hydrogen' on Flow Manifold	\$15.40	
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90	
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20	
<b>ECD Detector Assembly</b>				
19233-80565	Adapter	ECD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$177.00	
19233-80510	Base	Base Structure (Heated Block Weldment) - of ECD Detector	\$111.00	
19233-69570	ECD Assembly	ECD Assembly Replacement (General License)	\$940.00	
19235-69530	ECD Assembly	ECD Assembly Replacement (Specific License)	\$940.00	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19233-60660	Interconnect	Signal Interconnect Assy - from ECD Detector to PC Board	\$101.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>ECD Flow Manifold</b>				
19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19233-60610	Flow Manifold	ECD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$286.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00	
<b>FID Detector Assembly</b>				
19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00	
19231-60690	Collector	FID Collector Assembly - Top Half of Detector	\$177.00	
19231-60025	Diode Bridge	Diode Bridge/Cable Assembly - Attaches to Ignitor Assembly	\$44.50	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
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05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19231-60680	Ignitor	Ignitor (Glow Plug) Assy - Screws into Collector Assy	\$30.00	
19231-60710	Interconnect	Signal Interconnect Assy - from FID Detector to PC Board	\$90.00	
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00	
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00	
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00	
19231-60010	PC Board	FID Detector Board	\$477.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>FID Flow Manifold</b>				
19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19231-60750	Flow Manifold	FID Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$445.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00	
19231-60610	Restrictor	Restrictor (Brown) - for 'Air' on Flow Manifold	\$10.60	
19231-60770	Restrictor	Restrictor (Red) -for 'Hydrogen' on Flow Manifold	\$15.40	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90	
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20	
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00	
<b>FID Detector Assembly</b>				
19256-80000	Filter	393nm Filter - for Sulfur	\$293.00	
19256-80010	Filter	525nm Filter - for Phosphorus	\$293.00	
0854-0141	Glow Plug	Glow Plug (1.5V) - Screws in to the Left Side of the Block Weldment	\$19.00	



19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
19256-60540	Heater	Heater Assembly - for Lower Heated Block on Detector	\$159.00
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19256-60590	Liner/Ferrule	Gigabore Liner and Ferrule - Mounts in the Transfer Tube (in the Lower Heated Block)	\$69.00
19256-60010	PC Board	FPD Detector Board	\$583.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - for Upper Heated Block	\$82.00
256-20730	Tube	Drip Tube (Rubber) - Attaches to the Exit Tube (at the Top of the Block Weldment)	\$31.00
19256-60510	Tube	Photo-Multiplier Tube (PMT) Assy - with Tube Body & End Cap	\$1,700.00
61535-80050	Tube	Photo-Multiplier Tube (PMT) (ONLY)	\$600.00
19256-80030	Window	First Heat Shield Window - Between the Heat Shield Disk (Behind the Stainless Steel Coupling) and the Block Weldment	\$30.00
19256-80060	Window	Second Heat Shield Window - Between the Flange Adapter and the Stainless Steel Coupling	\$31.00

FPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19256-60630	Flow Manifold	FPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$466.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

GC Mainframe Case Parts

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05890-80395	Cover	Rear Cover - also Covers Back Top Half of Oven (L-Shaped)	\$95.00
05890-40125	Cover	Right Side Top Cover (L-Shaped) - Over Electronics Area	\$32.90
19257-80035	Cover	Rear Cover (L-Shaped) - has Optional RS-232C/HP-IB Cutouts	\$122.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
05890-61570	Door	Left Side (Flow) Panel Door Assembly	\$42.00
05890-91000	Nameplate	Nameplate - 5890A II GC Logo	\$6.10
05890-40115	Panel	Right Side (Electronics) Panel	\$66.00
05890-61480	Panel	Left Side (Flow) Panel	\$154.00

GC Mainframe Electronics

19257-60505	Cable	Dual Interface Cable - from Communications Bd to Rear Panel	\$36.00
790-40080	Connector	Connector Body - Supports the Connector Element Between the Keyboard Bezel and the Display PC Board	\$8.20
1252-5289	Connector	Connector Element (Elastomeric) - Interconnects the Keyboard Bezel Assembly and the Display PC Board	\$7.25
19245-60510	Fan	Inlet Cooling Fan - Mounts Under Fan Shroud in Inlet Area (on Top of Oven Compartment)	\$42.40
2110-0054	Fuse	Fuse - 15A, 250V - F1 on 05890-60060 and F3/F4 on 05890-60070 AC Power Supply Boards	\$ .95
2110-0098	Fuse	Fuse - 20A, 250V - F1 on 05890-60050 AC Power Supply Board	\$1.00
2110-0422	Fuse	Fuse - 6.25A, 250V - F2 on 05890-60050 or 05890-60060 and F1/F2 on 05890-60070 AC Power Supply Boards	\$ .95
05890-80325	IC ROM	EPROM for Main Board - for Series II ONLY	\$26.50
05890-60747	Keyboard	Keyboard Bezel Assembly - Face Plate with Soft-Touch Keypad - Does NOT Include the Display PC Board	\$87.00
05890-61367	Keyboard	Keyboard Assembly - Includes the Keyboard Bezel, Display PC Board, and the Connector Assembly Between Them	\$223.00
05890-60035	PC Board	Display Board - Includes Display Readout and Ribbon Cable	\$170.00
05890-60050	PC Board	AC Power Supply Board - for 120V Operation in USA/Canada	\$307.00
05890-60060	PC Board	AC Power Supply Board - for 220V/240V Operation in the UK/Europe (Including Denmark and Switzerland)/Australia/China/South Africa	\$297.00
05890-60070	PC Board	AC Power Supply Board - for 200V/220V/240V Operation in USA/Canada/Japan/220V Split-Phase in Europe	\$339.00
* 05890-69015	PC Board	Main Board - Must Also Order EPROM (IC ROM)	\$690.00
19242-60015	PC Board	INET Communications Board (Buffered)	\$392.00
19242-60030	PC Board	RS-232C Communications Board	\$519.00
19257-60015	PC Board	RS-232C/HP-IB Dual Interface Communications Board	\$260.00
19257-60020	PC Board	Dual Interface (RS-232C/HP-IB) Rear Panel Connector Board	\$244.00
19261-60010	PC Board	Analog Input Communications Board	\$339.00
05890-60870	Power Cord	Power Cord (Hard Wired) - for 120V Operation in USA/Canada	\$26.50
05890-60880	Power Cord	Power Cord (Hard Wired) - for 220V Operation in European Countries (Including Denmark and Switzerland)	\$63.60
05890-60890	Power Cord	Power Cord (Hard Wired) - for 220V/240V Operation in the UK/South Africa	\$138.00
05890-60900	Power Cord	Power Cord (Hard Wired) - for 240V Operation in USA/Canada	\$180.00
05890-60910	Power Cord	Power Cord (Hard Wired) - for 240V Operation in Australia/New Zealand/China	\$111.00
790-60920	Power Cord	Power Cord (Hard Wired) - for 200V Operation in Japan	\$186.00
790-60960	Power Cord	Power Cord (Hard Wired) - for 220V Split-Phase Operation in European Countries	\$55.70
3101-0402	Switch	Power Switch - Mounts on Lower Right Side	\$8.00
05890-60970	Transformer	Power Transformer Assy - for 120V Operation in USA/Canada	\$239.00
05890-60980	Transformer	Power Transformer Assembly - for 200V Operation in Japan	\$180.00
05890-60990	Transformer	Power Transformer Assy - for 220V Operation in the UK/China/	\$244.00

## Europe (Including Denmark &amp; Switzerland)/Europe Split-Phase

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05890-61000	Transformer	Power Transformer Assembly - for 240V Operation in USA/ Canada/Australia/South Africa	\$228.00
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## Interconnecting Cables

05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00
05890-60780	Cable	Analog Signal Cable - to HP 3388A Integrator - 2m	\$85.00
05890-60790	Cable	Analog Signal Cable - to HP 3350 Series Lab System - 2m	\$122.00
05890-60800	Cable	Analog Signal Cable - General Purpose (Spade Lugs) - 2m	\$106.00
05890-61050	Cable	Remote Start/Stop Cable - to HP 3390A Integrator - 2m	\$93.00
05890-61060	Cable	Remote Start/Stop Cable - to HP 3392/93A Integrator - 2m	\$101.00
05890-61070	Cable	Remote Start/Stop Cable - to HP 3350 Series Lab System - 2m	\$101.00
05890-61080	Cable	Remote Start/Stop Cable - General Purpose (Spade Lugs) - 2m	\$122.00
05890-61160	Cable	Remote Start/Stop Cable - to HP 18652A Interface Module - 2m	\$127.00
05890-61170	Cable	Remote Start/Stop Cable - to HP 3388A Integrator - 2m	\$127.00
05890-61180	Cable	Remote Start/Stop Cable - to HP 18762A Sample Cntrlr - 2m	\$65.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$6.00
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

8710-1346	Brush	Cleaning Brush - for the FID Collector (Set of 2)	\$8.00
9301-0985	Cleaning Kit	Cleaning Kit - for Flame Detectors	\$32.00
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00
05890-61400	Manual	5890A Series II Operating Manual Kit (German)	\$177.00
05890-61410	Manual	5890A Series II Operating Manual Kit (French)	\$177.00
05890-61420	Manual	5890A Series II Operating Manual Kit (Italian)	\$177.00
05890-61430	Manual	5890A Series II Operating Manual Kit (Spanish)	\$177.00
05890-90320	Manual	5890A Series II Service Manual	\$224.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19251-00100	Tool	Septa Wrench - for Ease in Removing Septum Retainer Nut	\$24.00
19301-00150	Tool	FID Wrench - for Removing Retainer Nut	\$8.00
H2603-90006	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS)	\$195.00
H2603-90007	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS)	\$95.00
H2603-90008	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS) (in Spanish)	\$95.00
H2603-90009	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS) (in Spanish)	\$95.00

## NPD Detector Assembly

19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00
19234-80510	Body	Body Assy - Connects to Toroid Assy - on Top of Detector	\$106.00
19234-60540	Collector	Collector Assembly - Center 'Core' of Detector	\$131.00
19234-20610	Contact	Upper Contact - for Toroid Assy - on Top of Detector	\$75.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19231-60710	Interconnect	Signal Interconnect Assy - from NPD Detector to PC Board	\$90.00
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00
19234-60012	PC Board	NPD Detector Board	\$557.00

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5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19234-60580	Toroid	Toroid Assy (ONLY) - Connects to Detector Contact and Body	\$223.00
19234-60750	Toroid/Spacer	Toroid/Spacer Assembly - Includes Cable	\$164.00

## NPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19234-60650	Flow Manifold	NPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$413.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19234-60600	Restrictor	Restrictor (Green and Brown) - for 'Air' on Flow Manifold	\$20.10
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90
19231-20530	Valve	'Plug' Valve - for Flow Manifold (1 Used)	\$15.40
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

## Oven Compartment Assembly

05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
19245-60510	Fan	Inlet Cooling Fan - Mounts Under Fan Shroud in Inlet Area (on Top of Oven Compartment)	\$42.40



05890-61615	Heater	Oven Heater Shroud Assy (120V) - has Element, Plate, & Cable	\$154.00
05890-61625	Heater	Oven Heater Shroud Assy (200V) - has Element, Plate, & Cable	\$154.00
05890-61635	Heater	Oven Heater Shroud Assy (220V) - has Element, Plate, & Cable	\$154.00
05890-61645	Heater	Oven Heater Shroud Assy (230V) - has Element, Plate, & Cable	\$154.00
05890-61655	Heater	Oven Heater Shroud Assy (240V) - has Element, Plate, & Cable	\$154.00
19239-20550	Insulation Kit	Sound Insulation Kit (Includes all Five Pieces) - for any of the Cryogenic Valves in the Oven Compartment	\$63.60
70-60940	Motor	Stepper Motor - for Oven Flap Assembly	\$90.00
30-67020	Motor	Oven Fan Motor Replacement Kit - for 120V Operation	\$212.00
05890-67030	Motor	Oven Fan Motor Replacement Kit - for 200V to 240V Operation	\$249.00
19239-80505	Nozzle	CO2 Cryogenic Nozzle	\$55.65
19239-80535	Nozzle	N2 Cryo Blast Nozzle	\$111.00
19245-80550	Nozzle	CO2 Cryo Blast Nozzle	\$79.50
19310-20500	Nozzle	N2 Cryogenic Nozzle	\$38.20
05890-61030	Sensor	Oven Sensor Assembly - Mounts on Heater Shroud	\$98.00
05890-80560	Shaft	Oven Flap Shaft Assembly - with 2 Round Flapper Pads	\$69.00
19239-60545	Valve	Valve Assembly - for CO2 Cryogenic or Cryo Blast Cooling	\$254.00
19239-65507	Valve	Valve Assembly - for N2 Cryo Blast Cooling	\$413.00
19239-65517	Valve	Valve Assembly - for N2 Cryogenic Cooling	\$329.00

Packed Column Inlet

19243-80500	Base	Inlet Base Structure (Heated Block Weldment) - Main Body	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
19243-60500	Hardware	Septum Nut Assembly - Screws on Top of Inlet	\$59.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8728	Septa	3/8 Inch Gray Septa - for the Packed Column Inlet (24/Pkg)	\$30.00

Septum-Purged Inlet

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19243-80560	Base	Inlet Base Structure (Base Weldment)	\$318.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
5080-8732	Liner	Glass Liner - for the Septum-Purged Inlet (25/Pkg)	\$34.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
31-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
0-8856	Septa	11mm Gray Septa - for the Septum-Purged Inlet (24/Pkg)	\$30.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

Split-Only Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00

Split/Splitless Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
10-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
18740-80200	Liner	1.5mm ID Liner (Quartz) - for Direct [Splitless] Operation	\$17.00
18740-80220	Liner	2mm ID Liner (Quartz) - for Splitless Operation	\$27.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool -	\$26.00

19320-60656	Pressure Gauge	Generally Used for Split Operation	
19246-60530	Regulator	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60570	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19231-60660	Sensor	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
		PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00

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5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only	\$65.00
19251-60560	Valve	Capillary Inlets (144/Pkg)	
		Solenoid Valve Assy (with Cable) - for Inlet Flow Control	\$159.00

## TCD Detector Assembly

19232-80550	Adapter	TCD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$97.00
19232-60676	Cell	Replacement TCD Cell Assembly	\$895.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19232-60020	PC Board	TCD Detector Board	\$413.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19232-60660	Sensor	PRT 'Delta-T Sensor' Assembly (ONLY) - Includes Cable	\$61.00
19232-60725	Valve	Solenoid Switching Valve - for TCD Detector	\$217.00

## TCD Flow Manifold

19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19232-60680	Flow Manifold	TCD Flow Manifold Assembly - Controls Gas Flow to the	\$445.00
		Detector - Does NOT Include Gas Lines, Gas Fitting Plate, or	
		Input Gas Line Fittings	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00
19232-60610	Restrictor	Restrictor (Black) - for 'Make-Up Gas' on Flow Manifold	\$14.00
19232-60650	Restrictor	Restrictor (Yellow) - for 'TCD Reference' on Flow Manifold	\$10.30
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (2 Used)	\$95.00

## Valve Box Assembly

19358-20520	Block	Heated Block - Interior 'Block' of Valve Box (2 Used)	\$43.45
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly	\$1.65
		(2 Used Per Valve)	
0380-1102	Hardware	Threaded Hex Standoff (4 Used for Each Heated Block)	\$ .95
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$ .30
0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$297.00

\* = Exchange Part

= Call (800) 227-8164 for volume discount

HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP GAS CHROMATOGRAPH

(6890A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	#	LIST PRICE	EXCHANGE PRICE
<b>ECD Detector Assembly</b>					
19233-67010	Anode/Ferrule/Nut	Anode/Ferrule/Nut Assembly (Specific License Required) - (L-Shaped) Mounts in the Top of the ECD Assembly		\$127.00	
19233-20515	Base	Base Structure (Lower Heated Block) - of the ECD Detector		\$77.00	
G1533-80576	ECD Assembly	ECD Assembly Replacement (General License)		\$1,640.00	
G1533-60660	ECD Assembly	ECD Assembly Replacement (Specific License)		\$1,640.00	
G1533-60730	ECD Assembly	ECD Assembly Replacement - For Sale in Japan ONLY		\$1,800.00	
* G1533-69576	ECD Assembly	ECD Assembly Replacement (General License)		\$1,640.00	\$843.00
* G1533-69660	ECD Assembly	ECD Assembly Replacement (Specific License)		\$1,640.00	\$843.00
* G1533-69730	ECD Assembly	ECD Assembly Replacement - For Sale in Japan ONLY		\$1,800.00	\$875.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Detector Assembly (2/Pkg)		\$24.00	
G1533-60625	Heater/Sensor	ECD Heater/Sensor Assembly - Includes the Heater, PRT Sensor and Cable		\$82.00	
19233-60635	Interconnect	Signal Interconnect Lead - from ECD Detector to PC Board		\$19.10	
G1533-60520	Module	EPC Control Module Assembly - for the ECD Detector		\$1,170.00	
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)		\$12.00	
G1533-60010	PC Board	ECD Signal Board - Does NOT Include the Interconnect Assy		\$239.00	
G1533-60020	PC Board	ECD Interface Board - Connects to Cable the from the ECD Signal Board		\$117.00	
G1531-60610	Valve	EPC Control Valve - Mounts in the ECD Detector Flow Manifold Assembly (2 Used)		\$205.00	
G1533-80565	Weldment	Make-Up Gas Adapter Weldment - Attaches to the Bottom of the ECD Detector Assembly		\$154.00	
<b>FID Detector Assembly</b>					
G1531-80580	Base	Base Structure (Heated Block Weldment) - Main Body of the Detector - for Use with Packed Columns ONLY		\$307.00	
G1531-80630	Base	Base Structure (Heated Block Weldment) - Main Body of the Detector - for Use with Capillary Columns ONLY		\$286.00	
G1531-60690	Collector	FID Collector Assembly - Top Half of the FID Detector		\$164.00	
G1531-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and the Cable - Mounts in the Base (Weldment) Assembly		\$87.00	
G1531-60680	Ignitor	Ignitor (Glow Plug) - Screws into the Side of the FID Collector Assembly		\$34.00	
G1531-60710	Interconnect	Signal Interconnect Assembly - from FID Detector to Signal Board - Note: PC Board and Shield/Case NOT Included		\$122.00	
18710-20119	Jet	Jet (for FID's with a Packed Column Base ONLY) - for Packed Columns - 0.018in ID		\$42.00	
19244-80560	Jet	Jet (for FID's with a Packed Column Base ONLY) - for Capillary Columns - 0.011in ID		\$50.00	
19244-80620	Jet	High Temp Jet (for FID's with a Packed Column Base ONLY) - for Simulated Distillation - 0.018in ID		\$29.00	
G1531-80560	Jet	Jet (For FID's with a Capillary Only Base) - for Fused		\$37.00	
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G1531-80620	Jet	Silica/530um Capillaries - 0.011in ID High Temp Jet (For FID's with a Capillary Only Base) - 0.018in ID		\$27.00	
G1531-60520	Module	EPC Control Module Assembly - for the FID Detector		\$1,590.00	
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)		\$12.00	
G1531-60010	PC Board	FID Signal Board - Does NOT Include the Interconnect Assy		\$276.00	
G1531-60020	PC Board	FID Interface Board - Connects to Cable the from the FID Signal Board		\$103.00	
G1531-60610	Valve	EPC Control Valve - Mounts in the FID Detector Flow Manifold Assembly (3 Used)		\$205.00	
<b>GC Mainframe Case Parts</b>					
G1530-00470	Cover	Detector Pneumatics RFI Cover/Shield - Mounts on the Top Right Rear of the Mainframe		\$38.20	
G1530-40040	Cover	Pneumatics Cover (Plastic) - Mounts on the Top Rear of the Mainframe		\$31.00	
G1530-40050	Cover	Left Side Cover (Plastic)		\$41.30	
G1530-40070	Cover	Injection Port Cover (Plastic) - Rectangular Cover with Two Large Hole for the Injection Ports		\$38.20	
G1530-40115	Cover	Right Side Cover (Plastic) - Covers the GC Electronics		\$43.50	
G1530-40125	Cover	Electronics Top Cover (Plastic) - Rectangular Top Cover on the Right Side of the Mainframe		\$19.10	
G1530-40130	Cover	Detector Cover (Plastic) - Large Cover in the Top Center of the Mainframe		\$39.20	
G1530-40200	Cover	Injection Port Fan Cover (L-Shaped) - Small Plastic Cover Towards the Left Rear of the Mainframe		\$11.50	

19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00	
G1530-00035	Panel	Lower Rear Panel - Covers the Rear of the Oven Compartment	\$46.65	
G1530-00220	Panel	Upper Rear Panel - Covers the Detector Pneumatics	\$39.20	
<b>GC Mainframe Electronics</b>				
2110-0036	Fuse	Fuse (Glass) - 8A, 250V - (for All Voltages) - Mounts on the AC Power Board Towards the End (2 Used)	\$1.10	
2110-0098	Fuse	Fuse (Ceramic) - 20A, 250V - for 120V Operation - Mounts on the AC Power Board Towards the Center (2 Used)	\$1.00	
2110-0054	Fuse	Fuse (Ceramic) - 15A, 250V - for 200V to 240V Operation - Mounts on the AC Power Board Towards the Center (2 Used)	\$ .95	
G1530-61701	IC ROM	ROM Set (Revision A.03.02) - Mounts on the the Main PC Board	\$72.50	
G1530-60010	PC Board	Main Board Assembly - Does NOT Include ROM's	\$1,540.00	
G1530-60050	PC Board	AC Power Board (Includes the Power Switch) - Mounts in the AC Power Supply Assembly	\$249.00	
* G1530-69010	PC Board	Main Board Assembly - Does NOT Include ROM's	\$1,540.00	\$610.00
G1530-60690	Plug	Line Voltage Configuration Plug - for 120V Operation	\$14.00	
G1530-60700	Plug	Line Voltage Configuration Plug - for 200V Operation	\$13.30	
G1530-60710	Plug	Line Voltage Configuration Plug - for 220V Operation	\$13.30	
G1530-60720	Plug	Line Voltage Configuration Plug - for 230V Operation	\$12.20	
G1530-60730	Plug	Line Voltage Configuration Plug - for 240V Operation	\$12.20	
G1530-60870	Power Cord	Power Cable Assembly - for 120V Operation in USA/Canada	\$35.00	
G1530-60880	Power Cord	Power Cable Assy - for 220V Operation in Continental Europe	\$44.50	
G1530-60885	Power Cord	Power Cable Assy - for 230V Operation in Continental Europe	\$44.50	
G1530-60890	Power Cord	Power Cable Assembly - for 240V Operation in the U.K.	\$101.00	
G1530-60900	Power Cord	Power Cable Assembly - for 240V Operation in USA/Canada	\$79.50	
G1530-60910	Power Cord	Power Cable Assembly - for 240V Operation in Australia	\$76.90	
G1530-60920	Power Cord	Power Cable Assembly - for 220V Operation in Japan	\$84.00	
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G1530-67500	Power Cord	Power Cable Assy - for 230V, 10A Operation in Switzerland	\$55.70	
G1530-67501	Power Cord	Power Cable Assy - for 240V Operation in South Africa/India	\$95.40	
G1530-67502	Power Cord	Power Cable Assembly - for 230V, 10A Operation in Denmark	\$61.00	
G1530-67503	Power Cord	Power Cable Assembly - for 230V, 16A Operation in Denmark/Switzerland	\$90.10	
G1530-67505	Power Cord	Power Cable Assembly - for 220V Operation in Hong Kong	\$101.00	
G1530-67506	Power Cord	Power Cable Assembly - for 220V Operation in China	\$76.90	
G1530-40010	Rod	Push Rod - for the Power Switch	\$9.00	
G1530-60970	Transformer	Universal Power Transformer Assembly (for all Countries)	\$297.00	
<b>Interconnecting Cables</b>				
03396-61010	Cable	APG Remote Cable - 9 Pin (M) to 15 Pin (M) - to Connect to a 3395B or 3396C Integrator	\$64.00	
03396-61020	Cable	APG Remote Cable - 9 Pin (M) to 15 Pin (M) - to Connect to a 3395A or 3396B Integrator	\$64.00	
35900-60670	Cable	General Purpose APG Remote Cable - 9 Pin (M) to Spade Lugs	\$92.20	
G1530-60560	Cable	General Purpose Analog Cable - 6 Pin (M) to Spade Lugs	\$53.00	
G1530-60570	Cable	Analog Cable - 6 Pin (M) to 3 Pin (F) (2M) - to Connect to a 3395A/B or 3396B/C Integrator	\$45.00	
G1530-60590	Cable	External Event Cable - 8 Pin (M) to Spade Lugs	\$39.00	
G1530-60630	Cable	General Purpose BCD Cable - 15 Pin (M) to Unterminated	\$26.50	
G1530-60930	Cable	APG Remote Cable - 9 Pin (M) to 9 Pin (M) - 2m	\$45.00	
10833A	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 1.0m	\$90.00	
10833B	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 2.0m	\$100.00	
10833C	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 4.0m	\$110.00	
10833D	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 0.5m	\$90.00	
24542H	Cable (Interface)	RS-232C Modem Cable - 9 Pin (F) to 25 Pin (M) - 3.0m	\$45.00	
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75	
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50	
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00	
G1530-60600	Cable (Interface)	RS-232C Interface Cable - 9 Pin (F) to 9 Pin (F) (2m) - to Connect to an Automatic Liquid Sampler	\$45.00	
G1530-61120	Cable (Interface)	Modem Cable - 9 Pin (M) to 9 Pin (F)	\$54.00	
<b>Manual Flow Manifold</b>				
05090-00810	Bracket	Chemical Trap Bracket - Mounts in the Manual Inlet Flow	\$21.20	
<b>Manuals, Tools &amp; Supplies</b>				
G1530-80160	CD ROM	6890 Series Gas Chromatograph Service Information CD ROM	\$51.00	
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00	
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00	
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00	
G1530-60960	Kit	EPC Pneumatic Leak Test Kit - Includes: Inlet Jumper Block, Detector Plug Block, Jet Plug, Module Extender Cable, Vespel Plugs, O-Rings, Capillary Column Nuts, and Swagelok Nuts	\$403.00	
G1530-61380	Manual	6890 Series Gas Chromatograph User's Manual Kit	\$67.00	
G1530-61500	Manual	6890 Series Gas Chromatograph Service Manual	\$94.00	
<b>NPD Detector Assembly</b>				
G1534-80500	Base	Base Structure (Heated Block Weldment) - Main Body of the NPD Detector - for Use with Capillary Columns ONLY	\$339.00	
G1534-60600	Cable	NPD Detector Power Cable Assembly - Attaches to the BNC	\$42.40	

## Connector (at the Top of the Detector)

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G1531-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and the Cable - Mounts in the Base (Weldment) Assembly	\$87.00
G1534-60610	Interconnect	Signal Interconnect Assembly - from NPD Detector to Signal Board - Note: PC Board and Shield/Case NOT Included	\$100.00
19244-80560	Jet	Jet (for NPD's with a Packed Column Base ONLY) - for Capillary Columns - 0.011in ID	\$50.00
G1531-80560	Jet	Jet (For NPD's with a Capillary Only Base) - for Fused Silica Capillaries - 0.011in ID	\$37.00
G1534-60520	Module	EPC Control Module Assembly - for the NPD Detector	\$1,590.00
G1534-60570	NPD Bead Assembly	NPD Bead Assembly (Includes Female BNC Connector) - Mounts to the Top of the NPD Detector Assembly	\$261.00
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)	\$12.00
G1534-60010	PC Board	NPD Signal Board - Does NOT Include the Interconnect Assy	\$228.00
G1534-60020	PC Board	NPD Interface Board - Connects to Cable the from the NPD Signal Board	\$265.00
G1531-60610	Valve	EPC Control Valve - Mounts in the NPD Detector Flow Manifold Assembly (3 Used)	\$205.00

## Oven Compartment Assembly

05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
G1530-60815	Door	Oven Compartment Door Assembly	\$498.00
G1530-61610	Heater	Oven Heater Shroud Assembly (for 120V Operation in USA/Canada) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61620	Heater	Oven Heater Shroud Assembly (for 200V Operation in Japan) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61630	Heater	Oven Heater Shroud Assembly (for 220V Single Phase Operation in Europe/Hong Kong/China) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61640	Heater	Oven Heater Shroud Assembly (for 240V Operation in USA/Canada/Great Britain/Ireland/South Africa/India/Australia) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61650	Heater	Oven Heater Shroud Assembly (for 230V Operation in Continental Europe/Denmark/Switzerland/Italy HSC Power) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-60940	Motor	Drive Motor - Connects to the Flapper Shaft Assembly (on the Rear of the Oven Compartment)	\$74.00
G1530-61310	Motor	Oven Fan Motor (For all Countries) - Includes Motor, Starting Capacitor, and Cable	\$164.00
G1530-80560	Shaft	Oven Flapper Shaft Assembly - with 2 Round Flapper Pads	\$51.90

## PCOC Capillary Inlet

G1545-80507	Base	Inlet Base (Weldment) - Main Structure for the PCOC Capillary Inlet Assembly	\$186.00
G1543-20510	Fitting	Inlet Supply Fitting - Attaches to the Right End of the Inlet EPC Pneumatic Manifold Module Assembly	\$55.00
19245-80521	Hardware	Septum Nut Base Assembly - Mounts on Top of the PCOC Capillary Inlet	\$50.90
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Capillary Inlet Assembly (2/Pkg)	\$24.00
G1545-80520	Hardware	530um Septum Nut Base Assembly - Attaches to the Top of the PCOC Capillary Inlet	\$52.00
19245-20580	Insert	Capillary Insert - for Megabore (530um) Columns - Has NO Silver Rings	\$45.00
19245-20510	Insert	Capillary Insert - for Narrow Bore (200um) Columns -	\$74.00

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19245-20550	Insert	Identified by 1 Silver Ring Capillary Insert - for Glass Columns - Identified by 3 Silver Rings	\$39.00
19245-20780	Insert	Capillary Insert - for Aluminum Columns - Identified by 4 Silver Rings	\$35.00
19245-20525	Insert	Capillary Insert - for Wide Bore (320um) Columns - Identified by 5 Silver Rings	\$64.00
19245-20515	Insert	Capillary Insert - for Medium Bore (250um) Columns - Identified by 6 Silver Rings	\$88.00
G1545-60500	Manifold	PCOC Capillary Inlet EPC Pneumatic Module Assembly	\$1,350.00
5181-1260	Septa	5mm Septa (with Molded Thru Hole) - for the PCOC Capillary Inlet (25/Pkg)	\$26.00
5181-1261	Septa	5mm Solid Septa - for the PCOC Capillary Inlet (25/Pkg)	\$26.00
19245-60760	Spring	Insert Spring - Goes Between the Septa and the Insert (on the PCOC Capillary Inlet)	\$7.00
G1531-60610	Valve	EPC Proportional Valve - Mounts in the Inlet EPC Pneumatic Module Assembly	\$285.00

## Purged/Packed Inlet

G1543-80580	Base	Inlet Base Structure (Weldment) - Includes the Two Gas Lines - Main Body of the Purged/Packed Inlet	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control - for the Purged/Packed Inlet Manual Control Flow Module	\$227.00

5080-8774	Ferrule	Vespeal Ferrule - for Seal Between the Glass Liner and the Bottom of the Purged/Packed Inlet Base Assembly (10/Pkg)	\$39.00
G1543-20510	Fitting	Inlet Supply Fitting - Attaches to the Right End of the Inlet EPC Pneumatic Manifold Module Assembly	\$55.00
18740-60835	Hardware	'Septa' Retainer Nut - Screws on the Top Inlet Weldment	\$35.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Capillary Inlet Assembly (2/Pkg)	\$24.00
G1543-61540	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$79.50
19244-80540	Liner	530um Column Liner - Goes in the Purged/Packed Inlet Base (Weldment) Assembly	\$100.00
5080-8732	Liner	Glass Liner - for the Purged/Packed Inlet (25/Pkg)	\$34.00
G1543-60500	Manifold	Purged/Packed Inlet EPC Pneumatic Module Assembly	\$1,220.00
19243-60650	Regulator	Septum Purge Regulator - for the Purged/Packed Inlet Manual Control Flow Module	\$159.00
5182-8739	Septa	11mm High Temperature, Low Bleed Septa - for the Purged/Packed Inlet (50/Pkg)	\$63.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

## Split/Splitless Inlet

G1544-80570	Base	Inlet Base Structure (Shell Weldment) - Main Body of the Split/Splitless Capillary Inlet	\$138.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) (for Inlet Flow Control) - in the Split/Splitless Manual Control Flow Module	\$227.00
G1543-20510	Fitting	Inlet Supply Fitting - Attaches to the Right End of the Inlet EPC Pneumatic Manifold Module Assembly	\$55.00
18740-20800	Hardware	Reducing Nut - Screws on Thermal Nut - on Bottom of Inlet	\$30.00
18740-60835	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$35.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Capillary Inlet Assembly (2/Pkg)	\$24.00
G1544-20590	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$21.00
G1544-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$82.00
G1544-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$184.00

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19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
5062-3587	Liner	4mm ID Single Taper Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Splitless Operation	\$34.00
5181-3315	Liner	4mm ID Liner Double Taper (Borosilicate) - No Packing - for Splitless Operation ONLY	\$34.00
5181-3316	Liner	4mm ID Liner Single Taper (Borosilicate) - No Packing - for Splitless Operation ONLY	\$31.00
5181-8818	Liner	2mm ID Liner (Quartz) - for Splitless Operation ONLY	\$30.00
G1544-60500	Manifold	Split/Splitless Inlet EPC Pneumatic Module Assembly	\$1,480.00
19246-60530	Regulator	Purge Pressure Regulator (for Inlet Flow Control) - in the Split/Splitless Manual Control Flow Module	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) (for Inlet Flow Control) - in the Split/Splitless Manual Control Flow Module	\$144.00
18740-20800	Seal	Lower Inlet Seal (Stainless Steel) - Mounts Between the Thermal Nut and the Reducing Nut	\$24.00
18740-20805	Seal	Lower Inlet Seal (Gold Plated) - Mounts Between the Thermal Nut and the Reducing Nut	\$30.00
5181-1263	Septa	11mm Gray Septa (Solid) - for the Split/Splitless Capillary Inlet (25/Pkg)	\$26.00
G1531-60610	Valve	EPC Proportional Valve - Mounts in the Inlet EPC Pneumatic Module Assembly (2 Used)	\$285.00
G1544-60580	Valve	Split Vent On/Off Valve - Mounts in the Inlet EPC Pneumatic Module Assembly	\$181.00
G1544-60560	Valve	Solenoid Valve Assembly (24V DC) - 3 Way Valve in the Split/Splitless Inlet Manual Control Flow Module	\$111.00

## TCD Detector Assembly

G1532-60675	Cell	Replacement TCD Cell Assembly	\$842.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Detector Assembly (2/Pkg)	\$24.00
G1531-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and the Cable - Mounts in the Cell Assembly	\$87.00
G1532-60520	Module	EPC Control Module Assembly - for the TCD Detector	\$1,330.00
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)	\$12.00
G1532-60010	PC Board	TCD Detector Signal Board	\$329.00
G1531-60610	Valve	EPC Control Valve - Mounts in the TCD Detector Flow Manifold Assembly (3 Used)	\$205.00

## Valve Box Assembly

G1580-20520	Block	Heated Block - Interior 'Block' for the Valve Box (2 Used)	\$24.40
G1580-00030	Cover	Top Cover - for the Valve Box Assembly	\$33.90
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly	\$1.65
G1580-20500	Hardware	Standoff - Supports the Top Cover of the Valve Box (2 Used)	\$14.30
G1580-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and Cable - Mounts in the Valve Box Heated Blocks (2 Used)	\$77.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$3.00

0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1400-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$593.00

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\* = Exchange Part  
# = Call (800) 227-8164 for volume discount

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## Europe (Including Denmark &amp; Switzerland)/Europe Split-Phase

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05890-61000	Transformer	Power Transformer Assembly - for 240V Operation in USA/ Canada/Australia/South Africa	\$228.00
<b>Interconnecting Cables</b>			
05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00
05890-60780	Cable	Analog Signal Cable - to HP 3388A Integrator - 2m	\$85.00
05890-60790	Cable	Analog Signal Cable - to HP 3350 Series Lab System - 2m	\$122.00
05890-60800	Cable	Analog Signal Cable - General Purpose (Spade Lugs) - 2m	\$106.00
05890-61050	Cable	Remote Start/Stop Cable - to HP 3390A Integrator - 2m	\$93.00
05890-61060	Cable	Remote Start/Stop Cable - to HP 3392/93A Integrator - 2m	\$101.00
05890-61070	Cable	Remote Start/Stop Cable - to HP 3350 Series Lab System - 2m	\$101.00
05890-61080	Cable	Remote Start/Stop Cable - General Purpose (Spade Lugs) - 2m	\$122.00
05890-61160	Cable	Remote Start/Stop Cable - to HP 18652A Interface Module - 2m	\$127.00
05890-61170	Cable	Remote Start/Stop Cable - to HP 3388A Integrator - 2m	\$127.00
05890-61180	Cable	Remote Start/Stop Cable - to HP 18762A Sample Cntrlr - 2m	\$65.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

8710-1346	Brush	Cleaning Brush - for the FID Collector (Set of 2)	\$8.00
9301-0985	Cleaning Kit	Cleaning Kit - for Flame Detectors	\$32.00
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00
05890-61400	Manual	5890A Series II Operating Manual Kit (German)	\$177.00
05890-61410	Manual	5090A Series II Operating Manual Kit (French)	\$177.00
05890-61420	Manual	5890A Series II Operating Manual Kit (Italian)	\$177.00
05890-61430	Manual	5890A Series II Operating Manual Kit (Spanish)	\$177.00
05890-90320	Manual	5890A Series II Service Manual	\$224.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19251-00100	Tool	Septa Wrench - for Ease in Removing Septum Retainer Nut	\$24.00
19301-00150	Tool	FID Wrench - for Removing Retainer Nut	\$8.00
H2603-90006	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS)	\$195.00
H2603-90007	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS)	\$95.00
H2603-90008	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS) (in Spanish)	\$95.00
H2603-90009	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS) (in Spanish)	\$95.00

## NPD Detector Assembly

19231-60580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00
19234-60510	Body	Body Assy - Connects to Toroid Assy - on Top of Detector	\$106.00
19234-60540	Collector	Collector Assembly - Center 'Core' of Detector	\$131.00
19234-20610	Contact	Upper Contact - for Toroid Assy - on Top of Detector	\$75.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19231-60710	Interconnect	Signal Interconnect Assy - from NPD Detector to PC Board	\$90.00
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00
19244-80580	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00
19234-60012	PC Board	NPD Detector Board	\$557.00

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5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19234-60580	Toroid	Toroid Assy (ONLY) - Connects to Detector Contact and Body	\$223.00
19234-60750	Toroid/Spacer	Toroid/Spacer Assembly - Includes Cable	\$164.00

## NPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19234-60650	Flow Manifold	NPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$413.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19234-60600	Restrictor	Restrictor (Green and Brown) - for 'Air' on Flow Manifold	\$20.10
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90
19231-20530	Valve	'Plug' Valve - for Flow Manifold (1 Used)	\$15.40
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

## Oven Compartment Assembly

05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
19245-60510	Fan	Inlet Cooling Fan - Mounts Under Fan Shroud in Inlet Area (on Top of Oven Compartment)	\$42.40



05890-61615	Heater	Oven Heater Shroud Assy (120V) - has Element, Plate, & Cable	\$154.00
05890-61625	Heater	Oven Heater Shroud Assy (200V) - has Element, Plate, & Cable	\$154.00
05890-61635	Heater	Oven Heater Shroud Assy (220V) - has Element, Plate, & Cable	\$154.00
05890-61645	Heater	Oven Heater Shroud Assy (230V) - has Element, Plate, & Cable	\$154.00
05890-61655	Heater	Oven Heater Shroud Assy (240V) - has Element, Plate, & Cable	\$154.00
19239-20550	Insulation Kit	Sound Insulation Kit (Includes all Five Pieces) - for any of the Cryogenic Valves in the Oven Compartment	\$63.60
05890-60940	Motor	Stepper Motor - for Oven Flap Assembly	\$90.00
05890-67020	Motor	Oven Fan Motor Replacement Kit - for 120V Operation	\$212.00
05890-67030	Motor	Oven Fan Motor Replacement Kit - for 200V to 240V Operation	\$249.00
19239-80505	Nozzle	CO2 Cryogenic Nozzle	\$55.65
19239-80535	Nozzle	N2 Cryo Blast Nozzle	\$111.00
19245-80550	Nozzle	CO2 Cryo Blast Nozzle	\$79.50
19310-28500	Nozzle	N2 Cryogenic Nozzle	\$38.20
05890-61030	Sensor	Oven Sensor Assembly - Mounts on Heater Shroud	\$98.00
05890-80560	Shaft	Oven Flap Shaft Assembly - with 2 Round Flapper Pads	\$69.00
19239-60545	Valve	Valve Assembly - for CO2 Cryogenic or Cryo Blast Cooling	\$254.00
19239-65507	Valve	Valve Assembly - for N2 Cryo Blast Cooling.	\$413.00
19239-65517	Valve	Valve Assembly - for N2 Cryogenic Cooling	\$329.00

Packed Column Inlet

19243-80500	Base	Inlet Base Structure (Heated Block Weldment) - Main Body	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
19243-60500	Hardware	Septum Nut Assembly - Screws on Top of Inlet	\$59.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8728	Septa	3/8 Inch Gray Septa - for the Packed Column Inlet (24/Pkg)	\$30.00

Septum-Purged Inlet

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19243-80560	Base	Inlet Base Structure (Base Weldment)	\$318.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
5080-8732	Liner	Glass Liner - for the Septum-Purged Inlet (25/Pkg)	\$34.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8896	Septa	11mm Gray Septa - for the Septum-Purged Inlet (24/Pkg)	\$30.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

Split-Only Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Cntrl	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for =	\$46.00
		Split-Packed Operation	
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for =	\$41.00
		Split-Unpacked Operation	
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - =	\$26.00
		Generally Used for Split Operation	
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00

Split/Splitless Inlet

19251-30570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Cntrl	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for =	\$46.00
		Split-Packed Operation	
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for =	\$41.00
		Split-Unpacked Operation	
18740-80200	Liner	1.5mm ID Liner (Quartz) - for Direct (Splitless) Operation =	\$17.00
18740-80220	Liner	2mm ID Liner (Quartz) - for Splitless Operation =	\$27.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - =	\$26.00

		Generally Used for Split Operation	
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00

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5000-8094	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00
19251-60560	Valve	Solenoid Valve Assy (with Cable) - for Inlet Flow Control	\$159.00

## TCD Detector Assembly

19232-80550	Adapter	TCD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$97.00
19232-60676	Cell	Replacement TCD Cell Assembly	\$895.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19232-60020	PC Board	TCD Detector Board	\$413.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19232-60660	Sensor	PRT 'Delta-T Sensor' Assembly (ONLY) - Includes Cable	\$61.00
19232-60725	Valve	Solenoid Switching Valve - for TCD Detector	\$217.00

## TCD Flow Manifold

19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19232-60680	Flow Manifold	TCD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines, Gas Fitting Plate, or Input Gas Line Fittings	\$445.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00
19232-60610	Restrictor	Restrictor (Black) - for 'Make-Up Gas' on Flow Manifold	\$14.80
19232-60650	Restrictor	Restrictor (Yellow) - for 'TCD Reference' on Flow Manifold	\$10.30
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (2 Used)	\$95.00

## Valve Box Assembly

19358-20520	Block	Heated Block - Interior 'Block' of Valve Box (2 Used)	\$43.45
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly (2 Used Per Valve)	\$1.65
0380-1102	Hardware	Threaded Hex Standoff (4 Used for Each Heated Block)	\$ .95
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$ .30
0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$593.00

\* = Exchange Part

\*\* = Call (800) 227-8164 for volume discount

## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP CHROMATOGRAPHS

## HP GAS CHROMATOGRAPH

(5890A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>ECD Detector Assembly</b>				
19233-80565	Adapter	ECD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$177.00	
19233-80510	Base	Base Structure (Heated Block Weldment) - of ECD Detector	\$111.00	
19233-89570	ECD Assembly	ECD Assembly Replacement (General License)	\$940.00	
19235-69530	ECD Assembly	ECD Assembly Replacement (Specific License)	\$940.00	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19233-60600	Interconnect	Signal Interconnect Assy - from ECD Detector to PC Board	\$101.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>ECD Flow Manifold</b>				
19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19233-60610	Flow Manifold	ECD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$286.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00	
<b>FID Detector Assembly</b>				
19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00	
19231-60690	Collector	FID Collector Assembly - Top Half of Detector	\$177.00	
19231-60025	Diode Bridge	Diode Bridge/Cable Assembly - Attaches to Ignitor Assembly	\$44.50	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19231-60680	Ignitor	Ignitor (Glow Plug) Assy - Screws into Collector Assy	\$36.00	
19231-60710	Interconnect	Signal Interconnect Assy - from FID Detector to PC Board	\$90.00	
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00	
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00	
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00	
19231-60010	PC Board	FID Detector Board	\$477.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>FID Flow Manifold</b>				
19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19231-60750	Flow Manifold	FID Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$445.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00	
19231-60610	Restrictor	Restrictor (Brown) - for 'Air' on Flow Manifold	\$10.60	
19231-60770	Restrictor	Restrictor (Red) - for 'Hydrogen' on Flow Manifold	\$15.40	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90	
19231-28540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20	
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00	
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<b>FPD Detector Assembly</b>				
19256-80000	Filter	393nm Filter - for Sulfur	\$293.00	
19256-80010	Filter	525nm Filter - for Phosphorus	\$293.00	
0854-0141	Glow Plug	Glow Plug (1.5V) - Screws in to the Left Side of the Block Weldment	\$19.00	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
19256-60540	Heater	Heater Assembly - for Lower Heated Block on Detector	\$159.00	
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19256-60590	Liner/Ferrule	Gigabore Liner and Ferrule - Mounts in the Transfer Tube (in the Lower Heated Block)	\$69.00	
19256-60010	PC Board	FPD Detector Board	\$583.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - for Upper Heated Block	\$82.00	
19256-20730	Tube	Drip Tube (Rubber) - Attaches to the Exit Tube (at the Top of the Block Weldment)	\$31.00	
19256-60510	Tube	Photo-Multiplier Tube (PMT) Assy - with Tube Body & End Cap	\$1,700.00	
61535-80050	Tube	Photo-Multiplier Tube (PMT) (ONLY)	\$600.00	
19256-80030	Window	First Heat Shield Window - Between the Heat Shield Disk (Behind the Stainless Steel Coupling) and the Block Weldment	\$30.00	
19256-80060	Window	Second Heat Shield Window - Between the Flange Adapter and the Stainless Steel Coupling	\$31.00	
<b>FPD Flow Manifold</b>				
19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19256-60630	Flow Manifold	FPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$466.00	



5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

GC Mainframe Case Parts

05890-00390	Cover	Rear Cover - also Covers Back Top Half of Oven (L-Shaped)	\$103.00
05890-40120	Cover	Right Side Top Cover (L-Shaped) - Over Electronics Area	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
05890-40130	Door	Left Side (Flow) Panel Door	\$29.70
05890-40100	Panel	Left Side (Flow) Panel	\$77.00
05890-40110	Panel	Right Side (Electronics) Panel	\$69.00

GC Mainframe Electronics

05890-61340	Cable	Extender Cable - for Connecting the New Style (System II) Main Board in Older 5890A's (Serial Number Prefix <= 2916A)	\$58.00
19257-60500	Cable	Dual Interface Cable - from Communications Bd to Rear Panel	\$14.30
05890-40080	Connector	Connector Body - Supports the Connector Element Between the Keyboard Bezel and the Display PC Board	\$8.20
1252-5289	Connector	Connector Element (Elastomeric) - Interconnects the Keyboard Bezel Assembly and the Display PC Board	\$7.25
2110-0054	Fuse	Fuse - 15A, 250V - F1 on 05890-60060 and F3/F4 on 05890-60070 AC Power Supply Boards	\$ .95
2110-0098	Fuse	Fuse - 20A, 250V - F1 on 05890-60050 AC Power Supply Board	\$1.00
2110-0422	Fuse	Fuse - 6.25A, 250V - F2 on 05890-60050 or 05890-60060 and F1/F2 on 05890-60070 AC Power Supply Boards	\$ .95

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05890-80220	IC ROM	EPR0M for Main Board - for Series I ONLY	\$31.80
05890-60740	Keyboard	Keyboard Bezel Assembly - Face Plate with Soft-Touch Keypad - Does NOT Include the Display PC Board	\$148.00
05890-60035	PC Board	Display Board - Includes Display Readout and Ribbon Cable	\$170.00
05890-60050	PC Board	AC Power Supply Board - for 120V Operation in USA/Canada	\$307.00
05890-60060	PC Board	AC Power Supply Board - for 220V/240V Operation in the UK/Europe (Including Denmark and Switzerland)/Australia/China/South Africa	\$297.00
05890-60070	PC Board	AC Power Supply Board - for 200V/220V/240V Operation in USA/Canada/Japan/220V Split-Phase in Europe	\$339.00
* 05890-69015	PC Board	Main Board (Works in Both Series I and II GC's) - Must Also Order EPROM (IC ROM) - Note: if Updating to a New Board and Serial Number Prefix is <= 2916A Also Order Extender Cable INET Communications Board (Buffered)	\$690.00
19242-60015	PC Board	RS-232C Communications Board	\$392.00
19242-60030	PC Board	RS-232C Communications Board	\$519.00
19257-60015	PC Board	RS-232C/HP-IB Dual Interface Communications Board	\$260.00
19257-60020	PC Board	Dual Interface (RS-232C/HP-IB) Rear Panel Connector Board	\$244.00
19261-60010	PC Board	Analog Input Communications Board	\$339.00
05890-60870	Power Cord	Power Cord (Hard Wired) - for 120V Operation in USA/Canada	\$26.50
05890-60880	Power Cord	Power Cord (Hard Wired) - for 220V Operation in European Countries (Including Denmark and Switzerland)	\$63.60
05890-60890	Power Cord	Power Cord (Hard Wired) - for 220V/240V Operation in the UK/South Africa	\$138.00
05890-60900	Power Cord	Power Cord (Hard Wired) - for 240V Operation in USA/Canada	\$180.00
05890-60910	Power Cord	Power Cord (Hard Wired) - for 240V Operation in Australia/New Zealand/China	\$111.00
05890-60920	Power Cord	Power Cord (Hard Wired) - for 200V Operation in Japan	\$186.00
05890-60960	Power Cord	Power Cord (Hard Wired) - for 220V Split-Phase Operation in European Countries	\$55.70
3101-0402	Switch	Power Switch - Mounts on Lower Right Side	\$8.00
05890-60970	Transformer	Power Transformer Assy - for 120V Operation in USA/Canada	\$239.00
05890-60980	Transformer	Power Transformer Assembly - for 200V Operation in Japan	\$180.00
05890-60990	Transformer	Power Transformer Assy - for 220V Operation in the UK/China/Europe (Including Denmark & Switzerland)/Europe Split-Phase	\$244.00
05890-61000	Transformer	Power Transformer Assembly - for 240V Operation in USA/Canada/Australia/South Africa	\$228.00

Interconnecting Cables

05890-60760	Cable	Analog Signal Cable - to HP 3390/3397A Integrator - 2m	\$58.00
05890-60780	Cable	Analog Signal Cable - to HP 3388A Integrator - 2m	\$85.00
05890-60790	Cable	Analog Signal Cable - to HP 3350 Series Lab System - 2m	\$122.00
05890-60800	Cable	Analog Signal Cable - General Purpose (Spade Lugs) - 2m	\$106.00
05890-61050	Cable	Remote Start/Stop Cable - to HP 3390A Integrator - 2m	\$93.00
05890-61060	Cable	Remote Start/Stop Cable - to HP 3392/93A Integrator - 2m	\$101.00
05890-61070	Cable	Remote Start/Stop Cable - to HP 3350 Series Lab System - 2m	\$101.00
05890-61080	Cable	Remote Start/Stop Cable - General Purpose (Spade Lugs) - 2m	\$122.00
05890-61160	Cable	Remote Start/Stop Cable - to HP 18652A Interface Module - 2m	\$127.00
05890-61170	Cable	Remote Start/Stop Cable - to HP 3388A Integrator - 2m	\$127.00
05890-61180	Cable	Remote Start/Stop Cable - to HP 18762A Sample Cntrlr - 2m	\$65.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-TI/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

Manuals, Tools & Supplies

8710-1346	Brush	Cleaning Brush - for the FID Collector (Set of 2)	\$8.00
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05890-90100	Card	5890A Quick Reference Card (English)	\$7.00
05890-91100	Card	5890A Quick Reference Card (German)	\$17.00
05890-92100	Card	5890A Quick Reference Card (French)	\$17.00
05890-94100	Card	5890A Quick Reference Card (Spanish)	\$17.00
9301-0985	Cleaning Kit	Cleaning Kit - for Flame Detectors	\$32.00
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00
05890-90110	Manual	5890A Reference Manual (Instruction and Service)	\$208.00
05890-90140	Manual	5890A Accessory Manual	\$11.70
05890-91110	Manual	5890A Reference Manual (Instruction and Service) (German)	\$221.00
05890-92110	Manual	5890A Reference Manual (Instruction and Service) (French)	\$216.00
05890-94110	Manual	5890A Reference Manual (Instruction and Service) (Spanish)	\$216.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19251-80100	Tool	Septa Wrench - for Ease in Removing Septum Retainer Nut	\$24.00
19301-80150	Tool	FID Wrench - for Removing Retainer Nut	\$8.00
H2603-90006	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS)	\$195.00
H2603-90007	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS)	\$95.00
H2603-90008	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS) (in Spanish)	\$95.00
H2603-90009	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS) (in Spanish)	\$95.00

NPD Detector Assembly

19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00
19234-80510	Body	Body Assy - Connects to Toroid Assy - on Top of Detector	\$108.00
19234-60540	Collector	Collector Assembly - Center 'Core' of Detector	\$131.00
19234-20610	Contact	Upper Contact - for Toriod Assy - on Top of Detector	\$75.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$35.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19231-60710	Interconnect	Signal Interconnect Assy - from NPD Detector to PC Board	\$90.00
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00
19234-60012	PC Board	NPD Detector Board	\$557.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19234-60580	Toroid	Toroid Assy (ONLY) - Connects to Detector Contact and Body	\$223.00
19234-60750	Toroid/Spacer	Toroid/Spacer Assembly - Includes Cable	\$164.00

NPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19234-60650	Flow Manifold	NPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$413.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19234-60600	Restrictor	Restrictor (Green and Brown) - for 'Air' on Flow Manifold	\$20.10
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90
19231-20530	Valve	'Plug' Valve - for Flow Manifold (1 Used)	\$15.40
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

Oven Compartment Assembly

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05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
05890-61615	Heater	Oven Heater Shroud Assy (120V) - has Element, Plate, & Cable	\$154.00
05890-61625	Heater	Oven Heater Shroud Assy (200V) - has Element, Plate, & Cable	\$154.00
05890-61635	Heater	Oven Heater Shroud Assy (220V) - has Element, Plate, & Cable	\$154.00
05890-61645	Heater	Oven Heater Shroud Assy (230V) - has Element, Plate, & Cable	\$154.00
05890-61655	Heater	Oven Heater Shroud Assy (240V) - has Element, Plate, & Cable	\$154.00
19239-20550	Insulation Kit	Sound Insulation Kit (Includes all Five Pieces) - for any of the Cryogenic Valves in the Oven Compartment	\$63.60
05890-60940	Motor	Stepper Motor - for Oven Flap Assembly	\$90.00
05890-67020	Motor	Oven Fan Motor Replacement Kit - for 120V Operation	\$212.00
05890-67030	Motor	Oven Fan Motor Replacement Kit - for 200V to 240V Operation	\$249.00
19239-80505	Nozzle	CO2 Cryogenic Nozzle	\$55.65
19239-80535	Nozzle	N2 Cryo Blast Nozzle	\$111.00
19245-80550	Nozzle	CO2 Cryo Blast Nozzle	\$79.50
19310-20500	Nozzle	N2 Cryogenic Nozzle	\$38.20
05890-61030	Sensor	Oven Sensor Assembly - Mounts on Heater Shroud	\$98.00
05890-80560	Shaft	Oven Flap Shaft Assembly - with 2 Round Flapper Pads	\$69.00
19239-80545	Valve	Valve Assembly - for CO2 Cryogenic or Cryo Blast Cooling	\$254.00
19239-85507	Valve	Valve Assembly - for N2 Cryo Blast Cooling	\$413.00
19239-85517	Valve	Valve Assembly - for N2 Cryogenic Cooling	\$329.00

Packed Column Inlet

19243-80500	Base	Inlet Base Structure (Heated Block Weldment) - Main Body	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
19243-60500	Hardware	Septum Nut Assembly - Screws on Top of Inlet	\$59.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8728	Septa	3/8 Inch Gray Septa - for the Packed Column Inlet (24/Pkg)	\$30.00

## Septum-Purged Inlet

19243-80560	Base	Inlet Base Structure (Base Weldment)	\$318.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
5080-8732	Liner	Glass Liner - for the Septum-Purged Inlet (25/Pkg)	\$34.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8896	Septa	11mm Gray Septa - for the Septum-Purged Inlet (24/Pkg)	\$30.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

## Split-Only Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00

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18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00

## Split/Splitless Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
18740-80200	Liner	1.5mm ID Liner (Quartz) - for Direct (Splitless) Operation	\$17.00
18740-80220	Liner	2mm ID Liner (Quartz) - for Splitless Operation	\$27.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00
19251-60560	Valve	Solenoid Valve Assy (with Cable) - for Inlet Flow Control	\$159.00

## TCD Detector Assembly

19232-80550	Adapter	TCD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$97.00
19232-60676	Cell	Replacement TCD Cell Assembly	\$895.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19232-60010	PC Board	TCD Detector Board	\$557.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19232-60660	Sensor	PRT 'Delta-T Sensor' Assembly (ONLY) - Includes Cable	\$61.00
19232-60725	Valve	Solenoid Switching Valve - for TCD Detector	\$217.00

## TCD Flow Manifold

19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19232-60680	Flow Manifold	TCD Flow Manifold Assembly - Controls Gas Flow to the	\$445.00

Detector - Does NOT Include Gas Lines, Gas Fitting Plate, or  
Input Gas Line Fittings

5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00
19232-60610	Restrictor	Restrictor (Black) - for 'Make-Up Gas' on Flow Manifold	\$14.00
19232-60650	Restrictor	Restrictor (Yellow) - for 'TCO Reference' on Flow Manifold	\$10.30

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19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (2 Used)	\$95.00
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## Valve Box Assembly

19358-20520	Block	Heated Block - Interior 'Block' of Valve Box (2 Used)	\$43.45
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly (2 Used Per Valve)	\$1.65
0380-1102	Hardware	Threaded Hex Standoff (4 Used for Each Heated Block)	\$ .95
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$ .30
0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$593.00

\* = Exchange Part

\* = Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP AUTO SAMPLERS

HP AUTO SAMPLER

(7673A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Auto Injector Case Parts</b>				
07673-40075	Cover	Back Cover - for Injector Tower Assembly	\$45.00	
07673-60860	Cover	Front Cover Assy - for Injector Tower - Includes Access Door	\$101.00	
07673-60725	Housing	Electronics Housing Assy - Includes Both Side Covers & Hinge	\$55.65	
07673-40210	Panel	Front Door Panel - for Injector Electronics Housing Assembly	\$40.30	
<b>Auto Injector Electronics</b>				
07673-60690	Cable	Ribbon Cable - from Main Injector Board to Sensor Board	\$37.10	
1820-5925	IC	68000 Processor MCU IC - on Injector Electronics Board	\$32.90	
07673-60620	Motor	Plunger Motor - in Top of Injector Tower Assembly	\$286.00	
07673-60810	Motor	Turret Motor - Rotates Turret Assembly	\$159.00	
07673-60890	Motor	Syringe Carriage Drive Motor - in Middle of Injector Tower	\$186.00	
07673-60020	PC Board	Injector Logic Board - Mounts in Electronics Housing Assy	\$610.00	
07673-60030	PC Board	Front Panel Board - on Front of Injector Electronics Housing	\$490.00	
G1513-60010	PC Board	Sensor Board - Mounts on Upper Part of Syringe Carriage Assy	\$63.60	
07673-60590	Sensor	Syringe Carriage and Turret 'Home' Sensors - Includes Cable	\$111.00	
<b>Auto Injector Mechanics</b>				
1500-0675	Belt	Plunger Carrier Belt - for Syringe Plunger Operation	\$1.65	
1500-0676	Belt	Syringe Carriage Belt - Main Belt in Injector Tower	\$11.50	
07673-60870	Carriage	Syringe Carriage Assy - Electromechanical Structure in Tower	\$201.00	
07673-61270	Carrier	Plunger Carrier Assy - with Belt - Holds Plunger of Syringe	\$44.50	
07673-60710	Guide	Needle Guide Assembly - Guide Arm on Turret Base	\$69.00	
07673-20570	Hardware	Thumb Screw - Holds Plunger of Syringe on Plunger Carrier	\$12.00	
07673-40150	Sample Insert	Sample Insert (White) - Non-Magnetic - for Turret Assembly	\$7.00	
07673-60610	Sample Insert	Sample Insert (Black) - Magnetic - for Turret Assembly	\$15.90	
18596-60690	Sample Insert	Coned Sample Insert (Neutral) - Magnetic - for Turret Assy	\$21.20	
07673-60600	Turret	Standard Turret Assy - Holds Sample, Waste, & Solvent Vials	\$45.00	
<b>Controller Case Parts</b>				
07940-40047	Cover	Top Cover Assembly (U-Shaped) - Includes Top and Both Sides	\$32.90	
5041-1203	Keycap	Keycap (White) - for the Power Switch	\$1.00	
<b>Controller Electronics</b>				
9135-0248	Drum	'Voltage Select' Drum - in Power Module Assembly	\$2.00	
2110-0083	Fuse	Fuse - 2.5A, 250V - for 100V/120V Operation	\$1.00	
2110-0303	Fuse	Fuse - 2A, 250V - for 220V/240V Operation	\$1.85	
18594-60015	PC Board	Power Supply/Mother Board	\$660.00	
18594-60070	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot	\$580.00	
* 18594-69015	PC Board	Power Supply/Mother Board	\$660.00	\$498.00
* 18594-69070	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot	\$580.00	\$295.00
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	
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* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	\$287.00
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$10.00	
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
18594-60640	Power Module	Power Module Assy - Includes Power Receptacle, Drum, & Fuses	\$79.50	
3101-0680	Switch	Pushbutton Power Switch - Mounted on Power Supply Board	\$10.50	
18594-60550	Transformer	Power Transformer Assembly	\$148.00	
<b>Controller Interfaces</b>				
18594-60030	PC Board	HP-IL Interface Board - Plugs in 'COMM' Slot	\$254.00	
18594-60040	PC Board	TTL Interface Board - Plugs in the 'COMM' (or 'AUX') Slot	\$350.00	
18594-60050	PC Board	Controller Board (with Interface Specific for 5880A) - Plugs in the 'CONT' Slot	\$276.00	
18594-60080	PC Board	RS-232C Interface Board - Plugs in the 'COMM' Slot	\$445.00	
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	
* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	\$287.00
<b>Interconnecting Cables</b>				
05090-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00	
18594-60500	Cable	Remote Cable - from 7673x Controller Module to 3392A or 3393A Integrator	\$93.00	
18594-60510	Cable	BCD Cable - from 7673x Controller Module to 3392A or 3393A	\$122.00	



		<b>Integrators</b>	
18594-60570	Cable	Remote Cable - 7673x Controller Module to 5890A GC	\$74.00
19321-60510	Cable	Control Cable - from 7673x Controller Module to 5890A	\$106.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

**Other Accessories**

07673-60980	Manual	7673A Automatic Sampler Service Manual	\$58.00
07673-60995	Manual	7673B Automatic Sampler Operating Manual (Can Also Be Used for the 7673A)	\$47.00
07673-91100	Manual	7673A Automatic Sampler Operating and Service Manual (German) - for Sale in Europe ONLY	\$85.00
07673-92100	Manual	7673A Automatic Sampler Operating and Service Manual (French) - for Sale in Europe ONLY	\$49.00
18594-90300	Manual	7673A Automatic Sampler with RS-232C Interface Manual	\$29.00
9301-0713	Syringe	10ul Syringe - with 23 Gauge Needle - for Split/Splitless	\$36.00
9301-0714	Syringe	10ul Syringe - with 26 Gauge Needle - for On Column	\$36.00

**Tray Module Case Parts**

18596-20720	Cover	Right Half Cover - for Tray Arm Assembly	\$106.00
18596-60520	Cover	Left Half Cover - for Tray Arm Assembly	\$445.00

**Tray Module Electronics**

18596-60580	Motor	'Z' Drive Motor Assembly - in Arm of Tray Module	\$117.00
18596-60595	Motor	'Theta' Motor - for Updated Tray Modules ONLY	\$159.00

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18596-60600	Motor	'R' Drive Motor - Smaller of 2 Motors in the Base Assembly of Tray Module (Attached Drive Gear Faces Toward the Bottom)	\$159.00
18596-60075	PC Board	Termination Board - for Updated Tray Modules ONLY	\$254.00

**Tray Module Mechanics**

1500-0681	Belt	Gripper Drive Belt - in Arm of Tray Module	\$9.30
1500-0682	Belt	'Z' Drive Belt - in Arm of Tray Module (Longer of 2 Belts)	\$6.75
18596-60700	Gripper	Gripper 'Z' Flex Assy - Inside Gripper in Arm of Tray Module	\$276.00
18596-40015	Tray	Sample Tray Quadrant - 'Pie' Shaped (Sold as a Set of 4)	\$64.00

\* = Exchange Part

□ = Call (800) 227-8164 for volume discount

HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP AUTO SAMPLERS

HP AUTO SAMPLER

(76738)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Auto Injector Case Parts</b>				
07673-40076	Cover	Back Cover - for Injector Tower Assembly	\$36.00	
07673-60065	Cover	Front Cover Assembly (U Shaped) - for Injector Tower - Includes Syringe Carriage Access Door	\$53.00	
07673-60726	Housing	Electronics Housing Assembly - Includes Both Side Cover Shells, the Hinge, and Screws	\$55.65	
07673-40215	Panel	Front Door Panel - for Injector Electronics Housing Assembly	\$32.90	
<b>Auto Injector Electronics</b>				
07673-60645	Cable	Injector Cable - from 7673x Controller Module to the Main Board in the Electronics Housing (on the Injector Tower)	\$127.00	
07673-60690	Cable	Ribbon Cable - from Main Injector Board to Sensor Board	\$37.10	
35900-60520	Fan	Fan Assembly - Mounts in Top of Injector Tower Assembly	\$39.20	
07673-60620	Motor	Plunger Motor - in Top of Injector Tower Assembly	\$286.00	
07673-60810	Motor	Turret Motor - Rotates Turret Assembly	\$159.00	
07673-60890	Motor	Syringe Carriage Drive Motor - in Middle of Injector Tower	\$186.00	
07673-61261	PC Board	Injector Main Logic and Front Panel Boards - as a Set	\$950.00	
* 07673-69261	PC Board	Injector Main Logic and Front Panel Boards - as a Set	\$950.00	\$477.00
61513-60010	PC Board	Sensor Board - Mounts on Upper Part of Syringe Carriage Assy	\$63.60	
07673-60590	Sensor	Syringe Carriage and Turret 'Home' Sensors - Includes Cable	\$111.00	
07673-61420	Switch	Micro-Switch - For Detecting A Correctly Mounted Injector - Mounts on the Lower Left Side of the Back Plate/Base Assy	\$24.90	
07673-61430	Switch	Micro-Switch - For Detecting Open Injector Door - Mounts in Front Cover (Above the Door)	\$24.40	
<b>Auto Injector Mechanics</b>				
07673-60855	Back Plate/Base Assy	Back Plate/Base Assembly - Main Structure of Injector Tower	\$186.00	
1500-0675	Belt	Plunger Carrier Belt - for Syringe Plunger Operation	\$1.65	
1500-0676	Belt	Syringe Carriage Belt - Main Belt in Injector Tower	\$11.50	
07673-80535	Carriage	Syringe Carriage Assembly - Includes the Syringe Carriage Assembly, Needle Support Guide, Stripper Arm Assembly, and Instructions - Major Electromechanical Structure in Tower	\$265.00	
07673-61275	Carrier	Plunger Carrier Assy (with Belt) - Holds Plunger of Syringe	\$63.60	
07673-61145	Cone Arm Kit	Cone Arm Kit - Replacement for Bottle Stripper Arm (Swivel Arm on Turret Base Assembly)	\$207.00	
07673-20570	Hardware	Thumb Screw - Holds Plunger of Syringe on Plunger Carrier	\$12.00	
See Description	Holder	Syringe Holder Assembly - Order Back Plate/Base Assembly	\$5.00	
07673-20690	Pulley	Idler Pulley - Top Pulley for the Syringe Carriage Belt - Mounts in the Top of the Injector Tower	\$30.70	
07673-40150	Sample Insert	Sample Insert (White) - Non-Magnetic - for Turret Assembly	\$7.00	
07673-60610	Sample Insert	Sample Insert (Black) - Magnetic - for Turret Assembly	\$15.90	
18596-60690	Sample Insert	Coned Sample Insert (Neutral) - Magnetic - for Turret Assy	\$21.20	
See Description	Support	Needle Support Guide - Order Syringe Carriage Assembly	\$5.00	
07673-60605	Turret	Standard Turret Assy - Holds Sample, Waste, & Solvent Vials	\$37.10	

Controller Case Parts

18594-80525	Chassis	Chassis Assembly (Shell) - Internal Metal Structure for the Controller Module Assembly	\$154.00	
07940-40047	Cover	Top Cover Assembly (U-Shaped) - Includes Top and Both Sides	\$32.90	
0403-0424	Foot	Rubber Foot - Mounts to the Bottom of the Chassis (4 Used)	\$5.45	
5041-1203	Keycap	Keycap (White) - for the Power Switch	\$1.00	
07940-60044	Panel	Front Panel Bezel (Plastic) - for the Controller Module Assy	\$42.50	
18594-80116	Plate	Blank Cover Plate - For Covering Rear Panel Empty Optional Board Slots	\$10.60	

Controller Electronics

9135-0248	Drum	'Voltage Select' Drum - in Power Module Assembly	\$2.00	
35900-60520	Fan	Fan Assy - Mounts to the Rear Panel of the Controller Module	\$39.20	
2110-0083	Fuse	Fuse - 2.5A, 250V - for 100V/120V Operation	\$1.00	
2110-0303	Fuse	Fuse - 2A, 250V - for 220V/240V Operation	\$1.05	
2110-0686	Fuseholder	Fuseholder (White) - for 120V or 240V Operation	\$2.05	
18594-60075	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot	\$498.00	
18594-60135	PC Board	Power Supply/Mother Board	\$558.00	
* 18594-69075	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot	\$498.00	\$255.00
* 18594-69135	PC Board	Power Supply/Mother Board	\$558.00	\$450.00
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	
* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	\$287.00
18594-60110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot	\$795.00	
* 18594-69110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot	\$795.00	\$580.00
18594-60050	PC Board	Controller Board (with Interface Specific for 5880A) - Plugs	\$276.00	

8120-1351	Power Cord	in the 'CONT' Slot Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/ Singapore/Malaysia - 2.3m, Straight	\$26.00
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$10.00
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50
18594-50640	Power Module	Power Module Assy - Includes Power Receptacle, Drum, & Fuses	\$79.50
18594-60550	Transformer	Power Transformer Assembly	\$148.00

Controller Interfaces

18594-60030	PC Board	HP-IL Interface Board - Plugs in 'COMM' Slot	\$254.00
18594-60080	PC Board	RS-232C Interface Board - Plugs in the 'COMM' Slot	\$445.00
18594-60090	PC Board	LOOP Interface Board - Plugs in the 'COMM' Slot	\$456.00
18594-60040	PC Board	TTL Interface Board - Plugs in the 'COMM' (or 'AUX') Slot	\$350.00
18594-60100	PC Board	Bar Code Reader Board - Plugs in the 'AUX' Slot	\$850.00
* 18594-59100	PC Board	Bar Code Reader Board - Plugs in the 'AUX' Slot	\$850.00
18594-60040	PC Board	TTL Interface Board - Plugs in the 'AUX' (or 'COMM') Slot	\$350.00
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00
* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00
18594-60110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot	\$795.00
* 18594-69110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot	\$795.00
18594-60050	PC Board	Controller Board (with Interface Specific for 5880A) - Plugs in the 'CONT' Slot	\$276.00

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Interconnecting Cables

05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00
03396-60550	Cable	Remote Cable - 7673x Controller Module to 3396x Integrator	\$66.30
18594-60500	Cable	Remote Cable - from 7673x Controller Module to 3392A or 3393A Integrator	\$93.00
18594-60570	Cable	Remote Cable - 7673x Controller Module to 5890A GC	\$74.00
18594-60590	Cable	Remote 'Y' Cable - from 7673x Controller Module to the 5890A GC and 3390A Integrator	\$154.00
18594-60600	Cable	Remote 'Y' Cable - from 7673x Controller Module to 57xxA Series GC and 3390A Integrator	\$191.00
18594-60610	Cable	Remote 'Y' Cable - from 7673x Controller Module to 5890A GC and 18562A Temperature Controller	\$164.00
18594-60620	Cable	Remote 'Y' Cable - from 7673x Controller Module to 57xxA Series GC and 18562A Temperature Controller	\$180.00
18594-60630	Cable	Remote Cable - 7673x Controller Module to 57xxA Series GC	\$101.00
35900-60820	Cable	Remote 'Y' Cable - from 7673x Controller Module to 5890A GC and 35900A Dual Channel Interface	\$159.00
03396-60560	Cable	BCD Cable - from 7673x Controller Module to 3396x Integrator	\$74.20
18594-60510	Cable	BCD Cable - from 7673x Controller Module to 3392A or 3393A Integrators	\$122.00
18594-60520	Cable	BCD Cable - from 7673x Controller Module to General Purpose Connector (Spade Lugs)	\$69.00
19164-60550	Cable	BCD Cable - 7673x Controller Module to 'NELSON' Connector	\$239.00
35900-60850	Cable	BCD Cable - from 7673x Controller Module to 35900C Dual Channel Interface	\$103.00
07673-60645	Cable	Injector Cable - from 7673x Controller Module to the Main Board in the Electronics Housing (on the Injector Tower)	\$127.00
18596-60715	Cable	Tray Cable - from the 7673x Controller Module (Tray Interface Board) to the Tray Module Termination Board	\$63.60
19321-60510	Cable	Control Cable - from 7673x Controller Module to 5880A	\$106.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

Other Accessories

07673-60995	Manual	7673B Automatic Sampler Operating Manual (Can Also Be Used for the 7673A)	\$47.00
07673-61995	Manual	7673B Automatic Sampler Operating Manual (German)	\$28.00
9301-0713	Syringe	10ul Syringe - with 23 Gauge Needle - for Split/Splitless	\$36.00
9301-0714	Syringe	10ul Syringe - with 26 Gauge Needle - for On Column	\$36.00

Tray Module Electronics

18596-60905	Arm Core/Motor Assy	Arm Core/Motor Assembly - Interior Structure with the 'Z' Drive Motor - for the Tray Arm Assembly	\$175.00
18596-60715	Cable	Tray Cable - from the 7673x Controller Module (Tray Interface Board) to the Tray Module Termination Board	\$63.60
18596-60750	Flex Circuit	'Theta' Flex Circuit Assembly - Interconnects the Turret to the Base Assembly Board (in the Tray Module)	\$101.00
18596-60915	Flex Circuit	'R' Flex Circuit Assembly - Interconnects the Sensor Board in the Tray Arm to the Turret Assembly	\$175.00
18596-60595	Motor	'Theta' Motor - Larger of 2 Motors in the Base Assembly of of Tray Module (Attached Drive Gear Faces Toward the Top)	\$159.00
18596-60600	Motor	'R' Drive Motor - Smaller of 2 Motors in the Base Assembly	\$159.00

of Tray Module (Attached Drive Gear Faces Toward the Bottom)

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18596-60035	PC Board	Sensor Board ('T' Shaped) - in the Core of the Tray Arm Assy	\$127.00
18596-60075	PC Board	Termination Board (Crescent Shaped)- Mounts in the Base Assembly of the Tray Module	\$254.00
18596-60630	Sensor	Tray Sensor Assembly (Includes Cable) - Detects the Turret Position - Mounts in the Base Assembly of the Tray Module	\$63.60

## Tray Module Mechanics

1500-0003	Belt	'Z' Drive Belt - in the Tray Arm Assembly	\$6.75
18596-60945	Cover	Left and Right (Matched Halves) Cover Set - for the Tray Arm Assembly	\$41.30
18596-40181	Gear	Drive Gear - Attaches to the Bottom of the Rack Pinion Shaft (from the Turret Assembly) - Driven by the 'R' Motor	\$7.20
18596-40215	Gear	60 Tooth Gear - Driven by the 'Z' Drive Motor - in the Tray Arm Assembly	\$6.90
18596-61005	Gripper	Vial Gripper Assembly (Includes the 'Z' Guide Rod) - Mounts on the Front of the Tray Arm Assembly	\$143.00
18596-20500	Rod	Guide Rod - Mounts to the Bottom of the Tray Arm Assembly - (Vertically) Slides Through Bearings in Turret Assy (2 Used)	\$37.10
18596-60845	Shaft	Rack Pinion Shaft Assembly (Drive Shaft with Gear) - in the Center of the Turret Assembly	\$13.80
18596-40015	Tray	Sample Tray Quadrant - 'Pie' Shaped (Sold as a Set of 4)	\$64.00
18596-61000	Tray Arm Assembly	Tray Arm Assembly - Vial Selecting Apparatus on Top of the Tray Module Assembly (Includes the Vial Gripper Assembly)	\$557.00
18596-60675	Tray Base	Tray Base - Large Round Structure at the Bottom of the Tray Module	\$217.00
18596-60515	Turret Assembly	Turret Assembly - Round Mechanical Structure Between the Tray Arm and the Tray Base Assemblies	\$260.00

\* = Exchange Part

x = Call (800) 227-8164 for volume discount

HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP DETECTORS

HP MASS SELECTIVE DETECTOR

(59708)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Capillary Direct Intfc</b>				
05970-60031	Adapter	Gland Adapter (for Use with 5790 GC) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$509.00	
05970-60033	Adapter	Gland Adapter (for Use with 5880 GC) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$498.00	
05970-60046	Adapter	Gland Adapter (for Use with 5890 GC) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$286.00	
05970-20033	Body	Interface Body (Sleeve) (for Use with 5790 GC) - Largest Part of Capillary Direct Interface	\$186.00	
05970-20034	Body	Interface Body (Sleeve) (for Use with 5880 GC) - Largest Part of Capillary Direct Interface	\$207.00	
05970-20087	Body	Interface Body (Sleeve) (for Use with 5890 GC) - Largest Part of Capillary Direct Interface	\$215.00	
05970-20039	Ferrule	Guide Tube Ferrule - Provides Seal for the Guide Tube when Inserted into the Repeller of the Ion Source	\$50.00	
5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) Seals Column (from GC) at Entrance to Capillary Direct Interface (10/Pkg)	\$55.00	
5181-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of Capillary Direct Interface During Storage or Shipping (10/Pkg)	\$42.00	
0100-1145	Gasket	Nickle Gasket - for Seal Between MSD Fitting and Gland Adapter (Part of Interface)	\$8.00	
05970-60032	Guide Tube	Guide Tube Assy (for Use with 5790 GC) - Inserts into the Ion Source from the Capillary Direct Interface - When Replacing Guide Tube, Also Replace Guide Tube Ferrule	\$318.00	
05970-60034	Guide Tube	Guide Tube Assy (for Use with 5880 GC) - Inserts into the Ion Source from the Capillary Direct Interface - When Replacing Guide Tube, Also Replace Guide Tube Ferrule	\$875.00	
05970-60047	Guide Tube	Guide Tube Assy (for Use with 5890 GC) - Inserts into the Ion Source from the Capillary Direct Interface - When Replacing Guide Tube, Also Replace Guide Tube Ferrule	\$239.00	
0100-1147	Nut	Interface Nut - Secures Capillary Direct Interface to MSD Fitting	\$37.00	
05988-20066	Nut	SGE Nut - for Securing Column in Capillary Direct Interface	\$12.00	
<b>Ion Source Parts</b>				
05990-20247	Block	Contact Holder Block - 'Cubes' in the Filament Holder Assy with Threaded Screw Holes - 4 Used	\$35.00	
05995-20080	Block	Filament Block - Internal Ceramic Structure for the Filament Assembly	\$223.00	
05995-20083	Body	Ion Source Base Plate/Body - Base Plate for Lens Stack - Also Has a Flange for Mounting the Filament Assembly	\$297.00	
05995-20084	Chamber	Ion Source Chamber (Metal Cylinder with Slots) - Goes on End of Draw-Out Lens in Center of Ion Source	\$148.00	
05990-00187	Contact	Right Hand Spring Contact (V-Shaped with Flat Right Edge) - For Filament Block - 2 Used	\$30.70	
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05990-00188	Contact	Left Hand Spring Contact (V-Shaped with Flat Left Edge) - For Filament Block - 2 Used	\$30.70	
05990-21221	Dowel	Dowel Pin - Used as Support Rods for the Lens Stack Plates - 4 Used (4/Pkg)	\$348.00	
05990-60084	Filament	Welded Filament Assy (2 Contact Plates with Welded Filament Wire) - 2 Used (2/Pkg)	\$88.00	
05995-60068	Filament Assembly	Filament Assembly (Does NOT Include Entrance Nut) - Mounts on Top of Ion Source	\$742.00	
05990-21235	Hardware	Gold Plated Screw (Flat Head 4-40 x 1/4 inch Long) - Holds the Lens Stack Assy to Magnet Yoke Assy - 4 Used (12/Pkg)	\$138.00	
05990-21250	Hardware	Gold Plated Screw (1/4 inch Long) - Holds (Welded) Filament to Block - 4 Used (12/Pkg)	\$63.60	
05990-21251	Hardware	Gold Plated Cap Screw (1/8 inch Long) - Holds V-Shaped Spring Contacts to Sides of Filament Block - 4 Used (12/Pkg)	\$127.00	
05995-21086	Hardware	Gold Plated Screw (0-80 x 5/16 inch) - Holds Filament Assy (Via Repeller Housing Plate) to Ion Source - 2 Used (12/Pkg)	\$195.00	
05995-21112	Hardware	Gold Plated Screw (0-80 x 7/16 inch Long) - Holds Filament Block Assy to the Repeller Housing Plate - 2 Used (12/Pkg)	\$290.00	
2190-0049	Hardware	Lock Washer (Stainless Steel No. 0) - for Screws that Hold the Filament Assembly to the Ion Source Body - 2 Used	\$ .30	
3050-0923	Hardware	Washer (Stainless Steel No. 0) - for Screws that Hold the Filament Block Assy to the Repeller Housing Plate - 2 Used	\$ .30	
5061-5853	Hardware	Truarc Clips (Large) - Holds Lens Stack Dowel Pins to Ion Source Base Plate/Body - 4 Used (10/Pkg)	\$8.00	
5061-5871	Hardware	Spring Washer - Provides Pressure in Holding Lens Stack Together (Goes on Top of Dowel Pins) - 4 Used (10/Pkg)	\$8.00	
5181-1257	Hardware	Truarc Clips (Small) - Holds Lens Stack Assembly Together (Goes on Top of Dowel Pins) - 4 Used (10/Pkg)	\$8.00	

05990-20136	Insulator	Repeller Insulator (Vespeil) - Used to Insulate the Repeller from the Repeller Housing Plate	\$79.00	
05990-20216	Insulator	Draw Out Insulator Sleeve (Ceramic) - Slides Over the Draw Out Lens (Next to the Ion Source Chamber)	\$56.00	
05970-60056	Ion Source	<u>Ion Source Assembly (Untested) - Includes Filament Assembly, Lens Stack, and Magnet Yoke Assembly</u>	<u>\$3,710.00</u>	- 2,400
05990-20220	Lens	Draw Out Lens - 'T' Shaped Tube in the Back of the Ion Source Assembly (Goes in the Flange on the Ion Source Body)	\$99.00	
05970-20027	Nut	Entrance Nut (Funnel Shaped Piece) - on Top of Filament Assy	\$93.00	
05990-00196	Plate	Ion Focus Lens Plate (Flat Metal Plate with Round Center Hole) - Center Plate in Lens Stack Assembly	\$93.00	
05990-00197	Plate	Draw-Out Plate (Flat Plate with Irregular Shaped Center Hole (Contact Fingers)) - Bottom Plate in Lens Stack Assy	\$79.50	
05990-60112	Plate	Entrance Lens Plate (Flat Metal Plate with Attached Entrance Lens Cylinder) - Top Plate in Lens Stack Assembly	\$259.00	
05995-60074	Plate	Repeller Housing Plate - Mounts to Bottom of Filament Assy	\$239.00	
05970-20042	Repeller	Repeller (Metal Cylinder with Threads at one End for Entrance Nut and Flange at Other End) - Goes Through Filament Assembly (from Bottom)	\$122.00	
05990-21217	Spacer	Ceramic Spacer (Small Diameter) - Used on Dowel Pins for Spacing Between Lens Stack Plates - 12 Used (12/Pkg)	\$120.00	
05990-21218	Spacer	Ceramic Spacer (Large Diameter) - Used on Large End of Dowel Pins in Lens Stack Assembly - 4 Used (12/Pkg)	\$146.00	
05970-20041	Spool	Heater Spool - 'T' Shaped Tube Behind the Entrance Nut	\$63.60	
05995-60073	Yoke	Replacement Magnet Yoke Assy - Base Ring for Lens Stack Assy	\$558.00	
* 05995-69073	Yoke	Replacement Magnet Yoke Assy - Base Ring for Lens Stack Assy	\$558.00	\$390.00

MSD Chassis Parts

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3103-0124	Controller	Thermostatic Controller (Includes Cable and Sensor) - for Controlling Temperature of the MSD's Vacuum Cavity (The Sensor is Taped to the Vacuum Cavity)	\$175.00	
3160-0379	Fan	120V AC Fan - One Mounts to Rear Panel, the Other Next to the Turbo Pump (2 Used)	\$48.00	
0101-0561	Flow Controller	Flow Controller - Controls Purge Gas to the Open-Split Interface - Mounts to Upper Front Panel	\$320.00	
0403-0244	Foot	Foot - Attaches to Bottom of MSD Chassis (4 Used)	\$15.00	
05970-60025	Heater	Heating Strip Assy (120V) - Wraps Around MSD's Vacuum Cavity	\$286.00	
05970-60027	Heater	Heating Strip Assy (240V) - Wraps Around MSD's Vacuum Cavity	\$286.00	
0853-0067	Switch	Thermal Cutout Switch - Includes Cable and Sensor (The Sensor is Taped to the Vacuum Cavity)	\$102.00	
05970-60052	Transformer	Power Transformer Assembly - Mounts in Bottom of MSD	\$382.00	
05970-60101	Valve	Vent Valve Assembly - for Front Panel System Venting	\$270.00	

MSD Electronics

05970-60500	Controller	Old Style Pump Controller (for Both Rough and Turbo Pumps) - Controller Has Front Panel Turbo Pump Speed Meter and Push Button Pump and Heater Switches	\$3,180.00	
* 05970-69102	Controller	Old Style Pump Controller (for Both Rough and Turbo Pumps) - Controller Has Front Panel Turbo Pump Speed Meter and Push Button Pump and Heater Switches	\$3,180.00	\$1,640.00
* 05970-69129	Controller	New Style Pump Controller (for Both Rough and Turbo Pumps) - Front Panel Has AC Line/Pump and Heater/Electronics Rocker Switches (No Meters) (Switches NOT Part of Controller)	\$1,700.00	\$1,120.00
3162-0148	Controller	New Style Pump Controller (for Both Rough and Turbo Pumps) - Front Panel Has AC Line/Pump and Heater/Electronics Rocker Switches (No Meters) (Switches NOT Part of Controller)	\$1,700.00	
05970-60009	PC Board	Power Supply/Card Cage Motherboard (A9) - Large (Horizontal) Board Under Card Cage (in Top of MSD)	\$901.00	
05970-60114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	
05970-60211	PC Board	Accessory Control Board (A111) - Installed ONLY in MSD's Connected to a 5880A or an RTE Data System - Front Board in Card Cage (in Top of MSD)	\$870.00	
* 05970-69009	PC Board	Power Supply/Card Cage Motherboard (A9) - Large (Horizontal) Board Under Card Cage (in Top of MSD)	\$901.00	\$498.00
* 05970-69114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	\$390.00
* 05970-69205	PC Board	Ion Source Control Board (A5) - Next to Rear Board in Card Cage (in Top of MSD)		\$498.00
* 05970-69211	PC Board	Accessory Control Board (A111) - Installed ONLY in MSD's Connected to a 5880A or an RTE Data System - Front Board in Card Cage (in Top of MSD)	\$870.00	\$320.00
05985-60301	PC Board	Input/Output Bd (A1) - Rear Bd in Card Cage (in Top of MSD)	\$875.00	
05985-60317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	
* 05985-69301	PC Board	Input/Output Bd (A1) - Rear Bd in Card Cage (in Top of MSD)	\$875.00	\$330.00
* 05985-69317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	\$330.00
05990-60012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	
05990-60303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	
05990-60304	PC Board	Linear Data Processor Board (A6) (for Option 410 RTE	\$1,060.00	



Systems ONLY) - Center Board in Card Cage (in Top of MSD)

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05990-60408	PC Board	Quadrupole Driver Board (A8) - Next to Front Board in Card Cage (in Top of MSD)	\$950.00	
05990-60426	PC Board	Detector Bd (A16) - Center Bd in Card Cage (in Top of MSD)	\$498.00	
* 05990-69912	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	\$380.00
* 05990-69303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	\$403.00
* 05990-69304	PC Board	Linear Data Processor Board (A6) (for Option 410 RTE Systems ONLY) - Center Board in Card Cage (in Top of MSD)	\$1,060.00	\$690.00
* 05990-69408	PC Board	Quadrupole Driver Board (A8) - Next to Front Board in Card Cage (in Top of MSD)	\$950.00	\$489.00
* 05990-69426	PC Board	Detector Bd (A16) - Center Bd in Card Cage (in Top of MSD)	\$498.00	\$320.00
8120-0651	Power Cord	Power Cord (Gray) - for 220V in Europe - 4.5m, Stripped End	\$16.50	
8120-3330	Power Cord	Power Cord - for 220V Operation in Denmark - 2.5m, Cut End	\$37.00	
8120-5216	Power Cord	Power Cord (Black) 14 AWG - 120V USA/Canada - 78in, Lug Ends	\$27.60	
3105-0172	Switch	Front Panel Power Switch/Circuit Breaker (120V Operation) - for Older MSD (Will Have Front Panel Turbo Pump Speed Meter)	\$62.50	
3105-0173	Switch	Front Panel Power Switch/Circuit Breaker (240V Operation) - for Older MSD (Will Have Front Panel Turbo Pump Speed Meter)	\$67.50	
05970-60052	Transformer	Power Transformer Assembly - Mounts in Bottom of MSD	\$382.00	

Manuals, Tools & Supplies

5061-5896	Abrasive Sheet	Abrasive Sheets (30 Micron Aluminum Oxide) - 8.5in x 11in - for Ion Source Maintenance (5/Pkg)	\$24.00	
8500-0559	Alcohol	Isopropyl Alcohol (Filtered) - 8 oz Bottle (91% Pure)	\$135.00	
8650-0029	Cleaning Gloves	Polyester Gloves (Small) - for Working on Mass Analyzer	\$8.75	
8650-0030	Cleaning Gloves	Polyester Gloves (Large) - for Working on Mass Analyzer	\$14.00	
05990-20254	Fixture	Lens Stack Fixture Block - Securely Holds Lens Stack Assembly for Maintenance or Repair	\$122.00	
05995-60098	Fixture	Filament Fixture Block - Securely Holds Filament Assembly for Maintenance or Repair	\$775.00	
05990-20167	Flange	Blank Flange - for Covering MSD's Vacuum Cavity when the RFPA Housing/Mass Analyzer Assembly is Removed	\$339.00	
05970-90049	Manual	59708 Mass Selective Detector Hardware (Service) Manual	\$77.00	
05970-90072	Manual	59708 Mass Selective Detector Installation Manual - with the RTE-A Data System	\$24.40	
05970-90082	Manual	59708 Mass Selective Detector Ion Source Cleaning Manual	\$8.50	
05970-90115	Manual	59708 Mass Selective Detector Installation Manual	\$13.00	
9320-5125	Manual	Operating Instructions Book - for the 'Balzers' TCP/TPH-040 Turbo-Molecular Pump (English/French/German)	\$57.50	
6040-0468	Oil	Turbo Pump Oil - 0.25 Liter	\$112.00	
6040-0834	Oil	Vacuum Pump Oil (Polyalphaolefin) - for Rough Pump (1 Qt)	\$36.00	
8500-0656	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial (10 Grams/Bottle)	\$91.00	
0460-0186	Tape	Glass Cloth Tape (3/4 in Wide x 36 yd Long) - for Attaching Heater Strip and Sensors to MSD's Vacuum Cavity	\$40.00	
05970-20101	Tool	Venting Tool - for Venting the MSD's Vacuum Cavity	\$55.65	
05990-20261	Tool	Modified 0.050in Allen Wrench - for Ion Source Maintenance	\$150.00	
8710-0018	Tool	Truarc Retaining Ring Pliers - for Lens Stack Maintenance	\$34.00	
8710-0899	Tool	Posidrive Screwdriver - 3 Inch Blade with No.1 Point	\$15.00	
8710-0907	Tool	Tweezers (Stainless Steel) - 4.75in Long - for Ion Source Maintenance	\$45.00	
8710-1199	Tool	0.050in Hex Ball Driver Tool - for Ion Source Maintenance	\$10.50	
8710-1250	Tool	0.050in Hex Drive Tool (Straight End) - for Ion Source Maintenance	\$15.00	
9310-4828	Wipes	Lint Free Industrial Wipes (100% Cotton) - 9 x 9in (300/Box)	\$154.00	

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Open-Split Interface

05970-20023	Adapter	Gland Adapter (for Use with all GC's) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$1,010.00	
05970-20021	Body	Interface Outer Body (Sleeve) (for Use with 5790 GC) - Slides Over Open-Split Interface Inner Body	\$435.00	
05970-20022	Body	Interface Outer Body (Sleeve) (for Use with 5880 GC) - Slides Over Open-Split Interface Inner Body	\$350.00	
05970-20088	Body	Interface Outer Body (Sleeve) (for Use with 5890 GC) - Slides Over Open-Split Interface Inner Body	\$207.00	
05970-60042	Body	Open-Slit Interface Inner Body Assy (for Use with 5790 GC) - Center Tube Structure - Holds End of Column (from GC)	\$530.00	
05970-60043	Body	Open-Slit Interface Inner Body Assy (for Use with 5880 GC) - Center Tube Structure - Holds End of Column (from GC)	\$583.00	
05970-60051	Body	Open-Slit Interface Inner Body Assy (for Use with 5790 GC) - Center Tube Structure - Holds End of Column (from GC)	\$445.00	
05970-20069	Extension Tube	Extension Tube Assy (Flange with Tube) - Flange Screws into Gland Adapter while Tube Extends into Ion Source of MSD - When Replacing Assembly, Also Replace Guide Tube Ferrule	\$339.00	
05970-20039	Ferrule	Guide Tube Ferrule - Provides Seal for the Extension Tube when Inserted into the Repeller of the Ion Source	\$50.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing Restrictor Tube in Gland Adapter Assembly (10/Pkg)	\$55.00	

5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) Seals Column (from GC) at Entrance to Open-Split Interface (10/Pkg)	\$55.00
5180-4112	Ferrule	Front Ferrule (Stainless Steel) - for Sealing Interface Inner Body to Gland Adapter (10/Pkg)	\$20.00
5180-4118	Ferrule	Back Ferrule (Stainless Steel) - for Sealing Interface Inner Body to Gland Adapter (10/Pkg)	\$20.00
5181-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of Open-Split Interface During Storage or Shipping (10/Pkg)	\$42.00
0101-0561	Flow Controller	Flow Controller - Controls Purge Gas to the Open-Split Interface - Mounts to Upper Front Panel	\$320.00
0100-1145	Gasket	Nickle Gasket - for Seal Between MSD Fitting and Gland Adapter (Part of Interface)	\$8.00
0510-0083	Hardware	Retaining E-Ring - Holds Outer Interface Body (Sleeve) on to Inner Interface Body	\$ 3.30
3050-1129	Hardware	Flat Washer (Metal) - Helps Hold Outer Interface Body (Sleeve) to Inner Interface Body	\$4.60
05971-60112	Heater/Sensor	Heater/Sensor Assy (with 5 Pin Connector) - Cartridge Style Heater and Sensor - Slides into Interface Outer Metal Jacket	\$392.00
05988-20066	Nut	SGE Nut - for Securing Column in Open-Split Interface	\$12.00
5180-4106	Nut	Nut (1/4 in Stainless Steel) - Secures Open-Split Interface Inner Body to Gland Adapter	\$37.00
05970-20054	Restrictor	Glass Restrictor Tube - Extends from Top of Gland Adapter to Imm Beyond Tip of Extension Tube	\$56.00

## Other Mass Analyzer Parts

05990-01186	Contact	Contact Spring (J-Shaped) - on Inside of Teflon Side Plates - Provides Contact to Lens Stack Plates - 3 Used (3/Pkg)	\$340.00
05990-21125	Contact	RF Contact Spring ('Wavy' Shaped) - on Inside of Teflon Side Plates - Provides Contact to Quadrupole Assembly - 4 Used (4/Pkg)	\$390.00
05995-20082	Contact	Repeller Contact Spring - Connects Entrance Nut on Ion Source to Trace on Teflon Side Plate	\$53.00

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05970-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2400V (Recommended Replacement Multiplier)	\$925.00
1970-0216	Electron Multiplier	Electron Multiplier Assy (by Galileo) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2000V (Used ONLY for Option 410)	\$875.00
05970-00025	Element	Electron Focus Element ('T' Shaped Metal Piece) - 'Spring' Clamped to Both Teflon Side Plates (With Stem of the 'T' Positioned Next to Filaments of the Ion Source) - 2 Used	\$36.00
05970-20001	Panel	Side Panel (Teflon with Contact Traces) - Plain Side	\$557.00
05970-20003	Panel	Side Panel (Teflon with Contact Traces) - Side with Top Notch for Repeller Spring Contact (to Entrance Nut)	\$557.00
05970-20049	Pin	Board Pin - Provides Spacing Between Quadrupole Assembly and Teflon Side Plates (4 Used)	\$37.00
05990-00168	Plate	Metal Side Plate - Forms Square Tube when Teflon Side Plates are Attached - Screws to Magnet Yoke Assembly (2 Used)	\$175.00

## Pumps and Related Parts

05985-60243	Hose	Vacuum Hose (with Internal Coil Spring) - Attaches Between the Turbo Pump (in the MSD) and the Rough Pump (Outside)	\$63.60
05970-80062	Pump	Replacement Turbo Pump Assembly - Mounts to Bottom of MSD's Vacuum Cavity	\$5,000.00
* 05970-89062	Pump	Replacement Turbo Pump Assembly - Mounts to Bottom of MSD's Vacuum Cavity	\$5,000.00
3162-0125	Pump	(Edwards E2M1) Rough Pump Assembly - for 120V Operation	\$1,300.00
* 05971-69149	Pump	(Edwards E2M2) Rough Pump Assembly - for 120V Operation	\$1,640.00
3162-0149	Pump	(Edwards E2M2) Rough Pump Assembly - for 120V Operation	\$1,640.00
3162-0126	Pump	(Edwards E2M1) Rough Pump Assembly - for 240V Operation	\$1,430.00
05989-80024	Pump	(Edwards E2M2) Rough Pump Assembly - for 240V Operation	\$2,010.00
* 05989-89024	Pump	(Edwards E2M2) Rough Pump Assembly - for 240V Operation	\$2,010.00

## System Software

G10398	CD ROM	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for HP-UX System ChemStations (Software Requires 4.5MB of Free Disk Space) - on CD ROM	\$4,285.00
G1034C	Software	MS ChemStation DOS System Operating Software - Requires 10MB of Free Disk Space	\$7,350.00
G1038A	Software	MS Pesticide Library - for DOS System Chemstations - Requires 1MB of Free Disk Space	\$805.00
G1042A	Software	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for DOS System ChemStations (Software Requires 4.5MB of Free Disk Space)	\$2,970.00

## Vac Interface Flange/RFPA

05970-00026	Clip	Flange Locking Clip - Holds the Vacuum Interface Flange/RFPA Housing Assembly to the MSD's Vacuum Cavity (4 Used)	\$14.80
05970-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2400V (Recommended Replacement Multiplier)	\$925.00

1970-0216	Electron Multiplier	Electron Multiplier Assy (by Galileo) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2000V (Used ONLY for Option 410)	\$875.00	
0100-0369	Fitting	Cajon Fitting/Adapter (3/4 in to 1 in) - on Rear Side of Vacuum Interface Flange (For Optional Ion Gauge Tube)	\$95.00	
Page: 6				
05996-60130	Flange	Vacuum Interface Flange - Plate with a Round Flange which Mates to the Vacuum Cavity in the MSD (The Mass Analyzer Assembly Mounts to this Flange)	\$2,760.00	
0570-0124	Hardware	Bolt (10-32 x 1/2 in Long) - Holds Flange Locking Clips to the Vacuum Interface/RFPA Housing Assembly	\$3.00	
0100-0984	Nut	Knurled Nut - Holds Teflon Vial to Calibration Valve	\$9.00	
0905-0456	O-Ring	0.737in O-Ring - Provides a Seal Between the Cajon Plug (Or Option Ion Gauge Tube) and the Cajon Fitting (on the Rear Side of the Vacuum Interface Flange)	\$1.65	
0905-0802	O-Ring	0.989in ID O-Ring - Provides Seal Between Cajon Plug and Cajon Fitting	\$5.00	
5182-0570	O-Ring	5.859in ID Viton O-Ring - Provides Seal Between Vacuum Interface Flange and the Vacuum Cavity in the MSD (G/Pkg)	\$56.00	
05970-60114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	
* 05970-69114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	\$390.00
05985-60317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	
* 05985-69317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	\$330.00
05990-60012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	
05990-60303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	
* 05990-69012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	\$380.00
* 05990-69303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	\$403.00
05970-20043	Plug	Cajon Plug - Seals the Cajon Fitting (When an Optional Ion Gauge Tube is Not Attached to the Vacuum Interface Flange)	\$47.70	
05995-08073	Pointer	Flange Pointer - Attaches to Front Side of Vacuum Interface Flange - Aligns the Vacuum Interface Flange/RFPA Housing Assembly to the Vacuum Cavity	\$45.60	
05970-60014	Valve	Replacement Calibration Valve Assembly - Includes Restrictor	\$435.00	
05970-20103	Vial	Teflon Vial (Attaches to Calibration Valve) - Holds PFTBA Solution	\$15.90	

\* = Exchange Part

= = Call (800) 227-8164 for volume discount

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- Commercial Electronic Support Services - Support Information and Drivers  
Internet Provider World Wide Web URL  
To get a CompuServe Account (Ask for Rep 51)  
To get an America Online Account (Ask for preferred customer 1118)
- HP-BBS Library Service - Support Information and Drivers
- HP Distribution - Drivers, Software hard copy distribution service
- Fax Access - HP PC and Peripheral product information on all HP Computer Products
- Customer Support Center - Printers, Plotters, Scanners, Faxes, JetAdmin and JetDirect
- Customer Support Center - Vectra, NetServer, Mass Storage and Networking Products
- Customer Support Center - Vectra 500 Series PC Products
- Customer Support Center - Handheld Products
- Customer Support Center - OmniBook/NoteBook PC Products
- Customer Support Center - Pavilion Series PC Products
- Customer Information Center - Pre-sales information on all HP Computer Products

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1 970 392-1001  
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1 800 387-3867 (Canada)

To: HEWLETT-PACKARD'S CUSTOMER

Date: 9-2-97

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INDEX #	PRODUCT	DOC #	PRODUCT
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19911	HP SCANJET PRODUCTS - MAC	2601	DESKJET PRODUCT
19912	HP DESKJET/DESKWRITER - MAC	3501	DESKJET - MAC PRODUCT
19913	HP PAINTJET/PAINTWRITER PRODUCTS - MAC	3502	PLOTTER - MAC PRODUCT
19920	HP LASERJET PRODUCTS	3503	LASERJET - MAC PRODUCT
19921	HP SCANJET PRODUCTS	3504	SCANJET - MAC PRODUCT
19922	HP FAX PRODUCTS	3505	SCANJET PRODUCT
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HEWLETT PACKARD SERVICE PARTS PRICE LIST

HP CHROMATOGRAPHS Prices are in U.S. dollars  
Effective from 10/01/97 to 12/31/97

PART NUMBER	DESCRIPTION	NEW / EXCH PART #	LIST PRICE	EXCHANGE PRICE
0100-0900	UNION, ZERO DEAD		\$70.00	
0100-1176	MUFFLER		\$21.20	
0100-1205	ADAPTER, SEAL FITTING		\$1.65	
0100-1214	PORT, LOOP FILLER		\$126.00	
0101-0376	LOOP, 10 UL		\$50.00	
0101-0377	LOOP, 20 UL		\$45.00	
0101-0378	LOOP, 50 UL		\$48.00	
0101-0379	LOOP, 100 UL		\$48.00	
0101-0558	VALVE SW ADJ AY		\$660.00	
0101-0559	VALVE SOLENOID		\$275.00	
0101-0607	RHEODYNE VALVE 7125		\$655.00	
0101-0641	INJ. VALVE, MANUAL, TI		\$1,045.00	
01010-80002	HYDROLIC FLUID, 10ML		\$18.00	
01018-23207	ADAPTER, SHORT		\$82.15	
01018-44901	HANDLE		\$8.75	
01018-45101	DOOR HINGE		\$7.00	
01018-47412	ON/OFF KNOB		\$8.25	
01018-47413	REGULATOR KNOB A		\$14.50	
01018-47414	REGULATOR KNOB B		\$7.25	
01018-47415	REGULATOR KNOB C		\$7.25	
01018-47416	KNOB, REG		\$8.25	
01018-60001	ASSY, METERING DRIVE	01018-69100	\$2,490.00	
01018-60004	COMPLETE PUMP HEAD, ENH		\$2,650.00	
01018-60007	FRIT ADAPTER ASSEMBLY		\$128.00	
01018-60008	OUTLET BALL VALVE TI		\$271.00	
01018-60009	REPLACEMENT PURGE VALV		\$338.00	
01018-60010	ACTIVE INLET VALVE		\$385.00	
01018-60019	SOLVENT COMPARTMENT		\$435.00	
01018-60025	SOLVENT INLET FILTER,		\$68.00	
01018-60201	MODULE, KEYBOARD		\$195.00	
01018-60301	PUMP, FRONT DOOR		\$55.00	
01018-60302	COLUMN HEATER DOOR		\$29.00	
01018-66501	MOTHERBOARD, PUMP		\$445.00	
01018-66503	BOARD, RAD	01018-69503	\$400.00	
01018-66505	BOARD, CONNECTION		\$77.00	
01018-66506	BOARD, SFW		\$210.00	
01018-66517	HRI BOARD	01018-69517	\$510.00	
01018-66518	HRQ BOARD	01018-69518	\$530.00	
01018-66532	PDC2 BOARD	01018-69532	\$400.00	
01018-66901	HEATER ASSEMBLY		\$900.00	
01018-67001	ASSY, HELIUM REGULATOR		\$477.00	
01018-67302	PISTON 2, CAPILLARY		\$90.00	
01018-67304	ORD G1311-67304 ON CPL		\$63.60	
01018-67309	CAPILLARY PISTON 1, ENH		\$63.60	
* 01018-69100	RSTRD-60001		\$2,490.00	\$795.00
* 01018-69503	RAD BOARD	01018-66503	\$400.00	\$295.00
* 01018-69517	RSTRD-66517		\$510.00	\$445.00
* 01018-69518	RSTRD-66518		\$530.00	\$520.00
* 01018-69532	RSTRD-66532		\$400.00	\$280.00
01019-60002	TI PUMP HEAD ASSY		\$3,600.00	
01019-60005	TI DAMPING UNIT		\$1,330.00	
01019-60010	TI ACTIVE INLET UNIT		\$1,480.00	
01019-67301	TI CAPILLAY PISTON 1		\$297.00	
01019-67302	TI CAPILLAY PISTON 2		\$276.00	
01019-67701	TI MC GV		\$1,480.00	
01040-60101	SIGNAL CABLE 1040/BOX		\$170.00	
01040-60201	CABLE, REMOTE		\$154.00	
01040-60202	REMOTE CONTRL CABLE		\$175.00	
01040-60203	CABLE, REM STRT 3390		\$159.00	
01040-60204	REMOTE START CABLE		\$228.00	
01040-60205	REMOTE START CABLE		\$154.00	
01046-60105	CABLE, UNIVERSAL DATA		\$68.90	
01046-60200	CABLE, HP1081 REMOTE		\$148.00	
01046-60201	CABLE, UNIVERSAL REMOTE		\$127.00	
01046-60202	CABLE, HP1090 REMOTE		\$143.00	
01046-60203	CABLE, HP3390 REMOTE		\$185.50	
01046-60206	CABLE, HP 3392 REMOTE		\$190.00	
01046-60210	REMOTE CABLE 3394		\$240.00	
01048-60011	EX MHD OPTICAL	01048-69011	\$3,180.00	
01048-60013	FLOW CELL ASSEMBLY		\$931.00	
01048-60024	EX OPTICAL UNIT	01048-69024	\$3,290.00	
01048-60201	MODULE, KEYBOARD		\$265.00	
01048-60202	KEYBOARD PANEL DAD		\$240.00	
01048-60301	PANEL, FRONT		\$122.00	
01048-61901	SHUTTER ASSY		\$340.00	
01048-66501	ASC BOARD ASSY	01048-69501	\$742.00	
01048-66502	DAC BOARD ASSY	01048-69502	\$820.00	



01048-66504	FIM BOARD ASSY		\$287.00	
01048-66509	LUC BOARD ASSY		\$170.00	
01048-66510	LUM BOARD ASSY		\$360.00	
01048-66543	AQB BOARD	01048-69543	\$424.00	
* 01048-69011	EX MWD OPTICAL	01048-60011	\$3,180.00	\$1,007.00
* 01048-69024	EX OPTICAL UNIT	01048-60024	\$3,290.00	\$1,010.00
* 01048-69501	ASC BOARD ASSY	01048-66501	\$742.00	\$477.00
01048-69502	DAC BOARD ASSY	01048-66502	\$820.00	\$520.00
01048-69543	AQB BOARD	01048-66543	\$424.00	\$308.00
01048-87305	HEAT EXCHANGER ASSY		\$556.50	
* 01050-69374	DPS-B	5061-3374	\$636.00	\$380.00
* 01050-69375	DPS-A	5061-3375	\$1,330.00	\$610.00
* 01050-69580	CMP BOARD	5061-3380	\$1,030.00	\$530.00
* 01050-69582	EX CIR BOARD	5061-3382	\$400.00	\$217.00
* 01050-69592	EX CRB BOARD	5062-2482	\$489.00	\$318.00
01050-90102	1050 SERVICE MANUAL		\$159.00	
01078-04110	COVER, TOP		\$330.00	
01078-44501	TRAY, SAMPLE		\$68.00	
01078-44511	34 VIAL TRAY		\$58.00	
01078-60001	SAMPLING UNIT		\$2,650.00	
01078-60002	DRIVE, METERING		\$800.00	
01078-60003	ANALYTICAL HEAD ASSY		\$740.00	
01078-60004	SWITCHING VALVE 79855A	01078-69004	\$2,330.00	
01078-60201	MODULE, KEYBOARD		\$235.00	
01078-60301	PANEL, FRONT		\$55.00	
01078-61601	CABLE, PRESS SWITCH		\$17.50	
01078-64702	TRAY MOTOR ASSY		\$138.00	
01078-64703	SPINDLE MOTOR ASSY		\$530.00	
01078-66101	ASSEMBLY, PNEUMATIC		\$420.00	
01078-66501	BOARD, VMD	01078-69501	\$488.00	
01078-66502	BOARD, NMO	01078-69502	\$558.00	
01078-66504	ALM		\$392.00	
01078-66506	BOARD, FIM		\$210.00	
01078-66513	MTD BD FOR B TRAY	01078-69513	\$820.00	
01078-68720	FAN UPGRADE KIT		\$133.00	
* 01078-69004	SWITCHING VALVE 79855A	01078-60004	\$2,330.00	\$795.00
* 01078-69501	VMD BOARD	01078-66501	\$488.00	\$265.00
* 01078-69502	NMD BOARD	01078-66502	\$558.00	\$287.00
* 01078-69513	RSTRD-66513		\$820.00	\$370.00
01078-07302	CAPILLARY, 100UL LOOP		\$160.00	
01079-60001	TI-SAMPLING UNIT		\$2,860.00	
01079-60003	TI ANALY HEAD ASSY		\$1,170.00	
01079-69004	TI-SWITCHING VALVE EX		\$875.00	
01079-87302	TI LOOP CAPILARY 100UL		\$716.00	
01090-02701	FILTER, LUSI AIR		\$8.75	
01090-04102	LABEL, LEFT		\$18.00	
01090-04133	WINDOW, COVER ALS		\$26.00	
01090-04135	COVER L II		\$71.55	
01090-04142	COVER BASE, LEFT		\$63.60	
01090-04143	LABEL RIGHT		\$28.60	
01090-04144	COVER BASE, RIGHT		\$46.65	
01090-07101	AIR FILTER FOR HP1090		\$12.00	
01090-07703	BOTTLE, BASE		\$63.65	
01090-21202	CLAMP		\$20.00	
01090-22313	UNION HOLDER		\$77.00	
01090-40303	KEYBOARD, DOOR SYS		\$106.00	
01090-40304	KEYBOARD, DOOR LUSI		\$122.00	
01090-42302	COLUMN HOLDER		\$23.85	
01090-43701	RAIL		\$29.70	
01090-45001	CATCH		\$11.65	
01090-47701	FRAME TOP, LEFT		\$133.00	
01090-47702	FRAME TOP, RIGHT		\$133.00	
01090-47703	FRAME BASE, LEFT		\$122.00	
01090-47704	FRAME BASE, RIGHT		\$122.00	
01090-60003	BOTTLE HOLDER		\$239.00	
01090-60006	BOTTLE HEAD QUAT		\$208.00	
01090-60008	SOLVENT FILTER, SS, 10		\$53.00	
01090-60009	TEFLON TUBING AND GLAS		\$42.00	
01090-60011	INTERFACE, LOCAL USER		\$2,170.00	
01090-60206	REMOTE START CABLE		\$143.00	
01090-60304	OVEN DOOR		\$196.00	
01090-60310	CABLE, CONNECTION		\$207.00	
01090-60312	1090 BCD GEN PURP		\$164.00	
01090-61103	TRANSFORMER, POWER		\$435.00	
01090-61105	HEATER ASSY		\$795.00	
01090-61604	SENSOR PT100 ASSY		\$240.00	
01090-64101	COVER DAD		\$207.00	
01090-64111	COVER, DAD SERIES II		\$276.00	
01090-64112	COVER, ALS SERIES II		\$392.00	
01090-64113	COVER, MAIN SERIES II		\$1,330.00	
01090-66507	BOARD, DKI		\$330.00	
01090-66508	OVI BOARD ASSY		\$190.00	
01090-66509	BOARD, DKU	01090-69509	\$580.00	
01090-66510	LIL BOARD ASSY		\$466.00	
01090-66511	HPIL BD CONNECTOR ASSY		\$154.00	





01090-66522	PWS BOARD	01090-69522	\$530.00	
01090-66523	PSC BOARD	01090-69523	\$489.00	
01090-66524	PSM BOARD ASSY		\$330.00	
01090-66525	PRI BOARD ASSY		\$275.00	
01090-66526	ECI BOARD ASSY		\$190.00	
01090-66529	BOARD, LIB		\$520.00	
01090-66535	BOARD, IBU		\$307.00	
01090-66538	RCI BD		\$275.00	
01090-66540	EXTENDER BOARD ASSY		\$196.00	
01090-66542	MCO BOARD	01090-69542	\$715.00	
01090-66552	SYS KEYBOARD		\$318.00	
01090-66553	LUSI KEYBOARD ASSY	01090-69553	\$690.00	
01090-66554	ISD DRIVER BD ASSY		\$195.00	
01090-66555	PRIMARY BOARD		\$111.00	
01090-66557	CTM BOARD		\$212.00	
01090-66565	MEM BOARD DKC SERIES 1		\$170.00	
01090-66573	MEM BOARD MCO		\$127.00	
01090-66575	MEM BOARD DKC		\$127.00	
01090-66579	LIB BOARD		\$275.00	
01090-67602	OUTLET, HELIUM		\$133.00	
01090-67610	CABLE, EXTENDER		\$66.00	
01090-68520	FAN ASSY DC		\$228.00	
01090-68706	CABINET, SOLVENT		\$201.00	
01090-68708	MCO ASSY KIT	01090-69708	\$850.00	
01090-68715	KEYBD DOOR SERIES II		\$180.00	
01090-68716	CABINET SOLVENT SII		\$170.00	
* 01090-69509	BOARD, DKC	01090-66509	\$580.00	\$360.00
* 01090-69522	PWS BOARD	01090-66522	\$530.00	\$390.00
* 01090-69523	PSC BOARD	01090-66523	\$489.00	\$340.00
* 01090-69542	RSTRD-66542		\$715.00	\$477.00
* 01090-69553	RSTRD-66553		\$690.00	\$530.00
* 01090-69708	MCO ASSY KIT	01090-68708	\$850.00	\$600.00
01090-82701	SOLVENT FILTER KIT FOR		\$117.00	
01090-87304	FLEX CAPILLARY 0.17X28		\$74.00	
01090-87305	FLEX CAPILLARY, 0.17X1		\$79.00	
01090-87602	BOTTLE, CONN		\$175.00	
01090-87606	SOLVENT TUBING FOR HP		\$35.00	
01090-87610	FLEX CAPILLARY, 0.12X2		\$73.00	
01090-87611	FLEX CAPILLARY, 0.12X1		\$73.00	
01090-90024	HBOOK 1090 II/L		\$58.00	
01090-90100	HP1090 SERIES A SERVIC		\$115.00	
01090-90211	GETTING READY		\$15.00	
03394-60550	CABLE, 1090A REM CONTR		\$106.00	
03394-60600	REMOTE CABLE, 1046/1050		\$87.50	
03396-60560	SAMPLE NO. CABLE, 7673		\$74.20	
03396-60580				
03396-61010	3395B/95C/97A		\$64.00	
03396-61020	CABLE, ANALOG 33595A/		\$64.00	
0380-0644	STANDOFF, METRIC		\$4.30	
0380-1102	STANDOFF, HEX		\$.95	
0403-0427	FOOT-BUMPER, REAR		\$1.00	
05890-00390	COVER, AC REAR		\$103.00	
05890-00395	REAR COVER ASSY		\$95.00	
05890-00810	BASKET, CHEM TRAP		\$21.20	
05890-40080	BODY, CONNECTOR		\$8.20	
05890-40100	PANEL, FLOW SIDE		\$77.00	
05890-40110	PANEL, ELEC SIDE		\$69.00	
05890-40115	RIGHT SIDE PANEL		\$66.00	
05890-40120	COVER, ELEC TOP		\$50.00	
05890-40125	ELECT TOP COVER		\$32.90	
05890-40130	DOOR, FLOW		\$29.70	
05890-60035	DISPLAY, PCB		\$170.00	
05890-60050	BOARD, SINGLE 120 PC		\$307.00	
05890-60060	BOARD, \$220/240 PC		\$297.00	
05890-60070	PCB, AC 200/240V		\$339.00	
05890-60740	KEYBOARD BEZEL ASSY		\$148.00	
05890-60747	KEYBOARD BEZEL ASSY		\$87.00	
05890-60760	3390 OUTPUT CABLE		\$58.00	
05890-60780	INTEGRATOR CABLE		\$85.00	
05890-60790	CABLE, 3350 OUTPUT		\$122.00	
05890-60800	CBL, DP OUTPUT		\$106.00	
05890-60870	USA 120 CABLE ASSY		\$26.50	
05890-60880	220V CABLE ASSY		\$63.60	
05890-60890	220V/240V CABLE ASSY		\$138.00	
05890-60900	240V CABLE ASSY		\$180.00	
05890-60910	240V CABLE ASSY		\$111.00	
05890-60920	200V CABLE ASSY		\$186.00	
05890-60940	STEPPER MOTOR		\$90.00	
05890-60960	220V CABLE ASSY		\$55.70	
05890-60970	120 TRANSFORMER ASSY		\$239.00	
05890-60980	TRANSFORMER, 200V		\$180.00	
05890-60990	TRANSFORMER, 220V		\$244.00	
05890-61000	240V TRANSFORMER ASSY		\$228.00	
05890-61030	OVEN SENSOR AY		\$98.00	
05890-61050	STARTER, STP3390 REMOTE		\$93.00	



05890-61060	RMT/STR/STP 3392	\$101.00	
05890-61070	STARTER,STP LAS REMOTE	\$101.00	
05890-61080	RMT STRT/STP GP	\$122.00	
05890-61140	CABLE, HTR SENSOR	\$201.00	
05890-61160	CABLE, 5890A/18652A	\$127.00	
05890-61170	CABLE, 5880/90A/3388A	\$127.00	
05890-61180	CABLE, 5890A/18762A	\$65.00	
05890-61340	MAINBD EXTDR CBL 5890A	\$58.00	
05890-61367	BZL, KEYBOARD DISPLAY	\$223.00	
05890-61400	OPERATORS MANUAL, GERM	\$177.00	
05890-61410	OPERATORS MANUAL, FREN	\$177.00	
05890-61420	MANUAL KIT, ITALIAN	\$177.00	
05890-61430	OPERATORS MANUAL, SPAN	\$177.00	
05890-61480	LEFT SIDE PANEL	\$154.00	
05890-61570	FLOW DOOR ASSY	\$42.00	
05890-61615	120V RPL OVN SHROUD	\$154.00	
05890-61625	200V RPL OVN SHROUD	\$154.00	
05890-61635	220V RPL OVN SHROUD	\$154.00	
05890-61645	230V RPL OVN SHROUD	\$154.00	
05890-61655	240V RPL OVN SHROUD	\$154.00	
05890-67020	FAN MOTOR BOX KIT	\$212.00	
05890-67030	FAN MOTOR BOX KIT	\$249.00	
* 05890-69015	5890 SER II MAINBOARD	\$690.00	
05890-80220	PROG EPROM REVR	\$31.00	
05890-80270	FAN, STIRRING SST	\$50.00	
05890-80325	PROGRAMMED EPROM	\$26.50	
05890-80560	SHAFT ASSY	\$69.00	
05890-90100	CARD, QUICK REF	\$7.00	
05890-90110	MANUAL, INST	\$208.00	
05890-90140	MNL, 5890A ACCESSORY	\$11.70	
05890-90320	SERVICE MANUAL, ENGLIS	\$224.00	
05890-91000	NAME PLATE	\$6.10	
05890-91100	QUICK REFERENCE CARD,	\$17.00	
05890-91110	MANUAL, 5890A GERMAN R	\$221.00	
05890-92100	CARD, FRENCH QUICK REF	\$17.00	
05890-92110	MANUAL, FRENCH REF	\$216.00	
05890-94100	QUICK REFERENCE CARD,	\$17.00	
05890-94110	REF MANUAL, SPANISH	\$216.00	
0854-0141	PLUG, GLOW; 1.5V	\$19.00	
0905-0103	O-RING, 0.445 OD	\$7.00	
0905-0626	O-RING	\$ .30	
0905-0970	O-RING ID4 48MM	\$37.00	
0905-0997	O-RING	\$ .45	
0905-0998	O-RING	\$2.10	
0905-1194	PUMP SEAL FOR HP 1090	\$63.00	
0905-1259	KALREZ O-RING	\$74.00	
10833A	HP-IB CABLE, 1 METER	\$90.00	
10833B	HP-IB CABLE, 2 METER	\$100.00	
10833C	HP-IB CABLE, 4 METER	\$110.00	
10833D	HP-IB CABLE, .5 METER	\$90.00	
1252-5289	CONNECTOR,MULTICONTACT	\$7.25	
1390-0421	CATCH, FASTENER	\$17.50	
1420-0361	BATTERY, LITHIUM	\$55.00	
1460-1998	SPRING, COMP OD 1725	\$4.00	
1480-0632	PIN - ORLSE	\$12.00	
1500-0635	BELT, GEAR	\$15.00	
1500-0668	BELT, GEAR	\$15.20	
1500-0697	BELT, GEAR	\$13.00	
1500-0698	BELT, SAMPLING UNIT	\$18.00	
1535-4048	ROTOR SEAL VESPEL	\$60.00	
1535-4854	FITTING, NEEDLE PART	\$50.00	
1535-4856	SEAL, ISOLATION	\$58.30	
1535-4860	LOOP, 5 UL 7020	\$73.00	
1535-4861	SEAL, ROTOR 7413	\$95.00	
1535-4862			
1535-4900	SEAL, HIGH PH ROTOR	\$99.00	
18594-60510	CABLE, 3392 BCD	\$122.00	
18594-60520	GROUP, ECD CABLE	\$69.00	
18596M	100-SAMPLE TRAY FOR TH	\$2,900.00	
18710-20119	JET, 2.5 IN	\$42.00	
18740-20800	NUT, REDUCING	\$30.00	
18740-20880	SEAL, STAINLESS STEEL	\$24.00	
18740-20885	GOLD PLATED SEAL	\$30.00	
18740-60830	RETAINER NUT, HEADSPAC	\$34.00	
18740-60835	SER II SEPTUM NUT ASSE	\$35.00	
18740-60840	INSERT, SPLIT, PACKED	\$46.00	#
18740-80190	INSERT, SPLIT, UNPACKE	\$41.00	#
18740-80200	INSERT, DIRECT INJECTI	\$17.00	#
18740-80220	INSERT, SPLITLESS	\$27.00	#
18789-80070	JET TUBE ASSEMBLY	\$42.00	
19231-20520	MANIFOLD, FLOW	\$95.00	
19231-20530	PLUG, VALVE	\$15.40	
19231-20540	VALVE, ON/OFF	\$21.20	
19231-20550	VALVE, FRD IGNTN	\$27.60	
19231-60010	FID BOARD	\$477.00	



19231-60025	DIODE BRIDGE ASSY	\$44.50
19231-60610	RESTR, FID AIR	\$10.60
19231-60620	HEATER	\$39.20
19231-60650	NEEDLE VALVE ASSY	\$95.00
19231-60660	PRT SENSOR	\$82.00
19231-60680	GLOW PLUG/CABLE ASSEMB	\$36.00
19231-60690	COLLECTOR, ASSEMBLY	\$177.00
19231-60710	INTERCONNECT ASSY	\$90.00
19231-60750	FID MANIFOLD ASSY	\$445.00
19231-60770	FID HYD RESTRICTOR	\$15.40
19231-80580	WELDMENT, DETECTOR	\$424.00
19232-20500	MANIFOLD, FLOW BLK	\$95.00
19232-60010	TCD BOARD	\$557.00
19232-60020	SER II TCD PCA	\$413.00
19232-60610	RESISTOR, MAKE-UP	\$14.80
19232-60650	RSTR, REF GAS	\$10.30
19232-60660	PRT ASSY	\$61.00
19232-60676	TCD REPLACEMENT CELL	\$895.00
19232-60680	TCD MANIFOLD ASSY	\$445.00
19232-60725	RP TCD SWITCH VLV KT	\$217.00
19232-80550	ADAPTER, WELDMENT	\$97.00
19233-20515	BLOCK, LOWER HEATER	\$77.00
19233-60600	INTERCONNECT ASSY	\$101.00
19233-60610	ECD MANIFOLD ASSY	\$286.00
19233-60625	ECD HEAT SENSOR	\$122.00
19233-60627	ECD HEATER	\$53.00
19233-60635	ECD SIGNAL	\$19.10
19233-60675	FLOW BLOCK ASSY ECD	\$509.00
19233-67010	ASSY, ANODE FERRULE NUT	\$127.00
19233-69570	HP 5890A ECD (GENERAL)	\$940.00
19233-69576	SERIES II ECD, GENERAL	\$875.00
19233-80510	HEATED BLOCK	\$111.00
19233-80565	ECD MAKE-UP GAS ADAPTE	\$177.00
19234-20610	CONTACT	\$75.00
19234-60012	NPD PCB	\$557.00
19234-60540	NPD COLLECTOR BODY RED	\$131.00
19234-60570	REST, NPD AIR/AUX	\$15.90
19234-60580	TORROID ASSY	\$223.00
19234-60600	RESTRICTOR, NPD AIR	\$20.10
19234-60650	NPD MANIFOLD ASSY	\$413.00
19234-60660	RESTRICTOR, BLUE DOT	\$15.90
19234-60750	CRIMP-NPD TORROID/ BODY ASSY	\$164.00 \$106.00
19235-69530	HP 5890A EDC(SPECIFIC)	\$940.00
19235-69536	SERIES II ECD, SPECIFIC	\$870.00
19239-20550	SOUND INSULATION	\$63.60
19239-60545	CO2 VALVE ASSY	\$254.00
19239-65507	BLAST, LN2 CRYO	\$413.00
19239-65517	KIT, CRYOGENIC LN2	\$329.00
19239-80505	CO2 CRYO WELDMENT	\$55.65
19239-80535	LNT BRAZE MOUNT CYROB	\$111.00
19242-60015	BUFFERED INLET I/F BD	\$392.00
19242-60030	BOARD, RS232 PC	\$519.00
19243-60500	NONPURGING SEPTUM NUT	\$59.00
19243-60650	REG ASSY, SEPTA PURGE	\$159.00
19243-80500	INJ PORT WELDMENT	\$350.00
19243-80560	WELDMENT, PPIP BASE	\$318.00
19243-80570	WELDMENT, PPIP INSERT	\$118.00
19244-80540	INJECTION PORT LINER 5	\$100.00
19244-80560	CAP COLUMN JET TIP	\$50.00
19244-80620	HIGH T CAP JET WELDMEN	\$29.00
19245-20510	NARROW BORE INSERT	\$74.00
19245-20515	250-MICRON INSERT	\$88.00
19245-20525	320 MICRON INSERT	\$64.00
19245-20550	GLASS INSERT	\$39.00
19245-20580	530 MICRON INSERT	\$45.00
19245-20780	530U INSERT-ALUMINUM C	\$35.00
19245-60510	PCOC COOLING FAN ASSY	\$42.40
19245-60760	PCOC INSERT SPRING	\$7.00
19245-80521	PCOC SEPTUM NUT BASE	\$50.90
19245-80550	CRYO BLAST NOZZLE	\$79.50
19246-60530	PRESSURE REGULATOR	\$117.00
19246-60570	BACK PRESSURE REGULATO	\$144.00
19247-60510	DEFLECTOR, OVEN EXHAUS	\$112.00
19251-00100	WRENCH, ANGLED	\$24.00
19251-20620	CAPILLARY INJECTION RT	\$24.00
19251-60540	LINER, SPLIT WITH GLAS	\$26.00
19251-60560	CAPILLARY INJ SOL ASSY	\$159.00
19251-60575	ASSEMBLY, INSERT	\$194.00
19251-80570	WELD, 5890 SHELL	\$191.00
19256-20730	DRIP TUBE, 5890 FPD	\$31.00
19256-60010	BOARD, FPD PC	\$583.00
19256-60510	TUBE ASSY	\$1,700.00
19256-60540	HEATER/SENSOR ASSY	\$159.00
19256-60590	FERRULE/LINER KIT	\$69.00



19256-60630	FPD MANIFOLD ASSY	\$466.00
19256-80000	FILTER, SULFUR 5890 FP	\$293.00
19256-80010	FILTER, P 5890 FPD	\$293.00
19256-80030	WINDOW, FIRST	\$30.00
19256-80060	WINDOW, SECOND	\$31.00
19257-00035	PANEL, REAR	\$122.00
19257-60015	HP1B INTERFACE, RFI	\$260.00
19257-60020	CONNECTOR PCB ASSY	\$244.00
19257-60505	CABLE HP1B/RS232	\$36.00
19261-60010	BOARD, ANALOG	\$339.00
19301-00150	NUT, WRENCH THR	\$8.00
19310-20500	NOZZLE	\$38.20
19320-60656	30 PSI GAUGE KIT	\$73.00
19325-20640	PISTON	\$45.60
19325-20650	PISTON ROD	\$21.70
19325-60660	ACTR ASSEMBLY	\$297.00
19325-80010	LINK	\$42.40
19358-20520	BLOCK, HEATED	\$43.45
19361-60566	100 PSI REPLACEMENT GA	\$73.00
19362-60565	MASS FLOW CNTRLR WITH	\$227.00
19362-60575	MASS FLOW CNTRLR 400CC	\$227.00
2110-0001	FUSE, 1 AMP	\$3.00
2110-0002	FUSE, 2 AMP MED	\$8.85
2110-0003	FUSE, 3 AMP, BUY IN 5'S	\$3.00
2110-0004	FUSE, .25 AMP MED	\$1.40
2110-0007	FUSE, 1 AMP SLOW	\$9.90
2110-0030	FUSE, 5 AMP SLOW	\$2.00
2110-0036	FUSE, 8 AMP MED	\$1.10
2110-0054	FUSE, 15 AMP SLOW	\$9.95
2110-0055	FUSE, 4 AMP MED	\$1.10
2110-0083	FUSE, 2.5 AMP MED	\$1.00
2110-0098	FUSE, 20 AMP MED	\$1.00
2110-0099	FUSE, 1 AMP FAST	\$3.00
2110-0303	FUSE, 2 AMP SLOW	\$1.05
2110-0304	FUSE, 1.5 AMP SLOW	\$4.80
2110-0342	FUSE, 8 AMP	\$3.00
2110-0421	FUSE, .375 AMP	\$3.00
2110-0422	FUSE, 6.25 AMP SLO	\$9.95
2110-0565	CAP, FUSE GRAY UL/CSA	\$9.95
2110-0566	HOLDER, FUSE	\$2.40
2110-0761	FUSE, 48023A & 48026A	\$1.30
24542M	RS-232C US/EURO, MODEM	\$45.00
3101-0402	SWITCH, ON/OFF	\$8.00
3107-0018	SWITCH, PRESSURE	\$27.50
3107-0019	SWITCH, 1/8" LD AIR PRSS	\$42.00
3110-0162	HINGE ASSY	\$24.00
3140-0675	MOTOR, STEPPER	\$100.00
3140-0682	MOTOR, AC 230V	\$154.00
3140-0683	MOTOR, AC 115V	\$185.50
3150-0462	FILTER FOAM LARGE	\$15.00
3150-0463	FILTER FOAM SMALL	\$15.00
3160-0402	FAN, CROSSFLOW	\$116.00
3160-0421	FAN, TBAX	\$75.00
3160-0547	FAN, 24V DC	\$66.00
3160-0861	FAN FOR 79847B	\$72.50
3160-0862	FAN ASSY FOR 79855A	\$74.00
35900-60670	CABLE, GEN PUR REMOTE	\$92.20
35900-60710	CABLE, 1090 REMOTE	\$87.50
35900-60750	CABLE, 1046 SIGNAL	\$61.00
3980-0672	SAPPHIRE PISTON FOR HP	\$91.00
5001-3724	PUMP, TOP COVER	\$212.00
5021-7127	POLY TUBING	\$8.00
5041-1203	BUTTON, PWR WHITE	\$1.00
5041-2106		
5041-2107	BASE, LEFT FRAME	\$115.00
5041-2109	TOP, LEFT FRAME	\$143.00
5041-2142	SENSOR, INTERRUPTOR	\$39.00
5041-2161	FOOT, FRONT	\$12.50
5041-2162	ACTUATOR	\$14.00
5041-2170	PLATE, NAME	\$12.50
5061-3349	MICRO-VIAL TRAY	\$40.00
5061-3352	CABLE INTERFACE ASSY	\$43.45
5061-3356	SENSOR, LEAK	\$63.60
5061-3374	DPS, B 01050-69374	\$636.00
5061-3375	DPS, A 01050-69375	\$1,330.00
5061-3376	FIP, FLOURESCENT INTFC	\$360.00
5061-3378	CABLE, REMOTE	\$50.00
5061-3380	CMP BOARD ASSY 01050-69580	\$1,030.00
5061-3382	CIB BOARD AY 01050-69582	\$400.00
5061-3400	CABLE, DISPLAY BOARD	\$38.00
5061-5867	FPD O-RING 12/PK	\$14.00
5062-2410	CABL.AY-INT.FACE	\$30.00
5062-2416	CABLE, CONNECTOR BOARD	\$32.00
5062-2482	CRB BOARD AY 01050-69592	\$489.00
5062-2494	PISTON SEALS FOR HP 10	\$115.00





5062-3587	LINER, BORISILICATE TA	"	\$34.00	
5080-8728	SEPTA, 3/8" GRAY 24/P		\$30.00	
5080-8732	SLEEVES 25/PK		\$34.00	
5080-8774	FERRULE, 10/PK		\$39.00	
5080-8872	5700/5800 NP CARTRIDGE		\$123.00	
5080-8894	SEPTA, 11MM GRAY 144/		\$65.00	
5080-8896	SEPTA, 11MM GRAY 24/P		\$30.00	
5180-0841	VIALS, MICRO 500/PK	"	\$130.00	
5180-0842	MICRO VIAL CAPS 500/P	"	\$135.00	
5180-0843	SLEEVES, MIC VIAL 10/		\$14.00	
5180-4150	CLEANING WIRES FOR 0.0		\$8.00	
5180-4152	CLEANING WIRES: 0.018"		\$14.00	
5180-4153	CAPILLARY INLET CLEANI		\$8.00	
5180-4181	0-RINGS, UNGREASED 12		\$12.00	
5181-1251	0-RING, GREASED		\$4.90	
5181-1260	SEPTA 5MM THRU HOLE 2	"	\$26.00	
5181-1261	SEPTA 5MM 25PK		\$26.00	
5181-1263	SEPTA 11MM NO HOLE 25	"	\$26.00	
5181-3315	LINER DEACTIVATED	"	\$34.00	
5181-3316	DEACTIVATED LINER	"	\$31.00	
5181-3400	2ML VIAL & CAP KIT		\$111.00	
5181-8801	2ML VIAL AMBER & 11MM		\$136.00	
5181-8818	SPLITLESS LINER 2MM ID	"	\$30.00	
5181-8830	COLUMN NUT 2/PK		\$24.00	
5182-0538	2ML VIAL 100PK	"	\$16.00	
5182-0539	2ML AMBER VIAL 100/PK	"	\$18.00	
5182-0739	HIGH TEMPERATURE, LOW		\$63.00	
6010-0694	PAINT, COCO-BRN 6.5 OZ		\$25.00	
6010-0695	PAINT, PEARL GR 6.5 OZ		\$20.00	
6010-1146	PAINT TOUCH-UP 6.5OZ/CN		\$23.00	
6010-1148	PAINT, TOUCH-UP 6.5OZ/CN		\$17.50	
7121-5291	TI NAME PLATE		\$9.00	
79835-04123	DIAPHRAGM FOR SOLVENT		\$40.00	
79835-22330	HOLDER, UNION		\$63.65	
79835-43101	GUIDE, PLUNGER		\$25.45	
79835-43613	BELT GEAR DRIVER		\$7.15	
79835-43615	BELTGEAR 50HZ AY		\$30.75	
79835-43616	BELT GEAR ASSY 60HZ		\$31.80	
79835-44103	HOUSING COVER		\$14.80	
79835-60003	LPC ASSY	79835-69003	\$1,380.00	
79835-60005	HP DAMPER		\$800.00	
79835-60011	PUMP, 220V/50HZ	79835-69004	\$3,390.00	
79835-60012	PUMP, 115V/60HZ	79835-69009	\$3,710.00	
79835-60020	MET PUMP NO VALVE INCL	79835-69020	\$3,180.00	
79835-60021	VALVE, ROTARY	79835-69021	\$1,590.00	
79835-61111	OVERRIDE VALVE		\$196.00	
79835-61112	OVERRIDE 350		\$233.00	
79835-61620	SENSOR, LEAK II		\$58.30	
79835-65213	REPLACEMENT SIEVE FOR		\$23.00	
79835-65216	REPLACEMENT SIEVE FOR		\$29.00	
79835-66511	SDM BOARD ASSY		\$720.00	
79835-66512	IOC BOARD ASSY		\$201.00	
79835-66515	MPL BOARD ASSY		\$76.85	
79835-66516	KVS BOARD ASSY		\$100.75	
79835-66517	PSS BOARD ASSY		\$71.50	
79835-66520	SIC BOARD ASSY		\$307.00	
79835-66521	MCD BOARD ASSY	79835-69521	\$715.00	
79835-66522	SMD BOARD ASSY		\$557.00	
79835-66523	BCT BOARD ASSY		\$148.00	
79835-66534	CVD BOARD ASSY		\$382.00	
79835-67101	CHECK VALVE CARTRIDGE		\$129.00	
79835-67102	CHECK VALVE CARTRIDGE,		\$180.00	
79835-67701	VALVE, MCG	79835-69701	\$1,430.00	
79835-68721	MCGV UPGRADE KIT		\$370.00	
79835-68722	MCD ASSY KIT(66520,665	79835-69722	\$901.00	
* 79835-69003	LPC ASSY	79835-60003	\$1,380.00	\$610.00
* 79835-69004	BOOSTER PUMP 50	79835-60011	\$3,390.00	\$980.00
* 79835-69009	BOOSTER PUMP 60	79835-60012	\$3,710.00	\$980.00
* 79835-69020	MET PUMP NO VALV	79835-60020	\$3,180.00	\$930.00
* 79835-69021	VALVE, ROTARY	79835-60021	\$1,590.00	\$500.00
* 79835-69521	MCD BOARD ASSY	79835-66521	\$715.00	\$455.00
* 79835-69701	MC GV	79835-67701	\$1,430.00	\$660.00
* 79835-69722	MCD ASSY KIT(66520,665	79835-68722	\$901.00	\$636.00
79835-87330	SOLVENT MIXER		\$170.00	
79841-65501	INJECTOR LUBRICANT		\$22.00	
79846-23203	FLASH UNION		\$21.50	
79846-23702	ARM 1, BAR SWIVEL		\$24.90	
79846-24501	WASTE SLEEVE, 25 UL		\$25.00	
79846-24502	WASTE SLEEVE, 250 UL		\$25.00	
79846-27101	SEAL, THREADED END OF		\$12.00	
79846-27103	SEAL, THREADED END OF		\$14.00	
79846-27303	WASTE TUBE FOR HP1090		\$21.00	
79846-44701	SUPPORT		\$42.40	
79846-45001	ARM, SWIVEL		\$28.60	
79846-60001	HP VALVE UNIT	79846-69001	\$2,390.00	



79846-60002	DEVICE, METERING		\$900.00	
79846-60005	UNIT, VIAL SWIVEL		\$223.00	
79846-66501	ICO INJECTOR BOARD AY		\$307.00	
79846-66502	LIGHT SWI BOARD ASSY		\$66.25	
79846-66503	LIGHT SWI BOARD ASSY		\$53.00	
79846-66504	LIGHT SWI BOARD ASSY		\$63.60	
79846-66505	BOS LIGHT SW BOARD AY		\$58.30	
79846-67101	NEEDLE SEAT ASSEMBLY		\$33.00	
79846-67103	ARM ASSY		\$212.00	
79846-67901	SYM ASSY		\$111.00	
79846-67902	FLUSH VALVE		\$452.00	
79846-68101	METERING BASE ASSY		\$382.00	
* 79846-69001	HP VALVE UNIT	79846-60001	\$2,390.00	\$740.00
79846-87201	NEEDLE INSERT FOR HP 1		\$50.00	
79846-87202	NEEDLE INSERT, 250UL		\$70.00	
79846-87601	SYRINGE CAPILLARY, SYR		\$88.00	
79846-87604	SAMPLE LOOP CAPILLARY,		\$82.00	
79846-87612	LOOP CAP 125 UL		\$111.00	
79846-87613	SAMPLE LOOP CAPILLARY,		\$111.00	
79847-42001	HEAT EXCHANGER TCAS		\$424.00	
79847-43701	MAGAZINE HOLDER 1		\$16.95	
79847-43702	MAGAZINE HOLDER 2		\$16.95	
79847-43703	MAGAZINE HOLDER 3		\$16.95	
79847-43704	MAGAZINE HOLDER 4		\$16.95	
79847-43705	MAGAZINE HOLDER 5		\$16.95	
79847-43706	MAGAZINE HOLDER 6		\$16.95	
79847-43707	MAGAZINE HOLDER 7		\$16.95	
79847-43708	MAGAZINE HOLDER 8		\$16.95	
79847-43709	MAGAZINE HOLDER 9		\$32.00	
79847-43710	MAGAZINE HOLDER 0		\$16.95	
79847-45001	DRIVER		\$15.90	
79847-60005	MAGAZINE FOR HP 1090 L		\$14.00	
79847-66501	SCO SAMPLER BOARD ASSY		\$212.00	
79847-66502	CPS LIGHT SWI BOARD AY		\$74.25	
79847-66503	MIP LIGHT SWI BOARD AY		\$63.60	
79847-66504	VCS LIGHT SWI BOARD AY		\$71.50	
79847-66510	SWITCH, CPS LIGHT		\$127.00	
79847-66511	SWITCH, MIP LIGHT		\$93.00	
79847-66512	SWITCH, VCS LIGHT		\$106.00	
79847-67901	CAR MOTOR ASSY		\$122.00	
79847-67902	MAG MOTOR ASSY		\$122.00	
79852-90001	QUICK REFERENCE GUIDE		\$8.00	
79852-90003	INSTRUCTION KIT FOR		\$95.00	
79852-90006	INSTRUCTION KIT FOR		\$106.00	
79852-90007	INSTRUCTION KIT FOR		\$180.00	
79852-90008	INSTRUCTION KIT FOR HP		\$73.00	
79853-13002	ROM DCB HPIB		\$133.00	
79853-13004	ROM HPIB		\$133.00	
79853-13005	ROM, DCB 53C-4.24		\$118.50	
79853-60000	79853C STANDARD FLOW C		\$946.00	
79853-60002	D2 LAMP ASSEMBLY		\$327.00	
79853-60003	HIGH PRESSURE FLOWCELL		\$2,586.00	
79853-60004	FLOWCELL, SST MICRO		\$1,384.00	
79853-60005	FLOWCELL, 10MM, TI		\$1,800.00	
79853-60006	PREP FLOWCELL, SST		\$1,352.00	
79853-60010	MICRO FLOW CELL, SS		\$1,321.00	
79853-60011	STANDARD FLOW CELL TI		\$1,493.00	
79853-60012	PREP FLOW CELL TI		\$1,144.00	
79853-60013	ULTRA HIGH PRESSURE CE		\$2,180.00	
79853-60015	OPT 53C "D" W/FLOW CELL	79853-69015	\$4,980.00	
79853-60203	PANEL W/ELECT FOR 53A/		\$1,380.00	
79853-61101	SAMP DIODE AY		\$413.00	
79853-61102	REF DIODE AY		\$318.00	
79853-61106	POS SENSOR GRATING		\$66.00	
79853-61107	POS SENSOR FILTER		\$66.25	
79853-61109	DIODE SAMPLE		\$413.00	
79853-61110	DIODE REFERENCE		\$330.00	
79853-61601	CABLE DCB-KDI 53A		\$77.00	
79853-61602	CABLE KDI-VFD 53A		\$36.00	
79853-61603	CABLE SAMPLE 53A		\$122.00	
79853-61605	CABLE DCB-PSC 53A/C		\$13.30	
79853-61609	CABLE AY DCB-KDI		\$66.00	
79853-61610	CABLE HPIB-DCB		\$48.75	
79853-62702	FILTER AY		\$350.00	
79853-64101	COVER ASSEMBLY		\$138.00	
79853-64601	GRATING AY		\$690.00	
79853-64602	GRATING DRIVE AY		\$583.00	
79853-64605	GRATING		\$640.00	
79853-64606	GRATING MOTOR ASSY		\$500.00	
79853-66111	LEAK SENSOR ASSY		\$392.00	
79853-66501	DCB BOARD AY	79853-69501	\$981.00	
79853-66502	BOARD, DISP INTRFC		\$133.00	
79853-66503	DISPLAY MODULE AY		\$403.00	
79853-66504	CONNECTION, BOARD		\$122.00	
79853-66505	PRE-AMP BD AY		\$170.00	



79853-66507	PRE-AMP BOARD SAMPLE		\$223.00	
79853-66508	PRE-AMP BOARD REF		\$223.00	
79853-66510	LEAK BOARD ASSY		\$223.00	
79853-66511	DCB BOARD 53C	79853-69511	\$1,220.00	
79853-66512	PSC BOARD 53C		\$143.00	
79853-67901	STEPPER MOTOR AY		\$445.00	
79853-67909	FILTER MOTOR ASSY		\$498.00	
79853-68101	MIRROR ASSY #1		\$217.00	
79853-68102	MIRROR ASSY #2		\$185.50	
79853-68103	MIRROR ASSY #3		\$190.00	
79853-68104	MIRROR ASSY #4		\$275.00	
79853-68107	MIRROR #1		\$121.00	
79853-68108	MIRROR #2		\$127.00	
79853-68109	MIRROR #3		\$138.00	
79853-68501	FAN ASSEMBLY		\$80.00	
79853-68502	FAN ASSY (HIGH)		\$82.15	
79853-68503	FAN ASSY (LOW)		\$82.15	
79853-68711	HP1B INTERFACE		\$930.00	
* 79853-69015	OPT 53C "D" W/FLOW CELL	79853-60015	\$4,980.00	\$2,540.00
* 79853-69501	DCB BOARD ASSY	79853-66501	\$981.00	\$663.00
* 79853-69511	DCB BOARD 53C	79853-66511	\$1,220.00	\$1,000.00
79853-90001	QUICK REFERENCE GUIDE		\$8.00	
79853-90003	INSTRUMENT KIT FOR 105		\$102.00	
79853-90005	VARIABLE WAVELENGTH DE		\$68.00	
79853-90006	INSTRUCTION KIT FOR		\$101.00	
79853-90007	INSTRUCTION KIT FOR		\$255.00	
79853-90009	VARIABLE WAVELENGTH IN		\$53.00	
79854-90001	QUICK REFERENCE GUIDE		\$8.00	
79854-90006	INSTRUCTION KIT FOR		\$87.50	
79854-90007	INSTRUCTION KIT FOR		\$250.00	
79854-90008	INSTRUCTION KIT 4TH ED		\$91.00	
79855-90001	QUICK REF GUIDE FOR HP		\$8.00	
79855-90003	INSTRU KT FR AUTOSMLR		\$144.00	
79855-90006	INSTRUCTION KIT FOR		\$122.00	
79855-90007	INSTRUCTION KIT FOR		\$286.00	
79855-90008	INSTRUCTION KIT/AUTOSA		\$75.00	
79858A				
79880-60002	DEUTERIUM LAMP FOR 105	#	\$463.00	
79881-02401	GEAR, FILTER		\$106.00	
79881-09103	CELL SPRING FOR HP7988		\$8.00	
79881-22403	SCREW FOR FLOW CELL		\$24.00	
79881-25204	CELL HOUSING 6		\$740.00	
79881-27101	CELL GASKET 0.6		\$11.00	
79881-27102	CELL GASKET 1.2		\$11.00	
79881-28101	CELL WINDOW FOR HP 798		\$30.00	
79881-60002	CELL ASSY 1		\$1,640.00	
79881-60004	UNIT, OPTICAL	79881-69004	\$3,820.00	
79881-60006	SMP DIODE ASSY		\$558.00	
79881-60007	REF DIODE ASSY		\$610.00	
79881-62501	WHEEL ASSY		\$111.00	
79881-62760	FILTER KIT FOR HP 1090		\$2,127.00	
79881-62761	1-210 FILTER ASSEMBLY		\$359.00	
79881-62762	2-230 FILTER ASSEMBLY		\$359.00	
79881-62763	3-250 FILTER ASSEMBLY		\$359.00	
79881-62764	4-280 FILTER ASSEMBLY		\$359.00	
79881-62765	5-340 FILTER ASSEMBLY		\$359.00	
79881-62766	6-430 FILTER ASSEMBLY		\$359.00	
79881-62767	7-540 FILTER ASSEMBLY		\$359.00	
79881-62769	FILTER ASSY 269NM		\$360.00	
79881-66501	FMB BOARD ASSY		\$276.00	
79881-66502	ADA BOARD	79881-69502	\$928.00	
79881-66503	PROCESSOR BOARD ASSY	79881-69503	\$636.00	
* 79881-69004	EX FPD OPTICAL	79881-60004	\$3,820.00	\$1,800.00
* 79881-69502	ADA BOARD	79881-66502	\$928.00	\$660.00
* 79881-69503	PROCESSOR BOARD	79881-66503	\$636.00	\$390.00
79883-60002	DEUTERIUM LAMP FOR 105	#	\$494.00	
79883-60051	CELL ASSY FOR 1050, PA		\$796.00	
79883-60052	CELL ASSY FOR 1050, PA		\$796.00	
79883-60054	HIGH PRESSURE FLOW CEL		\$1,894.00	
79883-60055	HIGH PRE MICRO CELL		\$1,894.00	
79883-61901	SHUTTER AY		\$276.00	
79883-66501	BOARD, DPS		\$370.00	
79883-66509	LPC BOARD AY		\$98.00	
79994-90025	4.2 RUN AN ANAL		\$18.00	
79994-90026	4.2 AUTO ANAL		\$18.00	
79994-90027	4.2 FACT FILE		\$45.00	
79994-90028	CUSTOMIZING WITH 4.2 M		\$15.00	
79994-90029	4.2 COMMANDS		\$24.00	
79994-90031	5.2 RUN AN ANAL		\$18.00	
79994-90032	5.2 AUTO ANAL		\$13.00	
79994-90033	5.2 FACT FILE		\$45.00	
79994-90034	CUSTOMIZING WITH 5.2 M		\$13.00	
79994-90035	5.2 COMMANDS		\$24.00	
8120-0698	CABLE ASSY		\$12.00	
8120-1351	POWER CORD, UK, GREY		\$26.00	



8120-1369	POWER CORD, AUSTRALIA		\$18.00	
8120-1378	PWR CORD US 115V GR		\$10.00	
8120-1689	POWER CORD, EUR, GREY		\$22.00	
8120-1840	CABLE ASSY		\$29.00	
8120-2104	POWER CORD, SWITZ, GRY		\$13.50	
8120-2956	POWER CORD, DENMK, GRY		\$16.50	
8120-2957	POWER CORD SET		\$30.00	
8120-4211	PWR CORD, SAFRICA, GRY		\$19.50	
82167-60001	0.5 METER CABLE		\$8.75	
82167-60002	1.0 METER CABLE		\$6.00	
82167-60003	5.0 METER CABLE		\$8.00	
8710-1158	WRENCH		\$378.00	
8710-1346	BRUSH, WIRE		\$8.00	
8710-1643	CRIMPER, 8MM		\$204.00	
9135-0030	FILTER, LINE		\$30.00	
9135-0202	FILTER, LINE		\$32.00	
9301-0633	SYRINGE, 25UL HPLC INJ		\$63.00	
9301-0656	1 LITER SOLVENT RESERV		\$35.00	
9301-0675	REPLACEMENT PLUNGER		\$35.00	
9301-0676	NEEDLE, 250UL		\$15.00	
9301-0677	SYRINGE PLUNGER		\$30.00	
9301-0678	SYRINGE, 1725RN		\$63.00	
9301-0679	NEEDLE, 10-100UL		\$17.00	
9301-0985	DET CLEAN KIT		\$32.00	
9301-1168	VIAL		\$1.25	
G1306-66524	DAD FW REV 1.2	SEE G1306-69524	\$1,590.00	
* G1306-69524	DAD-FIRMWARE	RSTD	\$1,590.00	\$270.00
G1530-00035	REAR LWR COVER		\$46.65	
G1530-00220	REAR TOP COVER		\$39.20	
G1530-00470	MANIFOLD RFI PLATE		\$38.20	
G1530-40010	ON/OFF SWITCH ROD		\$9.00	
G1530-40040	PNEUMATICS TOP COVER		\$31.80	
G1530-40050	LEFT SIDE COVER		\$41.30	
G1530-40070	INJ PORT TOP COVER		\$38.20	
G1530-40115	ELECT. SIDE COVER		\$43.50	
G1530-40125	ELECT TOP COVER		\$19.10	
G1530-40130	DETECTOR TOP COVER		\$39.20	
G1530-40200	INLET FAN COVER		\$11.50	
G1530-60010	MAINBD W/O ROMS	G1530-69010	\$1,540.00	
G1530-60050	AC BOARD, UNIVERSAL		\$249.00	
G1530-60560	CABLE, GEN PURPOSE SIG		\$53.00	
G1530-60570	CABLE ASSEMBLY, 6890A		\$45.00	
G1530-60590	CABLE, 6890, EXT. EVEN		\$39.00	
G1530-60600	CABLE, RS232, 9F/9F		\$45.00	
G1530-60630	CBL, GEN. PURPOSE BCD		\$26.50	
G1530-60690	120V. CONFIG, PLUG		\$14.80	
G1530-60700	220V. CONFIG, PLUG		\$13.30	
G1530-60710	220V. CONFIG, PLUG		\$13.30	
G1530-60720	230V. CONFIG PLUG		\$12.20	
G1530-60730	240V. CONFIG. PLUG		\$12.20	
G1530-60815	OVEN DOOR ASSY		\$498.00	
G1530-60870	CABLE, USA 120V POWER		\$35.00	
G1530-60880	CABLE, EURP 220V POWER		\$44.50	
G1530-60885	CABLE, EURP SP220V PWR		\$44.50	
G1530-60890	CBL, GB/IRELAND 240V PW		\$101.00	
G1530-60900	CABLE, USA 240V POWER		\$79.50	
G1530-60910	CBL, AUSTRALIA 240V PW		\$76.90	
G1530-60920	CBL, JAPAN, 220V, PWR		\$84.80	
G1530-60930	CABLE, REMOTE, 6890, 9		\$45.00	
G1530-60940	FLAPPER MOTOR ASSY		\$74.00	
G1530-60960	PNEUMATIC LK TEST KT		\$403.00	
G1530-60970	TRANSFORMER, UNIVERSAL		\$297.00	
G1530-61120	CABLE, MODEM, 9M/9F		\$54.00	
G1530-61310	MOTOR, UNIVERSAL OVEN		\$164.00	
G1530-61380	MANUAL KIT, 6890 USER		\$67.00	
G1530-61500	HP-6890 SERVICE MANUA		\$94.00	
G1530-61610	120V. OVEN SHROUD		\$170.00	
G1530-61620	OVEN SHROUD 200V, JAPAN		\$170.00	
G1530-61630	220V. OVEN SHROUD		\$170.00	
G1530-61640	240V. OVEN SHROUD		\$170.00	
G1530-61650	230V. OVEN SHROUD		\$170.00	
G1530-61702	ROM SET REV A03.03		\$72.50	
G1530-67500	CBL, SWITZERLAND, 10A		\$55.70	
G1530-67501	CBL, S.AFRICA/INDIA		\$95.40	
G1530-67502	CBL, DENMARK, 230V PWR		\$61.00	
G1530-67503	CBL, DENMARK/SWITZERLAN		\$90.10	
G1530-67505	CBL, HONG KONG 220V, PWR		\$101.00	
G1530-67506	CBL, CHINA, 220V PWR		\$76.90	
* G1530-69010	MAINBD W/O ROMS RSTRD		\$1,540.00	\$610.00
G1530-80560	FLAPPER SHAFT ASSY		\$51.90	
G1530-90640	6890 SERV INFO CD-ROM		\$51.00	
G1531-60010	FID SIGNAL BOARD		\$276.00	
G1531-60020	FID INTERFACE BOARD		\$103.00	
G1531-60520	EPC/FID MANIFOLD ASSY		\$1,590.00	
G1531-60610	VALVE EPC REPLACE KT		\$205.00	





G1531-60680	IGNITER CABLE ASSEMBLY		\$34.00	
G1531-60690	6890 FID COLLECTOR ASS		\$164.00	
G1531-60710	FID INTRCONNECT ASSY		\$122.00	
G1531-61140	SENSOR ASY,FID/TCD/NPD		\$87.00	
G1531-80560	6890 CAPILLARY/SERIES		\$37.00	
G1531-80580	PKD COL FID WELDMENT		\$307.00	
G1531-80620	6890 CAPILLARY, HIGH T		\$27.00	
G1531-80630	CAP FID BASS WELDMENT		\$286.00	
G1532-60010	TCD SIGNAL BOARD		\$329.00	
G1532-60520	EPC/TCD MANIFOLD ASSY		\$1,330.00	
G1532-60675	TCD REPLACEMENT CELL 6		\$842.00	
G1533-60010	ECD SIGNAL BOARD		\$239.00	
G1533-60020	ECD INTERFACE BOARD		\$117.00	
G1533-60520	EPC/ECD MANIFOLD ASSY		\$1,170.00	
G1533-60576	SEE:G1533-69576	G1533-69576	\$1,640.00	
G1533-60625	ECD HTR./SENSOR ASSY		\$82.00	
G1533-60660	SEE: G1533-69660	G1533-69660	\$1,640.00	
G1533-60730	SEE: G1533-69730	G1533-69730	\$1,800.00	
* G1533-69576	RSTRD: G1533-60576		\$1,640.00	\$843.00
* G1533-69660	RSTRD: G1533-60660		\$1,640.00	\$843.00
* G1533-69730	RSTRD: G1533-60730		\$1,800.00	\$875.00
G1533-80565	6890 ECD MAKE-UP GAS A		\$154.00	
G1534-60010	NPD SIGNAL BOARD		\$228.00	
G1534-60020	NPD INTERFACE BOARD		\$265.00	
G1534-60520	EPC/NPD MANIFOLD ASSY		\$1,590.00	
G1534-60570	6890 NPD BEAD ASSEMBLY		\$261.00	
G1534-60600	NPD PWR CABLE ASSY		\$42.40	
G1534-60610	NPD INTERCONNECT ASSY		\$100.00	
G1534-80500	CAP NPD HTR BLOCK		\$339.00	
G1535-80050	PHOTOMULTIPLIER TUBE		\$600.00	
G1543-20510	INLET/FRIT SUPPLY FTG		\$55.00	
G1543-60500	EPC/PPIP MNIFOLD ASSY		\$1,220.00	
G1543-61540	PPIP HTR/SENSOR ASSY		\$79.50	
G1543-80580	PPIP BODY BRAZEMENT		\$350.00	
G1544-20590	RETAINING NUT		\$21.00	
G1544-60500	EPC/CAPILLARY MANIFOLD		\$1,480.00	
G1544-60560	CAP. SOL. VALVE		\$111.00	
G1544-60575	SPLIT/SPLITLESS INSERT		\$184.00	
G1544-60580	VALVE,ON/OFF SPLT VENT		\$101.00	
G1544-61140	CAP, INLET HTR/SENSOR		\$82.00	
G1544-80570	CAP INL WELDMENT		\$138.00	
G1545-60500	EPC/PCOC MANIFOLD ASSY		\$1,350.00	
G1545-80507	PCOC/EPC INL WELDMENT		\$186.00	
G1545-80520	PCOC 530 SEPTUM NUT		\$52.00	
G1580-00030	VALVE BOX TOP COVER		\$33.90	
G1580-20500	VALVE BOX STANDOFF		\$14.30	
G1580-20520	VALVE BOX HTR BLOCK		\$24.40	
G1580-61140	VLV BOX HTR/SENSOR		\$77.00	
H2603-90006	HP 5890 TROUBL & MAINT		\$195.00	
H2603-90007	HP 5890 T&M VIDEO		\$95.00	
H2603-90008	HP 5890 T & M VIDEO		\$95.00	
H2603-90009	HP 5890 T & M VIDEO		\$95.00	
H2604-90006	VIDEO 1090 T&M		\$195.00	
H2604-90007	INTRO TO HP1090 LC T&M		\$95.00	

\* = Exchange Part

\* = Call (800) 227-8164 for volume discount







HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP LIQUID CHROMATOGRAPH

(1050 SERIES)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Autosampler (79855A/B)</b>				
1500-0097	Belt	Belt - Part of Metering Drive Assembly	\$13.00	
1500-0698	Belt	Belt - Part of Sampling Unit	\$18.00	
01078-61601	Cable	Cable - Connects to Low Air Pressure Switch of Pneumatic Valve Assembly	\$17.50	
5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00	
01078-87302	Capillary	Loop Capillary (Standard-Version) - Attaches Between ZOV Fitting on Sampling Unit and Metering Drive Assembly	\$160.00	
01079-87302	Capillary	Loop Capillary (Ti-Version) - Attaches Between ZOV Fitting on Sampling Unit and Metering Drive Assembly	\$716.00	
01078-04110	Cover	Top/Side Cover of Autosampler	\$330.00	
01078-60301	Cover	Front Cover - Has Center Cut-Out so Sample Tray is Visible	\$55.00	
5061-3376	Display	Fluorescent Interface/Display Board (FIP)	\$360.00	
01078-68720	Fan	Fan Upgrade Kit - to Add a Fan to Autosamplers Without One Fan Assembly - Includes Cable	\$133.00	
3160-0862	Fan	Fan Assembly - Includes Cable	\$74.00	
0403-0427	Foot	Rubber Foot - Attaches to Rear of Bottom Case (2 Used)	\$1.00	
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50	
2110-0002	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 120V Operation	\$ .30	
2110-0004	Fuse	Fuse - 250mA, 250V - F12 and F14 on VMD Board	\$1.40	
01078-60003	Head Assembly	Analytical Head Assembly (Standard-Version)	\$740.00	
01079-60003	Head Assembly	Analytical Head Assembly (Ti-Version)	\$1,170.00	
01078-60201	Keyboard	Front Panel Keyboard Module - Includes Cable - Does NOT Include Display	\$235.00	
5041-1203	Keycap	Keycap (White) - for the Power Switch Extender Shaft	\$1.00	
01078-60002	Metering Drive	Metering Drive Assy - is Responsible for Drawing the Sample into the Sample Loop - Attaches to Analytical Head Assembly	\$800.00	
01078-64702	Motor	Tray Motor Assembly - Part of Sampling Unit	\$138.00	
01078-64703	Motor	Spindle Motor Assembly - Part of Sampling Unit	\$530.00	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
* 01050-69580	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	\$530.00
* 01050-69582	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00	\$217.00
01078-66501	PC Board	Valve Metering Drive Board (VMD) - Controls Metering Drive and High Pressure Switching Valve	\$488.00	
01078-66502	PC Board	Needle Minitray Drive Board (NMD) - Main Function is to Control Needle Motor and Tray Motor	\$558.00	
01078-66504	PC Board	Autosampler Motherboard (ALM) - Connects Various Boards and Assemblies of the Autosampler	\$392.00	
01078-66506	PC Board	Firmware Board (FIM) - Connects to Valve Metering Bd (VMD)	\$210.00	
01078-66513	PC Board	Max Tray Drive (MTD) Board - Controls 18596M Optional Sample Tray if it is Being Used	\$820.00	
* 01078-69501	PC Board	Valve Metering Drive Board (VMD) - Controls Metering Drive and High Pressure Switching Valve	\$488.00	\$265.00
* 01078-69502	PC Board	Needle Minitray Drive Board (NMD) - Main Function is to Control Needle Motor and Tray Motor	\$558.00	\$287.00
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* 01078-69513	PC Board	Max Tray Drive (MTD) Board - Controls 18596M Optional Sample Tray if it is Being Used	\$820.00	\$370.00
5061-3380	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	
5061-3382	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00	
* 01050-69374	Power Supply	Base Power Supply (DPS-B)	\$636.00	\$380.00
5061-3374	Power Supply	Base Power Supply (DPS-B)	\$636.00	
01078-60001	Sampling Unit	Complete Sampling Unit (Standard-Version)	\$2,650.00	
01079-60001	Sampling Unit	Complete Sampling Unit (Ti-Version)	\$2,060.00	
5041-2142	Sensor	Sensor - Determines Home Position of Piston in Metering Drive Assembly	\$39.00	
5061-3356	Sensor	Sensor - Detects Liquid Leaks in the System	\$63.60	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	
3107-0019	Switch	Low Air Pressure Switch - Part of Pneumatic Valve Assembly - Cable NOT Included	\$42.00	
01078-44501	Tray	Sample Tray - 21 Vial	\$68.00	
01078-44511	Tray	Sample Tray - 34 Vial	\$58.00	
18596M	Tray	Optional Autosampler Tray - Increases Capacity by 100	\$2,900.00	
01078-60004	Valve	High Pressure Switching (HPS) Valve (Standard-Version)	\$2,330.00	
01078-66101	Valve	Pneumatic Valve Assembly - Includes Solenoid Valve, Low Air Pressure Switch, and 'Push In', 'Elbow' Fittings	\$420.00	
* 01078-69004	Valve	High Pressure Switching (HPS) Valve (Standard-Version)	\$2,330.00	\$795.00
01079-69004	Valve	High Pressure Switching (HPS) Valve (Ti-Version)	\$875.00	

DA Detector (G1306A)



5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00	
5062-2410	Cable	Cable - From Optical Unit to Motherboard (LUM) - Two Used	\$30.00	
5001-3724	Cover	Top/Side Cover of Module	\$212.00	
5061-3376	Display	Fluorescent Interface/Display Board (FIP)	\$360.00	
79883-60051	Flow Cell	Standard Flow Cell 6mm (SST-Version) - Part of Optical Unit	\$796.00	
79883-60052	Flow Cell	Standard Flow Cell 10mm (SST-Version) - Part of Optical Unit	\$796.00	
79883-60054	Flow Cell	Standard High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$1,894.00	
79883-60055	Flow Cell	Micro High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$1,894.00	
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$ .30	
2110-0004	Fuse	Fuse - 250mA, 250V - F11 and F12 on AQB Board	\$1.40	
01048-87305	Heat Exchanger	Heat Exchanger Unit - Used in Series I & II Optical Units	\$556.50	
01048-60202	Keyboard	Front Panel Keyboard Module - Includes Cable - Does NOT Include Display	\$240.00	
5041-1203	Keycap	Keycap (White) - for the Power Switch Extender Shaft	\$1.00	
79883-60002	Lamp	Deuterium Lamp Assembly - Part of Optical Unit	\$494.00	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
* 01048-69024	Optical Unit	Optical Unit (Series II) - Exchange Assembly		\$1,010.00
01048-66501	PC Board	Array Signal Conversion (ASC) Board	\$742.00	
01048-66502	PC Board	Digital to Analog Conversion (DAC) Board	\$820.00	
01048-66510	PC Board	Detector Motherboard (LUM) - Connects Various Boards and Assemblies of the Detector	\$360.00	
01048-66543	PC Board	Data Acquisition (AQB) Board	\$424.00	
* 01048-69501	PC Board	Array Signal Conversion (ASC) Board	\$742.00	\$477.00
* 01048-69502	PC Board	Digital to Analog Conversion (DAC) Board	\$820.00	\$520.00
* 01048-69543	PC Board	Data Acquisition (AQB) Board	\$424.00	\$308.00
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* 01050-69500	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	\$530.00
* 01050-69592	PC Board	Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections	\$489.00	\$318.00
5061-3300	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	
5062-2402	PC Board	Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections	\$489.00	
79883-66509	PC Board	Leak/Shutter Interface (LPC) Board - Part of Series II Optical Units	\$98.00	
G1306-66524	PC Board	Firmware (FIM) Board - Attaches to Data Acquisition (AQB) Bd	\$1,590.00	
* G1306-69524	PC Board	Firmware (FIM) Board - Attaches to Data Acquisition (AQB) Bd	\$1,590.00	\$270.00
01048-60301	Panel	Front Panel of MW & OA Detectors - Includes Filter & Filter Rings Which are NOT Available Separately	\$122.00	
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79835-61620	Sensor	Leak Sensor Assembly - Used in Series I & II Optical Units	\$58.30	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	
79883-61901	Shutter	Shutter Assembly - for Series II Optical Units	\$276.00	

Interconnecting Cables

01040-60101	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to HP 3390/2/3A Integrators	\$170.00	
01046-60105	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to General Purpose (Spade Lug) Connector	\$68.90	
01046-60200	Cable	Remote Control Cable - Connects HP 1050 Module to HP 1081 Liquid Chromatographs	\$148.00	
01046-60201	Cable	Remote Control Cable - Connects HP 1050 Module to HP 1084 Liquid Chromatographs/General Purpose (Spade Lug) Connectors	\$127.00	
01046-60202	Cable	Remote Control Cable - Connects HP 1050 Module to HP 1040 Diode Array Detector or HP 1090 Liquid Chromatographs	\$143.00	
01046-60203	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3390A Integrator	\$185.50	
01046-60206	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3392/3A Integrators	\$190.00	
01046-60210	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3394A Integrator	\$240.00	
03394-60600	Cable	Remote Control Cable - Connects HP 1050 Module to HP 3396A/B Integrators	\$87.50	
03396-60560	Cable	BCD Cable - Connects HP 1050 Autosampler Module to HP 3396A Integrator	\$74.20	
10594-60510	Cable	BCD Cable - Connects HP 1050 Autosampler Module to HP 3392A or 3393A Integrators	\$122.00	
10594-60520	Cable	BCD Cable - Connects HP 1050 Autosampler Module to General Purpose Connector (Spade Lugs)	\$69.00	
35900-60750	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to HP 3394/6A Integrators	\$61.00	
5061-3370	Cable	Remote Control Cable - Connects HP 1050 Modules Together or to HP 1046A Programmable Fluorescence Detector	\$50.00	
0120-1040	Cable	Analog Signal Cable - Connects HP 1050 Pump & Detector Modules to HP 1084 Liquid Chromatographs	\$29.00	
0120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
0120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
0120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$10.00	





0120-1378 Power Cord Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America \$10.00

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0120-1689 Power Cord Korea/Taiwan//Thailand - 7.5ft, Straight \$22.00  
 0120-2104 Power Cord Power Cord (Gray) - for 220V in Europe - 2.0m, Straight \$13.50  
 0120-2956 Power Cord Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight \$16.50  
 0120-4211 Power Cord Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight \$19.50  
 Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight

MW Detector (79854A)

5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00	
5062-2410	Cable	Cable - from Optical Unit to Motherboard (LUM) - Two Used	\$30.00	
5001-3724	Cover	Top/Side Cover of Module	\$212.00	
5061-3376	Display	Fluorescent Interface/Display Board (FIP)	\$360.00	
3160-0547	Fan	24VDC Tubeaxial Fan (2 Used in MW Detector) - Includes Cable	\$66.00	
01048-60013	Flow Cell	Flow Cell Assembly - Used in Series I & II Optical Units	\$931.00	
0403-0427	Foot	Rubber Foot - Attaches to Rear of Bottom Case (2 Used)	\$1.00	
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$0.85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$0.30	
2110-0004	Fuse	Fuse - 250mA, 250V - F11 and F12 on AQB Board	\$1.40	
01048-87305	Heat Exchanger	Heat Exchanger Unit - Used in Series I & II Optical Units	\$556.50	
01048-60201	Keyboard	Front Panel Keyboard Module - Includes Cable - does NOT Include Display	\$265.00	
5041-1203	Keycap	Keycap (White) - for the Power Switch Extender Shaft	\$1.00	
79880-60002	Lamp	Deuterium Lamp Assembly - Part of Series II Optical Units	\$463.00	
79883-60002	Lamp	Deuterium Lamp Assembly - Part of Series I Optical Units	\$494.00	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
* 01048-69011	Optical Unit	Optical Unit (Series I) - Exchange Assembly - for Units with Serial Number Prefix < 30166		\$1,007.00
* 01048-69024	Optical Unit	Optical Unit (Series II) - Exchange Assembly - for Units with Serial Number Prefix >= 30166		\$1,010.00
01048-66501	PC Board	Array Signal Conversion (ASC) Board	\$742.00	
01048-66502	PC Board	Digital to Analog Conversion (DAC) Board	\$820.00	
01048-66504	PC Board	Firmware (FIM) Board - Attaches to Data Acquisition (AQB) Bd	\$287.00	
01048-66509	PC Board	Leak/Shutter Interface (LUC) Board - Part of Series I Optical Unit	\$170.00	
01048-66510	PC Board	Detector Motherboard (LUM) - Connects Various Boards and Assemblies of the Detector	\$360.00	
01048-66543	PC Board	Data Acquisition (AQB) Board	\$424.00	
* 01048-69501	PC Board	Array Signal Conversion (ASC) Board	\$742.00	\$477.00
* 01048-69502	PC Board	Digital to Analog Conversion (DAC) Board	\$820.00	\$520.00
* 01048-69543	PC Board	Data Acquisition (AQB) Board	\$424.00	\$308.00
* 01050-69580	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	\$530.00
* 01050-69592	PC Board	Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections	\$489.00	\$318.00
5061-3380	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00	
5062-2482	PC Board	Communication Interface (CRB) Board - has HP-IB & RS-232C Interface Connections	\$489.00	
79883-66509	PC Board	Leak/Shutter Interface (LPC) Board - Part of Series II Optical Units	\$98.00	
01048-60301	Panel	Front Panel of MW & DA Detectors - Includes Filter & Filter Rings Which are NOT Available Separately	\$122.00	
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79835-61620	Sensor	Leak Sensor Assembly - Used in Series I & II Optical Units	\$58.30	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	

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01048-61901 Shutter Shutter Assembly - for Series I Optical Units \$340.00  
 79883-61901 Shutter Shutter Assembly - for Series II Optical Units \$276.00  
 79858A Upgrade Kit Upgrade Kit - Includes Hardware and Firmware to Upgrade 79854A MW Detector to G1306A DA Detector Capabilities \$2,265.00

Other Accessories

01050-90102	Manual	HP 1050 Service Handbook - Modules Covered Are 79851/2A & 79852B Pumping Systems, 79856A/B Solvent Cabinet, 79854A MW Detector, 79853A/C VW Detectors & the 79855A/B Autosamplers	\$159.00	
79852-90001	Manual	Quick Reference Guide - for HP 1050LC Pumping Systems (79851/2A & 79852B)	\$8.00	
79852-90003	Manual	Installation and User Information (French) - for HP 1050LC Pumping Systems (79851/2A & 79852B)	\$95.00	
79852-90006	Manual	Installation and User Information (German) - for HP 1050LC Pumping Systems (79851/2A & 79852B)	\$106.00	
79852-90007	Manual	Installation and User Information (Spanish) - for HP 1050LC Pumping Systems (79851/2A & 79852B)	\$180.00	
79852-90008	Manual	Installation and User Information - for HP 1050LC Pumping Systems (79851/2A & 79852B)	\$73.00	
79853-90001	Manual	Quick Reference Guide - for HP 1050LC VW Detector (79853A)	\$8.00	
79853-90003	Manual	Installation and User Information (French) - for HP 1050LC VW Detector (79853A)	\$102.00	
79853-90005	Manual	Installation and User Information - for HP 1050LC	\$68.00	



79853-90006	Manual	VW Detector (79853A) Installation and User Information (German) - for HP 1050LC	\$101.00
79853-90007	Manual	VW Detector (79853C) Installation and User Information (Spanish) - for HP 1050LC	\$255.00
79853-90009	Manual	VW Detector (79853A) Installation and User Information - for HP 1050LC	\$53.00
79854-90001	Manual	VW Detector (79853C) Quick Reference Guide - for HP 1050LC MW Detector (79854A)	\$8.00
79854-90006	Manual	MW Detector (79854A) Installation and User Information (German) - for HP 1050LC	\$87.50
79854-90007	Manual	MW Detector (79854A) Installation and User Information (Spanish) - for HP 1050LC	\$250.00
79854-90008	Manual	MW Detector (79854A) Installation and User Information - for HP 1050LC	\$91.00
79855-90001	Manual	MW Detector (79854A) Quick Reference Guide - for HP 1050LC Autosampler (79855A/B)	\$8.00
79855-90003	Manual	Autosampler (79855A/B) Installation and User Information (French) - for HP 1050LC	\$144.00
79855-90006	Manual	Autosampler (79855A/B) Installation and User Information (German) - for HP 1050LC	\$122.00
79855-90007	Manual	Autosampler (79855A/B) Installation and User Information (Spanish) - for HP 1050LC	\$286.00
79855-90008	Manual	Autosampler (79855A/B) Installation and User Information - for HP 1050LC	\$75.00

Pumps (79851/2A & 79852B)

01018-23207	Adapter	Short Adapter - Threads into Bottom of Pump Head Assembly - Provides Piston 2 Capillary Connection	\$82.15
01018-60007	Adapter	Frit Adapter Assy - Threads into top of Pump Head Assembly	\$128.00
5061-3400	Cable	Cable - Connects to Fluorescent Interface/Display Board	\$38.00
5062-2416	Cable	Cable - from Connector Board to Motherboard	\$32.00
01018-67302	Capillary	Piston 2 Capillary (Standard-Version)	\$90.00
01018-67309	Capillary	Piston 1 Capillary (Standard-Version)	\$63.60

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01019-67301	Capillary	Piston 1 Capillary (Ti-Version)	\$297.00
01019-67302	Capillary	Piston 2 Capillary (Ti-Version)	\$276.00
5081-3724	Cover	Top/Side Cover of Module	\$12.00
01019-60005	Damper	High Pressure Damper (Ti-Version)	\$1,330.00
79835-60005	Damper	High Pressure Damper (Standard-Version)	\$800.00
5061-3376	Display	Fluorescent Interface/Display Board (FIP)	\$360.00
01018-60301	Door	Front Door of Pumping System	\$55.00
3160-0547	Fan	24V DC Tubeaxial Fan - Includes Cable	\$66.00
0403-0427	Foot	Rubber Foot - Attaches to Rear of Bottom Case (2 Used)	\$1.00
5041-2161	Foot	Foot - on Bottom of Left and Right Front Corners	\$12.50
2110-0002	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 240V Operation	\$5.85
2110-0003	Fuse	Power Supply (DPS-B) Fuse - 3A, 250V - for 120V Operation	\$5.30
2110-0004	Fuse	Fuse - 250mA, 250V - F12 and F22 on RAD Board	\$1.40
2110-0007	Fuse	Fuse - 1A, 250V - F15 on the Heater Quaternary Board (HRQ)	\$5.90
2110-0083	Fuse	Fuse - 2.5A, 250V - F4 on Heater Isocratic (HRI) and Heater Quaternary (HRQ) Boards	\$1.00
2110-0099	Fuse	Pico Fuse - 1A, 125V - for Fluorescent Interface/Display Bd	\$3.00
2110-0304	Fuse	Fuse - 1.5A, 250V - F481 on Pump Drive Control Board (PDC2)	\$4.80
2110-0421	Fuse	Connector Board Fuse - 375mA, 250V - Protects Active Inlet Valve Circuit (Only on Board Revisions 'B' and Greater)	\$3.00
2110-0761	Fuse	Fuse - .5A, 250V - F112 and F113 on the Pump Drive Control Board (PDC2)	\$1.30
01018-60201	Keyboard	Front Panel Keyboard Module - Includes Cable - Does NOT Include Display	\$195.00
5041-1203	Keypad	Keypad (White) - for the Power Switch Extender Shaft	\$1.00
01018-60001	Metering Drive	Metering Drive Assembly - Attaches to Pump Head Assembly	\$2,490.00
* 01018-69100	Metering Drive	Metering Drive Assembly - Attaches to Pump Head Assembly	\$2,490.00
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50
01018-66501	PC Board	Pump Motherboard (HPS) - Connects Various Boards of the Pump	\$445.00
01018-66503	PC Board	Relative A/D Converter Board (RAD)	\$400.00
01018-66505	PC Board	Connector Board - has connectors for the MCGV, Active Inlet Valve and the Leak Sensor	\$77.00
01018-66506	PC Board	Firmware Board (SFW) - Connects to Relative A/D Converter Bd	\$210.00
01018-66517	PC Board	Heater Isocratic (HRI) Board - Controls the Column Heater in the Solvent Conditioning Module	\$510.00
01018-66518	PC Board	Heater Quaternary (HRQ) Board - Controls the Column Heater in the Solvent Conditioning Module and the Multi Channel Gradient Valve (MCGV)	\$530.00
01018-66532	PC Board	Pump Drive Control Board (PDC2)	\$400.00
* 01018-69503	PC Board	Relative A/D Converter Board (RAD)	\$400.00
* 01018-69517	PC Board	Heater Isocratic (HRI) Board - Controls the Column Heater in the Solvent Conditioning Module	\$510.00
* 01018-69518	PC Board	Heater Quaternary (HRQ) Board - Controls the Column Heater in the Solvent Conditioning Module and the Multi Channel Gradient Valve (MCGV)	\$530.00
* 01018-69532	PC Board	Pump Drive Control Board (PDC2)	\$400.00
* 01050-69590	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00
* 01050-69582	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00
5061-3380	PC Board	Common Main Processor (CMP) Board - used in Many of the HP 1050 Modules	\$1,030.00



5061-3302	PC Board	Communication Interface (CIB) Board - has HP-IB & RS-232C Interface Connections	\$400.00	
* 01050-69374	Power Supply	Base Power Supply (DPS-B)	\$636.00	\$380.00
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3374	Power Supply	Base Power Supply (DPS-B)	\$636.00	
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5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
01018-60004	Pump Head	Pump Head Assy (Standard-Version) - Includes Active Inlet Valve, Frit Adapter Assy, Purge Valve, Short Adapter, and Outlet Ball Valve	\$2,650.00	
01019-60002	Pump Head	Pump Head Assy (Ti-Version) - Includes Active Inlet Valve, Frit Adapter Assy, Purge Valve, Short Adapter, and Outlet Ball Valve	\$3,600.00	
5061-3356	Sensor	Sensor - Detects Liquid Leaks in the System	\$63.60	
5041-2162	Shaft	Power Switch Extender Shaft - Keycap NOT Included	\$14.00	
01018-67304	Tube	Connection Tube - from the MCGV to the Active Inlet Valve	\$63.60	
01018-60008	Valve	Outlet Ball Valve - Threads into top of Pump Head Assembly - Provides Piston 1 Capillary Connection	\$271.00	
01018-60009	Valve	Purge Valve Assy - Threads into top of Pump Head Assembly	\$338.00	
01018-60010	Valve	Active Inlet Valve (Standard-Version)	\$385.00	
01019-60010	Valve	Active Inlet Valve (Ti-Version)	\$1,480.00	
01019-67701	Valve	Multi Channel Gradient Valve (MCGV) (Ti-Version)	\$1,480.00	
79835-67701	Valve	Multi-Channel Gradient Valve (MCGV) (Standard-Version)	\$1,430.00	
* 79835-69701	Valve	Multi-Channel Gradient Valve (MCGV) (Standard-Version)	\$1,430.00	\$660.00

Solvent Cabinet(79856A/B)

9301-0656	Bottle	Solvent Bottle - 1 Liter Capacity	\$35.00	
01018-60302	Door	Column Heater Door - Folds Down to Allow Access to Heater	\$29.00	
01018-60019	Enclosure	Solvent Bottle Enclosure - Includes Tub for Bottles and Front Panel	\$435.00	
01018-66901	Heater	Column Heater Assembly	\$900.00	
01018-45101	Hinge	Hinge - for Column Heater Door (2 Used)	\$7.00	
01018-44901	Holder	Waste Vial Holder	\$8.75	
01018-47412	Knob	On/Off Knob - for Valve That Controls Flow to the Four Helium Regulator Assemblies	\$8.25	
01018-47413	Knob	Knob - for 'A' Helium Regulator Assembly	\$14.50	
01018-47414	Knob	Knob - for 'B' Helium Regulator Assembly	\$7.25	
01018-47415	Knob	Knob - for 'C' Helium Regulator Assembly	\$7.25	
01018-47416	Knob	Knob - for 'D' Helium Regulator Assembly	\$8.25	
5041-2170	Nameplate	Nameplate - HP 1050 Logo	\$12.50	
7121-5291	Nameplate	Nameplate - HP 1050 Logo (Ti Version)	\$9.00	
01018-67001	Regulator	Helium Regulators and On/Off Valve Assembly (5 Used)	\$477.00	
0101-0607	Valve	Rheodyne Valve Assembly (Standard-Version)	\$655.00	
0101-0641	Valve	Rheodyne Valve Assembly (Ti-Version)	\$1,045.00	
9301-1168	Vial	Waste Vial	\$1.25	

VW Detector (79853A)

79853-64602	Bar	'T' Shaped Bar - Part of the Grating Assembly - Which is a Part of the Optical Unit	\$583.00	
79853-61601	Cable	Cable - Connects Detector Controller (DCB) Board to Keyboard Display Interface (KOI) Board	\$77.00	
79853-61602	Cable	Cable - Connects Keyboard Display Interface (KOI) Board to Display Module (VFD) Board	\$36.00	
79853-61603	Cable	Cable - from Power Supply Connection (PSC) Board to the Detector Controller Board (DCB)	\$122.00	
79853-61610	Cable	Cable - Connects HP-IB Communication Interface Board to Detector Controller (DCB) Board	\$48.75	
79853-64101	Cover	Top/Side Cover - of Variable Wavelength Detector Module	\$138.00	
79853-61101	Diode	Sample Diode Assembly - on Front Right Side of Optical Unit	\$413.00	
79853-61102	Diode	Reference Diode Assy - on Front Left Center of Optical Unit	\$318.00	
79853-60501	Fan	Fan Assembly - Cable Included	\$80.00	

79853-62702	Filter	Filter Assembly (Filter & Motor) - Part of Optical Unit	\$350.00	
79853-60003	Flow Cell	High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$2,586.00	
79853-60004	Flow Cell	Micro Flow Cell (SST-Version) - Part of Optical Unit	\$1,384.00	
79853-60005	Flow Cell	Standard Flow Cell (Ti-Version) - Part of Optical Unit	\$1,800.00	
79853-60006	Flow Cell	Preparative Flow Cell (SST-Version) - Part of Optical Unit	\$1,352.00	
79853-60203	Front Panel	Complete Front Panel - Includes Leak Sensor Board, Leak Sensor Assembly, Display Module (VFD) Board, Display Interface (KOI) Board and Interconnecting Cables	\$1,380.00	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$1.85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$1.30	
79853-64601	Grating	Grating - Part of Optical Unit - Stepper Motor and 'T' Bar NOT Included	\$690.00	
79853-13002	IC ROM	EPROM (Firmware) - on Detector Controller Board (DCB)	\$133.00	
79853-13004	IC ROM	ROM (Firmware) - on HP-IB Communication Interface Board	\$133.00	
79853-60002	Lamp	Deuterium Lamp Assembly - Part of Optical Unit	\$327.00	
79853-68101	Mirror	Mirror Assembly Number One - Part of Optical Unit	\$217.00	
79853-68102	Mirror	Mirror Assembly Number Two - Part of Optical Unit	\$185.50	
79853-68103	Mirror	Mirror Assembly Number Three - Part of Optical Unit	\$190.00	
79853-68104	Mirror	Mirror Assembly Number Four - Part of Optical Unit	\$275.00	
79853-67901	Motor	Stepper Motor - Drives 'T' Shaped Bar of Grating Assembly	\$445.00	



79853-66501	PC Board	Detector Controller Board (DCB)	\$981.00	
79853-66502	PC Board	Keyboard Display Interface (KDI) Board - Part of Front Panel Assembly	\$133.00	
79853-66503	PC Board	Display Module (VFD) Board - Part of Front Panel Assembly	\$403.00	
79853-66504	PC Board	Power Supply Connection (PSC) Board	\$122.00	
79853-66505	PC Board	Pre-Amplifier Board (2 Used) - for Sample & Reference Diode Assemblies in Optical Unit	\$170.00	
79853-66510	PC Board	Leak Sensor Board - Attaches to Front Panel Assembly Next to Leak Sensor Assembly	\$223.00	
79853-68711	PC Board	HP-IB Communication Interface Board	\$930.00	
* 79853-69501	PC Board	Detector Controller Board (DCB)	\$981.00	\$663.00
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79853-66111	Sensor	Leak Sensor Assembly - Attaches to Front Panel Assembly Next to Leak Sensor Board	\$392.00	

VW Detector (79853C)

79853-61602	Cable	Cable - Connects Keyboard Display Interface (KDI) Board to Display Module (VFD) Board	\$36.00	
79853-61605	Cable	Cable - from Power Supply Connection (PSC) Board to the Detector Controller Board (DCB)	\$13.30	
79853-61609	Cable	Cable - Connects Detector Controller (DCB) Board to Keyboard Display Interface (KDI) Board	\$66.00	
79853-61610	Cable	Cable - Connects HP-IB Communication Interface Board to Detector Controller (DCB) Board	\$48.75	
79853-64101	Cover	Top/Side Cover - of Variable Wavelength Detector Module	\$138.00	
79853-61109	Diode	Sample Diode - Part of Optical Unit	\$413.00	
79853-61110	Diode	Reference Diode - Part of Optical Unit	\$330.00	
79853-68502	Fan	Fan Assembly - Cable Included - Located Close to the Lamp Housing - Highest Speed Fan of the Two Fans in the Detector	\$82.15	
79853-68503	Fan	Fan Assembly - Cable Included - Located under the HP-IB Interface - Lowest Speed Fan of the Two Fans in the Detector	\$82.15	
79853-67903	Filter	Filter Assembly (Filter & Motor) - Part of Optical Unit	\$498.00	
79853-60000	Flow Cell	Standard Flow Cell 8mm (SST-Version) - Part of Optical Unit	\$946.00	
79853-60010	Flow Cell	Semi-Micro Flow Cell (SST-Version) - Part of Optical Unit	\$1,321.00	
79853-60011	Flow Cell	Standard Flow Cell 8mm (Ti-Version) - Part of Optical Unit	\$1,493.00	

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79853-60012	Flow Cell	Preparative Flow Cell (Ti-Version) - Part of Optical Unit	\$1,144.00	
79853-60013	Flow Cell	Ultra High Pressure Flow Cell (SST-Version) - Part of Optical Unit	\$2,180.00	
79853-60203	Front Panel	Complete Front Panel - Includes Leak Sensor Board, Leak Sensor Assembly, Display Module (VFD) Board, Display Interface (KDI) Board and Interconnecting Cables	\$1,380.00	
2110-0002	Fuse	Power Supply (DPS-A) Fuse - 2A, 250V - for 240V Operation	\$ .85	
2110-0003	Fuse	Power Supply (DPS-A) Fuse - 3A, 250V - for 120V Operation	\$ 3.30	
79853-64605	Grating	Grating - Part of Optical Unit - Stepper Motor NOT Included	\$640.00	
79853-13004	IC ROM	ROM (Firmware) - on HP-IB Communication Interface Board	\$133.00	
79853-13005	IC ROM	ROM (Firmware) - on Detector Controller Board (DCB)	\$118.50	
79853-60002	Lamp	Deuterium Lamp Assembly - Part of Optical Unit	\$494.00	
79853-68107	Mirror	Mirror Assembly Number One - Part of Optical Unit	\$121.00	
79853-68108	Mirror	Mirror Assembly Number Two - Part of Optical Unit	\$127.00	
79853-68109	Mirror	Mirror Assembly Number Three or Four - Part of Optical Unit	\$138.00	
79853-64606	Motor	Stepper Motor - Drives Grating Assy - Part of Optical Unit	\$500.00	
79853-60015	Optical Unit	Optical Unit - Exchange Assembly	\$4,980.00	
* 79853-69015	Optical Unit	Optical Unit - Exchange Assembly	\$4,980.00	\$2,540.00
79853-66502	PC Board	Keyboard Display Interface (KDI) Board - Part of Front Panel Assembly	\$133.00	
79853-66503	PC Board	Display Module (VFD) Board - Part of Front Panel Assembly	\$403.00	
79853-66507	PC Board	Pre-Amplifier Board - for Sample Diode in Optical Unit	\$223.00	
79853-66508	PC Board	Pre-Amplifier Board - for Reference Diode in Optical Unit	\$223.00	
79853-66510	PC Board	Leak Sensor Board - Attaches to Front Panel Assembly Next to Leak Sensor Assembly	\$223.00	
79853-66511	PC Board	Detector Controller Board (DCB)	\$1,220.00	
79853-66512	PC Board	Power Supply Connection (PSC) Board	\$143.00	
79853-68711	PC Board	HP-IB Communication Interface Board	\$930.00	
* 79853-69511	PC Board	Detector Controller Board (DCB)	\$1,220.00	\$1,000.00
* 01050-69375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	\$610.00
5061-3375	Power Supply	Lamp Power Supply (DPS-A)	\$1,330.00	
79853-61106	Sensor	Position Sensor - for Grating Assembly in Optical Unit	\$66.00	
79853-61107	Sensor	Position Sensor - for Filter Assembly in Optical Unit	\$66.25	
79853-66111	Sensor	Leak Sensor Assembly - Attaches to Front Panel Assembly Next to Leak Sensor Board	\$392.00	

\* = Exchange Part  
 \*\* = Call (800) 227-8164 for volume discount





HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP LIQUID CHROMATOGRAPH

(1090A/L/M)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Autoinjector Parts</b>				
0101-0550	Actuator	Air Actuator Bridge Assembly - Solenoid Controlled Air for Movement of the Needle Arm (Up And Down) and Rotating the Rheodyne Valve (and if Equipped, the Column Switching Valve)	\$660.00	
79846-45001	Arm	Vial Holder/Swivel Arm - Positions Sample Vial Under Needle	\$28.60	
79846-67103	Base	Needle Arm Drive Unit Base Assembly - Pneumatically Moves Needle Arm Up and Down (Assembly Includes Air Cylinder)	\$212.00	
79846-68101	Base	Metering Base Assembly - Base Structure for the Syringe Metering Assembly	\$382.00	
79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$88.00	
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary to Needle Arm Assembly	\$70.00	
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
3140-0675	Motor	Stepper Motor - Drives the Vial Holder/Swivel Arm	\$100.00	
79846-60005	Motor	Motor Assembly (Drives the Vial Holder/Swivel Arm) - Includes Motor, Bracket, Interrupter, and Sensor Board	\$223.00	
79846-67901	Motor	Drive Motor - Moves the Plunger in the Metering Syringe	\$111.00	
0100-1176	Muffler	Pneumatic Muffler - Screws on to the Air Damper Adapter	\$21.20	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
0905-0970	O-Ring	4.48mm O-Ring - Between Syringe Plunger and Waste Sleeve	\$37.00	
79846-66501	PC Board	Injector Controller Board (ICB) - Mounts to Right Side of Autoinjector Assembly	\$307.00	
79846-66502	PC Board	Syringe Position Sensor Board - Mount to Bottom of the Syringe Metering Assembly	\$66.25	
79846-66503	PC Board	Light Sensor Board - Used as the 'Vial Holder/Swivel Arm' Position Sensor and the 'Needle Arm' Position Sensor(2 Used)	\$53.00	
79846-66504	PC Board	Valve Sensor Board - Mounts to 6 Port Rheodyne Valve and Actuator Assembly	\$63.60	
79846-66505	PC Board	'Vial in Position' Sensor Board - Mounts to Needle Arm Assy	\$58.30	
9301-0675	Plunger	Replacement Plunger - for the 25ul Syringe	\$35.00	
9301-0677	Plunger	Replacement Plunger - for the 250ul Syringe	\$30.00	
79846-23702	Rod	Vial Holder/Swivel Arm Drive Rod - Attaches to Drive Motor	\$24.90	
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the 6 Port Rheodyne Valve and Actuator Assembly	\$60.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for the 6 Port Rheodyne Valve and Actuator Assembly	\$99.00	
79846-27101	Seal	Syringe Seal - Provides Seal Between 25ul Metering Syringe Tip and the Attached Capillary	\$12.00	
79846-27103	Seal	Syringe Seal - Provides Seal Between 250ul Metering Syringe Tip and the Attached Capillary	\$14.00	
Page: 1				
79846-67101	Seat	Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
0101-0559	Solenoid	Solenoid Valve - Controls Air Flow Out of the Air Actuator Bridge Assembly (4 Used)	\$275.00	
3107-0018	Switch	Low Pressure Sensor Switch (with 1/4 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Older Units)	\$27.50	
3107-0019	Switch	Low Pressure Sensor Switch (with 1/8 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Newer Units)	\$42.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0678	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-44701	Tray	Syringe Holder Tray - Has Two V-Shaped Support Blocks (for Cradling the Metering Syringe)	\$42.40	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	
79846-67902	Valve	Flush Valve Assembly - for Flushing Out the System	\$452.00	
* 79846-69001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	25ul Waste Sleeve - Attaches to the Plunger End of the 25ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-24502	Waste Sleeve	250ul Waste Sleeve - Attaches to the Plunger End of the 250ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-27303	Waste Tube	Waste Tube - Attaches to the Waste Sleeve (at the Plunger End of the Metering Syringe)	\$21.00	

Autosampler Parts



79847-45001	Arm	Magazine Position Slide Arm (Belt Driven) - Slides on the Two Guide Rods in the Drive Unit Assembly	\$15.90
1500-0635	Belt	Gear Belt - Drives Magazine Position Slide Arm	\$15.00
3160-0861	Fan	Fan Assembly - for Cooling the Temperature Controlled Autosampler Chamber (NOT Used on Standard Autosampler)	\$72.50
79847-42001	Heat Exchanger	Heat Exchanger Unit - Used in Cooling the Temperature Controlled Autosampler (NOT Used on Standard Autosampler)	\$424.00
79847-43710	Holder	Magazine Holder (Position 0) - Holds Magazine on Carriage	\$16.95
79847-43701	Holder	Magazine Holder (Position 1) - Holds Magazine on Carriage	\$16.95
79847-43702	Holder	Magazine Holder (Position 2) - Holds Magazine on Carriage	\$16.95
79847-43703	Holder	Magazine Holder (Position 3) - Holds Magazine on Carriage	\$16.95
79847-43704	Holder	Magazine Holder (Position 4) - Holds Magazine on Carriage	\$16.95
79847-43705	Holder	Magazine Holder (Position 5) - Holds Magazine on Carriage	\$16.95
79847-43706	Holder	Magazine Holder (Position 6) - Holds Magazine on Carriage	\$16.95
79847-43707	Holder	Magazine Holder (Position 7) - Holds Magazine on Carriage	\$16.95
79847-43708	Holder	Magazine Holder (Position 8) - Holds Magazine on Carriage	\$16.95
79847-43709	Holder	Magazine Holder (Position 9) - Holds Magazine on Carriage (NOT Used on Temperature Controlled Autosamplers)	\$32.00
79847-60005	Magazine	Vial Magazine Assembly - Holds Ten Sample Vials (Standard Uses 10, Temperature Controlled Autosampler Uses 9)	\$14.00
79847-67901	Motor	Carriage Drive Motor Assembly (Made by Berger-Lahr) - Mounts on End of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Driver Board - Part Number 01090-66531)	\$122.00
79847-67902	Motor	Magazine Drive Motor Assembly (Made by Berger-Lahr) - Mounts on Bottom of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Driver Board - Part Number 01090-66531)	\$122.00
01090-66554	PC Board	Injector-Sampler Drive Board (ISD) (New Style Board - with +/- 12V Motor Supplies) - Works with Old AND New Type Motors	\$195.00
79847-66501	PC Board	Sampler Controller Bd (SC0) - Mounts to Bottom of Drive Assy	\$212.00

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79847-66502	PC Board	'Carriage Home Position' Sensor Board (Standard) - Mounts Next to Carriage Drive Motor	\$74.25
79847-66510	PC Board	'Carriage Home Position' Sensor Board (Plastic Coated) - for Use in Temperature Controlled Autosamplers - Mounts Next to Carriage Drive Motor	\$127.00
79847-66503	PC Board	'Magazine in Position' Sensor Board (Standard) - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$63.60
79847-66511	PC Board	'Magazine in Position' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$93.00
79847-66504	PC Board	'Vial Count (Position)' Sensor Board (Standard) - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$71.50
79847-66512	PC Board	'Vial Count (Position)' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$106.00

## Column Compartment Parts

01090-87304	Adapter	0.17mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$74.00
01090-87305	Adapter	0.17mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$79.00
01090-87610	Adapter	0.12mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-87611	Adapter	0.12mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-21202	Clamp	Clamp - Holds Zero Dead Volume Fitting on Rear Screen Wall of Column Compartment	\$20.00
01090-60304	Door	Oven Door Assembly (NOT Original Color) - Pull Down Door on Front of Column Compartment - Does NOT Include Hinges	\$196.00
3160-0402	Fan	120V/240V AC Fan Assembly (Squirrel Cage Style) - Mounts to Rear Wall of Column Compartment	\$116.00
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary from the Heater Assembly to the Column Adapter	\$70.00
01090-61105	Heater	Heater Assembly (with Connecting Capillaries) - Heats Incoming Sample/Solvent Mixture Going to the Column	\$795.00
3110-0162	Hinge	Hinge Assembly - for Column Compartment Front Door (2 Used)	\$24.00
01090-42302	Holder	Column Holder Rack (5 Position) - Mounts to Internal Screen Wall (3 Used)	\$23.85
01090-66508	PC Board	Oven Interface Board (OVI) - Interfaces Oven Electronics to Controller Mother Bd - Mounts to Side of Column Compartment	\$190.00
01090-61604	Sensor	Temperature Sensor - for Sensing Oven Temperature	\$240.00

## FPD Detector Assembly

79881-60006	Diode	Sample Diode Assy - Mounts to End of Optical Unit Housing - Receives Light from Beam Splitter (Provides Signal from Light Source after Passing Through the Flow Cell)	\$558.00
79881-60007	Diode	Reference Diode Assembly - Mounts to Side of Optical Unit Housing - Receives Light from Beam Splitter (Provides Reference Signal from Light Source Directly)	\$610.00
01090-07101	Filter	Air Filter - Behind Board Slots on the Filter Photometric Detector Card Cage	\$12.00
79881-62761	Filter	210nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62762	Filter	230nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62763	Filter	254nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00



79881-62769	Filter	269nm Light Filter - Mounts in the Filter Wheel Assembly	\$360.00	
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79881-62764	Filter	280nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62765	Filter	340nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62766	Filter	430nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62767	Filter	540nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62760	Filter Kit	Light Filter Kit - Includes 210nm, 230nm, 280nm, 340nm, 430nm, and 540nm Light Filters	\$2,127.00	
79881-60002	Flow Cell	Flow Cell Assembly - Mounts in Cavity of Optical Unit Housing (Next to Sample and Reference Diodes)	\$1,640.00	
2110-0001	Fuse	Fuse - 1A, 250V - F33 on Deterium Lamp Power Supply Board - Fuses the High Voltage Source to the Deterium Lamp Assembly	\$ .30	
2110-0342	Fuse	Fuse - 8A, 250V - F31 on Deterium Lamp Power Supply Board - Fuses 4V AC Filament Supply to the Deterium Lamp Assembly	\$3.00	
79881-27101	Gasket	0.6mm ID Cell Gasket - Between Rear Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-27102	Gasket	1.2mm ID Cell Gasket - Between Front Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-22403	Hardware	Flow Cell Screw - Retains the Flow Cell Windows in the Flow Cell Housing (2 Used)	\$24.00	
79881-25204	Housing	Flow Cell Housing - Round Base Structure of the Flow Cell Assembly (NO Other Hardware Included)	\$740.00	
79880-60002	Lamp	Deterium Lamp Assembly - Mounts in Cavity at End of Optical Unit Housing	\$463.00	
79881-02401	Motor	Drive Motor - for Filter Wheel Assembly	\$106.00	
79881-60004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	
* 79881-69004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	\$1,800.00
79881-66501	PC Board	Filter Detector Motherboard (FMB)	\$276.00	
79881-66502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	
79881-66503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	
* 79881-69502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	\$660.00
* 79881-69503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	\$390.00
79883-66501	PC Board	Deterium Lamp Power Supply Board (DPS)	\$370.00	
79881-09103	Spring	Window Spring - Between the Screw and Window on the Flow Cell Housing (2 Used)	\$8.00	
79881-62501	Wheel	Filter Wheel Assembly - Holds Up to 7 Filters (NOT Included)	\$111.00	
79881-28101	Window	Flow Cell Window - Goes in Each Side of the Flow Cell Housing (2 Used) (3/Pkg)	\$30.00	

High Pressure Pump Parts

79835-67101	Ball Valve	Ball Valve Cartridge (for pH 2.3 to 9.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$129.00	
79835-67102	Ball Valve	Ball Valve Cartridge pH (for pH 2.3 to 12.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$180.00	
1500-0668	Belt	Drive Belt (0.5in Wide) - from Motor to High Pressure Pump Plunger Drive Shaft	\$15.20	
79835-04123	Diaphragm	Diaphragm - in High Pressure Pump Head (Above Ball Valves)	\$40.00	
79835-43613	Gear	Small Belt Gear (50Hz or 60Hz Operation) - Mounts to Motor Shaft on the High Pressure Pump Assembly	\$7.15	
79835-43615	Gear	Large Belt Gear (50Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$30.75	
79835-43616	Gear	Large Belt Gear (60Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$31.80	
3140-0682	Motor	High Pressure Pump Motor - for 240V, 50Hz Operation	\$154.00	
3140-0683	Motor	High Pressure Pump Motor - for 120V, 60Hz Operation	\$185.50	
0905-0998	O-Ring	27.3mm O-Ring - for the Oil Reservoir Top Cover	\$2.10	

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79835-60011	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	
79835-60012	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	
* 79835-69004	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	\$980.00
* 79835-69009	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	\$980.00
79835-65213	Sieve	Sieve Assembly (for pH 2.3 to 9.5) - Goes in the Inlet Valve on the High Pressure Pump	\$23.00	
79835-65216	Sieve	Sieve Assembly pH (for pH 2.3 to 12.5) - Goes in the Inlet Valve on the High Pressure Pump	\$29.00	
79835-61111	Valve	Override Valve (440 bar) - Attaches to the Right Side of of the Pump Head on the High Pressure Pump (Standard)	\$196.00	
79835-61112	Valve	Override Valve (350 bar) - Attaches to the Right Side of of the Pump Head on the High Pressure Pump (Causes Reduced Pumping Pressure But Results in Longer Diaphragm Life)	\$233.00	

Interconnecting Cables

01040-60201	Cable	Remote Cable - General Purpose (Spade Lugs) - 2m	\$154.00	
01040-60202	Cable	Remote Cable - from 1090 LC to Distribution Module - 2m	\$175.00	
01040-60203	Cable	Remote Start Cable - from 1090 LC to 3390A Integrator - 2m	\$159.00	
01040-60204	Cable	Remote Start Cable - from 1090 LC to 18562A/D Converter - 2m	\$228.00	
01040-60205	Cable	Remote Start Cable - from 1090 LC to 3388A Integrator - 2m	\$154.00	
01090-60206	Cable	Remote Start/Stop Cable - 1090 LC to 3392/3A Integrator - 2m	\$143.00	
01090-60310	Cable	BCD Cable - from 1090 LC to 3392A/93A Integrator - 2m	\$207.00	
01090-60312	Cable	General Purpose BCD Cable - from 1090 LC to Spade Lugs - 2m	\$164.00	



03394-80550	Cable	Remote Cable - from 1090 LC to 3394A/96A Integrator	\$106.00
03396-60500	Cable	BCD Cable - from 1090 LC to 3396A Integrator	\$148.00
35900-60710	Cable	Remote Cable - from 1090 LC to 35900C ChemStation Interface	\$87.50
10833A	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 1.0m	\$90.00
10833B	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 2.0m	\$100.00
10833C	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 4.0m	\$110.00
10833D	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 0.5m	\$90.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

LC Mainframe Case Parts

01090-68706	Cabinet	Solvent Cabinet Assembly - for Holding Solvent Bottles	\$201.00
1390-0421	Catch	Magnetic Catch - for Keyboard Door Panel (Mounts on Side of Solvent Cabinet)	\$17.50
01090-47702	Cover	Upper Right Side Cover(w/ Frame) - on DAO Side of Main Cover	\$133.00
01090-64101	Cover	Lift-Up Cover - for the Diode Array Detector (DAO) Assembly	\$207.00
01090-64112	Cover	Lift-Up Cover (with Viewing Window) - for the Automatic Liquid Sampler (ALS) - Note: Replacement Cover Has New Style Color Scheme (Original Color Cover is No Longer Available)	\$392.00
01090-64113	Cover	Main Cover Assembly - Includes Top, Upper Side, and Both (ALS & DAO) Lift-Up Covers - Note: Replacement Cover Has New Style Colors (Original Color Cover is No Longer Available)	\$1,330.00
5041-2106	Cover	Lower Right Side Cover (with Frame) - on Keyboard/ Electronics Side of Instrument	\$155.00
5041-2107	Cover	Lower Left Side Cover (with Frame) - on Solvent Compartment Side of Instrument	\$115.00
5041-2109	Cover	Upper Left Side Cover (w/ Frame) - on ALS Side of Main Cover	\$143.00
01090-40304	Door	Keyboard Door Panel - Used on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$122.00
01090-68715	Door	Keyboard Door Panel - Used on LC's That Have a System Keyboard (No Display) - New Part is NOT the Original Color	\$180.00

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01090-02701	Filter	Air Filter - on Back of Keyboard Door Panel - on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$8.75
3150-0462	Filter	Foam Air Filter (590mm x 85mm) - Air Inlet Filter (on Bottom of Mainframe)	\$15.00
3150-0463	Filter	Foam Air Filter - Two (Side by Side) on Back of Main Cover and Two on Back of the Keyboard Door Panel (on LC's That Have a System Keyboard (No Display) ONLY) (4 Used)	\$15.00
0380-0644	Hardware	Hex Standoff - for the HP-IB Connector (2 Used)	\$4.30
01090-04135	Trim	Trim Strip - on Top of Lower Left Side Cover	\$71.55
01090-04144	Trim	Trim Strip - on Top of Lower Right Side Cover (New Color)	\$46.65
01090-04133	Window	Viewing Window - Mounts in Cover Assembly for the Automatic Liquid Sampler (ALS)	\$26.00

LC Mainframe Electronics

1420-0361	Battery	3.67V Lithium Battery - for RAM Back-Up on Display Keyboard Driver Board	\$55.00
01090-68520	Fan	24V DC Fan Assembly (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of >=&= 3044A	\$228.00
3160-0421	Fan	120V AC Tubeaxial Fan (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of < 3044A	\$75.00
01090-66552	Keyboard	System Keyboard Assembly (SYK) (NO Display) - Mounts to Keyboard Door Panel - Used on LC's That Have an HP-IB Interface Board (IBU) and Requires an External Controller	\$318.00
01090-66553	Keyboard	Local User Interface Keyboard Assembly (ODK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00
* 01090-69553	Keyboard	Local User Interface Keyboard Assembly (ODK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00 \$530.00
9135-0038	Line Filter	220V Line Filter/Power Receptacle Assembly - on Rear Panel	\$30.00
9135-0202	Line Filter	120V Line Filter/Power Receptacle Assembly - on Rear Panel	\$32.00
01090-66507	PC Board	Display Keyboard Interface Board (DKI) (Has 8 Status LED's - on Keyboard Door Panel) Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$330.00
01090-66509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00
01090-66510	PC Board	Piggy-Back HP-IL Inet Interface Board - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$466.00
01090-66511	PC Board	HP-IL Connector Board (CIL) (for LC's that Have an HP-IL Interface) - Mounts to Rear Panel	\$154.00
01090-66526	PC Board	External Contacts Interface Board - Mounts to Rear Panel	\$190.00
01090-66529	PC Board	Piggy-Back HP-IB Interface Board (LIB) - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$520.00
01090-66535	PC Board	HP-IB Interface Board (IBU) - Used in Versions of LC's That Require an External Controller (Has a System Keyboard Rather than a Local User Interface Keyboard)	\$307.00
01090-66557	PC Board	Control Mother Board (CTM) - Interconnects Mainframe	\$212.00





01090-66565	PC Board	Controller to Other Boards		
		Piggy-Back Memory Board (MEM) - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$170.00	
* 01090-69509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back	\$500.00	\$360.00
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5061-3352	PC Board	Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)		
		HP-IB Connector Board (Includes Cable) - Mounts to Rear Panel - Works with Either Type of HP-IB Interface Board	\$43.45	
01090-66542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00	
* 01090-69542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00	\$477.00
01090-66708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00	
* 01090-69708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00	\$600.00
01090-66573	PC Board	Memory Board - Mounts to Mainframe Controller Board	\$127.00	

Manual Injector Parts

1535-4054	Fitting	Needle Port Fitting (Teflon) - Provides Seal Around Needle in the Loop Filler Port (Rheodyne Model 7012)	\$50.00	
1535-4060	Loop	5ul Sample Loop - for the Model 7125 Rheodyne Valve	\$73.00	
0101-0376	Loop	10ul Sample Loop - for the Model 7125 Rheodyne Valve	\$50.00	
0101-0377	Loop	20ul Sample Loop - for the Model 7125 Rheodyne Valve	\$45.00	
0101-0378	Loop	50ul Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00	
0101-0379	Loop	100ul Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00	
1535-4062	Loop	Micro Volume Loop Disk (Includes 0.5ul, 1.0ul, and 5ul Sample Loops) - for the Model 7143 Rheodyne Valve		
9301-0676	Needle	Blunt Tip Needle - for Use with the 250ul Syringe and the Model 7125 Rheodyne Valve	\$15.00	
9301-0679	Needle	Blunt Tip Needle - for Use with the 25ul Syringe and the Model 7143 Rheodyne Valve	\$17.00	
0100-1214	Port	Loop Filler Port (Rheodyne Model 7012) - Used to Manually Inject a Sample Directly with a Conventional Syringe	\$126.00	
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the Model 7125 Rheodyne Valve	\$60.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for Model 7125 Rheodyne Valve	\$99.00	
1535-4061	Seal	Rotor Seal - for the Model 7143 Rheodyne Valve	\$95.00	
1535-4056	Seal	Isolation Seal - for the Model 7143 Rheodyne Valve	\$58.30	
9301-0633	Syringe	25ul Hamilton Syringe - for Drawing Up to a 25ul Sample Size - for Use with the Model 7143 Rheodyne Valve	\$63.00	
9301-0678	Syringe	250ul Hamilton Syringe - for Drawing Up to a 250ul Sample Size - for Use with the Model 7125 Rheodyne Valve	\$63.00	
0101-0607	Valve	6 Port Rheodyne Valve Assembly (Model 7125) - for Manual Injection	\$655.00	

Manuals, Tools & Supplies

01090-67610	Cable	Extender Cable - for Working on the Autosampler Outside of the 1090 Mainframe	\$66.00	
5180-0842	Cap	Crimp Cap - for the 300ul Microvial (500/Pkg)	\$135.00	*
79841-65501	Lubricant	Lubricant - for High Pressure Pump Belt	\$22.00	
01090-90024	Manual	1090L and II/L Liquid Chromatograph Operator's Manual	\$58.00	
01090-90100	Manual	1090 Series L, M, II/L, and II/M Liquid Chromatograph Service Handbook	\$115.00	
01090-90211	Manual	1090L, M, II/L, and II/M Liquid Chromatograph Getting Ready Guide	\$15.00	
79994-90025	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Standard Software)	\$18.00	
79994-90026	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Std Software)	\$18.00	
79994-90027	Manual	1040M/1090M DAD/LC 'Fact File' Handbook (Standard Software)	\$45.00	
79994-90028	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Standard Software)	\$15.00	

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79994-90029	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Std Software)	\$24.00	
79994-90031	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Foreground/Background Software)	\$18.00	
79994-90032	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Foreground/Background Software)	\$13.00	
79994-90033	Manual	1040M/1090M DAD/LC 'Fact File' Handbook (Foreground/Background Software)	\$45.00	
79994-90034	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Foreground/Background Software)	\$13.00	
79994-90035	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Foreground/Background Software)	\$24.00	
01010-80002	Oil	Hydraulic Fluid - for the High Pressure Pump (100mL)	\$18.00	
01090-66540	PC Board	Extender Board - for Power Supply Control Board (PCS) and Power Supply Board (PWS) - for Access to Test Points	\$196.00	
6010-0694	Paint	Cocoa Brown Paint (6.5oz Aerosol Can) - Touch-Up for Older Instruments (Series I)	\$25.00	
6010-0695	Paint	Pearl Gray Paint (6.5oz Aerosol Can) - Touch-Up for Older Instruments (Series I)	\$20.00	
5180-0843	Sleeve	Adapter Sleeve - for Adapting 300ul Microvials to Fit in the Autosampler Magazine	\$14.00	



8710-1150	Tool	Torque Wrench (3.5 to 17 Newton-Meter) - for Installing the Pump Head on the High Pressure Pump	\$378.00	
8710-1643	Tool	Crimping Tool - for 8mm Crimp Tops (on 300ul Microvials)	\$204.00	
5061-3349	Tray	Microvial Accessory Tray - Holds 50 300ul Vials	\$40.00	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00	
5180-0841	Vial	300ul Microvial (Requires Sleeves to Fit in the Autosampler Magazine) (500/Pkg)	\$130.00	
5181-3400	Vial	2ul Crimp Top Vial (Clear) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$111.00	
5181-8801	Vial	2ul Crimp Top Vial (Amber) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$136.00	
5182-0538	Vial	2ml Crimp Top Vial (Clear) - Will NOT Accept Insert(100/Pkg)≠	\$16.00	
5182-0539	Vial	2ml Crimp Top Vial (Amber) - Will NOT Accept Insert(100/Pkg)≠	\$18.00	
H2604-90006	Video Tape	1090 Series Liquid Chromatograph Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00	
H2604-90007	Video Tape	1090 Series Liquid Chromatograph Troubleshooting and Maintenance Video - PAL Format (VHS)	\$95.00	

Metering Pump Parts

79835-44103	Cover	Protective Cover (Clear Plastic) - Covers Lower Part of Metering Pump and Valves	\$14.00	
79835-43101	Guide	Piston Guide - for the Sapphire Plungers in the Metering Pump (on Bottom of each Solvent Chamber) (2 Used/Pump)	\$25.45	
3980-0672	Plunger	Sapphire Plunger (or Piston) - in Solvent Chambers of the Metering Pump (2 Used/Pump)	\$91.00	
79835-60020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00	
* 79835-69020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00	\$930.00
5062-2494	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Standard Solvents (4/Pkg)	\$115.00	
0905-1194	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Buffered Solvents	\$63.00	
1460-1998	Spring	Compression Spring - Around Plungers (Pistons) on the Metering Pump (Below the Solvent Chambers)(2 Used/Pump)	\$4.00	
79835-60021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00	
* 79835-69021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00	\$580.00

Power Supplies and Parts

2110-0030	Fuse	Fuse - 5A, 250V - for +36V Supply on the Power Supply Control Board	\$2.00	
2110-0303	Fuse	Fuse - 2A, 250V - for -24V Supply on the Power Supply Board, and +17V and -17V Supplies on the Power Supply Control Board	\$1.05	
2110-0342	Fuse	Fuse - 8A, 250V - for +24V Supply on the Power Supply Board	\$3.00	
2110-0055	Fuse	Line Fuse - 4A, 250V - for 220V Operation	\$1.10	
2110-0342	Fuse	Line Fuse - 8A, 250V - for 120V Operation	\$3.00	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$ .95	
2110-0566	Fuseholder	Fuseholder Body - Cap NOT Included	\$2.40	
01090-66522	PC Board	Power Supply Board	\$530.00	
01090-66523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00	
01090-66524	PC Board	Power Supply Mother Board - Interconnects the Power Supply Boards to the Power Supply Control Board	\$330.00	
01090-66525	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 120V AC Main Fan ONLY (Serial Number Prefix < 3D44A)	\$275.00	
01090-66555	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 24V DC Main Fan ONLY (Serial Number Prefix >= 3D44A)	\$111.00	
* 01090-69522	PC Board	Power Supply Board	\$530.00	\$390.00
* 01090-69523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00	\$340.00
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$10.00	
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
8120-2957	Power Cord	Power Cord (Gray) - 220V Operation in Denmark - 2m, 90 Deg	\$30.00	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
3101-0402	Switch	Power Switch - Mounts on Rear Panel	\$8.00	
01090-61103	Transformer	Power Transformer Assy - for 180/120V and 220/240V Operation	\$435.00	

SDS Electronics

79835-66515	PC Board	Metering Pump Limit Board (MPL) - Senses Upper End Position of Both Pistons on the Metering Pump System	\$76.85	
79835-66516	PC Board	Rotary Valve Sensor Board (RVS) (Almost Round PC Board) - Checks Position of Rotary Valve Unit	\$100.75	
79835-66517	PC Board	Pump Stroke Sensor Board (PSS) - Produces a Pulse for Each Revolution of the High Pressure Pump Motor	\$71.50	
79835-66522	PC Board	Solvent Delivery Mother Board (SMO) (New Style - Has 3 Board Slots and Attached Interconnecting Cables) - for Serial	\$557.00	



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP DETECTORS

HP MASS SELECTIVE DETECTOR

(5971A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Effluent Splitter Parts</b>				
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a 320um Column in Straight Part of Tee Connector (10/Pkg)	\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing Restrictor Tube in Straight Part of Tee Connector (10/Pkg)	\$55.00	
5062-3538	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a Mega-Bore Column in Straight Part of Tee Connector (10/Pkg)	\$43.00	
59913A	Jet Separator	Glass Jet Separator - Use with Packed or Megabore Columns		
05988-28066	Nut	SGE Nut - for Securing (Mega-Bore or Wide-Bore) Column or Restrictor Tube in Ends of Straight Part of 'Tee' Connector	\$12.00	
2740-0015	Nut	Short Nut - for Securing Vent Tube in Leg of Tee Connector	\$10.60	
0905-0938	O-Ring	Graphitised Vespel Sealing Ring - for Sealing the Vent Tube in the Leg of the 'Tee' Connector	\$13.00	
05971-20590	Restrictor	Restrictor Column (0.115mm ID) - Connecting Capillary Tube Between Tee Connector and GC/MSD Interface	\$63.60	
05995-20174	Tee Connector	Tee Connector - Used to Adapt Wide-Bore or Mega-Bore Columns for MSD Use - Attaches to Column in GC Oven Compartment	\$152.00	
05988-20224	Tube	Split Tube - Slides into Tee Connector - for Adapting Wide-Bore Column for Use with MSD (NOT Used with Mega-Bore)	\$92.50	
1530-2163	Tube	Vent Tube (Stainless Steel) - Attaches to Cross Leg of Tee Connector - Vents Excess Effluent Out of GC Oven Compartment	\$11.00	
<b>GC/MSD Interface Parts</b>				
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC	\$138.00	
0100-1398	Clamp	Hinged Flange Clamp (Size KF25) - for Securing GC/MSD Interface to Mass Analyzer Vacuum Cavity	\$23.00	
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.5mm ID) for Sealing a 320um Column at Entrance to GC/MSD Interface (10/Pkg)	\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing a 100um Column at Entrance to GC/MSD Interface (10/Pkg)	\$55.00	
5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) for Sealing a 200/250um Column at Entrance to GC/MSD Interface (10/Pkg)	\$55.00	
5181-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of GC/MSD Interface During Storage or Shipping (10/Pkg)	\$42.00	
05971-20307	Guide Tube	Guide Tube (Fused-Silical) - Transfer Line in Center of GC/MSD Interface (NOTE: End of Column (or Restrictor Tube) Can Be Used Instead of the Transfer Line)	\$80.00	
0515-0071	Hardware	Cap Head Screw (M4.0 x 0.70, 16mm Long) - Holds the Heater/Sensor Sleeve Halves Together (on the GC/MSD Interface Assy)	\$1.55	
05971-60105	Heater/Sensor	Heater/Sensor Assy (with 5 Pin Connector) - Cartridge Style Heater and Sensor - Slides into Interface Outer Metal Jacket	\$297.00	
05971-20301	Insulation	Insulation Tube - Covers GC/MSD Interface Assembly	\$106.00	
05971-60302	Interface	GC/MSD Interface Assembly - Includes Internal Heat Transfer Tube and Bellows (with KF25 Flange)	\$583.00	
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05988-20066	Nut	SGE Nut - for Securing Column in End of GC/MSD Interface	\$12.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between GC/MSD Interface Bellows and Mass Analyzer Vacuum Cavity	\$29.70	
05988-20210	Sleeve	Heater/Sensor Sleeve (Clamp) for GC/MSD Interface - Outer Metal Jacket of Interface (Part Number is for Both Halves)	\$191.00	
05971-20305	Tip	Transferline Tip (Gold Plated) - Screw-On Tip End of the GC/MSD Interface (Which is Inserted into the Ion Source)	\$191.00	
05971-60112	Upgrade Kit	Upgrade Kit - Replaces 6 Pin Heater/Sensor and Cable Assemblies with 5 Pin (AMP Style) Components	\$392.00	
<b>Interconnecting Cables</b>				
05971-60429	Cable	Cable Assy - IRD External Accessory Control Cable - Used in GC/IRD/MSD Systems	\$340.00	
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC	\$138.00	
35980-60700	Cable	Cable Assembly - from the Accessory Remote Control (APG) Connector on the Rear Panel to the Gas Chromatograph	\$68.90	
0120-4654	Cable (Interface)	HP-IB Cable (1.0m) - for Connecting MSD to Controller System	\$77.50	
<b>Ion Gauge Tube Controller</b>				
59822-60002	Cable	Cable Assembly - from the Ionization Gauge Tube to the Gauge Tube Controller	\$371.00	
0100-0549	Clamp	Flange Clamp (Size KF25) - for the Securing Calibration Valve to Bottom of (Ionization Gauge Tube) Tee-Fitting, and the Tee-Fitting to the Bottom of the Vacuum Cavity (2 Used)	\$33.00	
59822-60003	Controller	Replacement Ionization Gauge Tube Controller (598220)	\$1,590.00	



* 59822-69003	Controller	Replacement Ionization Gauge Tube Controller (59822B)	\$1,590.00	\$930.00
59822B	Controller	Ionization Gauge Tube Controller System - Includes Controller, Ionization Gauge Tube, Cables, and Fittings		
05971-20500	Fitting	'Tee' Fitting - Attaches to Bottom of Mass Analyzer Vacuum Cavity, Ion Gauge Tube, and Calibration Valve Assembly	\$424.00	
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between the Ionization Gauge Tube Tee-Fitting to the Bottom of Vacuum Cavity or for the Tee-Fitting to Calibration Valve (2 Used)	\$29.70	
0905-0456	O-Ring	0.737in O-Ring - Provides a Seal Between the Ion Gauge Tube and the Tee-Fitting	\$1.65	
0960-0376	Tube	Ionization Gauge Tube (Clear Glass) - Attaches to the 'Tee' Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00	

Ion Source Parts

05971-20128	Body	Ion Source Body - Outer Body/Main Structure of Ion Source - Metal Cylinder with End Flange for Mounting the Repeller Drawout Cylinder - Slotted Metal Ring - Slides into Ion Source Body (on Top of Drawout Plate)	\$302.00	
61072-20008	Cylinder	Drawout Cylinder - Slotted Metal Ring - Slides into Ion Source Body (on Top of Drawout Plate)	\$170.00	
05971-60140	Filament	Filament Assy - 2 Contact Plates/Pins with a Welded Filament Wire Between Them - all Secured to a Mounting Block (2 Used)	\$126.00	
0515-1046	Hardware	Cap Head Screw (M2.0 x 0.40, 8mm Long) - Secures the Filaments and the Repeller Assy to the Source Body (2 Used)	\$ .70	
0515-1077	Hardware	Cap Head Screw (M2.0 x 0.40, 5mm Long) - Secures the Ion Source (Via Slots in the Repeller) to the Radiator Housing	\$1.65	
0515-1446	Hardware	Set Screw (M3 x 0.5, 3mm Long) - On Side of Ion Source - Keeps Interior Parts (Lens Stack) in Place	\$2.35	
05971-20130	Insulator	Lens Insulator Half - Keeps Entrance and Ion Focus Lenses from Contacting Side Wall of Ion Source Body (Sold as a Pair)	\$230.00	

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05971-60102	Ion Source	Complete Ion Source Assembly (Tested)	\$1,760.00	
* 05971-69102	Ion Source	Complete Ion Source Assembly (Tested)	\$1,760.00	\$740.00
05971-20126	Lens	Entrance Lens Assembly (with Contact Pin) - 'T' Shaped (Side View) Round Metal Tip of Ion Source - Goes into End of Ion Source Body Between Insulator Halves	\$93.00	
05971-20143	Lens	Ion Focus Lens (with Contact Pin) - Metal Cylinder with a Flat Bottom (and Center Hole) - Goes into Ion Source Body Between the two Insulator Halves	\$233.00	
05971-20134	Plate	Drawout Plate - Round Washer Shaped Metal Piece - Sits in Bottom of Deeper Cylinder Side of Ion Source Body	\$61.00	
05971-60170	Repeller	Repeller Assy (Rectangular Shaped Piece) - Mounts to Flange End of Source Body (Also Has Mounting Holes for Filaments)	\$244.00	

MSD Electronics

05970-60151	Cable	Remote Cable Assembly - From APG Control Board to Rear Panel Remote Control (Top) Connector	\$63.60	
05971-60411	Cable	Ribbon Cable - From Top Bd to Main Bd (on Electronics Panel)	\$40.30	
05971-60413	Cable	Cable Assembly - from the Power Distribution Board to the Foreline Vacuum Gauge Tube	\$143.00	
05971-60417	Cable	Ribbon Cable - From HP-IB/MS Control Board (on Electronics Panel) to Rear Panel HP-IB Connector	\$25.40	
05971-60419	Cable	Ribbon Cable - from GPIO Interface Control Bd to Rear Panel	\$28.60	
05971-60426	Cable	Ribbon Cable - From APG Board to HP-IB/MS Control Board	\$19.60	
05971-60540	Fan	Fan Assembly (for 110V/120V Operation) - Mounts to Rear Panel (Between Diffusion Pump and Rear Panel)	\$160.00	
05971-60541	Fan	Fan Assembly (for 220V/240V Operation) - Mounts to Rear Panel (Between Diffusion Pump and Rear Panel)	\$138.00	
2110-0001	Fuse	Fuse - 1A, 250V (for 240V Operation) - For Fuse Holder in Center of Power Supply	\$ .30	
2110-0002	Fuse	Fuse - 2A, 250V (for 120V Operation) - For Fuse Holder in Center of Power Supply	\$ .85	
2110-0014	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.00	
2110-0055	Fuse	Fuse - 4A, 250V - for 220V/240V Operation - for Rear Panel (Line) Fuseholder - for Serial Number Prefix < 2908A	\$1.10	
2110-0342	Fuse	Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$3.00	
05971-60001	PC Board	Fuse - 8A, 250V - for 110V/120V Operation - for Rear Panel (Line) Fuseholder - for Serial Number Prefix < 2908A	\$1,480.00	
05971-60004	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer (Under Two Safety Covers)	\$530.00	
05971-60009	PC Board	GPIO Interface Control Board - Mounts in Back of Main Board - for Use with PASCAL (PAWS) ChemStations ONLY	\$509.00	
05971-60012	PC Board	APG Remote Control Interface Board - Small Board Behind Power Switch/Circuit Breaker - Mounts to HP-IB/MS Control Bd	\$2,600.00	
05971-60018	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of GPIO Interface Control Board (for Use with PASCAL (PAWS) or DOS ChemStations ONLY)	\$1,540.00	
* 05971-69001	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB/MS Control Bd (for Use with HP-UX ChemStations ONLY)	\$1,480.00	\$415.00
* 05971-69004	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer (Under Two Safety Covers)	\$530.00	\$276.00
* 05971-69006	PC Board	GPIO Interface Control Board - Mounts in Back of Main Board - for Use with PASCAL (PAWS) ChemStations ONLY	\$690.00	
		HP-IB/MS Control Board - Large Board Near the Power Switch/		





Circuit Breaker (APG Control Board Mounts to This Board) -

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\* 05971-69012 - PC Board

For Use with DOS or HP-UX ChemStations ONLY  
Main Board (Largest Board in MSD) - Mounts in Front of GPIO Interface Control Board (for Use with PASCAL (PAWS) or DOS ChemStations ONLY) \$2,600.00 \$690.00

\* 05971-69010 - PC Board

Main Board (Largest Board in MSD) - Mounts in Front of HP-10 /MS Control Bd (for Use with HP-UX ChemStations ONLY) \$1,540.00 \$580.00

05972-60003 - PC Board

Power Distribution Board (L-Shaped) - Mounts to the Rear Side of the Electronics Panel (Next to Power Supply) \$425.00

\* 05972-69003 - PC Board

Power Distribution Board (L-Shaped) - Mounts to the Rear Side of the Electronics Panel (Next to Power Supply) \$425.00 \$295.00

0120-0651 Power Cord

Power Cord (Gray) - for 220V in Europe - 4.5m, Stripped End \$16.50

0120-3330 Power Cord

Power Cord - for 220V Operation in Denmark - 2.5m, Cut End \$37.00

0120-5216 Power Cord

Power Cord (Black) 14 AWG - 120V USA/Canada - 78in, Lug Ends \$27.60

05972-67006 Power Supply

Switching Power Supply (Has 13 Wire Terminal Strip) - Mounts on Rear Side of Electronics Panel (Comes Fused for 120V) \$530.00

3105-0177 Switch

Power Switch/Circuit Breaker (for 120V Operation) - on Rear Panel - for Serial Number Prefix 2&= 2908A \$67.50

3105-0173 Switch

Power Switch/Circuit Breaker (for 240V Operation) - on Rear Panel - for Serial Number Prefix 2&= 2908A \$67.50

05971-60430 Thermoswitch

Thermoswitch Assy - Mounts to Side of Diffusion Pump - Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cable \$145.00

Manuals, Tools & Supplies

0660-0791 Abrasive Powder  
5061-5096 Abrasive Sheet

Alumina Abrasive Powder - for Cleaning the Ion Source \$26.00  
Abrasive Sheets (30 Micron Aluminum Oxide) - 8.5in x 11in - for Ion Source Maintenance (5/Pkg) \$24.00

0650-0029 Cleaning Gloves  
0650-0030 Cleaning Gloves  
05980-60051 Cleaning Wipes

Polyester Gloves (Small) - for Working on Mass Analyzer \$8.75  
Polyester Gloves (Large) - for Working on Mass Analyzer \$14.00  
Lint Free Cleaning Cloths - for Ion Source (or Mass Analyzer) Maintenance (15/Pkg) \$39.00

05971-90019 Manual  
05971-90147 Manual  
05971-60571 PFTBA

5971A Mass Selective Detector Hardware Manual \$68.00  
5971A Mass Selective Detector CE Handbook \$61.00  
Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial \$61.00

6010-1146 Paint  
9301-1104 Pellets

Dove Gray Enclosure Paint - Touch-Up (6.5oz Aerosol Can) \$23.00  
Adsorbent Pellets (Molecular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly \$43.00

5080-5400 Swabs  
05971-20172 Tool  
05971-60561 Tool

Cotton Swabs (100 per Pack) \$9.00  
Ion Source Holding Tool - for Ion Source Maintenance Work \$49.00  
Tool Kit - Includes MOST Tools Needed for Cleaning the Ion Source \$357.00

0710-0510 Tool  
0710-0907 Tool

Open End Wrench - 1/4 inch and 5/16 inch Ends \$22.00  
Tightening (Adjustment) Tool - 4 75in Long - for Ion Source Maintenance \$45.00

0710-1570 Tool  
05971-90007 Video Tape  
05971-90008 Video Tape  
H5317-90006 Video Tape

1.5mm Hex Ball Driver - for Mass Analyzer Maintenance \$18.00  
Cleaning the Ion Source in the 5971A - NTSC Format (VHS) \$34.00  
Cleaning the Ion Source in the 5971A - PAL Format (VHS) \$47.00  
5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - NTSC Format (VHS) \$195.00

H5317-90007 Video Tape

5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - PAL Format (VHS) \$95.00

Other Mass Analyzer Parts

\* 05971-69100 Analyzer

Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier & Top Board (all Mounted to the Top Plate) - for Use with DOS or HP-UX Workstations \$4,560.00

\* 05971-69108 Analyzer

the Top Plate) - for Use with DOS or HP-UX Workstations  
Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier & Top Board (all Mounted to the Top Plate) - for Use with PASCAL Workstations (PAWS) \$6,040.00

0100-0549 Clamp

Flange Clamp (Size KF25) - for the Securing Calibration Valve to Bottom of (Ionization Gauge Tube) Tee-Fitting, and the Tee-Fitting to the Bottom of the Vacuum Cavity (2 Used) \$33.00

05971-00210 Clamp

Front Shipping Clamp - Secures Mass Analyzer Assembly During Shipping \$31.80

05971-00211 Clamp

Rear Shipping Clamp - Secures Mass Analyzer Assembly During Shipping \$40.30

05972-67002 Contact

Quadrupole Contact Upgrade Kit - Includes Contacts, Springs, and Instructions \$206.00

05971-80101 Electron Multiplier

Electron Multiplier Assy (by Galileo) - Mounts to the End of Radiator (Square Tube) Assembly in the Mass Analyzer \$1,045.00

05971-80102 Electron Multiplier

Electron Multiplier Assy (by K & M) - Mounts to the End of Radiator (Square Tube) Assembly in the Mass Analyzer \$980.00

05971-20500 Fitting

'Tee' Fitting - Attaches to Bottom of Mass Analyzer Vacuum Cavity, Ion Gauge Tube, and Calibration Valve Assembly \$424.00

05971-40100 Gasket

Top Plate Gasket - for Seal Between the Top Plate of Mass Analyzer and the Vacuum Chamber (Manifold) \$91.00

05971-80103 Horn

Replacement Horn Assembly (Canister Shaped Horn Component at End of Radiator Housing - Held in Place with a Spring Clip) - for the K & M Electron Multiplier ONLY \$875.00

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05971-60160	Magnet	Magnet Assembly - Attaches to Ion Source End of the Radiator Housing (Opposite the Interface Socket)	\$413.00
05971-20550	Manifold	Mass Analyzer Vacuum Manifold (Casted Metal) - Main Structure of the Vacuum Cavity in the MSD	\$530.00
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between GC/MSD Interface to Vacuum Cavity or for Ionization Gauge Tube Tee-Fitting to Vacuum Cavity and Calibration Valve (3 Used)	\$29.70
0905-0456	O-Ring	0.737in O-Ring - Provides a Seal Between the Ion Gauge Tube and the Tee-Fitting	\$1.65
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00
05971-60120	Plate	Top Plate Assembly (Oval Shaped) - for Top of Mass Analyzer Vacuum Cavity - Includes Connection Feed-Throughs	\$1,010.00
05971-20120	Radiator	Radiator Housing (Square Metal Tube) - Main Internal Structure of the Mass Analyzer (Quadrupole NOT Included)	\$466.00
05971-20133	Socket	GC/MSD Interface Socket (Gold Plated) - Round Socket That Screws into Side of the Radiator Tube in the Mass Analyzer (Needed to Transfer Heat from the Interface to the Analyzer)	\$111.00
0960-0376	Tube	Ionization Gauge Tube (Clear Glass) - Attaches to the 'Tee' Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00
05971-60550	Valve	Calibration Valve (Solenoid Valve with Vial) - Attaches to Bottom of Tee-Fitting on Front End of Mass Analyzer Assembly	\$319.00
05980-20018	Vial	PFTBA Vial - Attaches to Bottom of Calibration Valve	\$12.00

Pumps and Related Parts

05971-20562	Body	Foreline Trap Body - Canister Part of the Foreline Trap (with KF25 Bottom Fitting)	\$42.40
0100-1395	Clamp	Flange Clamp (Size KF50) - Holds Diffusion Pump to Bottom of MSD's Mass Analyzer Vacuum Cavity	\$52.50
0100-1397	Clamp	Flange Clamp (Size KF10/16) - Holds Foreline Vacuum Gauge Tube and Fitting (Hose to Foreline Pump) to Diffusion Pump	\$26.00
0100-1398	Clamp	Winged Flange Clamp (Size KF25) - for Securing the Foreline	\$23.00

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0100-1426	Clamp	Trap to the Foreline Pump Flange Clamp (Size KF40) - for Securing The Top Cap to the Body of the Foreline Trap	\$35.00
05971-20530	Fitting	Foreline Vacuum Gauge Fitting - Mounts to Exhaust Tube of Diffusion Pump - For Gauge Tube And Hose to Foreline Pump	\$77.00
2110-0002	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.85
2110-0055	Fuse	Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.10
0960-0540	Gauge Tube	Foreline Vacuum Gauge Tube - Monitors Vacuum of the Foreline Pump - Attaches to a Fitting on Side of the Diffusion Pump	\$286.00
05971-60119	Hose	Foreline Hose (with Internal Coil Spring) - Hose Between Diffusion Pump and Foreline Pump	\$74.00
0100-1183	O-Ring	O-Ring (KF10 Seal) - for Seal Between Diffusion Pump and Foreline Vacuum Gauge Tube Fitting	\$17.00
0100-1425	O-Ring	O-Ring (KF40 Seal) - for Seal Between Cap and Body of Foreline Trap	\$30.00
0100-1551	O-Ring	O-Ring (KF25 Seal, Internally Vented) - for Seal Between the Bottom of the Trap and the Foreline Pump	\$29.70
05971-20177	O-Ring	O-Ring (NMSD Seal) - for Seal Between Diffusion Pump and the MSD's Mass Analyzer Vacuum Cavity	\$93.00
6040-0809	Oil	Diffusion Pump Fluid (Polyphenyl Ether) - 18.5ml	\$70.00
6040-0834	Oil	Vacuum Pump Oil (Polyalphaolefin) - for Foreline Pump (1 Qt)	\$36.00
9301-1104	Pellets	Adsorbent Pellets (Molecular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly	\$43.00
05971-60530	Pump	Diffusion Pump Assembly (for 110V/120V Operation) - Attaches to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)	\$2,600.00
05971-60531	Pump	Diffusion Pump Assembly (for 220V/240V Operation) - Attaches to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)	\$2,330.00
* 05971-69149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation - for MSD's with Serial Number Prefix >=&= 2908A	\$1,640.00 \$980.00
3162-0125	Pump	(Edwards E2M1) Foreline Pump Assembly - for 120V Operation - for MSD's with Serial Number Prefix < 2908A	\$1,300.00
3162-0126	Pump	(Edwards E2M1) Foreline Pump Assembly - for 240V Operation - for MSD's with Serial Number Prefix < 2908A	\$1,430.00
3162-0149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation - for MSD's with Serial Number Prefix >=&= 2908A	\$1,640.00
05909-00024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation - for MSD's with Serial Number Prefix >=&= 2908A	\$2,010.00
* 05909-09024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation - for MSD's with Serial Number Prefix >=&= 2908A	\$2,010.00 \$1,110.00
05971-00560	Screen	Lower Screen - for Foreline Trap Body	\$19.10
05971-00561	Screen	Upper Screen - for Foreline Trap Cap	\$29.70
05971-60430	Thermoswitch	Thermoswitch Assy - Mounts to Side of Diffusion Pump - Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cable	\$145.00

System Software

G10398	CD ROM	Pfleger/Maurer/Weber Library of 4370 Drugs, Poisons, and Their Metabolism - for HP-UX System ChemStations (Software Requires 4.5MB of Free Disk Space) - on CD ROM	\$4,285.00
G1034C	Software	MS ChemStation DOS System Operating Software - Requires 10MB	\$7,350.00



G1038A	Software	of Free Disk Space MS Pesticide Library - for DOS System Chemstations - Requires 1MB of Free Disk Space	\$805.00
G1042A	Software	Pfleger/Maurer/Weber Library of 4370 Drugs, Poisons, and Their Metabolism - for DOS System ChemStations (Software	\$2,970.00

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Requires 4.5MB of Free Disk Space)

\* = Exchange Part  
# = Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP DETECTORS

HP MASS SELECTIVE DETECTOR

(5972A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Effluent Splitter Parts</b>				
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a 320um Column in Straight Part of Tee Connector (10/Pkg)	\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing Restrictor Tube in Straight Part of Tee Connector (10/Pkg)	\$55.00	
5062-3538	Ferrule	Ferrule (15% Graphite, 85% Vespel) for Sealing a Mega-Bore Column in Straight Part of Tee Connector (10/Pkg)	\$43.00	
59913A	Jet Separator	Glass Jet Separator - Use with Packed or Megabore Columns		
05988-20066	Nut	SGE Nut - for Securing (Mega-Bore or Wide-Bore) Column or Restrictor Tube in Ends of Straight Part of 'Tee' Connector	\$12.00	
2740-0015	Nut	Short Nut - for Securing Vent Tube in Leg of Tee Connector	\$10.60	
0905-0938	O-Ring	Graphitised Vespel Sealing Ring - for Sealing the Vent Tube in the Leg of the 'Tee' Connector	\$13.00	
05971-20590	Restrictor	Restrictor Column (0.115mm ID) - Connecting Capillary Tube Between Tee Connector and GC/MSD Interface	\$63.60	
05995-20174	Tee Connector	Tee Connector - Used to Adapt Wide-Bore or Mega-Bore Columns for MSD Use - Attaches to Column in GC Oven Compartment	\$152.00	
05988-20224	Tube	Split Tube - Slides into Tee Connector - for Adapting Wide-Bore Column for Use with MSD (NOT Used with Mega-Bore)	\$92.50	
1530-2163	Tube	Vent Tube (Stainless Steel) - Attaches to Cross Leg of Tee Connector - Vents Excess Effluent Out of GC Oven Compartment	\$11.00	
<b>GC/MSD Interface Parts</b>				
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC	\$138.00	
0100-1398	Clamp	Hinged Flange Clamp (Size KF25) - for Securing GC/MSD Interface to Mass Analyzer Vacuum Cavity	\$23.00	
5062-3506	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.5mm ID) for Sealing a 320um Column at Entrance to GC/MSD Interface (10/Pkg)	\$45.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing a 100um Column at Entrance to GC/MSD Interface (10/Pkg)	\$55.00	
5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) for Sealing a 200/250um Column at Entrance to GC/MSD Interface (10/Pkg)	\$55.00	
5181-3300	Ferrule	Blank Ferrule (No Hole) - for Sealing End of GC/MSD Interface During Storage or Shipping (10/Pkg)	\$42.00	
05971-20307	Guide Tube	Guide Tube (Fused-Silica) - Transfer Line in Center of GC/MSD Interface (NOTE: End of Column (or Restrictor Tube) Can Be Used Instead of the Transfer Line)	\$80.00	
0515-0071	Hardware	Cap Head Screw (M4.0 x 0.70, 16mm Long) - Holds the Heater/Sensor Sleeve Halves Together (on the GC/MSD Interface Assy)	\$55	
05971-60105	Heater/Sensor	Heater/Sensor Assy (with 5 Pin Connector) - Cartridge Style Heater and Sensor - Slides into Interface Outer Metal Jacket	\$297.00	
05971-20301	Insulation	Insulation Tube - Covers GC/MSD Interface Assembly	\$106.00	
05971-60302	Interface	GC/MSD Interface Assembly - Includes Internal Heat Transfer Tube and Bellows (with KF25 Flange)	\$583.00	
Page: 1				
05988-20066	Nut	SGE Nut - for Securing Column in End of GC/MSD Interface	\$12.00	
0100-1597	O-Ring	O-Ring (KF25 Seal, with External Centering Ring) - for Seal Between GC/MSD Interface Bellows and Analyzer Vacuum Cavity	\$43.00	
05988-20210	Sleeve	Heater/Sensor Sleeve (Clamp) for GC/MSD Interface - Outer Metal Jacket of Interface (Part Number is for Both Halves)	\$191.00	
05971-20305	Tip	Transferline Tip (Gold Plated) - Screw-On Tip End of the GC/MSD Interface (Which is Inserted into the Ion Source)	\$191.00	
<b>Interconnecting Cables</b>				
05971-60429	Cable	Cable Assy - IRD External Accessory Control Cable - Used in GC/IRD/MSD Systems	\$340.00	
05989-60074	Cable	Cable Assy (with 5 Pin Connector) - Innerconnects the Heater/Sensor Assy to Detector B Heated Zone on the GC	\$138.00	
35900-60700	Cable	Cable Assembly - from the Accessory Remote Control (APG) Connector on the Rear Panel to the Gas Chromatograph	\$68.90	
8120-4654	Cable (Interface)	HP-IB Cable (1.0m) - for Connecting MSD to Controller System	\$77.50	
<b>Ion Gauge Tube Controller</b>				
05972-00015	Baffle	Flow Baffle - Goes in Stem of Ion Gauge Tube	\$13.50	
59822-60002	Cable	Cable Assembly - from the Ionization Gauge Tube to the Gauge Tube Controller	\$371.00	
05972-60210	Collar	Collar (Knurled Nut) - for Attaching Ion Gauge Tube to Fitting on Front of Mass Analyzer Vacuum Cavity	\$32.90	
59822-60003	Controller	Replacement Ionization Gauge Tube Controller (59822B)	\$1,590.00	
* 59822-69003	Controller	Replacement Ionization Gauge Tube Controller (59822B)	\$1,590.00	
59822B	Controller	Ionization Gauge Tube Controller System - Includes	\$930.00	

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0905-1070	O-Ring	Controller, Ionization Gauge Tube, Cables, and Fittings 0.737in O-Ring - Provides Seal Between the Ion Gauge Tube and the Mass Analyzer Vacuum Cavity Fitting	\$3.60	
0960-0376	Tube	Ionization Gauge Tube (Clear Glass) - Attaches to the Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00	
<b>Ion Source Parts</b>				
05971-20120	Body	Ion Source Body - Outer Body/Main Structure of Ion Source - Metal Cylinder with End Flange for Mounting the Repeller	\$302.00	
G1072-20000	Cylinder	Drawout Cylinder - Slotted Metal Ring - Slides into Ion Source Body (on Top of Drawout Plate)	\$170.00	
05972-60053	Filament	Filament Assy - 2 Contact Rods/Pins with a Welded Filament Wire Between Them - all Secured to a Mounting Block (2 Used)	\$81.00	
0515-1046	Hardware	Cap Head Screw (M2.0 x 0.40, 8mm Long) - Secures the Filaments and the Repeller Assy to the Source Body (2 Used)	\$ .70	
0515-1077	Hardware	Cap Head Screw (M2.0 x 0.40, 5mm Long) - Secures the Ion Source (Via Slots in the Repeller) to the Radiator Housing	\$1.65	
0515-1446	Hardware	Set Screw (M3 x 0.5, 3mm Long) - On Side of Ion Source - Keeps Interior Parts (Lens Stack) in Place	\$2.35	
05971-20130	Insulator	Lens Insulator Half - Keeps Entrance and Ion Focus Lenses from Contacting Side Wall of Ion Source Body (Sold as a Pair)	\$230.00	
05972-60226	Ion Source	Complete Ion Source Assembly (Tested)	\$1,700.00	\$740.00
* 05972-69226	Ion Source	Complete Ion Source Assembly (Tested)	\$1,700.00	
05971-20126	Lens	Entrance Lens Assembly (with Contact Pin) - 'T' Shaped (Side View) Round Metal Tip of Ion Source - Goes into End of Ion Source Body Between Insulator Halves	\$93.00	
05971-20143	Lens	Ion Focus Lens (with Contact Pin) - Metal Cylinder with a Flat Bottom (and Center Hole) - Goes into Ion Source Body	\$233.00	
Page: 2				
05971-20134	Plate	Drawout Plate - Round Washer Shaped Metal Piece - Sits in Bottom of Deeper Cylinder Side of Ion Source Body	\$61.00	
05971-60170	Repeller	Repeller Assy (Rectangular Shaped Piece) - Mounts to Flange End of Source Body (Also Has Mounting Holes for Filaments)	\$244.00	
<b>MSD Electronics</b>				
05971-60411	Cable	Ribbon Cable - From Top Bd to Main Bd (on Electronics Panel)	\$40.30	
05971-60413	Cable	Cable Assembly - from the Power Distribution Board to the Foreline Vacuum Gauge Tube	\$143.00	
05971-60417	Cable	Ribbon Cable - From HP-IB/MS Control Board (on Electronics Panel) to Rear Panel HP-IB Connector	\$25.40	
05972-60437	Cable	Cable Assembly - from Main Board to Rear Panel Accessory Control Connector	\$42.40	
05972-60438	Cable	Remote Cable Assembly - From APG Control Board to Rear Panel Remote Control (Top) Connector	\$41.30	
05972-60541	Fan	Fan Assembly (for 220V/240V Operation) - Mounts to Rear Panel (Between Diffusion Pump and Rear Panel)	\$104.00	
05972-60542	Fan	Fan Assembly (for 110V/120V Operation) - Mounts to Rear Panel (Between Diffusion Pump and Rear Panel)	\$185.00	
2110-0002	Fuse	Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$ .85	
2110-0055	Fuse	Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion Pump (Fuseholders on Internal Electronics Panel) (2 Used)	\$1.10	
05971-60001	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer (Under Two Safety Covers)	\$1,480.00	
* 05971-69001	PC Board	Top Board (Oval Shaped) - Mounts to Top of Mass Analyzer (Under Two Safety Covers)	\$1,480.00	\$415.00
05972-60003	PC Board	Power Distribution Board (L-Shaped) - Mounts to the Rear Side of the Electronics Panel (Next to Power Supply)	\$425.00	
05972-60020	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB /MS Control Board	\$1,170.00	
05972-60030	PC Board	Front Panel Display Board - for MSD Status Indication	\$180.00	
* 05972-69003	PC Board	Power Distribution Board (L-Shaped) - Mounts to the Rear Side of the Electronics Panel (Next to Power Supply)	\$425.00	\$295.00
* 05972-69020	PC Board	Main Board (Largest Board in MSD) - Mounts in Front of HP-IB /MS Control Board	\$1,170.00	\$770.00
05990-65406	PC Board	HP-IB/MS Control Board - Large Board Near the Power Switch/ Circuit Breaker	\$1,700.00	
* 05990-69406	PC Board	HP-IB/MS Control Board - Large Board Near the Power Switch/ Circuit Breaker	\$1,700.00	\$820.00
0120-0651	Power Cord	Power Cord (Gray) - for 220V in Europe - 4.5m, Stripped End	\$16.50	
0120-3330	Power Cord	Power Cord - for 220V Operation in Denmark - 2.5m, Cut End	\$37.00	
0120-5216	Power Cord	Power Cord (Black) 14 AWG - 120V USA/Canada - 78in, Lug Ends	\$27.50	
0950-2552	Power Supply	Switching Power Supply (Has 13 Wire Terminal Strip) - Mounts on Rear Side of Electronics Panel	\$339.00	
3105-0172	Switch	Power Switch/Circuit Breaker (for 120V Operation) - on Rear Panel	\$62.50	
3105-0173	Switch	Power Switch/Circuit Breaker (for 240V Operation) - on Rear Panel	\$67.50	
05972-60402	Thermoswitch	Thermoswitch Cable Assy - Mounts to Side of Diffusion Pump - Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cables, Plus the Cable to the Diffusion Pump Heater	\$145.00	



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0660-0791	Abrasive Powder	Alumina Abrasive Powder - for Cleaning the Ion Source	\$26.00	
5061-5896	Abrasive Sheet	Abrasive Sheets (30 Micron Aluminum Oxide) - 8.5in x 11in - for Ion Source Maintenance (5/Pkg)	\$24.00	
0650-0029	Cleaning Gloves	Polyester Gloves (Small) - for Working on Mass Analyzer	\$8.75	
0650-0030	Cleaning Gloves	Polyester Gloves (Large) - for Working on Mass Analyzer	\$14.00	
05980-60051	Cleaning Wipes	Lint Free Cleaning Cloths - for Ion Source (or Mass Analyzer) Maintenance (15/Pkg)	\$39.00	
05972-90002	Manual	5972A Mass Selective Detector Installation Manual	\$19.60	
05972-90026	Manual	5972A Mass Selective Detector Hardware Manual	\$80.00	
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00	
6010-1146	Paint	Dove Gray Enclosure Paint - Touch-Up (6.5oz Aerosol Can)	\$23.00	
9301-1104	Pellets	Adsorbent Pellets (Molecular Sieve) - for Refilling Foreline Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly	\$43.00	
5080-5400	Swabs	Cotton Swabs (100 per Pack)	\$9.00	
05972-60566	Tool	Tool Kit - Includes MOST Tools Needed for Cleaning the Ion Source	\$318.00	
0710-0510	Tool	Open End Wrench - 1/4 inch and 5/16 inch Ends	\$22.00	
0710-0907	Tool	Tweezers (Stainless Steel) - 4.75in Long - for Ion Source Maintenance	\$45.00	
0710-1570	Tool	1.5mm Hex Ball Driver - for Mass Analyzer Maintenance	\$16.00	
05972-90011	Video Tape	Cleaning the Ion Source in the 5972A - NTSC Format (VHS)	\$16.40	
05972-90012	Video Tape	Cleaning the Ion Source in the 5971A - PAL Format (VHS)	\$16.40	
H5317-90006	Video Tape	5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00	
H5317-90007	Video Tape	5971A/72A Mass Selective Detectors Troubleshooting and Maintenance Video - PAL Format (VHS)	\$95.00	

Other Mass Analyzer Parts

05972-60228	Analyzer	Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier and Top Board (all Mounted to the Top Plate)	\$11,910.00	
* 05972-69228	Analyzer	Mass Analyzer Assembly (Tested) - Includes Ion Source, Quadrupole, Electron Multiplier and Top Board (all Mounted to the Top Plate)	\$11,910.00	\$4,560.00
05972-00015	Baffle	Flow Baffle - Goes in Stem of Ion Gauge Tube	\$13.50	
05972-00200	Clamp	Shipping Clamp - Secures Mass Analyzer Assembly During Shipping or Storing (2 Used)	\$16.40	
05972-60210	Collar	Collar (Knurled Nut) - for Attaching Ion Gauge Tube to Fitting on Front of Mass Analyzer Vacuum Cavity	\$32.90	
05972-67002	Contact	Quadrupole Contact Upgrade Kit - Includes Contacts, Springs, and Instructions	\$286.00	
05971-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts to the End of Radiator (Square Tube) Assembly in the Mass Analyzer	\$980.00	
0100-1637	Fitting	Fitting - for Calibration Valve - Screws into Bottom of Mass Analyzer Vacuum Cavity (Manifold)	\$69.00	
05971-80103	Horn	Replacement Horn Assembly (Canister Shaped Component at End of Radiator Housing - Held in Place with a Spring Clip)	\$875.00	
05971-60160	Magnet	Magnet Assembly - Attaches to Ion Source End of the Radiator Housing (Opposite the Interface Socket)	\$413.00	
05972-20560	Manifold	Mass Analyzer Vacuum Manifold (Casted Metal) - Main Structure of the Vacuum Cavity in the MSD	\$1,030.00	
0100-1597	O-Ring	O-Ring (KF25 Seal, with External Centering Ring) - for Seal Between GC/MSD Interface Bellows and Analyzer Vacuum Cavity	\$43.00	
0905-1070	O-Ring	0.737in O-Ring - Provides Seal Between the Ion Gauge Tube and the Mass Analyzer Vacuum Cavity Fitting	\$3.60	

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0905-1217	O-Ring	0.239in O-Ring - for Seal Between the Calibration Valve Assy and the Fitting on the Bottom of the Vacuum Cavity	\$1.20	
0905-1242	O-Ring	Top Plate O-Ring - for Seal Between the Top Plate of Mass Analyzer and the Vacuum Chamber (Manifold)	\$60.00	
05971-60571	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial	\$61.00	
05971-60120	Plate	Top Plate Assembly (Oval Shaped) - for Top of Mass Analyzer Vacuum Cavity - Includes Connection Feed-Throughs	\$1,010.00	
05971-20120	Radiator	Radiator Housing (Square Metal Tube) - Main Internal Structure of the Mass Analyzer (Quadrupole NOT Included)	\$466.00	
05971-20133	Socket	GC/MSD Interface Socket (Gold Plated) - Round Socket That Screws into Side of the Radiator Tube in the Mass Analyzer (Needed to Transfer Heat from the Interface to the Analyzer)	\$111.00	
0960-0376	Tube	Ionization Gauge Tube (Clear Glass) - Attaches to the Fitting on the Front End of Mass Analyzer Vacuum Cavity	\$152.00	
05972-60101	Valve	Calibration Valve Assy (Solenoid Valve with Vial) - Attaches to Fitting on Bottom of Mass Analyzer Vacuum Cavity	\$233.00	
05980-20010	Vial	PFTBA Vial - Attaches to Bottom of Calibration Valve	\$12.00	

Pumps and Related Parts

05971-20562	Body	Foreline Trap Body - Canister Part of the Foreline Trap (with KF25 Bottom Fitting)	\$42.40	
0100-1395	Clamp	Flange Clamp (Size KF50) - Holds Diffusion Pump to Bottom	\$52.50	



0100-1397	Clamp	of MSD's Mass Analyzer Vacuum Cavity		
		Flange Clamp (Size KF10/16) - Holds Foreline Vacuum Gauge	\$26.00	
0100-1398	Clamp	Tube and Fitting (Hose to Foreline Pump) to Diffusion Pump		
		Winged Flange Clamp (Size KF25) - for Securing the Foreline	\$23.00	
0100-1426	Clamp	Trap to the Foreline Pump		
		Flange Clamp (Size KF40) - for Securing The Top Cap to the	\$35.00	
2110-0002	Fuse	Body of the Forline Trap		
		Fuse - 2A, 250V (for 220V/240V Operation) - For Diffusion	\$ .85	
2110-0055	Fuse	Pump (Fuseholders on Internal Electronics Panel) (2 Used)		
		Fuse - 4A, 250V (for 110V/120V Operation) - For Diffusion	\$1.10	
05972-60545	Gauge Tube	Pump (Fuseholders on Internal Electronics Panel) (2 Used)		
		Forline Gauge Assembly - Includes Forline Gauge Tube and	\$435.00	
05971-60119	Hose	Tee Fitting (to Gauge Tube, Diffusion Pump, and Hose)		
		Foreline Hose (with Internal Coil Spring) - Hose Between	\$74.00	
0100-1183	O-Ring	Diffusion Pump and Foreline Pump		
		O-Ring (KF10 Seal) - for Seal Between Diffusion Pump and	\$17.00	
0100-1425	O-Ring	and Foreline Vacuum Gauge Tube Fitting		
		O-Ring (KF40 Seal) - for Seal Between Cap and Body of	\$30.00	
0100-1551	O-Ring	Foreline Trap		
		O-Ring (KF25 Seal, Internally Vented) - for Seal Between	\$29.70	
0100-1804	O-Ring	the Bottom of the Trap and the Foreline Pump		
		O-Ring (KF50 Seal, with External Centering Ring) - for Seal	\$55.65	
6040-0809	Oil	Between the Diffusion Pump and the MSD Vacuum Cavity		
6040-0834	Oil	Diffusion Pump Fluid (Polvohanyl Ether) - 18.5ml	\$70.00	
9301-1104	Pellets	Vacuum Pump Oil (Polyalphaolefin) - for Forline Pump (1 Qt)	\$36.00	
		Adsorbent Pellets (Molucular Sieve) - for Refilling Foreline	\$43.00	
		Trap (260grams/Can) - NOTE: Dispose of Used Pellets Properly		
* 05971-69149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation	\$1,640.00	\$980.00
05989-80024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation	\$2,010.00	
* 05989-89024	Pump	(Edwards E2M2) Foreline Pump Assembly - for 240V Operation	\$2,010.00	\$1,110.00
3162-0149	Pump	(Edwards E2M2) Foreline Pump Assembly - for 120V Operation	\$1,640.00	
05972-60415	Pump	Diffusion Pump Assembly (for 110V/120V Operation) - Attaches	\$2,280.00	
		to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)		

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05972-60416	Pump	Diffusion Pump Assembly (for 220V/240V Operation) - Attaches	\$2,330.00	
		to Bottom of Mass Analyzer Vacuum Cavity (at Rear of MSD)		
05971-00560	Screen	Lower Screen - for Foreline Trap Body	\$19.10	
05971-00561	Screen	Upper Screen - for Foreline Trap Cap	\$29.70	
05972-60402	Thermoswitch	Thermoswitch Cable Assy - Mounts to Side of Diffusion Pump -	\$145.00	
		Includes 'Too Hot' and 'Too Cold' Thermoswitches and Cables,		
		Plus the Cable to the Diffusion Pump Heater		

System Software

G10398	CD ROM	Pfleger/Maurer/Weber Library of 4370 Drugs, Poisons, and	\$4,285.00	
		Their Metabolism - for HP-UX System ChemStations (Software		
		Requires 4.5MB of Free Disk Space) - on CD ROM		
G1034C	Software	MS ChemStation DOS System Operating Software - Requires 10MB	\$7,350.00	
		of Free Disk Space		
G1038A	Software	MS Pesticide Library - for DOS System Chemstations -	\$805.00	
		Requires 1MB of Free Disk Space		
G1042A	Software	Pfleger/Maurer/Weber Library of 4370 Drugs, Poisons, and	\$2,970.00	
		Their Metabolism - for DOS System ChemStations (Software		
		Requires 4.5MB of Free Disk Space)		

\* = Exchange Part  
 = Call (800) 227-8164 for volume discount



Part Number	Description	Price	Quantity
79835-66511	PC Board	\$720.00	
79835-66523	PC Board	\$148.00	
79835-66512	PC Board	\$201.00	
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79835-66521	PC Board	\$715.00	
* 79835-69521	PC Board	\$715.00	\$455.00
79835-66520	PC Board	\$307.00	
79835-61620	Sensor	\$58.30	
79835-60722	Upgrade Kit	\$901.00	
* 79835-69722	Upgrade Kit	\$901.00	\$636.00

## SDS MCGV System Parts

9301-0656	Bottle	External Solvent Bottle - 1 Liter Capacity	\$35.00	
01018-60025	Filter	Solvent Filter (Round Filter in Bottom of External Solvent Bottle) - Inlet for Filtering Solvent Going to the Multi-Channel Gradient Valve - for External Solvent Bottle ONLY	\$68.00	
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for External Solvent Bottle	\$42.00	
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillaries to External Solvent Bottle	\$70.00	
01090-60006	Head Assembly	Bottle Head Assembly - Includes Solvent Filter, Helium Frit, and all Tubing	\$208.00	
79835-22330	Holder	Connector Holder - for External Solvent Bottle Connectors	\$63.65	
79835-87330	Mixer	Static Mixer Assembly (for Proper Mixing of Solvents) - Attaches Between the High Pressure Damper and the Injector Valve Driver Board (CVD) - Controls the Multi-Channel Gradient Valve (or Old Style Proportioning Valve) - Plugs into Solvent Delivery Motherboard	\$170.00	
79835-66534	PC Board	Multi-Channel Gradient Valve (MCGV) Upgrade Kit - Parts Needed for Replacing the Old Style Proportioning Valve (Serial Number Prefix = 2738G) - MCGV Valve NOT Included	\$382.00	
79835-60721	Upgrade Kit	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$370.00	
79835-67701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00	
* 79835-69701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00	\$660.00

## SDS Solvent Flow Parts

79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$80.00	
79835-60005	Damper	High Pressure Damper Assembly - Reduces Ripple Caused by the High Pressure Pump Output - Connects to Valve Unit Input	\$800.00	
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for Solvent Bottle	\$42.00	
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillaries in Several Locations in the Solvent Flow Path	\$70.00	
79835-60003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	
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* 79835-69003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	\$610.00
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-60002	Metering Device	Metering Device - for Drawing Up a Selected Amount of Sample	\$900.00	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
79846-67101	Seat	Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0678	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow	\$2,390.00	





79846-67902	Valve	Paths of Solvent and Input Sample		
* 79846-69001	Valve	Flush Valve Assembly - for Flushing Out the System	\$452.00	
		Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	Paths of Solvent and Input Sample		
		25ul Waste Sleeve - Attaches to the Plunger End of the 25ul	\$25.00	
79846-24502	Waste Sleeve	Metering Syringe (Drains Off Waste Fluids)		
		250ul Waste Sleeve - Attaches to the Plunger End of the	\$25.00	
79846-27303	Waste Tube	250ul Metering Syringe (Drains Off Waste Fluids)		
		Waste Tube - Attaches to the Waste Sleeve (at the Plunger	\$21.00	
		End of the Metering Syringe)		

## Solvent Compartment Parts

01090-43701	Arm	Bottle Release Arm (Rail) - Causes Bottle Catch to Flip Down	\$29.70	
01090-07703	Base	when Pulled (End Protrudes from Top of Solvent Compartment)		
		Bottle Holder Base (L-Shaped) - Mounting Plate for the	\$63.65	
		Bottle Holding Mechanics		
9301-0656	Bottle	Solvent Bottle - 1 Liter Capacity	\$35.00	
01090-60003	Bottle Holder	Bottle Holder Assembly - Includes Base and all Mechanical	\$239.00	
		Parts (Does NOT Include Helium Venting or Plumbing Parts)		
01090-68706	Cabinet	Solvent Cabinet Assembly - for Holding Solvent Bottles	\$201.00	
01090-87606	Capillary	Connecting Capillary - from Solvent Inlet Filter (in Bottle)	\$35.00	
		to Bottle Connector		
01090-45001	Catch	Bottle Catch (U-Shaped) - Holds Solvent Bottle (by its Neck)	\$11.65	
		- Flips Down when Release Arm is Pulled		
01090-87602	Connector	Bottle Connector/Stopper - with Tube Fittings for the Helium	\$175.00	
		Inlet and Outlet, and the Solvent Filter and Metering Pump		
01090-60008	Filter	Solvent Filter (Round Filter in Bottom of Solvent Bottle) -	\$53.00	
		Inlet for Filtering Solvent Going to the Metering Pump		
01090-82701	Filter	Filter Assembly (for the Solvent Bottle) - Includes Helium	\$117.00	
		Inlet, Solvent Filters, and Tubing		
0905-1259	O-Ring	23.52mm O-Ring - Provides Seal Between the Bottle Connector	\$74.00	
		and the Solvent Bottle		
01090-67602	Outlet	Helium Outlet Assembly (Mounts on Back of Bottle Base Plate)	\$133.00	
		- Has three Flexible Tubing Lines (to the Solvent Bottle		
		Connectors) - for Helium Venting		

\* = Exchange Part

= Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP INTEGRATORS

HP INTEGRATOR

(3396A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	#	LIST PRICE	EXCHANGE PRICE
<b>Basic Chassis Parts</b>					
03396-40050	Bracket	Paper Roll Holder Bracket - Attaches to Rear of Integrator - Supports Paper Roll/Core Rod (2/Pkg)		\$6.00	
03394-40010	Case	Bottom Half of Case - Base Structure		\$62.50	
03394-40020	Case	Top Half of Case - Has Cut Outs for Keyboard and Print Mech		\$34.00	
0403-0282	Foot	Adhesive Bumper Foot - for Bottom of Integrator (4 Used)		\$ .30	
0370-2625	Keycap	Keycap (White) - for Rear Panel Power Switch		\$1.65	
03394-20500	Rod	Paper Core Rod - Inserts in Center of Paper Roll		\$11.00	
03394-00020	Separator	Paper Separator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)		\$19.00	
03394-40100	Window	Lift-Up Viewing Window - on Top Cover (Behind Keyboard)		\$12.70	
<b>Integrator Electronics</b>					
35900-60520	Fan	Fan Assembly - Mounts in Front Left Corner of the Base Assy		\$39.20	
2110-0003	Fuse	Fuse - 3A, 250V - for 110V/120V or 220V/240V Operation		\$ .30	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation		\$ .95	
03394-80031	IC	Printer CPU IC - Goes in Socket (About in Center) on Main Bd		\$154.00	
1820-6292	IC	Data Communications CPU IC - Goes in Socket on Main Board		\$17.50	
1818-4100	IC RAM	32k RAM IC - Goes in Socket on Main Board (2 Used)		\$28.00	
03396-60635	Keyboard	Keyboard Assembly - Does NOT Include Ribbon Cable		\$159.00	
x 03396-69010	PC Board	Main Board - Large Board in Bottom of Integrator (Includes Interface/Control Connectors and Keyboard Cable)			
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m		\$12.00	
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight		\$26.00	
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m		\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight		\$18.00	
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight		\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight		\$13.50	
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight		\$16.50	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight		\$19.50	
03394-60030	Power Module	Power Module Assembly - Includes Power Switch, Line Select Switch, Fuse Holder, and Power Receptacle		\$69.00	
0950-1884	Power Supply	Power Supply Assembly - Mounts in Front of Power Module (on Left Side of Integrator)		\$90.00	
3101-2511	Switch	Power Switch - Pushbutton Switch (in Power Module Assembly)		\$21.50	
3101-2640	Switch	Datacomm Switches - All 10 Switches in a DIP Package		\$12.50	
<b>Interconnecting Cables</b>					
92224M	Adapter	RS-232C Gender Converter - 25 Pin (M) to 25 Pin (M) (P/O Option 304)			
03394-60510	Cable	Remote Control Cable - from Integrator to 57XX GC's and 1081B UV Detector - 2.1m		\$101.00	
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03394-60540	Cable	Remote Control Cable (General Purpose) - from Integrator to Spade Lug Connectors - 2.1m		\$69.40	
03394-60550	Cable	Remote Control Cable - from Integrator to 1090L/M LC and 1040A Diode Array Detector - 2.1m		\$106.00	
03394-60560	Cable	Remote Control Cable - from Integrator to 5890A and 5890 Series II (Analog Output) - 2m		\$82.20	
03394-60600	Cable	Remote Control Cable - from Integrator to 1046A Fluorescence Detector		\$87.50	
03396-60500	Cable	BCD Sample Number Cable - from Integrator to Spade Lug Connectors - 2.1m		\$66.30	
35900-60570	Cable	Analog Signal Cable - from Integrator to 5890A GC - 1.0m		\$63.60	
35900-60590	Cable	Analog Signal Cable - from Integrator to 5790A GC - 1.0m		\$66.30	
35900-60600	Cable	Analog Signal Cable - from Integrator to 1040A Diode Array Detector and 1090A/L LC's - 1.0m		\$63.60	
35900-60610	Cable	Analog Signal Cable - from Integrator to 5890A and 5890 Series II GC's - 1.0m		\$53.00	
35900-60620	Cable	Analog Signal Cable - from Integrator to 5710/30 GC's and 1081B UV Detector - 1.0m		\$58.30	
35900-60630	Cable	Analog Signal Cable (General Purpose) - from Integrator to Spade Lug Connectors - 1.0m		\$49.80	
35900-60640	Cable	Analog Signal Cable (Special Purpose) - from Integrator to Square Pin Connectors - 1.0m		\$47.70	
35900-60750	Cable	Analog Signal Cable - from Integrator to 1046A Fluorescence Detector - 2m		\$61.00	
03396-60510	Cable (Interface)	RS-232C DTE Interface Cable - 15 Pin (M) to 25 Pin (M) - 25ft (Option 302)		\$106.00	
03396-60520	Cable (Interface)	RS-232C DCE Interface Cable - 15 Pin (M) to 25 Pin (F) - 1.0m (Option 301 and P/O 304)		\$133.00	



03396-60530	Cable (Interface)	RS-232C DCE Interface Cable - 15 Pin (M) to 9 Pin (F) - 1.8m (Option 303)	\$122.00
02167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
02167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
02167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

Manuals, Tools & Supplies

516050	Cartridge	Blue Print Cartridge - for Use with InkJet Paper	\$15.95
51605R	Cartridge	Red Print Cartridge - for Use with InkJet Paper	\$15.95
5101-1220	Cartridge	Black Print Cartridge - for Use with InkJet Paper	\$16.00
03396-60920	Manual	3396A Integrator Manual Kit - Includes Operating and Reference Manuals (Which Also Has Service Information)	\$74.00
G1213-60500	Manual	3396A/B BASIC Language Programming Manual	\$140.00
5062-3561	Paper	Z-Fold InkJet Paper (with Sequentially Numbered Pages) - 8.5in x 11in (500 Sheets Per Pack, 5 Packs/Box)	\$94.00
5181-1219	Paper	Perforated ThinkJet Paper - 8.5in X 11in Pages - 340 Pages Per Roll (4 Rolls/Box)	\$74.00
5181-1255	Paper	Perforated ThinkJet Paper - 210mm X 297mm Pages (4 Rolls/Box) - for European Use Only	\$76.00
5062-3560	Stand	Z-Fold Acrylic Paper Stand (U Shaped) - Holds Z-Fold Paper Supply Under Integrator	\$90.00
8710-1347	Tool	Pry Tool - for Opening the Integrator Case	\$17.00

Print Mechanism Parts

02225-00027	Cable	Flex Cable - from Main Board to Carriage Assembly	\$11.00
02225-60914	Carriage	Carriage Assembly - Includes Flex Cable	\$8.25
02225-00017	Hardware	Cup Washer - Used in Mounting the Print Mechanism to the	\$ .75

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03394-40080	Latch	Base Assembly (2 Used)	
3140-0785	Motor	Carriage Latch - Retains Print Cartridge in Carriage	\$4.90
3140-0787	Motor	Carriage Drive Motor - Mounts on Rear Left of Mechanism	\$38.00
03394-60625	Print Mechanism	Paper Drive Motor - Mounts on Right Side of Print Mechanism	\$23.50
03394-00020	Separator	Print Mechanism Assembly - Complete	\$276.00
		Paper Saperator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	\$19.00

\* = Exchange Part  
 # = Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP LIQUID CHROMATOGRAPH

(1090L/M SERIES II)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Autoinjector Parts</b>				
0101-0558	Actuator	Air Actuator Bridge Assembly - Solenoid Controlled Air for Movement of the Needle Arm (Up And Down) and Rotating the Rheodyne Valve (and if Equipped, the Column Switching Valve)	\$860.00	
79846-45001	Arm	Vial Holder/Swivel Arm - Positions Sample Vial Under Needle	\$20.60	
79846-67103	Base	Needle Arm Drive Unit Base Assembly - Pneumatically Moves Needle Arm Up and Down (Assembly Includes Air Cylinder)	\$212.00	
79846-68101	Base	Metering Base Assembly - Base Structure for the Syringe Metering Assembly	\$382.00	
79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$88.00	
0100-0900	Fitting	Zero Dead Volume (ZDF) Fitting - Couples Capillary to Needle Arm Assembly	\$70.00	
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
3140-0675	Motor	Stepper Motor - Drives the Vial Holder/Swivel Arm	\$100.00	
79846-60005	Motor	Motor Assembly (Drives the Vial Holder/Swivel Arm) - Includes Motor, Bracket, Interrupter, and Sensor Board	\$223.00	
79846-67901	Motor	Drive Motor - Moves the Plunger in the Metering Syringe	\$111.00	
0100-1176	Muffler	Pneumatic Muffler - Screws on to the Air Damper Adapter	\$21.20	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
0905-0970	O-Ring	4.48mm O-Ring - Between Syringe Plunger and Waste Sleeve	\$37.00	
79846-66501	PC Board	Injector Controller Board (IC0) - Mounts to Right Side of Autoinjector Assembly	\$307.00	
79846-66502	PC Board	Syringe Position Sensor Board - Mount to Bottom of the Syringe Metering Assembly	\$66.25	
79846-66503	PC Board	Light Sensor Board - Used as the 'Vial Holder/Swivel Arm' Position Sensor and the 'Needle Arm' Position Sensor(2 Used)	\$53.00	
79846-66504	PC Board	Valve Sensor Board - Mounts to 6 Port Rheodyne Valve and Actuator Assembly	\$63.60	
79846-66505	PC Board	'Vial in Position' Sensor Board - Mounts to Needle Arm Assy	\$50.30	
9301-0675	Plunger	Replacement Plunger - for the 25ul Syringe	\$35.00	
9301-0677	Plunger	Replacement Plunger - for the 250ul Syringe	\$30.00	
79846-23702	Rod	Vial Holder/Swivel Arm Drive Rod - Attaches to Drive Motor	\$24.90	
1535-4040	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the 6 Port Rheodyne Valve and Actuator Assembly	\$60.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for the 6 Port Rheodyne Valve and Actuator Assembly	\$99.00	
79846-27101	Seal	Syringe Seal - Provides Seal Between 25ul Metering Syringe Tip and the Attached Capillary	\$12.00	
79846-27103	Seal	Syringe Seal - Provides Seal Between 250ul Metering Syringe Tip and the Attached Capillary	\$14.00	
Page: 1				
79846-67101	Seat	Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
0101-0559	Solenoid	Solenoid Valve - Controls Air Flow Out of the Air Actuator Bridge Assembly (4 Used)	\$275.00	
3107-0018	Switch	Low Pressure Sensor Switch (with 1/4 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Older Units)	\$27.50	
3107-0019	Switch	Low Pressure Sensor Switch (with 1/8 inch Thread) - Screws into the Air Actuator Bridge Assembly (for Newer Units)	\$42.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0678	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-44701	Tray	Syringe Holder Tray - Has Two V-Shaped Support Blocks (for Cradling the Metering Syringe)	\$42.40	
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	
79846-67902	Valve	Flush Valve Assembly - for Flushing Out the System	\$452.00	
* 79846-69001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	25ul Waste Sleeve - Attaches to the Plunger End of the 25ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-24502	Waste Sleeve	250ul Waste Sleeve - Attaches to the Plunger End of the 250ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-27303	Waste Tube	Waste Tube - Attaches to the Waste Sleeve (at the Plunger End of the Metering Syringe)	\$21.00	

Autosampler Parts





79847-45001	Arm	Magazine Position Slide Arm (Belt Driven) - Slides on the Two Guide Rods in the Drive Unit Assembly	\$15.90
1500-0635	Belt	Gear Belt - Drives Magazine Position Slide Arm	\$15.00
3160-0861	Fan	Fan Assembly - for Cooling the Temperature Controlled Autosampler Chamber (NOT Used on Standard Autosampler)	\$72.50
79847-42001	Heat Exchanger	Heat Exchanger Unit - Used in Cooling the Temperature Controlled Autosampler (NOT Used on Standard Autosampler)	\$424.00
79847-43710	Holder	Magazine Holder (Position 0) - Holds Magazine on Carriage	\$16.95
79847-43701	Holder	Magazine Holder (Position 1) - Holds Magazine on Carriage	\$16.95
79847-43702	Holder	Magazine Holder (Position 2) - Holds Magazine on Carriage	\$16.95
79847-43703	Holder	Magazine Holder (Position 3) - Holds Magazine on Carriage	\$16.95
79847-43704	Holder	Magazine Holder (Position 4) - Holds Magazine on Carriage	\$16.95
79847-43705	Holder	Magazine Holder (Position 5) - Holds Magazine on Carriage	\$16.95
79847-43706	Holder	Magazine Holder (Position 6) - Holds Magazine on Carriage	\$16.95
79847-43707	Holder	Magazine Holder (Position 7) - Holds Magazine on Carriage	\$16.95
79847-43708	Holder	Magazine Holder (Position 8) - Holds Magazine on Carriage	\$16.95
79847-43709	Holder	Magazine Holder (Position 9) - Holds Magazine on Carriage (NOT Used on Temperature Controlled Autosamplers)	\$32.00
79847-60005	Magazine	Vial Magazine Assembly - Holds Ten Sample Vials (Standard Uses 10, Temperature Controlled Autosampler Uses 9)	\$14.00
79847-67901	Motor	Carriage Drive Motor Assembly (Made by Berger-Lahr) - Mounts on End of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Drive Board - Part Number 01090-66531)	\$122.00
79847-67902	Motor	Magazine Drive Motor Assembly (Made by Berger-Lahr) - Mounts on Bottom of Drive Assembly (NOTE: DO NOT Use with Older Injector-Sampler Drive Board - Part Number 01090-66531)	\$122.00
01090-66554	PC Board	Injector-Sampler Drive Board (ISO) (New Style Board - with +/- 12V Motor Supplies) - Works with Old AND New Type Motors	\$195.00
79847-66501	PC Board	Sampler Controller Bd (SCO) - Mounts to Bottom of Drive Assy	\$212.00

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79847-66502	PC Board	'Carriage Home Position' Sensor Board (Standard) - Mounts Next to Carriage Drive Motor	\$74.25
79847-66510	PC Board	'Carriage Home Position' Sensor Board (Plastic Coated) - for Use in Temperature Controlled Autosamplers - Mounts Next to Carriage Drive Motor	\$127.00
79847-66503	PC Board	'Magazine in Position' Sensor Board (Standard) - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$63.60
79847-66511	PC Board	'Magazine in Position' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on Bottom of Drive Assembly (Near Magazine Drive Motor)	\$93.00
79847-66504	PC Board	'Vial Count (Position)' Sensor Board (Standard) - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$71.50
79847-66512	PC Board	'Vial Count (Position)' Sensor Board (Plastic Coated) - for Use with Temperature Controlled Autosamplers - Mounts on End of Drive Assembly (Opposite Carriage Drive Motor)	\$106.00

## Column Compartment Parts

01090-87304	Adapter	0.17mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$74.00
01090-87305	Adapter	0.17mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$79.00
01090-87610	Adapter	0.12mm ID Column Adapter (280mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-87611	Adapter	0.12mm ID Column Adapter (75mm Long) - Used to Adapt the Selected Column to the Column Compartment Fittings	\$73.00
01090-21202	Clamp	Clamp - Holds Zero Dead Volume Fitting on Rear Screen Wall of Column Compartment	\$20.00
01090-60304	Door	Oven Door Assembly - Pull Down Door on Front of Column Compartment - Does NOT Include Hinges	\$196.00
3160-0402	Fan	120V/240V AC Fan Assembly (Squirrel Cage Style) - Mounts to Rear Wall of Column Compartment	\$116.00
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillary from the Heater Assembly to the Column Adapter	\$70.00
01090-61105	Heater	Heater Assembly (with Connecting Capillaries) - Heats Incoming Sample/Solvent Mixture Going to the Column	\$795.00
3110-0162	Hinge	Hinge Assembly - for Column Compartment Front Door (2 Used)	\$24.00
01090-42302	Holder	Column Holder Rack (5 Position) - Mounts to Internal Screen Wall (3 Used)	\$23.85
01090-66508	PC Board	Oven Interface Board (OVI) - Interfaces Oven Electronics to Controller Mother Bd - Mounts to Side of Column Compartment	\$190.00
01090-61604	Sensor	Temperature Sensor - for Sensing Oven Temperature	\$240.00

## FPD Detector Assembly

79881-60006	Diode	Sample Diode Assy - Mounts to End of Optical Unit Housing - Receives Light from Beam Splitter (Provides Signal from Light Source after Passing Through the Flow Cell)	\$558.00
79881-60007	Diode	Reference Diode Assembly - Mounts to Side of Optical Unit Housing - Receives Light from Beam Splitter (Provides Reference Signal from Light Source Directly)	\$610.00
01090-07101	Filter	Air Filter - Behind Board Slots on the Filter Photometric Detector Card Cage	\$12.00
79881-62761	Filter	210nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62762	Filter	230nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00
79881-62763	Filter	254nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00



79881-62769	Filter	269nm Light Filter - Mounts in the Filter Wheel Assembly	\$360.00	
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79881-62764	Filter	280nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62765	Filter	340nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62766	Filter	430nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62767	Filter	540nm Light Filter - Mounts in the Filter Wheel Assembly	\$359.00	
79881-62760	Filter Kit	Light Filter Kit - Includes 210nm, 230nm, 280nm, 340nm, 430nm, and 540nm Light Filters	\$2,127.00	
79881-60002	Flow Cell	Flow Cell Assembly - Mounts in Cavity of Optical Unit Housing (Next to Sample and Reference Diodes)	\$1,640.00	
2110-0001	Fuse	Fuse - 1A, 250V - F33 on Deterium Lamp Power Supply Board - Fuses the High Voltage Source to the Deterium Lamp Assembly	\$1.30	
2110-0342	Fuse	Fuse - 8A, 250V - F31 on Deterium Lamp Power Supply Board - Fuses 4V AC Filament Supply to the Deterium Lamp Assembly	\$3.00	
79881-27101	Gasket	0.6mm ID Cell Gasket - Between Rear Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-27102	Gasket	1.2mm ID Cell Gasket - Between Front Window and Flow Cell Housing (5/Pkg)	\$11.00	
79881-22403	Hardware	Flow Cell Screw - Retains the Flow Cell Windows in the Flow Cell Housing (2 Used)	\$24.00	
79881-25204	Housing	Flow Cell Housing - Round Base Structure of the Flow Cell Assembly (NO Other Hardware Included)	\$740.00	
79880-60002	Lamp	Deuterium Lamp Assembly - Mounts in Cavity at End of Optical Unit Housing	\$463.00	
79881-02401	Motor	Drive Motor - for Filter Wheel Assembly	\$106.00	
79881-60004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,828.00	
* 79881-69004	Optical Unit	Optical Unit Housing Assembly - Does NOT Include Deterium Lamp or Filter(s)	\$3,820.00	\$1,800.00
79881-66501	PC Board	Filter Detector Motherboard (FMB)	\$276.00	
79881-66502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	
79881-66503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	
* 79881-69502	PC Board	Analog Digital Analog Interface Board (ADA)	\$928.00	\$660.00
* 79881-69503	PC Board	Filter Detector Processor Board (FDP)	\$636.00	\$390.00
79883-66501	PC Board	Deterium Lamp Power Supply Board (DPS)	\$370.00	
79881-09103	Spring	Window Spring - Between the Screw and Window on the Flow Cell Housing (2 Used)	\$8.00	
79881-62501	Wheel	Filter Wheel Assembly - Holds Up to 7 Filters (NOT Included)	\$111.00	
79881-28101	Window	Flow Cell Window - Goes in Each Side of the Flow Cell Housing (2 Used) (3/Pkg)	\$30.00	

High Pressure Pump Parts

79835-67101	Ball Valve	Ball Valve Cartridge (for pH 2.3 to 9.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$129.00	
79835-67102	Ball Valve	Ball Valve Cartridge pH (for pH 2.3 to 12.5) - Goes in the Inlet or Outlet Valves on the High Pressure Pump (2 Used)	\$180.00	
1500-0660	Belt	Drive Belt (0.5in Wide) - from Motor to High Pressure Pump Plunger Drive Shaft	\$15.20	
79835-04123	Diaphragm	Diaphragm - in High Pressure Pump Head (Above Ball Valves)	\$40.00	
79835-43613	Gear	Small Belt Gear (50Hz or 60Hz Operation) - Mounts to Motor Shaft on the High Pressure Pump Assembly	\$7.15	
79835-43615	Gear	Large Belt Gear (50Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$30.75	
79835-43616	Gear	Large Belt Gear (60Hz Operation) - Mounts to Plunger Drive Shaft on the High Pressure Pump Body	\$31.80	
3140-0682	Motor	High Pressure Pump Motor - for 240V, 50Hz Operation	\$154.00	
3140-0683	Motor	High Pressure Pump Motor - for 120V, 60Hz Operation	\$185.50	
0905-0998	O-Ring	27.3mm O-Ring - for the Oil Reservoir Top Cover	\$2.10	

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79835-60011	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	
79835-60012	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	
* 79835-69004	Pump	High Pressure Pump Assembly - for 240V, 50Hz Operation	\$3,390.00	\$980.00
* 79835-69009	Pump	High Pressure Pump Assembly - for 120V, 60Hz Operation	\$3,710.00	\$980.00
79835-65213	Sieve	Sieve Assembly (for pH 2.3 to 9.5) - Goes in the Inlet Valve on the High Pressure Pump	\$23.00	
79835-65216	Sieve	Sieve Assembly pH (for pH 2.3 to 12.5) - Goes in the Inlet Valve on the High Pressure Pump	\$29.00	
79835-61111	Valve	Override Valve (440 bar) - Attaches to the Right Side of of the Pump Head on the High Pressure Pump (Standard)	\$196.00	
79835-61112	Valve	Override Valve (350 bar) - Attaches to the Right Side of of the Pump Head on the High Pressure Pump (Causes Reduced Pumping Pressure But Results in Longer Diaphragm Life)	\$233.00	

Interconnecting Cables

01040-60201	Cable	Remote Cable - General Purpose (Spade Lugs) - 2m	\$154.00	
01040-60202	Cable	Remote Cable - from 1090 LC to Distribution Module - 2m	\$175.00	
01040-60203	Cable	Remote Start Cable - from 1090 LC to 3390A Integrator - 2m	\$159.00	
01040-60204	Cable	Remote Start Cable - from 1090 LC to 18562A/D Converter - 2m	\$228.00	
01040-60205	Cable	Remote Start Cable - from 1090 LC to 3388A Integrator - 2m	\$154.00	
01046-60201	Cable	General Purpose Remote Control Cable (Spade Lugs) - Connects to the 1090 LC (Via the Remote Control Interface Board)	\$127.00	
01046-60202	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote	\$143.00	



01046-60203	Cable	Control Interface Board) to a 1040A Diode Array Detector, Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 3390A Integrator	\$185.50
01046-60206	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 3392A/93A Integrator	\$190.00
01046-60210	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 3394A Integrator	\$240.00
01090-60206	Cable	Remote Start/Stop Cable - 1090 LC to 3392/3A Integrator - 2m	\$143.00
01090-60310	Cable	BCD Cable - from 1090 LC to 3392A/93A Integrator - 2m	\$207.00
01090-60312	Cable	General Purpose BCD Cable - from 1090 LC to Spade Lugs - 2m	\$164.00
03394-60550	Cable	Remote Cable - from 1090 LC to 3394A/96A Integrator	\$106.00
03396-60580	Cable	BCD Cable - from 1090 LC to 3396A Integrator	\$148.00
35900-60710	Cable	Remote Cable - from 1090 LC to 35900C ChemStation Interface	\$87.50
5061-3378	Cable	Remote Control Cable - Connects the 1090 LC (Via the Remote Control Interface Board) to a 1046A Fluorescence Detector or a 35900A Dual Channel Interface	\$50.00
01046-60202	Cable (Interface)	Another 1090 LC, or a Signal Distribution Module	\$143.00
10033A	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 1.0m	\$90.00
100330	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 2.0m	\$100.00
10033C	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 4.0m	\$110.00
100330	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 0.5m	\$90.00
02167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
02167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
02167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

LC Mainframe Case Parts

01090-68716	Cabinet	Solvent Cabinet Assembly - for Holding Solvent Bottles	\$170.00
1390-0421	Catch	Magnetic Catch - for Keyboard Door Panel (Mounts on Side of Solvent Cabinet)	\$17.50
01090-47701	Cover	Upper Left Side Cover (w/ Frame) - on ALS Side of Main Cover	\$133.00
01090-47702	Cover	Upper Right Side Cover(w/ Frame) - on OAD Side of Main Cover	\$133.00
01090-47703	Cover	Lower Left Side Cover (with Frame) - on Solvent Compartment	\$122.00

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01090-47704	Cover	Side of Instrument Lower Right Side Cover (with Frame) - on Keyboard/ Electronics Side of Instrument	\$122.00
01090-64111	Cover	Lift-Up Cover - for the Diode Array Detector (OAD) Assembly	\$276.00
01090-64112	Cover	Lift-Up Cover (with Viewing Window) - for the Automatic Liquid Sampler (ALS)	\$392.00
01090-64113	Cover	Main Cover Assembly - Includes Top Cover, Upper Side Covers, and Both (ALS and OAD) Lift-Up Covers	\$1,330.00
01090-40303	Door	Keyboard Door Panel - Used on LC's That Have a System Keyboard (No Display)	\$106.00
01090-40304	Door	Keyboard Door Panel - Used on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$122.00
01090-60011	Door	Keyboard Door Panel Assy - Includes Door Panel, Attaching Hardware and a Local User Interface Keyboard (Has a 32 Character Display)	\$2,170.00
01090-02701	Filter	Air Filter - on Back of Keyboard Door Panel - on LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$8.75
3150-0462	Filter	Foam Air Filter (590mm x 85mm) - Air Inlet Filter (on Bottom of Mainframe)	\$15.00
3150-0463	Filter	Foam Air Filter - Two (Side by Side) on Back of Main Cover and Two on Back of the Keyboard Door Panel (on LC's That Have a System Keyboard (No Display) ONLY) (4 Used)	\$15.00
0380-0644	Hardware	Hex Standoff - for the HP-IB Connector (2 Used)	\$4.30
01090-04102	Label	Label ('Hewlett Packard' Logo) - on Left Side of Main Cover	\$18.00
01090-04143	Nameplate	Nameplate - '1090 Liquid Chromatograph' - on Right Side of Main Cover	\$28.60
01090-66579	PC Board	Piggy-Back HP-IB Interface Board (LIB) - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$275.00
01090-04142	Trim	Trim Strip - on Top of Lower Left Side Cover	\$63.60
01090-04144	Trim	Trim Strip - on Top of Lower Right Side Cover	\$46.65
01090-04133	Window	Viewing Window - Mounts in Cover Assembly for the Automatic Liquid Sampler (ALS)	\$26.00

LC Mainframe Electronics

1420-0361	Battery	3.87V Lithium Battery - for RAM Back-Up on Display Keyboard Driver Board	\$55.00
01090-60520	Fan	24V DC Fan Assembly (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of >= 3044A	\$228.00
3160-0421	Fan	120V AC Tubeaxial Fan (Mounts to Rear Panel) - for Instruments with Serial Number Prefix of < 3044A	\$75.00
01090-66552	Keyboard	System Keyboard Assembly (SYK) (NO Display) - Mounts to Keyboard Door Panel - Used on LC's That Have an HP-IB Interface Board (IBU) and Requires an External Controller	\$318.00
01090-66553	Keyboard	Local User Interface Keyboard Assembly (DDK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00
* 01090-69553	Keyboard	Local User Interface Keyboard Assembly (DDK) (Includes a 32 Character Display) - Mounts to Keyboard Door Panel - Used on LC's That Do NOT Require an External Controller	\$690.00

\$530.00



9135-0030	Line Filter	220V Line Filter/Power Receptacle Assembly - on Rear Panel	\$30.00	
9135-0202	Line Filter	120V Line Filter/Power Receptacle Assembly - on Rear Panel	\$32.00	
01090-66507	PC Board	Display Keyboard Interface Board (DKI) (Has 8 Status LED's - on Keyboard Door Panel) Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$330.00	
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01090-66509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00	
01090-66510	PC Board	Piggy-Back HP-IL Inet Interface Board - Attaches to Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$466.00	
01090-66511	PC Board	HP-IL Connector Board (CIL) (for LC's that Have an HP-IL Interface) - Mounts to Rear Panel	\$154.00	
01090-66526	PC Board	External Contacts Interface Board - Mounts to Rear Panel	\$190.00	
01090-66535	PC Board	HP-IB Interface Board (IBU) - Used in Versions of LC's That Require an External Controller (Has a System Keyboard Rather than a Local User Interface Keyboard)	\$307.00	
01090-66530	PC Board	Remote Control Interface Board (RCI)	\$275.00	
01090-66557	PC Board	Control Mother Board (CTM) - Interconnects Mainframe Controller to Other Boards	\$212.00	
01090-66575	PC Board	Piggy-Back Memory Board (MEM) - Attaches to the Display and Keyboard Driver Board - Used in LC's That Have a Local User Interface Keyboard (Has a 32 Character Display)	\$127.00	
* 01090-69509	PC Board	Display and Keyboard Controller Board (DKC) (w/o Piggy-Back Board) - Used in Versions of LC's that Have a Local User Interface Keyboard (Has a 32 Character Display)	\$580.00	\$360.00
5061-3352	PC Board	HP-IB Connector Board (Includes Cable) - Mounts to Rear Panel - Works with Either Type of HP-IB Interface Board	\$43.45	
01090-66542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00	
* 01090-69542	PC Board	Mainframe Controller Bd (MCO) - Does NOT Include Memory Bd	\$715.00	\$477.00
01090-68708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00	
* 01090-69708	PC Board	Mainframe Controller Board (WITH Attached Memory Board) Assy	\$850.00	\$600.00
01090-66573	PC Board	Memory Board - Mounts to Mainframe Controller Board	\$127.00	

Manual Injector Parts

1535-4854	Fitting	Needle Port Fitting (Teflon) - Provides Seal Around Needle in the Loop Filler Port (Rheodyne Model 7012)	\$50.00	
1535-4860	Loop	5uL Sample Loop - for the Model 7125 Rheodyne Valve	\$73.00	
0101-0376	Loop	10uL Sample Loop - for the Model 7125 Rheodyne Valve	\$50.00	
0101-0377	Loop	20uL Sample Loop - for the Model 7125 Rheodyne Valve	\$45.00	
0101-0378	Loop	50uL Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00	
0101-0379	Loop	100uL Sample Loop - for the Model 7125 Rheodyne Valve	\$48.00	
1535-4862	Loop	Micro Volume Loop Disk (Includes 0.5uL, 1.0uL, and 5uL Sample Loops) - for the Model 7143 Rheodyne Valve		
9301-0676	Needle	Blunt Tip Needle - for Use with the 250uL Syringe and the Model 7125 Rheodyne Valve	\$15.00	
9301-0679	Needle	Blunt Tip Needle - for Use with the 25uL Syringe and the Model 7143 Rheodyne Valve	\$17.00	
0100-1214	Port	Loop Filler Port (Rheodyne Model 7012) - Used to Manually Inject a Sample Directly with a Conventional Syringe	\$126.00	
1535-4048	Seal	Rotor Seal (Vespel: for pH 2.3 to 9.5) - for the Model 7125 Rheodyne Valve	\$60.00	
1535-4900	Seal	Rotor Seal pH (Tefzel: for pH 2.3 to 12.5) - for Model 7125 Rheodyne Valve	\$99.00	
1535-4861	Seal	Rotor Seal - for the Model 7143 Rheodyne Valve	\$95.00	
1535-4856	Seal	Isolation Seal - for the Model 7143 Rheodyne Valve	\$58.30	
9301-0633	Syringe	25uL Hamilton Syringe - for Drawing Up to a 25uL Sample Size - for Use with the Model 7143 Rheodyne Valve	\$63.00	
9301-0678	Syringe	250uL Hamilton Syringe - for Drawing Up to a 250uL Sample Size - for Use with the Model 7125 Rheodyne Valve	\$63.00	
0101-0607	Valve	6 Port Rheodyne Valve Assembly (Model 7125) - for Manual	\$655.00	

Injection

Manuals, Tools & Supplies

01090-67610	Cable	Extender Cable - for Working on the Autosampler Outside of the 1090 Mainframe	\$66.00	
5180-0842	Cap	Crimp Cap - for the 300uL Microvial (500/Pkg)	\$135.00	
79841-65501	Lubricant	Lubricant - for High Pressure Pump Belt	\$22.00	
01090-90024	Manual	1090L and II/L Liquid Chromatograph Operator's Manual	\$58.00	
01090-90100	Manual	1090 Series L, M, II/L, and II/M Liquid Chromatograph Service Handbook	\$115.00	
01090-90211	Manual	1090L, M, II/L, and II/M Liquid Chromatograph Getting Ready Guide	\$15.00	
79994-90025	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Standard Software)	\$18.00	
79994-90026	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Std Software)	\$18.00	
79994-90027	Manual	1040M/1090M DAD/LC 'Fact File' Handbook (Standard Software)	\$45.00	
79994-90028	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Standard Software)	\$15.00	
79994-90029	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Std Software)	\$24.00	





79994-90031	Manual	1040M/1090M DAD/LC 'Running an Analysis' Handbook (Foreground/Background Software)	\$18.00
79994-90032	Manual	1040M/1090M DAD/LC 'Auto Analysis' Handbook (Foreground/Background Software)	\$13.00
79994-90033	Manual	1040M/1090M DAD/LC 'Fact File' Handbook (Foreground/Background Software)	\$45.00
79994-90034	Manual	1040M/1090M DAD/LC 'Customizing with Macros' Handbook (Foreground/Background Software)	\$13.00
79994-90035	Manual	1040M/1090M DAD/LC 'The Commands' Handbook (Foreground/Background Software)	\$24.00
01010-00002	Oil	Hydraulic Fluid - for the High Pressure Pump (100mL)	\$18.00
01090-66540	PC Board	Extender Board - for Power Supply Control Board (PCS) and Power Supply Board (PWS) - for Access to Test Points	\$196.00
6010-1146	Paint	Dove Gray Enclosure Paint (6.5oz Aerosol Can) - Touch-Up for Newer Instruments (Series II)	\$23.00
6010-1148	Paint	Parchment White Case Paint (6.5oz Aerosol Can) - Touch-Up for Newer Instruments (Series II)	\$17.50
5180-0843	Sleeve	Adapter Sleeve - for Adapting 300ul Microvials to Fit in the Autosampler Magazine	\$14.00
8710-1158	Tool	Torque Wrench (3.5 to 17 Newton-Meter) - for Installing the Pump Head on the High Pressure Pump	\$378.00
8710-1643	Tool	Crimping Tool - for 8mm Crimp Tops (on 300ul Microvials)	\$204.00
5061-3349	Tray	Microvial Accessory Tray - Holds 50 300ul Vials	\$40.00
5021-7127	Tubing	0.25in Actuator Air Tubing (Polyethylene) - Sold by the Foot	\$3.00
5180-0841	Vial	300ul Microvial (Requires Sleeves to Fit in the Autosampler Magazine) (500/Pkg)	\$130.00
5181-3400	Vial	2ul Crimp Top Vial (Clear) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$111.00
5181-8001	Vial	2ul Crimp Top Vial (Amber) - Includes Red/Orange Crimp Tops (500/Pkg - Comes in Blue Plastic Case)	\$136.00
5182-0538	Vial	2mL Crimp Top Vial (Clear) - Will NOT Accept Insert(100/Pkg)=	\$16.00
5182-0539	Vial	2mL Crimp Top Vial (Amber) - Will NOT Accept Insert(100/Pkg)=	\$18.00
H2604-90006	Video Tape	1090 Series Liquid Chromatograph Troubleshooting and Maintenance Video - NTSC Format (VHS)	\$195.00

Metering Pump Parts

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79835-44103	Cover	Protective Cover (Clear Plastic) - Covers Lower Part of Metering Pump and Valves	\$14.80
79835-43101	Guide	Piston Guide - for the Sapphire Plungers in the Metering Pump (on Bottom of each Solvent Chamber) (2 Used/Pump)	\$25.45
3980-0672	Plunger	Sapphire Plunger (or Piston) - in Solvent Chambers of the Metering Pump (2 Used/Pump)	\$91.00
79835-60020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00
* 79835-69020	Pump	Metering Pump Assembly - Does NOT Include Rotary Valve	\$3,180.00
5062-2494	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Standard Solvents (4/Pkg)	\$115.00
0905-1194	Seal	Piston Seal - for the Sapphire Plungers in the Metering Pump - for Use with Buffered Solvents	\$63.00
1460-1998	Spring	Compression Spring - Around Plungers (Pistons) on the Metering Pump (Below the Solvent Chambers)(2 Used/Pump)	\$4.00
79835-60021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00
* 79835-69021	Valve	Rotary Valve Assembly - Mounts on Top of Metering Pump Assy	\$1,590.00

Power Supplies and Parts

2110-0030	Fuse	Fuse - 5A, 250V - for +36V Supply on the Power Supply Control Board	\$2.00
2110-0303	Fuse	Fuse - 2A, 250V - for -24V Supply on the Power Supply Board, and +17V and -17V Supplies on the Power Supply Control Board	\$1.05
2110-0342	Fuse	Fuse - 8A, 250V - for +24V Supply on the Power Supply Board	\$3.00
2110-0055	Fuse	Line Fuse - 4A, 250V - for 220V Operation	\$1.10
2110-0342	Fuse	Line Fuse - 8A, 250V - for 120V Operation	\$3.00
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$ .95
2110-0566	Fuseholder	Fuseholder Body - Cap NOT Included	\$2.40
01090-66522	PC Board	Power Supply Board	\$530.00
01090-66523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00
01090-66524	PC Board	Power Supply Mother Board - Interconnects the Power Supply Boards to the Power Supply Control Board	\$330.00
01090-66525	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 120V AC Main Fan ONLY (Serial Number Prefix < 3044A)	\$275.00
01090-66555	PC Board	Primary Board (PRI) - Includes Voltage Selection Switches - This Version Board for LC's with a 24V DC Main Fan ONLY (Serial Number Prefix >= 3044A)	\$111.00
* 01090-69522	PC Board	Power Supply Board	\$530.00
* 01090-69523	PC Board	Power Supply Control Board (PSC) - Includes Fused +36V Supply, Fused +/-17V Supplies, +/-12V Supplies & +5V Supply	\$489.00
8120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00
8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan/Thailand - 7.5ft, Straight	\$18.00



0120-1609	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
0120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
0120-2957	Power Cord	Power Cord (Gray) - 220V Operation in Denmark - 2m, 90 Deg	\$30.00	
0120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
3101-0402	Switch	Power Switch - Mounts on Rear Panel	\$8.00	
01090-61103	Transformer	Power Transformer Assy - for 100/120V and 220/240V Operation	\$435.00	

SDS Electronics

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79835-66515	PC Board	Metering Pump Limit Board (MPL) - Senses Upper End Position of Both Pistons on the Metering Pump System	\$76.85	
79835-66516	PC Board	Rotary Valve Sensor Board (RVS) (Almost Round PC Board) - Checks Position of Rotary Valve Unit	\$100.75	
79835-66517	PC Board	Pump Stroke Sensor Board (PSS) - Produces a Pulse for Each Revolution of the High Pressure Pump Motor	\$71.50	
79835-66522	PC Board	Solvent Delivery Mother Board (SDM) (New Style - Has 3 Board Slots and Attached Interconnecting Cables) - for Serial Prefix >=&= 2530G	\$557.00	
79835-66511	PC Board	Solvent Delivery Motherboard (SDM) (Old Style - Has 6 Board Slots) - for Serial Number Prefix <=&= 2245G	\$720.00	
79835-66523	PC Board	BUS Connector Ternary Board (BTU) - on Front of Channel Driver Boards (Behind Keyboard) - for Newer Style SDS Electronics (Serial Number Prefix >=&= 2530G)	\$148.00	
79835-66512	PC Board	Solvent Delivery System Input/Output Connector Board (IOC) - on Front of Controller/Driver Boards (Behind Keyboard) - for Older Style SDS Electronics (Serial Number Prefix <=&= 2245G)	\$201.00	
79835-66521	PC Board	Metering Channel Driver Board (MCD) - Can Be Used on LC's with Either 3 Slot or 6 Slot Motherboard - NOTE: on 6 Slot Motherboard, Must also Use 79835-66520 (STC Adapter Board)	\$715.00	
* 79835-69521	PC Board	Metering Channel Driver Board (MCD) - Can Be Used on LC's with Either 3 Slot or 6 Slot Motherboard - NOTE: on 6 Slot Motherboard, Must also Use 79835-66520 (STC Adapter Board)	\$715.00	\$455.00
79835-66520	PC Board	SCT Adapter Board - Adapts New Metering Channel Driver Board (MCD) for Use with 6 Slot Motherboard - for Instruments with Serial Number Prefix <=&= 2245G	\$307.00	
79835-61620	Sensor	Positive Temperature Coefficient (PTC) Leak Sensor Assembly - Used in SDS, Injector, and Detector Units	\$58.30	
79835-68722	Upgrade Kit	Motor Driver Board (-66533) (MDR)/Servo Controller Board (-66514) (SCT) Replacement Kit - Includes Metering Channel Driver Board (MCD) and SCT Adapter Board (for S/N <=&= 2245G)	\$901.00	
* 79835-69722	Upgrade Kit	Motor Driver Board (-66533) (MDR)/Servo Controller Board (-66514) (SCT) Replacement Kit - Includes Metering Channel Driver Board (MCD) and SCT Adapter Board (for S/N <=&= 2245G)	\$901.00	\$636.00

SDS MCGV System Parts

9301-0050	Bottle	External Solvent Bottle - 1 Liter Capacity	\$35.00	
01010-60025	Filter	Solvent Filter (Round Filter in Bottom of External Solvent Bottle) - Inlet for Filtering Solvent Going to the Multi-Channel Gradient Valve - for External Solvent Bottle ONLY	\$68.00	
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for External Solvent Bottle	\$42.00	
79846-23203	Fitting	Flash Union - Couples Capillary to External Solvent Bottle	\$21.50	
01090-60006	Head Assembly	Bottle Head Assembly - Includes Solvent Filter, Helium Frit, and all Tubing	\$208.00	
01090-22313	Holder	Connector Holder - for External Solvent Bottle Connectors	\$77.00	
79835-87330	Mixer	Static Mixer Assembly (for Proper Mixing of Solvents) - Attaches Between the High Pressure Damper and the Injector Valve Driver Board (CVD) - Controls the Multi-Channel Gradient Valve (or Old Style Proportioning Valve) - Plugs into Solvent Delivery Motherboard	\$382.00	
79835-66534	PC Board	Multi-Channel Gradient Valve (MCGV) Upgrade Kit - Parts Needed for Replacing the Old Style Proportioning Valve (Serial Number Prefix = 2738G) - MCGV Valve NOT Included	\$370.00	
79835-68721	Upgrade Kit	Multi-Channel Gradient Valve (MCGV) Upgrade Kit - Parts Needed for Replacing the Old Style Proportioning Valve (Serial Number Prefix = 2738G) - MCGV Valve NOT Included	\$370.00	
79835-67701	Valve	Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal	\$1,430.00	

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* 79835-69701	Valve	Solvent Bottles and One External Solvent Bottle) Multi-Channel Gradient Valve (MCGV) - 4 Port Solvent Input Valve to the Metering Pump (Has Inputs from Three Internal Solvent Bottles and One External Solvent Bottle)	\$1,430.00	\$660.00
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SDS Solvent Flow Parts

79846-87601	Capillary	Syringe Capillary (Stainless Steel) - Runs from Tip of Metering Syringe to Port 3 on the Rheodyne Valve	\$80.00	
79835-60005	Damper	High Pressure Damper Assembly - Reduces Ripple Caused by the High Pressure Pump Output - Connects to Valve Unit Input	\$800.00	
01090-60009	Filter	Helium Inlet Filter and Tube Assembly - for Solvent Bottle	\$42.00	
0100-0900	Fitting	Zero Dead Volume (ZDV) Fitting - Couples Capillaries in Several Locations in the Solvent Flow Path	\$70.00	
79835-60003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	



* 79835-69003	LPC Chamber	Low Pressure Compliance Chamber Assembly - Mixes Solvents from the Metering Pumps (Going to the High Pressure Pump)	\$1,380.00	\$610.00
79846-87604	Loop	25ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$82.00	
79846-87612	Loop	125ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-87613	Loop	250ul Sample Loop Capillary - Between Rheodyne Valve and Needle Arm Assembly	\$111.00	
79846-60002	Metering Device	Metering Device - for Drawing Up a Selected Amount of Sample	\$900.00	
79846-87201	Needle	25ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$50.00	
79846-87202	Needle	250ul Needle Arm Assy (L-Shaped) - Includes Male Fitting	\$70.00	
79846-67101	Seat	Needle Seat Assembly (Connects to a Capillary that Goes to the Rheodyne Valve) - Provides Seal for Needle Arm Assy Tip	\$33.00	
9301-0633	Syringe	25ul Syringe - for Drawing Up to a 25ul Sample Size	\$63.00	
9301-0670	Syringe	250ul Syringe - for Drawing Up to a 250ul Sample Size	\$63.00	
79846-60001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	
79846-67902	Valve	Flush Valve Assembly - for Flushing Out the System	\$452.00	
* 79846-69001	Valve	Rheodyne 6 Port Valve and Actuator Assembly - Selects Flow Paths of Solvent and Input Sample	\$2,390.00	\$740.00
79846-24501	Waste Sleeve	25ul Waste Sleeve - Attaches to the Plunger End of the 25ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-24502	Waste Sleeve	250ul Waste Sleeve - Attaches to the Plunger End of the 250ul Metering Syringe (Drains Off Waste Fluids)	\$25.00	
79846-27303	Waste Tube	Waste Tube - Attaches to the Waste Sleeve (at the Plunger End of the Metering Syringe)	\$21.00	

## Solvent Compartment Parts

01090-43701	Arm	Bottle Release Arm (Rail) - Causes Bottle Catch to Flip Down when Pulled (End Protrudes from Top of Solvent Compartment)	\$29.70	
01090-87703	Base	Bottle Holder Base (L-Shaped) - Mounting Plate for the Bottle Holding Mechanics	\$63.65	
9301-0656	Bottle	Solvent Bottle - 1 Liter Capacity	\$35.00	
01090-60003	Bottle Holder	Bottle Holder Assembly - Includes Base and all Mechanical Parts (Does NOT Include Helium Venting or Plumbing Parts)	\$239.00	
01090-87606	Capillary	Connecting Capillary - from Solvent Inlet Filter (in Bottle) to Bottle Connector	\$35.00	
01090-45001	Catch	Bottle Catch (U-Shaped) - Holds Solvent Bottle (by its Neck) - Flips Down when Release Arm is Pulled	\$11.65	
01090-87602	Connector	Bottle Connector/Stopper - with Tube Fittings for the Helium	\$175.00	

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01090-60008	Filter	Inlet and Outlet, and the Solvent Filter and Metering Pump Solvent Filter (Round Filter in Bottom of Solvent Bottle) - Inlet for Filtering Solvent Going to the Metering Pump	\$53.00	
01090-82701	Filter	Filter Assembly (for the Solvent Bottle) - Includes Helium Inlet, Solvent Filters, and Tubing	\$117.00	
0905-1259	O-Ring	23.52mm O-Ring - Provides Seal Between the Bottle Connector and the Solvent Bottle	\$74.00	
01090-67602	Outlet	Helium Outlet Assembly (Mounts on Back of Bottle Base Plate) - Has three Flexible Tubing Lines (to the Solvent Bottle Connectors) - for Helium Venting	\$133.00	

\* = Exchange Part

■ = Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP INTEGRATORS

HP INTEGRATOR 3396 SERIES II

(3396B)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Basic Chassis Parts</b>				
03396-40050	Bracket	Paper Roll Holder Bracket - Attaches to Rear of Integrator - Supports Paper Roll/Core Rod (2/Pkg)	\$6.00	
03394-40010	Case	Bottom Half of Case - Base Structure	\$62.50	
03394-40020	Case	Top Half of Case - Has Cut Outs for Keyboard and Print Mech	\$34.00	
0403-0202	Foot	Adhesive Bumper Foot - for Bottom of Integrator (4 Used)	\$ .30	
0370-2625	Keycap	Keycap (White) - for Rear Panel Power Switch	\$1.65	
03394-20500	Rod	Paper Core Rod - Inserts in Center of Paper Roll	\$11.00	
03394-00020	Separator	Paper Saperator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	\$19.00	
03394-40100	Window	Lift-Up Viewing Window - on Top Cover (Behind Keyboard)	\$12.70	
<b>Integrator Electronics</b>				
35900-60520	Fan	Fan Assembly - Mounts in Front Left Corner of the Base Assy	\$39.20	
2110-0003	Fuse	Fuse - 3A, 250V - for 110V/120V or 220V/240V Operation	\$ .30	
2110-0565	Fuseholder	Fuseholder Cap (Gray) - for 120V or 240V Operation	\$ .95	
1020-6292	IC	Data Communications CPU IC (U305) - Goes in Socket on Main Board	\$17.50	
1020-6599	IC	Printer/Plotter CPU IC (U223) - Goes in Socket (About in Center) on Main Board	\$31.00	
03396-60595	IC ROM	Firmware Upgrade Kit - Includes: Z-80 Diagnostics ROM (U111), Z-80 BASIC ROM (U110), and INET ROM (U317)	\$74.00	
03396-80106	IC ROM	Application EPROM (Generic) (U318) - Goes in Socket on Main Board	\$79.50	
03395-60635	Keyboard	Keyboard Assembly - Does NOT Include Ribbon Cable	\$148.00	
03396-60015	PC Board	Main Board - Large Board in Bottom of Integrator (Includes Interface/Control Connectors and Keyboard Cable)	\$950.00	
* 03396-69015	PC Board	Main Board - Large Board in Bottom of Integrator (Includes Interface/Control Connectors and Keyboard Cable)	\$950.00	\$580.00
0120-0698	Power Cord	Power Cord (Black) 18 AWG - 220V/240V in USA/Canada - 2.3m	\$12.00	
0120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00	
0120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
0120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$10.00	
0120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
0120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
0120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50	
0120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
03394-60030	Power Module	Power Module Assembly - Includes Power Switch, Line Select Switch, Fuse Holder, and Power Receptacle	\$69.00	
0950-1884	Power Supply	Power Supply Assembly - Mounts in Front of Power Module (on Left Side of Integrator)	\$90.00	
3101-2511	Switch	Power Switch - Pushbutton Switch (in Power Module Assembly)	\$21.50	
3101-2640	Switch	Datacomm Switches - All 10 Switches in a DIP Package	\$12.50	

Interconnecting Cables

03394-60560	Cable	Remote Control Cable - from Integrator to 5090A and 5090 Series II (Analog Output) - 2m	\$82.20	
03394-60580	Cable	Remote Control Cable - from Integrator to Second 3394A or 3395A Integrator - 2.1m	\$87.00	
03394-60600	Cable	Remote Control Cable - from Integrator to 1046A Fluorescence Detector	\$87.50	
03394-60610	Cable	Remote Control Cable - from Integrator to 5890 GC with a 19395A Headspace Analyzer (Y Cable)	\$69.00	
03396-60500	Cable	BCD Sample Number Cable - from Integrator to Spade Lug Connectors - 2.1m	\$66.30	
03396-60560	Cable	BCD Cable - from Integrator to 7673 Automatic Sampler	\$74.20	
03396-60570	Cable	BCD Cable - from Integrator to 19395A Headspace Analyzer	\$90.00	
03396-60580	Cable	BCD Cable - from Integrator to 1090 LC Auto Sampler	\$148.00	
03396-60620	Cable	Remote Control Cable - from Integrator to 57XX GC's	\$95.40	
03396-60650	Cable	Remote Control Cable - from Integrator to 1040 Diode Detector and 1090A/L LC	\$122.00	
35900-60570	Cable	Analog Signal Cable - from Integrator to 5800A GC - 1.8m	\$63.60	
35900-60590	Cable	Analog Signal Cable - from Integrator to 5790A GC - 1.8m	\$66.30	
35900-60600	Cable	Analog Signal Cable - from Integrator to 1040A Diode Array Detector and 1090A/L LC's - 1.8m	\$63.60	
35900-60610	Cable	Analog Signal Cable - from Integrator to 5890A and 5890 Series II GC's - 1.8m	\$53.00	
35900-60620	Cable	Analog Signal Cable - from Integrator to 5710/30 GC's and 10818 UV Detector - 1.8m	\$58.30	
35900-60630	Cable	Analog Signal Cable (General Purpose) - from Integrator to	\$49.80	





35900-60640	Cable	Spade Lug Connectors - 1.8m	
		Analog Signal Cable (Special Purpose) - from Integrator to	\$47.70
35900-60750	Cable	Square Pin Connectors - 1.8m	
		Analog Signal Cable - from Integrator to 1046A Fluorescence	\$61.00
		Detector - 2m	
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

516058	Cartridge	Blue Print Cartridge - for Use with InkJet Paper	\$15.95
51605R	Cartridge	Red Print Cartridge - for Use with InkJet Paper	\$15.95
5181-1220	Cartridge	Black Print Cartridge - for Use with InkJet Paper	\$16.00
03395-62500	Manual	3395A/3396B Integrator Tutorial Manual Kit (German)	\$45.00
03395-63500	Manual	3395A/3396B Integrator Tutorial Manual Kit (French)	\$45.00
03395-64500	Manual	3395A/3396B Integrator Tutorial Manual Kit (Italian)	\$45.00
03395-65500	Manual	3395A/3396B Integrator Tutorial Manual Kit (Spanish)	\$45.00
03395-67500	Manual	3395A/3396B Integrator Tutorial Manual Kit (Chinese)	\$45.00
03396-60955	Manual	3396B Integrator Core Manual Kit - Includes: Installation and Service, RS-232C Programmer's Guide, Networking Guide, Tutorial, Using Applications Programs, and Operating Manuals	\$222.00
61213-60500	Manual	3396A/B BASIC Language Programming Manual	\$140.00
5062-3561	Paper	Z-Fold InkJet Paper (with Sequentially Numbered Pages) - 8.5in x 11in (500 Sheets Per Pack, 5 Packs/Box)	\$94.00
5181-1219	Paper	Perforated ThinkJet Paper - 8.5in X 11in Pages - 340 Pages Per Roll (4 Rolls/Box)	\$74.00
5181-1255	Paper	Perforated ThinkJet Paper - 210mm X 297mm Pages (4 Rolls/Box) - for European Use Only	\$76.00
		Page: 2	
5062-3560	Stand	Z-fold Acrylic Paper Stand (U Shaped) - Holds Z-Fold Paper Supply Under Integrator	\$90.00
8710-1347	Tool	Pry Tool - for Opening the Integrator Case	\$17.00

## Print Mechanism Parts

02225-00027	Cable	Flex Cable - from Main Board to Carriage Assembly	\$11.00
02225-60914	Carriage	Carriage Assembly - Includes Flex Cable	\$8.25
02225-00017	Hardware	Cup Washer - Used in Mounting the Print Mechanism to the Base Assembly (2 Used)	\$ .75
03394-40080	Latch	Carriage Latch - Retains Print Cartridge in Carriage	\$4.90
3140-0785	Motor	Carriage Drive Motor - Mounts on Rear Left of Mechanism	\$38.00
3140-0787	Motor	Paper Drive Motor - Mounts on Right Side of Print Mechanism	\$23.50
03394-60625	Print Mechanism	Print Mechanism Assembly - Complete	\$276.00
03394-00020	Separator	Paper Separator (Flat Plate) - Snaps on to Top of Print Mechanism (Separates Incoming from Outgoing Paper)	\$19.00

\* = Exchange Part

= = Call (800) 227-8164 for volume discount



## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP CHROMATOGRAPHS

HP GAS CHROMATOGRAPH SERIES II

(5890A II)

Prices are in U.S. dollars  
Effective from 10/01/97 to 12/31/97

PART NUMBER	KEYWORD	DESCRIPTION	#	LIST PRICE	EXCHANGE PRICE
<b>ECD (G12xx) Detector</b>					
19233-20515	Base	Base Structure (Lower Heated Block) - of the ECD Detector		\$77.00	
19233-69576	ECD Assembly	ECD Assembly Replacement (General License)		\$875.00	
19235-69536	ECD Assembly	ECD Assembly Replacement (Specific License)		\$870.00	
19233-60627	Heater	70W Heater Assembly (ONLY) - Includes Cable		\$53.00	
19233-60625	Heater/Sensor	Heater/Sensor Assembly - Includes Cable		\$122.00	
19233-60635	Interconnect	Signal Interconnect Lead - from ECD Detector to PC Board		\$19.10	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable		\$82.00	
<b>ECD (G12xx) Flow Manifold</b>					
19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)		\$95.00	
19233-60675	Flow Manifold	ECD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate		\$509.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (2 Used Per Valve) (12/Pkg)		\$14.00	
5181-1251	O-Ring	Valve O-Ring (Greased) - for the Flow Manifold (1 Used Per Valve)		\$4.90	
19231-60770	Restrictor	Restrictor (Red) -for 'Hydrogen' on Flow Manifold		\$15.40	
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold		\$15.90	
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)		\$21.20	
<b>ECD Detector Assembly</b>					
19233-80565	Adapter	ECD 'Make-Up Gas' Adapter - Screws on Bottom of Detector		\$177.00	
19233-80510	Base	Base Structure (Heated Block Weldment) - of ECD Detector		\$111.00	
19233-69570	ECD Assembly	ECD Assembly Replacement (General License)		\$940.00	
19235-69530	ECD Assembly	ECD Assembly Replacement (Specific License)		\$940.00	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable		\$39.20	
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable		\$201.00	
19233-60600	Interconnect	Signal Interconnect Assy - from ECD Detector to PC Board		\$101.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable		\$82.00	
<b>ECD Flow Manifold</b>					
19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)		\$95.00	
19233-60610	Flow Manifold	ECD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate		\$286.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)		\$14.00	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold		\$15.90	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)		\$95.00	
<b>FID Detector Assembly</b>					
19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body		\$424.00	
19231-60690	Collector	FID Collector Assembly - Top Half of Detector		\$177.00	
19231-60025	Diode Bridge	Diode Bridge/Cable Assembly - Attaches to Ignitor Assembly		\$44.50	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable		\$39.20	
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05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable		\$201.00	
19231-60680	Ignitor	Ignitor (Glow Plug) Assy - Screws into Collector Assy		\$36.00	
19231-60710	Interconnect	Signal Interconnect Assy - from FID Detector to PC Board		\$90.00	
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID		\$42.00	
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID		\$42.00	
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID		\$50.00	
19231-60010	PC Board	FID Detector Board		\$477.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable		\$82.00	
<b>FID Flow Manifold</b>					
19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)		\$95.00	
19231-60750	Flow Manifold	FID Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate		\$445.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)		\$14.00	
19231-60610	Restrictor	Restrictor (Brown) - for 'Air' on Flow Manifold		\$10.60	
19231-60770	Restrictor	Restrictor (Red) -for 'Hydrogen' on Flow Manifold		\$15.40	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold		\$15.90	
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)		\$21.20	
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)		\$27.60	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)		\$95.00	
<b>D Detector Assembly</b>					
19256-80000	Filter	393nm Filter - for Sulfur		\$293.00	
19256-80010	Filter	525nm Filter - for Phosphorus		\$293.00	
0854-0141	Glow Plug	Glow Plug (1.5V) - Screws in to the Left Side of the Block Weldment		\$19.00	



19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
19256-60540	Heater	Heater Assembly - for Lower Heated Block on Detector	\$159.00
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19256-60590	Liner/Ferrule	Gigabore Liner and Ferrule - Mounts in the Transfer Tube (in the Lower Heated Block)	\$69.00
19256-60010	PC Board	FPD Detector Board	\$583.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - for Upper Heated Block	\$82.00
19256-20730	Tube	Drip Tube (Rubber) - Attaches to the Exit Tube (at the Top of the Block Weldment)	\$31.00
19256-60510	Tube	Photo-Multiplier Tube (PMT) Assy - with Tube Body & End Cap	\$1,700.00
61535-80050	Tube	Photo-Multiplier Tube (PMT) (ONLY)	\$600.00
19256-80030	Window	First Heat Shield Window - Between the Heat Shield Disk (Behind the Stainless Steel Coupling) and the Block Weldment	\$30.00
19256-80060	Window	Second Heat Shield Window - Between the Flange Adapter and the Stainless Steel Coupling	\$31.00

FPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19256-60630	Flow Manifold	FPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$466.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

GC Mainframe Case Parts

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05890-00395	Cover	Rear Cover - also Covers Back Top Half of Oven (L-Shaped)	\$95.00
05890-40125	Cover	Right Side Top Cover (L-Shaped) - Over Electronics Area	\$32.90
19257-00035	Cover	Rear Cover (L-Shaped) - has Optional RS-232C/HP-IB Cutouts	\$122.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
05890-61570	Door	Left Side (Flow) Panel Door Assembly	\$42.00
05890-91000	Nameplate	Nameplate - 5890A II GC Logo	\$6.10
05890-40115	Panel	Right Side (Electronics) Panel	\$66.00
05890-61480	Panel	Left Side (Flow) Panel	\$154.00

GC Mainframe Electronics

19257-60505	Cable	Dual Interface Cable - from Communications Bd to Rear Panel	\$36.00
05890-40080	Connector	Connector Body - Supports the Connector Element Between the Keyboard Bezel and the Display PC Board	\$8.20
1252-5289	Connector	Connector Element (Elastomeric) - Interconnects the Keyboard Bezel Assembly and the Display PC Board	\$7.25
19245-60510	Fan	Inlet Cooling Fan - Mounts Under Fan Shroud in Inlet Area (on Top of Oven Compartment)	\$42.40
2110-0054	Fuse	Fuse - 15A, 250V - F1 on 05890-60060 and F3/F4 on 05890-60070 AC Power Supply Boards	\$ .95
2110-0098	Fuse	Fuse - 20A, 250V - F1 on 05890-60050 AC Power Supply Board	\$1.00
2110-0422	Fuse	Fuse - 6.25A, 250V - F2 on 05890-60050 or 05890-60060 and F1/F2 on 05890-60070 AC Power Supply Boards	\$ .95
05890-80325	IC ROM	EPROM for Main Board - for Series II ONLY	\$26.50
05890-60747	Keyboard	Keyboard Bezel Assembly - Face Plate with Soft-Touch Keypad - Does NOT Include the Display PC Board	\$87.00
05890-61367	Keyboard	Keyboard Assembly - Includes the Keyboard Bezel, Display PC Board, and the Connector Assembly Between Them	\$223.00
05890-60035	PC Board	Display Board - Includes Display Readout and Ribbon Cable	\$170.00
05890-60050	PC Board	AC Power Supply Board - for 120V Operation in USA/Canada	\$307.00
05890-60060	PC Board	AC Power Supply Board - for 220V/240V Operation in the UK/Europe (Including Denmark and Switzerland)/Australia/China/South Africa	\$297.00
05890-60070	PC Board	AC Power Supply Board - for 200V/220V/240V Operation in USA/Canada/Japan/220V Split-Phase in Europe	\$339.00
* 05890-69015	PC Board	Main Board - Must Also Order EPROM (IC ROM)	\$690.00
19242-60015	PC Board	INET Communications Board [Buffered]	\$392.00
19242-60030	PC Board	RS-232C Communications Board	\$519.00
19257-60015	PC Board	RS-232C/HP-IB Dual Interface Communications Board	\$260.00
19257-60020	PC Board	Dual Interface (RS-232C/HP-IB) Rear Panel Connector Board	\$244.00
19261-60010	PC Board	Analog Input Communications Board	\$339.00
05890-60870	Power Cord	Power Cord (Hard Wired) - for 120V Operation in USA/Canada	\$26.50
05890-60880	Power Cord	Power Cord (Hard Wired) - for 220V Operation in European Countries (Including Denmark and Switzerland)	\$63.60
05890-60890	Power Cord	Power Cord (Hard Wired) - for 220V/240V Operation in the UK/South Africa	\$138.00
05890-60900	Power Cord	Power Cord (Hard Wired) - for 240V Operation in USA/Canada	\$180.00
05890-60910	Power Cord	Power Cord (Hard Wired) - for 240V Operation in Australia/New Zealand/China	\$111.00
05890-60920	Power Cord	Power Cord (Hard Wired) - for 200V Operation in Japan	\$186.00
05890-60960	Power Cord	Power Cord (Hard Wired) - for 220V Split-Phase Operation in European Countries	\$55.70
3101-0402	Switch	Power Switch - Mounts on Lower Right Side	\$8.00
05890-60970	Transformer	Power Transformer Assy - for 120V Operation in USA/Canada	\$239.00
05890-60980	Transformer	Power Transformer Assembly - for 200V Operation in Japan	\$180.00
05890-60990	Transformer	Power Transformer Assy - for 220V Operation in the UK/China/	\$244.00



## Europe (Including Denmark &amp; Switzerland)/Europe Split-Phase

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05890-61000	Transformer	Power Transformer Assembly - for 240V Operation in USA/Canada/Australia/South Africa	\$228.00
Interconnecting Cables			
05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00
05890-60780	Cable	Analog Signal Cable - to HP 3388A Integrator - 2m	\$85.00
05890-60790	Cable	Analog Signal Cable - to HP 3350 Series Lab System - 2m	\$122.00
05890-60800	Cable	Analog Signal Cable - General Purpose (Spade Lugs) - 2m	\$106.00
05890-61050	Cable	Remote Start/Stop Cable - to HP 3390A Integrator - 2m	\$93.00
05890-61060	Cable	Remote Start/Stop Cable - to HP 3392/93A Integrator - 2m	\$101.00
05890-61070	Cable	Remote Start/Stop Cable - to HP 3350 Series Lab System - 2m	\$101.00
05890-61080	Cable	Remote Start/Stop Cable - General Purpose (Spade Lugs) - 2m	\$122.00
05890-61160	Cable	Remote Start/Stop Cable - to HP 18652A Interface Module - 2m	\$127.00
05890-61170	Cable	Remote Start/Stop Cable - to HP 3388A Integrator - 2m	\$127.00
05890-61180	Cable	Remote Start/Stop Cable - to HP 18762A Sample Cntrlr - 2m	\$65.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$6.00
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

8710-1346	Brush	Cleaning Brush - for the FID Collector (Set of 2)	\$8.00
9301-0985	Cleaning Kit	Cleaning Kit - for Flame Detectors	\$32.00
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00
05890-61400	Manual	5890A Series II Operating Manual Kit (German)	\$177.00
05890-61410	Manual	5890A Series II Operating Manual Kit (French)	\$177.00
05890-61420	Manual	5890A Series II Operating Manual Kit (Italian)	\$177.00
05890-61430	Manual	5890A Series II Operating Manual Kit (Spanish)	\$177.00
05890-90320	Manual	5890A Series II Service Manual	\$224.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19251-00100	Tool	Septa Wrench - for Ease in Removing Septum Retainer Nut	\$24.00
19301-00150	Tool	FID Wrench - for Removing Retainer Nut	\$8.00
H2603-90006	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS)	\$195.00
H2603-90007	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS)	\$95.00
H2603-90008	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS) (in Spanish)	\$95.00
H2603-90009	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS) (in Spanish)	\$95.00

## NPD Detector Assembly

19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00
19234-80510	Body	Body Assy - Connects to Toroid Assy - on Top of Detector	\$106.00
19234-60540	Collector	Collector Assembly - Center 'Core' of Detector	\$131.00
19234-20610	Contact	Upper Contact - for Toriod Assy - on Top of Detector	\$75.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19231-60710	Interconnect	Signal Interconnect Assy - from NPD Detector to PC Board	\$90.00
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00
19234-60012	PC Board	NPD Detector Board	\$557.00

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5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19234-60580	Toroid	Toroid Assy (ONLY) - Connects to Detector Contact and Body	\$223.00
19234-60750	Toroid/Spacer	Toroid/Spacer Assembly - Includes Cable	\$164.00

## NPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19234-60650	Flow Manifold	NPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$413.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19234-60600	Restrictor	Restrictor (Green and Brown) - for 'Air' on Flow Manifold	\$20.10
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90
19231-20530	Valve	'Plug' Valve - for Flow Manifold (1 Used)	\$15.40
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

## Oven Compartment Assembly

05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
19245-60510	Fan	Inlet Cooling Fan - Mounts Under Fan Shroud in Inlet Area (on Top of Oven Compartment)	\$42.40





05890-61615	Heater	Oven Heater Shroud Assy (120V) - has Element, Plate, & Cable	\$154.00
05890-61625	Heater	Oven Heater Shroud Assy (200V) - has Element, Plate, & Cable	\$154.00
05890-61635	Heater	Oven Heater Shroud Assy (220V) - has Element, Plate, & Cable	\$154.00
05890-61645	Heater	Oven Heater Shroud Assy (230V) - has Element, Plate, & Cable	\$154.00
05890-61655	Heater	Oven Heater Shroud Assy (240V) - has Element, Plate, & Cable	\$154.00
19239-20550	Insulation Kit	Sound Insulation Kit (Includes all Five Pieces) - for any of the Cryogenic Valves in the Oven Compartment	\$63.60
05890-60940	Motor	Stepper Motor - for Oven Flap Assembly	\$90.00
05890-67020	Motor	Oven Fan Motor Replacement Kit - for 120V Operation	\$212.00
05890-67030	Motor	Oven Fan Motor Replacement Kit - for 200V to 240V Operation	\$249.00
19239-80505	Nozzle	CO2 Cryogenic Nozzle	\$55.65
19239-80535	Nozzle	N2 Cryo Blast Nozzle	\$111.00
19245-80550	Nozzle	CO2 Cryo Blast Nozzle	\$79.50
19310-20500	Nozzle	N2 Cryogenic Nozzle	\$38.20
05890-61030	Sensor	Oven Sensor Assembly - Mounts on Heater Shroud	\$98.00
05890-80560	Shaft	Oven Flap Shaft Assembly - with 2 Round Flapper Pads	\$69.00
19239-60545	Valve	Valve Assembly - for CO2 Cryogenic or Cryo Blast Cooling	\$254.00
19239-65507	Valve	Valve Assembly - for N2 Cryo Blast Cooling	\$413.00
19239-65517	Valve	Valve Assembly - for N2 Cryogenic Cooling	\$329.00

## Packed Column Inlet

19243-80500	Base	Inlet Base Structure (Heated Block Weldment) - Main Body	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
19243-60500	Hardware	Septum Nut Assembly - Screws on Top of Inlet	\$59.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8728	Septa	3/8 Inch Gray Septa - for the Packed Column Inlet (24/Pkg)	\$30.00

## Septum-Purged Inlet

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19243-80560	Base	Inlet Base Structure (Base Weldment)	\$318.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Inlet Assembly	\$34.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
5080-8732	Liner	Glass Liner - for the Septum-Purged Inlet (25/Pkg)	\$34.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8896	Septa	11mm Gray Septa - for the Septum-Purged Inlet (24/Pkg)	\$30.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

## Split-Only Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Inlet Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00

## Split/Splitless Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Inlet Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
18740-80200	Liner	1.5mm ID Liner (Quartz) - for Direct (Splitless) Operation	\$17.00
18740-80220	Liner	2mm ID Liner (Quartz) - for Splitless Operation	\$27.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool -	\$26.00



		Generally Used for Split Operation	
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00

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5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only	\$65.00
19251-60560	Valve	Capillary Inlets (144/Pkg) Solenoid Valve Assy (with Cable) - for Inlet Flow Control	\$159.00

TCD Detector Assembly

19232-80550	Adapter	TCD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$97.00
19232-60676	Cell	Replacement TCD Cell Assembly	\$895.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19232-60020	PC Board	TCD Detector Board	\$413.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19232-60660	Sensor	PRT 'Delta-T Sensor' Assembly (ONLY) - Includes Cable	\$61.00
19232-60725	Valve	Solenoid Switching Valve - for TCD Detector	\$217.00

TCD Flow Manifold

19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19232-60680	Flow Manifold	TCD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines, Gas Fitting Plate, or Input Gas Line Fittings	\$445.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00
19232-60610	Restrictor	Restrictor (Black) - for 'Make-Up Gas' on Flow Manifold	\$14.80
19232-60650	Restrictor	Restrictor (Yellow) - for 'TCD Reference' on Flow Manifold	\$10.30
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (2 Used)	\$95.00

Valve Box Assembly

19358-20520	Block	Heated Block - Interior 'Block' of Valve Box (2 Used)	\$43.45
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly (2 Used Per Valve)	\$1.65
0380-1102	Hardware	Threaded Hex Standoff (4 Used for Each Heated Block)	\$ .95
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$ .30
0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$297.00

\* = Exchange Part

# = Call (800) 227-8164 for volume discount



HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

HP CHROMATOGRAPHS

HP GAS CHROMATOGRAPH

(6890A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>ECD Detector Assembly</b>				
19233-67010	Anode/Ferrule/Nut	Anode/Ferrule/Nut Assembly (Specific License Required) - (L-Shaped) Mounts in the Top of the ECD Assembly	\$127.00	
19233-20515	Base	Base Structure (Lower Heated Block) - of the ECD Detector	\$77.00	
G1533-60576	ECD Assembly	ECD Assembly Replacement (General License)	\$1,640.00	
G1533-60660	ECD Assembly	ECD Assembly Replacement (Specific License)	\$1,640.00	
G1533-60730	ECD Assembly	ECD Assembly Replacement - For Sale in Japan ONLY	\$1,800.00	
* G1533-69576	ECD Assembly	ECD Assembly Replacement (General License)	\$1,640.00	\$843.00
* G1533-69660	ECD Assembly	ECD Assembly Replacement (Specific License)	\$1,640.00	\$843.00
* G1533-69730	ECD Assembly	ECD Assembly Replacement - For Sale in Japan ONLY	\$1,800.00	\$875.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Detector Assembly [2/Pkg]	\$24.00	
G1533-60625	Heater/Sensor	ECD Heater/Sensor Assembly - Includes the Heater, PRT Sensor and Cable	\$82.00	
19233-60635	Interconnect	Signal Interconnect Lead - from ECD Detector to PC Board	\$19.10	
G1533-60520	Module	EPC Control Module Assembly - for the ECD Detector	\$1,170.00	
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)	\$12.00	
G1533-60010	PC Board	ECD Signal Board - Does NOT Include the Interconnect Assy	\$239.00	
G1533-60020	PC Board	ECD Interface Board - Connects to Cable the from the ECD Signal Board	\$117.00	
G1531-60610	Valve	EPC Control Valve - Mounts in the ECD Detector Flow Manifold Assembly [2 Used]	\$205.00	
G1533-80565	Weldment	Make-Up Gas Adapter Weldment - Attaches to the Bottom of the ECD Detector Assembly	\$154.00	
<b>FID Detector Assembly</b>				
G1531-80580	Base	Base Structure (Heated Block Weldment) - Main Body of the Detector - for Use with Packed Columns ONLY	\$307.00	
G1531-80630	Base	Base Structure (Heated Block Weldment) - Main Body of the Detector - for Use with Capillary Columns ONLY	\$286.00	
G1531-60690	Collector	FID Collector Assembly - Top Half of the FID Detector	\$164.00	
G1531-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and the Cable - Mounts in the Base (Weldment) Assembly	\$87.00	
G1531-60680	Ignitor	Ignitor (Glow Plug) - Screws into the Side of the FID Collector Assembly	\$34.00	
G1531-60710	Interconnect	Signal Interconnect Assembly - from FID Detector to Signal Board - Note: PC Board and Shield/Case NOT Included	\$122.00	
18710-20119	Jet	Jet (for FID's with a Packed Column Base ONLY) - for Packed Columns - 0.018in ID	\$42.00	
19244-80560	Jet	Jet (for FID's with a Packed Column Base ONLY) - for Capillary Columns - 0.011in ID	\$50.00	
19244-80620	Jet	High Temp Jet (for FID's with a Packed Column Base ONLY) - for Simulated Distillation - 0.018in ID	\$29.00	
G1531-80560	Jet	Jet (For FID's with a Capillary Only Base) - for Fused	\$37.00	
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G1531-80620	Jet	Silica/530um Capillaries - 0.011in ID High Temp Jet (For FID's with a Capillary Only Base) - 0.018in ID	\$27.00	
G1531-60520	Module	EPC Control Module Assembly - for the FID Detector	\$1,590.00	
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)	\$12.00	
G1531-60010	PC Board	FID Signal Board - Does NOT Include the Interconnect Assy	\$276.00	
G1531-60020	PC Board	FID Interface Board - Connects to Cable the from the FID Signal Board	\$103.00	
G1531-60610	Valve	EPC Control Valve - Mounts in the FID Detector Flow Manifold Assembly [3 Used]	\$205.00	
<b>GC Mainframe Case Parts</b>				
G1530-00470	Cover	Detector Pneumatics RFI Cover/Shield - Mounts on the Top Right Rear of the Mainframe	\$38.20	
G1530-40040	Cover	Pneumatics Cover (Plastic) - Mounts on the Top Rear of the Mainframe	\$31.00	
G1530-40050	Cover	Left Side Cover (Plastic)	\$41.30	
G1530-40070	Cover	Injection Port Cover (Plastic) - Retangular Cover with Two Large Hole for the Injection Ports	\$38.20	
G1530-40115	Cover	Right Side Cover (Plastic) - Covers the GC Electronics	\$43.50	
G1530-40125	Cover	Electronics Top Cover (Plastic) - Rectangular Top Cover on the Right Side of the Mainframe	\$19.10	
G1530-40130	Cover	Detector Cover (Plastic) - Large Cover in the Top Center of the Mainframe	\$39.20	
G1530-40200	Cover	Injection Port Fan Cover (L-Shaped) - Small Plastic Cover Towards the Left Rear of the Mainframe	\$11.50	



19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00	
G1530-00035	Panel	Lower Rear Panel - Covers the Rear of the Oven Compartment	\$46.65	
G1530-00220	Panel	Upper Rear Panel - Covers the Detector Pneumatics	\$39.20	
<b>GC Mainframe Electronics</b>				
2110-0036	Fuse	Fuse (Glass) - 8A, 250V - (for All Voltages) - Mounts on the AC Power Board Towards the End (2 Used)	\$1.10	
2110-0090	Fuse	Fuse (Ceramic) - 20A, 250V - for 120V Operation - Mounts on the AC Power Board Towards the Center (2 Used)	\$1.00	
2110-0054	Fuse	Fuse (Ceramic) - 15A, 250V - for 200V to 240V Operation - Mounts on the AC Power Board Towards the Center (2 Used)	\$ .95	
G1530-61701	IC ROM	ROM Set (Revision A.03.02) - Mounts on the Main PC Board	\$72.50	
G1530-60010	PC Board	Main Board Assembly - Does NOT Include ROM's	\$1,540.00	\$610.00
G1530-60050	PC Board	AC Power Board (Includes the Power Switch) - Mounts in the AC Power Supply Assembly	\$249.00	
* G1530-69010	PC Board	Main Board Assembly - Does NOT Include ROM's	\$1,540.00	\$610.00
G1530-60690	Plug	Line Voltage Configuration Plug - for 120V Operation	\$14.80	
G1530-60700	Plug	Line Voltage Configuration Plug - for 200V Operation	\$13.30	
G1530-60710	Plug	Line Voltage Configuration Plug - for 220V Operation	\$13.30	
G1530-60720	Plug	Line Voltage Configuration Plug - for 230V Operation	\$12.20	
G1530-60730	Plug	Line Voltage Configuration Plug - for 240V Operation	\$12.20	
G1530-60870	Power Cord	Power Cable Assembly - for 120V Operation in USA/Canada	\$35.00	
G1530-60880	Power Cord	Power Cable Assy - for 220V Operation in Continental Europe	\$44.50	
G1530-60885	Power Cord	Power Cable Assy - for 230V Operation in Continental Europe	\$44.50	
G1530-60890	Power Cord	Power Cable Assembly - for 240V Operation in the U.K.	\$101.00	
G1530-60900	Power Cord	Power Cable Assembly - for 240V Operation in USA/Canada	\$79.50	
G1530-60910	Power Cord	Power Cable Assembly - for 240V Operation in Australia	\$76.90	
G1530-60920	Power Cord	Power Cable Assembly - for 220V Operation in Japan	\$84.80	
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G1530-67500	Power Cord	Power Cable Assy - for 230V, 10A Operation in Switzerland	\$55.70	
G1530-67501	Power Cord	Power Cable Assy - for 240V Operation in South Africa/India	\$95.40	
G1530-67502	Power Cord	Power Cable Assembly - for 230V, 10A Operation in Denmark	\$61.00	
G1530-67503	Power Cord	Power Cable Assembly - for 230V, 16A Operation in Denmark/Switzerland	\$90.10	
G1530-67505	Power Cord	Power Cable Assembly - for 220V Operation in Hong Kong	\$101.00	
G1530-67506	Power Cord	Power Cable Assembly - for 220V Operation in China	\$76.90	
G1530-40010	Rod	Push Rod - for the Power Switch	\$9.00	
G1530-60970	Transformer	Universal Power Transformer Assembly (for all Countries)	\$297.00	
<b>Interconnecting Cables</b>				
03396-61010	Cable	APG Remote Cable - 9 Pin (M) to 15 Pin (M) - to Connect to a 3395B or 3396C Integrator	\$64.00	
03396-61020	Cable	APG Remote Cable - 9 Pin (M) to 15 Pin (M) - to Connect to a 3395A or 3396B Integrator	\$64.00	
35900-60670	Cable	General Purpose APG Remote Cable - 9 Pin (M) to Spade Lugs	\$92.20	
G1530-60560	Cable	General Purpose Analog Cable - 6 Pin (M) to Spade Lugs	\$53.00	
G1530-60570	Cable	Analog Cable - 6 Pin (M) to 3 Pin (F) (2M) - to Connect to a 3395A/B or 3396B/C Integrator	\$45.00	
G1530-60590	Cable	External Event Cable - 8 Pin (M) to Spade Lugs	\$39.00	
G1530-60630	Cable	General Purpose BCD Cable - 15 Pin (M) to Unterminated	\$26.50	
G1530-60930	Cable	APG Remote Cable - 9 Pin (M) to 9 Pin (M) - 2m	\$45.00	
10833A	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 1.0m	\$90.00	
10833B	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 2.0m	\$100.00	
10833C	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 4.0m	\$110.00	
10833D	Cable (Interface)	HP-IB Cable - 24 Pin (M/F) to 24 Pin (M/F) - 0.5m	\$90.00	
24542M	Cable (Interface)	RS-232C Modem Cable - 9 Pin (F) to 25 Pin (M) - 3.0m	\$45.00	
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75	
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50	
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00	
G1530-60600	Cable (Interface)	RS-232C Interface Cable - 9 Pin (F) to 9 Pin (F) (2m) - to Connect to an Automatic Liquid Sampler	\$45.00	
G1530-61120	Cable (Interface)	Modem Cable - 9 Pin (M) to 9 Pin (F)	\$54.00	
<b>Manual Flow Manifold</b>				
05890-00010	Bracket	Chemical Trap Bracket - Mounts in the Manual Inlet Flow	\$21.20	
<b>Manuals, Tools &amp; Supplies</b>				
G1530-80160	CD ROM	6890 Series Gas Chromatograph Service Information CD ROM	\$51.00	
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00	
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00	
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00	
G1530-60960	Kit	EPC Pneumatic Leak Test Kit - Includes: Inlet Jumper Block, Detector Plug Block, Jet Plug, Module Extender Cable, Vespel Plugs, O-Rings, Capillary Column Nuts, and Swagelok Nuts	\$403.00	
G1530-61380	Manual	6890 Series Gas Chromatograph User's Manual Kit	\$67.00	
G1530-61500	Manual	6890 Series Gas Chromatograph Service Manual	\$94.00	
<b>NPD Detector Assembly</b>				
G1534-80500	Base	Base Structure (Heated Block Weldment) - Main Body of the NPD Detector - for Use with Capillary Columns ONLY	\$339.00	
G1534-60600	Cable	NPD Detector Power Cable Assembly - Attaches to the BNC	\$42.40	





## Connector (at the Top of the Detector)

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G1531-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and the Cable - Mounts in the Base (Weldment) Assembly	\$87.00
G1534-60610	Interconnect	Signal Interconnect Assembly - from NPD Detector to Signal Board - Note: PC Board and Shield/Case NOT Included	\$100.00
19244-80560	Jet	Jet (for NPD's with a Packed Column Base ONLY) - for Capillary Columns - 0.011in ID	\$50.00
G1531-80560	Jet	Jet (For NPD's with a Capillary Only Base) - for Fused Silica Capillaries - 0.011in ID	\$37.00
G1534-60520	Module	EPC Control Module Assembly - for the NPD Detector	\$1,590.00
G1534-60570	NPD Bead Assembly	NPD Bead Assembly (Includes Female BNC Connector) - Mounts to the Top of the NPD Detector Assembly	\$261.00
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (18/Pkg)	\$12.00
G1534-60010	PC Board	NPD Signal Board - Does NOT Include the Interconnect Assy	\$228.00
G1534-60020	PC Board	NPD Interface Board - Connects to Cable the from the NPD Signal Board	\$265.00
G1531-60610	Valve	EPC Control Valve - Mounts in the NPD Detector Flow Manifold Assembly (3 Used)	\$205.00

## Oven Compartment Assembly

05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$58.00
G1530-60815	Door	Oven Compartment Door Assembly	\$498.00
G1530-61610	Heater	Oven Heater Shroud Assembly (for 120V Operation in USA/Canada) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61620	Heater	Oven Heater Shroud Assembly (for 200V Operation in Japan) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61630	Heater	Oven Heater Shroud Assembly (for 220V Single Phase Operation in Europe/Hong Kong/China) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61640	Heater	Oven Heater Shroud Assembly (for 240V Operation in USA/Canada/Great Britain/Ireland/South Africa/India/Australia) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-61650	Heater	Oven Heater Shroud Assembly (for 230V Operation in Continental Europe/Denmark/Switzerland/Italy HSC Power) - Includes Shroud, Heating Element and Cable	\$178.00
G1530-60940	Motor	Drive Motor - Connects to the Flapper Shaft Assembly (on the Rear of the Oven Compartment)	\$74.00
G1530-61310	Motor	Oven Fan Motor (For all Countries) - Includes Motor, Starting Capacitor, and Cable	\$164.00
G1530-80560	Shaft	Oven Flapper Shaft Assembly - with 2 Round Flapper Pads	\$51.90

## PCOC Capillary Inlet

G1545-80507	Base	Inlet Base (Weldment) - Main Structure for the PCOC Capillary Inlet Assembly	\$186.00
G1543-20510	Fitting	Inlet Supply Fitting - Attaches to the Right End of the Inlet EPC Pneumatic Manifold Module Assembly	\$55.00
19245-80521	Hardware	Septum Nut Base Assembly - Mounts on Top of the PCOC Capillary Inlet	\$50.90
5181-8838	Hardware	Column Nut - Screws on the Bottom of the Capillary Inlet Assembly (2/Pkg)	\$24.00
G1545-80520	Hardware	530um Septum Nut Base Assembly - Attaches to the Top of the PCOC Capillary Inlet	\$52.00
19245-20580	Insert	Capillary Insert - for Megabore (530um) Columns - Has NO Silver Rings	\$45.00
19245-20510	Insert	Capillary Insert - for Narrow Bore (200um) Columns -	\$74.00

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19245-20550	Insert	Identified by 1 Silver Ring Capillary Insert - for Glass Columns - Identified by 3 Silver Rings	\$39.00
19245-20780	Insert	Capillary Insert - for Aluminum Columns - Identified by 4 Silver Rings	\$35.00
19245-20525	Insert	Capillary Insert - for Wide Bore (320um) Columns - Identified by 5 Silver Rings	\$64.00
19245-20515	Insert	Capillary Insert - for Medium Bore (250um) Columns - Identified by 6 Silver Rings	\$88.00
G1545-60500	Manifold	PCOC Capillary Inlet EPC Pneumatic Module Assembly	\$1,350.00
5181-1260	Septa	5mm Septa (with Molded Thru Hole) - for the PCOC Capillary Inlet (25/Pkg)	\$26.00
5181-1261	Septa	5mm Solid Septa - for the PCOC Capillary Inlet (25/Pkg)	\$26.00
19245-60760	Spring	Insert Spring - Goes Between the Septa and the Insert (on the PCOC Capillary Inlet)	\$7.00
G1531-60610	Valve	EPC Proportional Valve - Mounts in the Inlet EPC Pneumatic Module Assembly	\$205.00

## Purged/Packed Inlet

G1543-80580	Base	Inlet Base Structure (Weldment) - Includes the Two Gas Lines - Main Body of the Purged/Packed Inlet	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control - for the Purged/Packed Inlet Manual Control Flow Module	\$227.00



5080-8774	Ferrule	Vespel Ferrule - for Seal Between the Glass Liner and the Bottom of the Purged/Packed Inlet Base Assembly (10/Pkg)	\$39.00
G1543-20510	Fitting	Inlet Supply Fitting - Attaches to the Right End of the Inlet EPC Pneumatic Manifold Module Assembly	\$55.00
18740-60835	Hardware	'Septa' Retainer Nut - Screws on the Top Inlet Weldment	\$35.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Capillary Inlet Assembly (2/Pkg)	\$24.00
G1543-61540	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$79.50
19244-80540	Liner	530um Column Liner - Goes in the Purged/Packed Inlet Base (Weldment) Assembly	\$100.00
5080-8732	Liner	Glass Liner - for the Purged/Packed Inlet (25/Pkg)	\$34.00
G1543-60500	Manifold	Purged/Packed Inlet EPC Pneumatic Module Assembly	\$1,220.00
19243-60650	Regulator	Septum Purge Regulator - for the Purged/Packed Inlet Manual Control Flow Module	\$159.00
5182-0739	Septa	11mm High Temperature, Low Bleed Septa - for the Purged/Packed Inlet (50/Pkg)	\$63.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

## Split/Splitless Inlet

G1544-80570	Base	Inlet Base Structure (Shell Weldment) - Main Body of the Split/Splitless Capillary Inlet	\$130.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) (for Inlet Flow Control) - in the Split/Splitless Manual Control Flow Module	\$227.00
G1543-20510	Fitting	Inlet Supply Fitting - Attaches to the Right End of the Inlet EPC Pneumatic Manifold Module Assembly	\$55.00
18740-20800	Hardware	Reducing Nut - Screws on Thermal Nut - on Bottom of Inlet	\$30.00
18740-60835	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$35.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Capillary Inlet Assembly (2/Pkg)	\$24.00
G1544-20590	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$21.00
G1544-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$82.00
G1544-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$184.00

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19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
5062-3507	Liner	4mm ID Single Taper Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Splitless Operation	\$34.00
5181-3315	Liner	4mm ID Liner Double Taper (Borosilicate) - No Packing - for Splitless Operation ONLY	\$34.00
5181-3316	Liner	4mm ID Liner Single Taper (Borosilicate) - No Packing - for Splitless Operation ONLY	\$31.00
5181-8818	Liner	2mm ID Liner (Quartz) - for Splitless Operation ONLY	\$30.00
G1544-60500	Manifold	Split/Splitless Inlet EPC Pneumatic Module Assembly	\$1,400.00
19246-60530	Regulator	Purge Pressure Regulator (for Inlet Flow Control) - in the Split/Splitless Manual Control Flow Module	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) (for Inlet Flow Control) - in the Split/Splitless Manual Control Flow Module	\$144.00
18740-20800	Seal	Lower Inlet Seal (Stainless Steel) - Mounts Between the Thermal Nut and the Reducing Nut	\$24.00
18740-20885	Seal	Lower Inlet Seal (Gold Plated) - Mounts Between the Thermal Nut and the Reducing Nut	\$30.00
5181-1263	Septa	11mm Gray Septa (Solid) - for the Split/Splitless Capillary Inlet (25/Pkg)	\$26.00
G1531-60610	Valve	EPC Proportional Valve - Mounts in the Inlet EPC Pneumatic Module Assembly (2 Used)	\$205.00
G1544-60580	Valve	Split Vent On/Off Valve - Mounts in the Inlet EPC Pneumatic Module Assembly	\$101.00
G1544-60560	Valve	Solenoid Valve Assembly (24V DC) - 3 Way Valve in the Split/Splitless Inlet Manual Control Flow Module	\$111.00

## TCD Detector Assembly

G1532-60675	Cell	Replacement TCD Cell Assembly	\$842.00
5181-8830	Hardware	Column Nut - Screws on the Bottom of the Detector Assembly (2/Pkg)	\$24.00
G1531-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and the Cable - Mounts in the Cell Assembly	\$87.00
G1532-60520	Module	EPC Control Module Assembly - for the TCD Detector	\$1,330.00
5180-4181	O-Ring	O-Ring - Provides a Seal Between the Control Valve and the Detector Flow Manifold Assembly Body (10/Pkg)	\$12.00
G1532-60010	PC Board	TCD Detector Signal Board	\$329.00
G1531-60610	Valve	EPC Control Valve - Mounts in the TCD Detector Flow Manifold Assembly (3 Used)	\$205.00

## Valve Box Assembly

G1580-20520	Block	Heated Block - Interior 'Block' for the Valve Box (2 Used)	\$24.40
G1580-00030	Cover	Top Cover - for the Valve Box Assembly	\$33.90
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly	\$1.65
G1580-20500	Hardware	Standoff - Supports the Top Cover of the Valve Box (2 Used)	\$14.30
G1580-61140	Heater/Sensor	Heater/Sensor Assembly - Includes the Heater, PRT Sensor, and Cable - Mounts in the Valve Box Heated Blocks (2 Used)	\$77.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$3.00



0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.80
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$593.00

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\* = Exchange Part  
# = Call (800) 227-8164 for volume discount

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## Europe (Including Denmark &amp; Switzerland)/Europe Split-Phase

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05890-61000	Transformer	Power Transformer Assembly - for 240V Operation in USA/Canada/Australia/South Africa	\$228.00
<b>Interconnecting Cables</b>			
05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00
05890-60780	Cable	Analog Signal Cable - to HP 3388A Integrator - 2m	\$95.00
05890-60790	Cable	Analog Signal Cable - to HP 3350 Series Lab System - 2m	\$122.00
05890-60800	Cable	Analog Signal Cable - General Purpose (Spade Lugs) - 2m	\$106.00
05890-61050	Cable	Remote Start/Stop Cable - to HP 3390A Integrator - 2m	\$93.00
05890-61060	Cable	Remote Start/Stop Cable - to HP 3392/93A Integrator - 2m	\$101.00
05890-61070	Cable	Remote Start/Stop Cable - to HP 3350 Series Lab System - 2m	\$191.00
05890-61080	Cable	Remote Start/Stop Cable - General Purpose (Spade Lugs) - 2m	\$122.00
05890-61160	Cable	Remote Start/Stop Cable - to HP 18652A Interface Module - 2m	\$127.00
05890-61170	Cable	Remote Start/Stop Cable - to HP 3388A Integrator - 2m	\$127.00
05890-61180	Cable	Remote Start/Stop Cable - to HP 18762A Sample Cntrl - 2m	\$65.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Manuals, Tools &amp; Supplies

8710-1346	Brush	Cleaning Brush - for the FID Collector (Set of 2)	\$8.00
9301-0905	Cleaning Kit	Cleaning Kit - for Flame Detectors	\$32.00
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00
05890-61400	Manual	5890A Series II Operating Manual Kit (German)	\$177.00
05890-61410	Manual	5890A Series II Operating Manual Kit (French)	\$177.00
05890-61420	Manual	5890A Series II Operating Manual Kit (Italian)	\$177.00
05890-61430	Manual	5890A Series II Operating Manual Kit (Spanish)	\$177.00
05890-90320	Manual	5890A Series II Service Manual	\$224.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19251-00100	Tool	Septa Wrench - for Ease in Removing Septum Retainer Nut	\$24.00
19301-00150	Tool	FID Wrench - for Removing Retainer Nut	\$8.00
H2603-90006	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS)	\$195.00
H2603-90007	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS)	\$95.00
H2603-90008	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS) (in Spanish)	\$95.00
H2603-90009	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS) (in Spanish)	\$95.00

## NPD Detector Assembly

19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00
19234-80510	Body	Body Assy - Connects to Toroid Assy - on Top of Detector	\$106.00
19234-60540	Collector	Collector Assembly - Center 'Core' of Detector	\$131.00
19234-20610	Contact	Upper Contact - for Toroid Assy - on Top of Detector	\$75.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19231-60710	Interconnect	Signal Interconnect Assy - from NPD Detector to PC Board	\$90.00
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00
19234-60012	PC Board	NPD Detector Board	\$557.00

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5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19234-60580	Toroid	Toroid Assy (ONLY) - Connects to Detector Contact and Body	\$223.00
19234-60750	Toroid/Spacer	Toroid/Spacer Assembly - Includes Cable	\$164.00

## NPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19234-60650	Flow Manifold	NPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT include Gas Lines or Gas Fitting Plate	\$413.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19234-60600	Restrictor	Restrictor (Green and Brown) - for 'Air' on Flow Manifold	\$20.10
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90
19231-20530	Valve	'Plug' Valve - for Flow Manifold (1 Used)	\$15.40
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

## Oven Compartment Assembly

05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
19245-60510	Fan	Inlet Cooling Fan - Mounts Under Fan Shroud in Inlet Area (on Top of Oven Compartment)	\$42.40





05890-61615	Heater	Oven Heater Shroud Assy (120V) - has Element, Plate, & Cable	\$154.00
05890-61625	Heater	Oven Heater Shroud Assy (200V) - has Element, Plate, & Cable	\$154.00
05890-61635	Heater	Oven Heater Shroud Assy (220V) - has Element, Plate, & Cable	\$154.00
05890-61645	Heater	Oven Heater Shroud Assy (230V) - has Element, Plate, & Cable	\$154.00
05890-61655	Heater	Oven Heater Shroud Assy (240V) - has Element, Plate, & Cable	\$154.00
19239-20550	Insulation Kit	Sound Insulation Kit (Includes all Five Pieces) - for any of the Cryogenic Valves in the Oven Compartment	\$63.00
05890-60940	Motor	Stepper Motor - for Oven Flap Assembly	\$90.00
05890-67020	Motor	Oven Fan Motor Replacement Kit - for 120V Operation	\$212.00
05890-67030	Motor	Oven Fan Motor Replacement Kit - for 200V to 240V Operation	\$249.00
19239-80505	Nozzle	CO2 Cryogenic Nozzle	\$55.65
19239-80535	Nozzle	N2 Cryo Blast Nozzle	\$111.00
19245-80550	Nozzle	CO2 Cryo Blast Nozzle	\$79.50
19310-20500	Nozzle	N2 Cryogenic Nozzle	\$38.20
05890-61030	Sensor	Oven Sensor Assembly - Mounts on Heater Shroud	\$98.00
05890-80560	Shaft	Oven Flap Shaft Assembly - with 2 Round Flapper Pads	\$69.00
19239-60545	Valve	Valve Assembly - for CO2 Cryogenic or Cryo Blast Cooling	\$254.00
19239-65507	Valve	Valve Assembly - for N2 Cryo Blast Cooling.	\$413.00
19239-65517	Valve	Valve Assembly - for N2 Cryogenic Cooling	\$329.00

## Packed Column Inlet

19243-80500	Base	Inlet Base Structure (Heated Block Weldment) - Main Body	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
19243-60500	Hardware	Septum Nut Assembly - Screws on Top of Inlet	\$59.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8728	Septa	3/8 Inch Gray Septa - for the Packed Column Inlet (24/Pkg)	\$30.00

## Septum-Purged Inlet

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19243-80560	Base	Inlet Base Structure (Base Weldment)	\$318.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
5080-8732	Liner	Glass Liner - for the Septum-Purged Inlet (25/Pkg)	\$34.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8896	Septa	11mm Gray Septa - for the Septum-Purged Inlet (24/Pkg)	\$30.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

## Split-Only Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00

## Split/Splitless Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
18740-80200	Liner	1.5mm ID Liner (Quartz) - for Direct (Splitless) Operation	\$17.00
18740-80220	Liner	2mm ID Liner (Quartz) - for Splitless Operation	\$27.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool -	\$26.00



		Generally Used for Split Operation	
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00

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5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only	\$65.00
19251-60560	Valve	Capillary Inlets (144/Pkg) Solenoid Valve Assy (with Cable) - for Inlet Flow Control	\$159.00

## TCD Detector Assembly

19232-80550	Adapter	TCD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$97.00
19232-60676	Cell	Replacement TCD Cell Assembly	\$895.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19232-60020	PC Board	TCD Detector Board	\$413.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19232-60660	Sensor	PRT 'Delta-T Sensor' Assembly (ONLY) - Includes Cable	\$61.00
19232-60725	Valve	Solenoid Switching Valve - for TCD Detector	\$217.00

## TCD Flow Manifold

19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19232-60680	Flow Manifold	TCD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines, Gas Fitting Plate, or Input Gas Line Fittings	\$445.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00
19232-60610	Restrictor	Restrictor (Black) - for 'Make-Up Gas' on Flow Manifold	\$14.80
19232-60650	Restrictor	Restrictor (Yellow) - for 'TCD Reference' on Flow Manifold	\$10.30
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (2 Used)	\$95.00

## Valve Box Assembly

19358-20520	Block	Heated Block - Interior 'Block' of Valve Box (2 Used)	\$43.45
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly (2 Used Per Valve)	\$1.65
0380-1102	Hardware	Threaded Hex Standoff (4 Used for Each Heated Block)	\$ .95
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$ .30
0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$593.00

\* = Exchange Part

= Call (800) 227-8164 for volume discount



## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP CHROMATOGRAPHS

## HP GAS CHROMATOGRAPH

(5890A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>ECD Detector Assembly</b>				
19233-80565	Adapter	ECD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$177.00	
19233-80510	Base	Base Structure (Heated Block Weldment) - of ECD Detector	\$111.00	
19233-89570	ECD Assembly	ECD Assembly Replacement (General License)	\$940.00	
19235-89530	ECD Assembly	ECD Assembly Replacement (Specific License)	\$940.00	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
05890-81140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19233-60600	Interconnect	Signal Interconnect Assy - from ECD Detector to PC Board	\$101.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>ECD Flow Manifold</b>				
19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19233-60610	Flow Manifold	ECD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$286.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00	
<b>FID Detector Assembly</b>				
19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00	
19231-60690	Collector	FID Collector Assembly - Top Half of Detector	\$177.00	
19231-60025	Diode Bridge	Diode Bridge/Cable Assembly - Attaches to Ignitor Assembly	\$44.50	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
05890-81140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19231-60680	Ignitor	Ignitor (Glow Plug) Assy - Screws into Collector Assy	\$36.00	
19231-60710	Interconnect	Signal Interconnect Assy - from FID Detector to PC Board	\$90.00	
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00	
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00	
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00	
19231-60010	PC Board	FID Detector Board	\$477.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00	
<b>FID Flow Manifold</b>				
19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19231-60750	Flow Manifold	FID Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$445.00	
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00	
19231-60610	Restrictor	Restrictor (Brown) - for 'Air' on Flow Manifold	\$10.60	
19231-60770	Restrictor	Restrictor (Red) - for 'Hydrogen' on Flow Manifold	\$15.40	
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90	
19231-20540	Valve	'On/OFF' Valve - for Flow Manifold (2 Used)	\$21.20	
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60	
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00	
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<b>FPD Detector Assembly</b>				
19256-80000	Filter	393nm Filter - for Sulfur	\$293.00	
19256-80010	Filter	525nm Filter - for Phosphorus	\$293.00	
0854-0141	Glow Plug	Glow Plug (1.5V) - Screws in to the Left Side of the Block Weldment	\$19.00	
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20	
19256-80540	Heater	Heater Assembly - for Lower Heated Block on Detector	\$159.00	
05890-81140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00	
19256-80590	Liner/Ferrule	Gigabore Liner and Ferrule - Mounts in the Transfer Tube (in the Lower Heated Block)	\$69.00	
19256-60010	PC Board	FPD Detector Board	\$583.00	
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - for Upper Heated Block	\$82.00	
19256-20730	Tube	Drip Tube (Rubber) - Attaches to the Exit Tube (at the Top of the Block Weldment)	\$31.00	
19256-60510	Tube	Photo-Multiplier Tube (PMT) Assy - with Tube Body & End Cap	\$1,700.00	
61535-80050	Tube	Photo-Multiplier Tube (PMT) (ONLY)	\$600.00	
19256-80030	Window	First Heat Shield Window - Between the Heat Shield Disk (Behind the Stainless Steel Coupling) and the Block Weldment	\$30.00	
19256-80060	Window	Second Heat Shield Window - Between the Flange Adapter and the Stainless Steel Coupling	\$31.00	
<b>FPD Flow Manifold</b>				
19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00	
19256-60630	Flow Manifold	FPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$466.00	



5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-20550	Valve	'Ignition' Valve - for Flow Manifold (1 Used)	\$27.60
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

GC Mainframe Case Parts

05890-00390	Cover	Rear Cover - also Covers Back Top Half of Oven (L-Shaped)	\$103.00
05890-40120	Cover	Right Side Top Cover (L-Shaped) - Over Electronics Area	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
05890-40130	Door	Left Side (Flow) Panel Door	\$29.70
05890-40100	Panel	Left Side (Flow) Panel	\$77.00
05890-40110	Panel	Right Side (Electronics) Panel	\$69.00

GC Mainframe Electronics

05890-61340	Cable	Extender Cable - for Connecting the New Style (System II) Main Board in Older 5890A's (Serial Number Prefix <math>\neq 2916A</math>)	\$58.00
19257-60500	Cable	Dual Interface Cable - from Communications Bd to Rear Panel	\$14.30
05890-40080	Connector	Connector Body - Supports the Connector Element Between the Keyboard Bezel and the Display PC Board	\$8.20
1252-5289	Connector	Connector Element (Elastomeric) - Interconnects the Keyboard Bezel Assembly and the Display PC Board	\$7.25
2110-0054	Fuse	Fuse - 15A, 250V - F1 on 05890-60060 and F3/F4 on 05890-60070 AC Power Supply Boards	\$ .95
2110-0098	Fuse	Fuse - 20A, 250V - F1 on 05890-60050 AC Power Supply Board	\$1.00
2110-0422	Fuse	Fuse - 6.25A, 250V - F2 on 05890-60050 or 05890-60060 and F1/F2 on 05890-60070 AC Power Supply Boards	\$ .95

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05890-00220	IC ROM	EPROM for Main Board - for Series I ONLY	\$31.00
05890-60740	Keyboard	Keyboard Bezel Assembly - Face Plate with Soft-Touch Keypad - Does NOT Include the Display PC Board	\$148.00
05890-60035	PC Board	Display Board - Includes Display Readout and Ribbon Cable	\$170.00
05890-60050	PC Board	AC Power Supply Board - for 120V Operation in USA/Canada	\$307.00
05890-60060	PC Board	AC Power Supply Board - for 220V/240V Operation in the UK/Europe (Including Denmark and Switzerland)/Australia/China/South Africa	\$297.00
05890-60070	PC Board	AC Power Supply Board - for 200V/220V/240V Operation in USA/Canada/Japan/220V Split-Phase in Europe	\$339.00
* 05890-69015	PC Board	Main Board (Works in Both Series I and II GC's) - Must Also Order EPROM (IC ROM) - Note: if Updating to a New Board and Serial Number Prefix is <math>\neq 2916A</math> Also Order Extender Cable	\$690.00
19242-60015	PC Board	INET Communications Board (Buffered)	\$392.00
19242-60030	PC Board	RS-232C Communications Board	\$519.00
19257-60015	PC Board	RS-232C/HP-IB Dual Interface Communications Board	\$260.00
19257-60020	PC Board	Dual Interface (RS-232C/HP-IB) Rear Panel Connector Board	\$244.00
19261-60010	PC Board	Analog Input Communications Board	\$339.00
05890-60070	Power Cord	Power Cord (Hard Wired) - for 120V Operation in USA/Canada	\$26.50
05890-60080	Power Cord	Power Cord (Hard Wired) - for 220V Operation in European Countries (Including Denmark and Switzerland)	\$63.60
05890-60090	Power Cord	Power Cord (Hard Wired) - for 220V/240V Operation in the UK/South Africa	\$138.00
05890-60900	Power Cord	Power Cord (Hard Wired) - for 240V Operation in USA/Canada	\$180.00
05890-60910	Power Cord	Power Cord (Hard Wired) - for 240V Operation in Australia/New Zealand/China	\$111.00
05890-60920	Power Cord	Power Cord (Hard Wired) - for 200V Operation in Japan	\$186.00
05890-60960	Power Cord	Power Cord (Hard Wired) - for 220V Split-Phase Operation in European Countries	\$55.70
3101-0402	Switch	Power Switch - Mounts on Lower Right Side	\$8.00
05890-60970	Transformer	Power Transformer Assy - for 120V Operation in USA/Canada	\$239.00
05890-60990	Transformer	Power Transformer Assembly - for 200V Operation in Japan	\$180.00
05890-60990	Transformer	Power Transformer Assy - for 220V Operation in the UK/China/Europe (Including Denmark & Switzerland)/Europe Split-Phase	\$244.00
05890-61000	Transformer	Power Transformer Assembly - for 240V Operation in USA/Canada/Australia/South Africa	\$228.00

Interconnecting Cables

05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 7m	\$58.00
05890-60780	Cable	Analog Signal Cable - to HP 3388A Integrator - 2m	\$85.00
05890-60790	Cable	Analog Signal Cable - to HP 3350 Series Lab System - 2m	\$122.00
05890-60800	Cable	Analog Signal Cable - General Purpose (Spade Lugs) - 2m	\$106.00
05890-61050	Cable	Remote Start/Stop Cable - to HP 3390A Integrator - 2m	\$93.00
05890-61060	Cable	Remote Start/Stop Cable - to HP 3392/93A Integrator - 2m	\$101.00
05890-61070	Cable	Remote Start/Stop Cable - to HP 3350 Series Lab System - 2m	\$101.00
05890-61080	Cable	Remote Start/Stop Cable - General Purpose (Spade Lugs) - 2m	\$122.00
05890-61160	Cable	Remote Start/Stop Cable - to HP 18652A Interface Module - 2m	\$127.00
05890-61170	Cable	Remote Start/Stop Cable - to HP 3388A Integrator - 2m	\$127.00
05890-61180	Cable	Remote Start/Stop Cable - to HP 18762A Sample Cntlr - 2m	\$65.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-TI/INFT (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

Manuals, Tools & Supplies





Part Number	Description	Item Description	Price
8710-1346	Brush	Cleaning Brush - for the FID Collector (Set of 2)	\$8.00
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05890-90100	Card	5890A Quick Reference Card (English)	\$7.00
05890-91100	Card	5890A Quick Reference Card (German)	\$17.00
05890-92100	Card	5890A Quick Reference Card (French)	\$17.00
05890-94100	Card	5890A Quick Reference Card (Spanish)	\$17.00
9301-0995	Cleaning Kit	Cleaning Kit - for Flame Detectors	\$32.00
5180-4150	Cleaning Wire	Cleaning Wire - for 0.03in ID Jets (5/Pkg)	\$8.00
5180-4152	Cleaning Wire	Cleaning Wire - for 530u and 0.018in ID Jets (5/Pkg)	\$14.00
5180-4153	Cleaning Wire	Cleaning Wire - for Capillary Inlets (5/Pkg)	\$8.00
05890-90110	Manual	5890A Reference Manual (Instruction and Service)	\$208.00
05890-90140	Manual	5890A Accessory Manual	\$11.70
05890-91110	Manual	5890A Reference Manual (Instruction and Service) (German)	\$221.00
05890-92110	Manual	5890A Reference Manual (Instruction and Service) (French)	\$216.00
05890-94110	Manual	5890A Reference Manual (Instruction and Service) (Spanish)	\$216.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19251-00100	Tool	Septa Wrench - for Ease in Removing Septum Retainer Nut	\$24.00
19301-00150	Tool	FID Wrench - for Removing Retainer Nut	\$8.00
H2603-90006	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS)	\$195.00
H2603-90007	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS)	\$95.00
H2603-90008	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - NTSC Format (VHS) (in Spanish)	\$95.00
H2603-90009	Video Tape	5890 Series Gas Chromatograph Troubleshooting & Maintenance Video - PAL Format (VHS) (in Spanish)	\$95.00

## NPD Detector Assembly

19231-80580	Base	Base Structure (Heated Block Weldment) - Main Body	\$424.00
19234-80510	Body	Body Assy - Connects to Toroid Assy - on Top of Detector	\$106.00
19234-80540	Collector	Collector Assembly - Center 'Core' of Detector	\$131.00
19234-20610	Contact	Upper Contact - for Toroid Assy - on Top of Detector	\$75.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19231-60710	Interconnect	Signal Interconnect Assy - from NPD Detector to PC Board	\$90.00
18710-20119	Jet	Jet - for Packed Columns - 0.018in ID	\$42.00
18789-80070	Jet	Jet - for Simulated Distillation - 0.030in ID	\$42.00
19244-80560	Jet	Jet - for Capillary Columns - 0.011in ID	\$50.00
19234-60012	PC Board	NPD Detector Board	\$557.00
5080-8872	Recoating Kit	NPD Detector Recoating Kit - Sufficient for 10 Collectors	\$123.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19234-80580	Toroid	Toroid Assy (ONLY) - Connects to Detector Contact and Body	\$223.00
19234-60750	Toroid/Spacer	Toroid/Spacer Assembly - Includes Cable	\$164.00

## NPD Flow Manifold

19231-20520	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19234-60650	Flow Manifold	NPD Flow Manifold Assembly - Controls Gas Flow to the Detector - Does NOT Include Gas Lines or Gas Fitting Plate	\$413.00
5061-5867	O-Ring	Valve O-Ring - for Flow Manifold Valves (12/Pkg)	\$14.00
19234-60570	Restrictor	Restrictor (Green) - for 'AUX' on Flow Manifold	\$15.90
19234-60600	Restrictor	Restrictor (Green and Brown) - for 'Air' on Flow Manifold	\$20.10
19234-60660	Restrictor	Restrictor (Blue) - for Flow Manifold	\$15.90
19231-20530	Valve	'Plug' Valve - for Flow Manifold (1 Used)	\$15.40
19231-20540	Valve	'On/Off' Valve - for Flow Manifold (2 Used)	\$21.20
19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (1 Used)	\$95.00

## Oven Compartment Assembly

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05890-80270	Blade	Fan Blade (Stainless Steel) - for the Oven Compartment	\$50.00
19247-60510	Deflector	Oven Exhaust Deflector - Mounts on Back of Oven Compartment	\$112.00
05890-61615	Heater	Oven Heater Shroud Assy (120V) - has Element, Plate, & Cable	\$154.00
05890-61625	Heater	Oven Heater Shroud Assy (200V) - has Element, Plate, & Cable	\$154.00
05890-61635	Heater	Oven Heater Shroud Assy (220V) - has Element, Plate, & Cable	\$154.00
05890-61645	Heater	Oven Heater Shroud Assy (230V) - has Element, Plate, & Cable	\$154.00
05890-61655	Heater	Oven Heater Shroud Assy (240V) - has Element, Plate, & Cable	\$154.00
19239-20550	Insulation Kit	Sound Insulation Kit (Includes all Five Pieces) - for any of the Cryogenic Valves in the Oven Compartment	\$63.60
05890-60940	Motor	Stepper Motor - for Oven Flap Assembly	\$90.00
05890-67020	Motor	Oven Fan Motor Replacement Kit - for 120V Operation	\$212.00
05890-67030	Motor	Oven Fan Motor Replacement Kit - for 200V to 240V Operation	\$249.00
19239-80505	Nozzle	CO2 Cryogenic Nozzle	\$55.65
19239-80535	Nozzle	N2 Cryo Blast Nozzle	\$111.00
19245-80550	Nozzle	CO2 Cryo Blast Nozzle	\$79.50
19310-20500	Nozzle	N2 Cryogenic Nozzle	\$38.20
05890-61030	Sensor	Oven Sensor Assembly - Mounts on Heater Shroud	\$98.00
05890-80560	Shaft	Oven Flap Shaft Assembly - with 2 Round Flapper Pads	\$69.00
19239-60545	Valve	Valve Assembly - for CO2 Cryogenic or Cryo Blast Cooling	\$254.00
19239-65507	Valve	Valve Assembly - for N2 Cryo Blast Cooling	\$413.00
19239-65517	Valve	Valve Assembly - for N2 Cryogenic Cooling	\$329.00

## Packed Column Inlet



19243-80500	Base	Inlet Base Structure (Heated Block Weldment) - Main Body	\$350.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
19243-60500	Hardware	Septum Nut Assembly - Screws on Top of Inlet	\$59.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8728	Septa	3/8 Inch Gray Septa - for the Packed Column Inlet (24/Pkg)	\$30.00

## Septum-Purged Inlet

19243-80560	Base	Inlet Base Structure (Base Weldment)	\$318.00
19362-60565	Controller	Mass Flow Controller (0-20 mL/min.) - for Inlet Flow Control	\$227.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
5080-8732	Liner	Glass Liner - for the Septum-Purged Inlet (25/Pkg)	\$34.00
19361-60566	Pressure Gauge	Pressure Gauge - 0 to 100 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
5080-8896	Septa	11mm Gray Septa - for the Septum-Purged Inlet (24/Pkg)	\$30.00
19243-80570	Top Insert	Top Insert Weldment - Screws on Top of Inlet Base Structure	\$118.00

## Split-Only Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00

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18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00

## Split/Splitless Inlet

19251-80570	Base	Inlet Base Structure (Shell Weldment) - Main Block	\$191.00
19362-60575	Controller	Mass Flow Controller (0-400 mL/min.) - for Inlet Flow Control	\$227.00
18740-20800	Hardware	Reducing Nut - Screws on Retaining Nut - on Bottom of Inlet	\$30.00
18740-60830	Hardware	'Septa' Retainer Nut - Screws on Top of Insert Assembly	\$34.00
19251-20620	Hardware	Retaining Nut - Screws on Bottom of Inlet Base	\$24.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19251-60575	Insert	Insert Assembly - 'Nut' Shaped Piece with 2 Gas Lines	\$194.00
18740-60840	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - for Split-Packed Operation	\$46.00
18740-80190	Liner	4mm ID Liner (Borosilicate) - No Packing - for Split-Unpacked Operation	\$41.00
18740-80200	Liner	1.5mm ID Liner (Quartz) - for Direct (Splitless) Operation	\$17.00
18740-80220	Liner	2mm ID Liner (Quartz) - for Splitless Operation	\$27.00
19251-60540	Liner	4mm ID Liner (Borosilicate) - Packed with Glass Wool - Generally Used for Split Operation	\$26.00
19320-60656	Pressure Gauge	Pressure Gauge Kit - 0 to 30 PSI - for Inlet Flow Control	\$73.00
19246-60530	Regulator	Purge Pressure Regulator - for Inlet Flow Control	\$117.00
19246-60570	Regulator	Back Pressure Regulator (0-30 PSI) - for Inlet Flow Control	\$144.00
5080-8894	Septa	11mm Gray Septa - for the Split/Splitless or Split-Only Capillary Inlets (144/Pkg)	\$65.00
19251-60560	Valve	Solenoid Valve Assy (with Cable) - for Inlet Flow Control	\$159.00

## TCD Detector Assembly

19232-80550	Adapter	TCD 'Make-Up Gas' Adapter - Screws on Bottom of Detector	\$97.00
19232-60676	Cell	Replacement TCD Cell Assembly	\$895.00
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19232-60010	PC Board	TCD Detector Board	\$557.00
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19232-60660	Sensor	PRT 'Delta-T Sensor' Assembly (ONLY) - Includes Cable	\$61.00
19232-60725	Valve	Solenoid Switching Valve - for TCD Detector	\$217.00

## TCD Flow Manifold

19232-20500	Block	Flow Manifold Block - 'Cube' Shaped Structure (ONLY)	\$95.00
19232-60680	Flow Manifold	TCD Flow Manifold Assembly - Controls Gas Flow to the	\$445.00



5061-5867	O-Ring	Detector - Does NOT Include Gas Lines, Gas Fitting Plate, or Input Gas Line Fittings	
19232-60610	Restrictor	Valve O-Ring - for Flow Manifold (4 Used Per Valve) (12/Pkg)	\$14.00
19232-60650	Restrictor	Restrictor (Black) - for 'Make-Up Gas' on Flow Manifold	\$14.80
		Restrictor (Yellow) - for 'TCD Reference' on Flow Manifold	\$10.30

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19231-60650	Valve	'Needle' Valve Assembly - for Flow Manifold (2 Used)	\$95.00
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## Valve Box Assembly

19358-20520	Block	Heated Block - Interior 'Block' of Valve Box (2 Used)	\$43.45
0100-1205	Fitting	1/8 Inch Hose Fitting - for the Valve Actuator Assembly (2 Used Per Valve)	\$1.65
0380-1102	Hardware	Threaded Hex Standoff (4 Used for Each Heated Block)	\$ .95
19231-60620	Heater	70W Heater Assembly (ONLY) - Includes Cable	\$39.20
05890-61140	Heater/Sensor	Heater/Sensor Assy - Includes Heater, PRT Sensor, and Cable	\$201.00
19325-80010	Link	Link - from Piston Rod to Valve - for Valve Actuator	\$42.40
0905-0103	O-Ring	Piston Rod O-Ring (0.239In ID) - for Valve Actuator Assembly	\$7.00
0905-0626	O-Ring	Piston O-Ring (1.046In ID) - for Valve Actuator Assembly	\$ .30
0905-0997	O-Ring	Cylinder End Cap O-Ring (1.176In ID) - for Valve Actuator	\$ .45
1480-0632	Pin	Quick Release Pin (With Pull Ring) - for the Valve Actuator	\$12.00
19325-20640	Piston	Piston - for the Valve Actuator Assembly	\$45.60
19325-20650	Rod	Piston Rod - for the Valve Actuator Assembly	\$21.70
19231-60660	Sensor	PRT Sensor Assembly (ONLY) - Includes Cable	\$82.00
19325-60660	Valve Actuator	Valve Actuator Assembly (1 Used for Each Valve)	\$593.00

\* = Exchange Part

# = Call (800) 227-8164 for volume discount



## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP AUTO SAMPLERS

## HP AUTO SAMPLER

(7673A)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Auto Injector Case Parts</b>				
07673-40075	Cover	Back Cover - for Injector Tower Assembly	\$45.00	
07673-60860	Cover	Front Cover Assy - for Injector Tower - Includes Access Door	\$101.00	
07673-60725	Housing	Electronics Housing Assy - Includes Both Side Covers & Hinge	\$55.65	
07673-40210	Panel	Front Door Panel - for Injector Electronics Housing Assembly	\$40.30	
<b>Auto Injector Electronics</b>				
07673-60690	Cable	Ribbon Cable - from Main Injector Board to Sensor Board	\$37.10	
1820-5925	IC	68000 Processor MCU IC - on Injector Electronics Board	\$32.90	
07673-60620	Motor	Plunger Motor - in Top of Injector Tower Assembly	\$286.00	
07673-60810	Motor	Turret Motor - Rotates Turret Assembly	\$159.00	
07673-60890	Motor	Syringe Carriage Drive Motor - in Middle of Injector Tower	\$186.00	
07673-60020	PC Board	Injector Logic Board - Mounts in Electronics Housing Assy	\$610.00	
07673-60030	PC Board	Front Panel Board - on Front of Injector Electronics Housing	\$490.00	
G1513-60010	PC Board	Sensor Board - Mounts on Upper Part of Syringe Carriage Assy	\$63.60	
07673-60590	Sensor	Syringe Carriage and Turret 'Home' Sensors - Includes Cable	\$111.00	
<b>Auto Injector Mechanics</b>				
1500-0675	Belt	Plunger Carrier Belt - for Syringe Plunger Operation	\$1.65	
1500-0676	Belt	Syringe Carriage Belt - Main Belt in Injector Tower	\$11.50	
07673-60870	Carriage	Syringe Carriage Assy - Electromechanical Structure in Tower	\$201.00	
07673-61270	Carrier	Plunger Carrier Assy - with Belt - Holds Plunger of Syringe	\$44.50	
07673-60710	Guide	Needle Guide Assembly - Guide Arm on Turret Base	\$69.00	
07673-20570	Hardware	Thumb Screw - Holds Plunger of Syringe on Plunger Carrier	\$12.00	
07673-40150	Sample Insert	Sample Insert (White) - Non-Magnetic - for Turret Assembly	\$7.00	
07673-60610	Sample Insert	Sample Insert (Black) - Magnetic - for Turret Assembly	\$15.90	
18596-60690	Sample Insert	Coned Sample Insert (Neutral) - Magnetic - for Turret Assy	\$21.20	
07673-60600	Turret	Standard Turret Assy - Holds Sample, Waste, & Solvent Vials	\$45.00	
<b>Controller Case Parts</b>				
07940-40047	Cover	Top Cover Assembly (U-Shaped) - Includes Top and Both Sides	\$32.90	
5041-1203	Keypad	Keypad (White) - for the Power Switch	\$1.00	
<b>Controller Electronics</b>				
9135-0248	Drum	'Voltage Select' Drum - in Power Module Assembly	\$2.00	
2110-0083	Fuse	Fuse - 2.5A, 250V - for 100V/120V Operation	\$1.00	
2110-0303	Fuse	Fuse - 2A, 250V - for 220V/240V Operation	\$1.05	
18594-60015	PC Board	Power Supply/Mother Board	\$660.00	
18594-60070	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot	\$580.00	
* 18594-69015	PC Board	Power Supply/Mother Board	\$660.00	\$498.00
* 18594-69070	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot	\$580.00	\$295.00
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	
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* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	\$287.00
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00	
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America	\$10.00	
		Korea/Taiwan/Thailand - 7.5ft, Straight		
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00	
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50	
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50	
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50	
18594-60640	Power Module	Power Module Assy - Includes Power Receptacle, Drum, & Fuses	\$79.50	
3101-0680	Switch	Pushbutton Power Switch - Mounted on Power Supply Board	\$10.50	
18594-60550	Transformer	Power Transformer Assembly	\$148.00	
<b>Controller Interfaces</b>				
18594-60030	PC Board	HP-IL Interface Board - Plugs in 'COMM' Slot	\$254.00	
18594-60040	PC Board	TTL Interface Board - Plugs in the 'COMM' (or 'AUX') Slot	\$350.00	
18594-60050	PC Board	Controller Board (with Interface Specific for 5880A) - Plugs in the 'CONT' Slot	\$276.00	
18594-60080	PC Board	RS-232C Interface Board - Plugs in the 'COMM' Slot	\$445.00	
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	
* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00	\$287.00
<b>Interconnecting Cables</b>				
05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00	
18594-60500	Cable	Remote Cable - from 7673x Controller Module to 3392A or 3393A Integrator	\$93.00	
18594-60510	Cable	BCD Cable - from 7673x Controller Module to 3392A or 3393A	\$122.00	





		Integrators	
18594-60570	Cable	Remote Cable - 7673x Controller Module to 5890A GC	\$74.00
19321-60510	Cable	Control Cable - from 7673x Controller Module to 5880A	\$106.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

## Other Accessories

07673-60980	Manual	7673A Automatic Sampler Service Manual	\$58.00
07673-60995	Manual	7673B Automatic Sampler Operating Manual (Can Also Be Used for the 7673A)	\$47.00
07673-91100	Manual	7673A Automatic Sampler Operating and Service Manual (German) - for Sale in Europe ONLY	\$85.00
07673-92100	Manual	7673A Automatic Sampler Operating and Service Manual (French) - for Sale in Europe ONLY	\$49.00
18594-90300	Manual	7673A Automatic Sampler with RS-232C Interface Manual	\$29.00
9301-0713	Syringe	10uL Syringe - with 23 Gauge Needle - for Split/Splitless	\$36.00
9301-0714	Syringe	10uL Syringe - with 26 Gauge Needle - for On Column	\$36.00

## Tray Module Case Parts

18596-20720	Cover	Right Half Cover - for Tray Arm Assembly	\$106.00
18596-60520	Cover	Left Half Cover - for Tray Arm Assembly	\$445.00

## Tray Module Electronics

18596-60580	Motor	'Z' Drive Motor Assembly - in Arm of Tray Module	\$117.00
18596-60595	Motor	'Theta' Motor - for Updated Tray Modules ONLY	\$159.00

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10596-60600	Motor	'R' Drive Motor - Smaller of 2 Motors in the Base Assembly of Tray Module (Attached Drive Gear Faces Toward the Bottom)	\$159.00
18596-60075	PC Board	Termination Board - for Updated Tray Modules ONLY	\$254.00

## Tray Module Mechanics

1500-0681	Belt	Gripper Drive Belt - in Arm of Tray Module	\$9.30
1500-0682	Belt	'Z' Drive Belt - in Arm of Tray Module (Longer of 2 Belts)	\$6.75
18596-60700	Gripper	Gripper 'Z' Flex Assy - Inside Gripper in Arm of Tray Module	\$276.00
18596-40015	Tray	Sample Tray Quadrant - 'Pie' Shaped (Sold as a Set of 4)	\$64.00

\* = Exchange Part

\* = Call (800) 227-8164 for volume discount



## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP AUTO SAMPLERS

## HP AUTO SAMPLER

(7673B)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	#	LIST PRICE	EXCHANGE PRICE
<b>Auto Injector Case Parts</b>					
07673-40076	Cover	Back Cover - for Injector Tower Assembly		\$36.00	
07673-60065	Cover	Front Cover Assembly (U Shaped) - for Injector Tower - Includes Syringe Carriage Access Door		\$53.00	
07673-60726	Housing	Electronics Housing Assembly - Includes Both Side Cover Shells, the Hinge, and Screws		\$55.65	
07673-40215	Panel	Front Door Panel - for Injector Electronics Housing Assembly		\$32.90	
<b>Auto Injector Electronics</b>					
07673-60645	Cable	Injector Cable - from 7673x Controller Module to the Main Board in the Electronics Housing (on the Injector Tower)		\$127.00	
07673-60690	Cable	Ribbon Cable - from Main Injector Board to Sensor Board		\$37.10	
35900-60520	Fan	Fan Assembly - Mounts in Top of Injector Tower Assembly		\$39.20	
07673-60620	Motor	Plunger Motor - in Top of Injector Tower Assembly		\$286.00	
07673-60810	Motor	Turret Motor - Rotates Turret Assembly		\$159.00	
07673-60890	Motor	Syringe Carriage Drive Motor - in Middle of Injector Tower		\$186.00	
07673-61261	PC Board	Injector Main Logic and Front Panel Boards - as a Set		\$850.00	
* 07673-69261	PC Board	Injector Main Logic and Front Panel Boards - as a Set		\$850.00	\$477.00
G1513-60010	PC Board	Sensor Board - Mounts on Upper Part of Syringe Carriage Assy		\$63.60	
07673-60590	Sensor	Syringe Carriage and Turret 'Home' Sensors - Includes Cable		\$111.00	
07673-61420	Switch	Micro-Switch - For Detecting A Correctly Mounted Injector - Mounts on the Lower Left Side of the Back Plate/Base Assy		\$24.90	
07673-61430	Switch	Micro-Switch - For Detecting Open Injector Door - Mounts in Front Cover (Above the Door)		\$24.40	
<b>Auto Injector Mechanics</b>					
07673-60855	Back Plate/Base Assy	Back Plate/Base Assembly - Main Structure of Injector Tower		\$186.00	
1500-0675	Belt	Plunger Carrier Belt - for Syringe Plunger Operation		\$1.65	
1500-0676	Belt	Syringe Carriage Belt - Main Belt in Injector Tower		\$11.50	
07673-80535	Carriage	Syringe Carriage Assembly - Includes the Syringe Carriage Assembly, Needle Support Guide, Stripper Arm Assembly, and Instructions - Major Electromechanical Structure in Tower		\$265.00	
07673-61275	Carrier	Plunger Carrier Assy (with Belt) - Holds Plunger of Syringe		\$63.60	
07673-61145	Cone Arm Kit	Cone Arm Kit - Replacement for Bottle Stripper Arm (Swivel Arm on Turret Base Assembly)		\$207.00	
07673-20570	Hardware	Thumb Screw - Holds Plunger of Syringe on Plunger Carrier		\$12.00	
See Description	Holder	Syringe Holder Assembly - Order Back Plate/Base Assembly		\$ .00	
07673-20690	Pulley	Idler Pulley - Top Pulley for the Syringe Carriage Belt - Mounts in the Top of the Injector Tower		\$30.70	
07673-40150	Sample Insert	Sample Insert (White) - Non-Magnetic - for Turret Assembly		\$7.00	
07673-60610	Sample Insert	Sample Insert (Black) - Magnetic - for Turret Assembly		\$15.90	
18596-60690	Sample Insert	Coned Sample Insert (Neutral) - Magnetic - for Turret Assy		\$21.20	
See Description	Support	Needle Support Guide - Order Syringe Carriage Assembly		\$ .00	
07673-60605	Turret	Standard Turret Assy - Holds Sample, Waste, & Solvent Vials		\$37.10	
Page: 1					
<b>Controller Case Parts</b>					
18594-80525	Chassis	Chassis Assembly (Shell) - Internal Metal Structure for the Controller Module Assembly		\$154.00	
07940-40047	Cover	Top Cover Assembly (U-Shaped) - Includes Top and Both Sides		\$32.90	
0403-0424	Foot	Rubber Foot - Mounts to the Bottom of the Chassis (4 Used)		\$ .45	
5041-1203	Keycap	Keycap (White) - for the Power Switch		\$1.00	
07940-60044	Panel	Front Panel Bezel (Plastic) - for the Controller Module Assy		\$42.50	
18594-00116	Plate	Blank Cover Plate - For Covering Rear Panel Empty Optional Board Slots		\$10.60	
<b>Controller Electronics</b>					
9135-0248	Drum	'Voltage Select' Drum - in Power Module Assembly		\$2.00	
35900-60520	Fan	Fan Assy - Mounts to the Rear Panel of the Controller Module		\$39.20	
2110-0083	Fuse	Fuse - 2.5A, 250V - for 100V/120V Operation		\$1.00	
2110-0303	Fuse	Fuse - 2A, 250V - for 220V/240V Operation		\$1.05	
2110-0686	Fuseholder	Fuseholder (White) - for 120V or 240V Operation		\$2.05	
18594-60075	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot		\$498.00	
18594-60135	PC Board	Power Supply/Mother Board		\$558.00	
* 18594-69075	PC Board	Tray Controller Board - Plugs in 'TRAY' Slot		\$498.00	\$255.00
* 18594-69135	PC Board	Power Supply/Mother Board		\$558.00	\$450.00
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot		\$499.00	
* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot		\$499.00	\$287.00
18594-60110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot		\$795.00	
* 18594-69110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot		\$795.00	\$580.00
18594-60050	PC Board	Controller Board (with Interface Specific for 5880A) - Plugs		\$276.00	



8120-1351	Power Cord	Power Cord (Gray) 17 AWG - 240V in the UK/Hong Kong/Singapore/Malaysia - 2.3m, Straight	\$26.00
8120-1369	Power Cord	Power Cord (Gray) - 240V Australia/New Zealand/China - 2.0m	\$18.00
8120-1378	Power Cord	Power Cord (Gray) 18 AWG - 120V USA/Canada/Latin America Korea/Taiwan//Thailand - 7.5ft, Straight	\$10.00
8120-1689	Power Cord	Power Cord (Gray) - for 220V in Europe - 2.0m, Straight	\$22.00
8120-2104	Power Cord	Power Cord (Gray) - for 220V in Switzerland - 2.0m, Straight	\$13.50
8120-2956	Power Cord	Power Cord (Gray) - for 220V in Denmark - 2.0m, Straight	\$16.50
8120-4211	Power Cord	Power Cord (Gray) - 240V in S. Africa/India - 2.0m, Straight	\$19.50
18594-60640	Power Module	Power Module Assy - Includes Power Receptacle, Drum, & Fuses	\$79.50
18594-60550	Transformer	Power Transformer Assembly	\$148.00

Controller Interfaces

18594-60030	PC Board	HP-IL Interface Board - Plugs in 'COMM' Slot	\$254.00
18594-60080	PC Board	RS-232C Interface Board - Plugs in the 'COMM' Slot	\$445.00
18594-60090	PC Board	LOOP Interface Board - Plugs in the 'COMM' Slot	\$456.00
18594-60040	PC Board	TTL Interface Board - Plugs in the 'COMM' (or 'AUX') Slot	\$350.00
18594-60100	PC Board	Bar Code Reader Board - Plugs in the 'AUX' Slot	\$850.00
* 18594-69100	PC Board	Bar Code Reader Board - Plugs in the 'AUX' Slot	\$850.00 \$350.00
18594-60040	PC Board	TTL Interface Board - Plugs in the 'AUX' (or 'COMM') Slot	\$350.00
18594-60060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00
* 18594-69060	PC Board	Standard Controller Board - Plugs in the 'CONT' Slot	\$489.00 \$287.00
18594-60110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot	\$795.00
* 18594-69110	PC Board	Controller/HP-IB Interface Board - Plugs in 'CONT' Slot	\$795.00 \$580.00
18594-60050	PC Board	Controller Board (with Interface Specific for 5880A) - Plugs in the 'CONT' Slot	\$276.00

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Interconnecting Cables

05890-60760	Cable	Analog Signal Cable - to HP 3390/3392A Integrator - 2m	\$58.00
03396-60550	Cable	Remote Cable - 7673x Controller Module to 3396x Integrator	\$66.30
18594-60500	Cable	Remote Cable - from 7673x Controller Module to 3392A or 3393A Integrator	\$93.00
18594-60570	Cable	Remote Cable - 7673x Controller Module to 5890A GC	\$74.00
18594-60590	Cable	Remote 'Y' Cable - from 7673x Controller Module to the 5890A GC and 3390A Integrator	\$154.00
18594-60600	Cable	Remote 'Y' Cable - from 7673x Controller Module to 57xxA Series GC and 3390A Integrator	\$191.00
18594-60610	Cable	Remote 'Y' Cable - from 7673x Controller Module to 5890A GC and 18562A Temperature Controller	\$164.00
18594-60620	Cable	Remote 'Y' Cable - from 7673x Controller Module to 57xxA Series GC and 18562A Temperature Controller	\$180.00
18594-60630	Cable	Remote Cable - 7673x Controller Module to 57xxA Series GC	\$101.00
35900-60820	Cable	Remote 'Y' Cable - from 7673x Controller Module to 5890A GC and 35900A Dual Channel Interface	\$159.00
03396-60560	Cable	BCD Cable - from 7673x Controller Module to 3396x Integrator	\$74.20
18594-60510	Cable	BCD Cable - from 7673x Controller Module to 3392A or 3393A Integrators	\$122.00
18594-60520	Cable	BCD Cable - from 7673x Controller Module to General Purpose Connector (Spade Lugs)	\$69.00
19164-60550	Cable	BCD Cable - 7673x Controller Module to 'NELSON' Connector	\$239.00
35900-60850	Cable	BCD Cable - from 7673x Controller Module to 35900C Dual Channel Interface	\$103.00
07673-60645	Cable	Injector Cable - from 7673x Controller Module to the Main Board in the Electronics Housing (on the Injector Tower)	\$127.00
18596-60715	Cable	Tray Cable - from the 7673x Controller Module (Tray Interface Board) to the Tray Module Termination Board	\$63.60
19321-60510	Cable	Control Cable - from 7673x Controller Module to 5880A	\$106.00
82167-60001	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 0.5m	\$8.75
82167-60002	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 1.0m	\$5.50
82167-60003	Cable (Interface)	HP-IL/INET (Instrument Network) Cable Assembly - 5.0m	\$8.00

Other Accessories

07673-60995	Manual	7673B Automatic Sampler Operating Manual (Can Also Be Used for the 7673A)	\$47.00
07673-61995	Manual	7673B Automatic Sampler Operating Manual (German)	\$28.00
9301-0713	Syringe	10uL Syringe - with 23 Gauge Needle - for Split/Splitless	\$36.00
9301-0714	Syringe	10uL Syringe - with 26 Gauge Needle - for On Column	\$36.00

Tray Module Electronics

18596-60905	Arm Core/Motor Assy	Arm Core/Motor Assembly - Interior Structure with the 'Z' Drive Motor - for the Tray Arm Assembly	\$175.00
18596-60715	Cable	Tray Cable - from the 7673x Controller Module (Tray Interface Board) to the Tray Module Termination Board	\$63.60
18596-60750	Flex Circuit	'Theta' Flex Circuit Assembly - Interconnects the Turret to the Base Assembly Board (in the Tray Module)	\$101.00
18596-60915	Flex Circuit	'R' Flex Circuit Assembly - Interconnects the Sensor Board in the Tray Arm to the Turret Assembly	\$175.00
18596-60595	Motor	'Theta' Motor - Larger of 2 Motors in the Base Assembly of Tray Module (Attached Drive Gear Faces Toward the Top)	\$159.00
18596-60600	Motor	'R' Drive Motor - Smaller of 2 Motors in the Base Assembly	\$159.00



of Tray Module (Attached Drive Gear Faces Toward the Bottom)

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18596-60035	PC Board	Sensor Board ('T' Shaped) - in the Core of the Tray Arm Assy	\$127.00
18596-60075	PC Board	Termination Board (Crescent Shaped)- Mounts in the Base Assembly of the Tray Module	\$254.00
18596-60630	Sensor	Tray Sensor Assembly (Includes Cable) - Detects the Turret Position - Mounts in the Base Assembly of the Tray Module	\$63.60

## Tray Module Mechanics

1500-0803	Belt	'Z' Drive Belt - in the Tray Arm Assembly	\$6.75
18596-60945	Cover	Left and Right (Matched Halves) Cover Set - for the Tray Arm Assembly	\$41.30
18596-40181	Gear	Drive Gear - Attaches to the Bottom of the Rack Pinion Shaft (from the Turret Assembly) - Driven by the 'R' Motor	\$7.20
18596-40215	Gear	60 Tooth Gear - Driven by the 'Z' Drive Motor - in the Tray Arm Assembly	\$6.90
18596-61805	Gripper	Vial Gripper Assembly (Includes the 'Z' Guide Rod) - Mounts on the Front of the Tray Arm Assembly	\$143.00
18596-20500	Rod	Guide Rod - Mounts to the Bottom of the Tray Arm Assembly - (Vertically) Slides Through Bearings in Turret Assy (2 Used)	\$37.10
18596-60845	Shaft	Rack Pinion Shaft Assembly (Drive Shaft with Gear) - in the Center of the Turret Assembly	\$13.80
18596-40015	Tray	Sample Tray Quadrant - 'Pie' Shaped (Sold as a Set of 4)	\$64.00
18596-61000	Tray Arm Assembly	Tray Arm Assembly - Vial Selecting Apparatus on Top of the Tray Module Assembly (Includes the Vial Gripper Assembly)	\$557.00
18596-60675	Tray Base	Tray Base - Large Round Structure at the Bottom of the Tray Module	\$217.00
18596-60515	Turret Assembly	Turret Assembly - Round Mechanical Structure Between the Tray Arm and the Tray Base Assemblies	\$260.00

\* = Exchange Part

= Call (800) 227-8164 for volume discount





## HEWLETT PACKARD SERVICE PARTS IDENTIFICATION LIST

## HP DETECTORS

HP MASS SELECTIVE DETECTOR

(5970B)

Prices are in U.S. dollars  
Effective from 7/01/97 to 10/31/97

PART NUMBER	KEYWORD	DESCRIPTION	LIST PRICE	EXCHANGE PRICE
<b>Capillary Direct Intfc</b>				
05970-60031	Adapter	Gland Adapter (for Use with 5790 GC) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$509.00	
05970-60033	Adapter	Gland Adapter (for Use with 5880 GC) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$498.00	
05970-60046	Adapter	Gland Adapter (for Use with 5890 GC) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$286.00	
05970-20033	Body	Interface Body (Sleeve) (for Use with 5790 GC) - Largest Part of Capillary Direct Interface	\$186.00	
05970-20034	Body	Interface Body (Sleeve) (for Use with 5880 GC) - Largest Part of Capillary Direct Interface	\$207.00	
05970-20087	Body	Interface Body (Sleeve) (for Use with 5890 GC) - Largest Part of Capillary Direct Interface	\$215.00	
05970-20039	Ferrule	Guide Tube Ferrule - Provides Seal for the Guide Tube when Inserted into the Repeller of the Ion Source	\$50.00	
5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) Seals Column (from GC) at Entrance to Capillary Direct Interface (10/Pkg)	\$55.00	
5181-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of Capillary Direct Interface During Storage or Shipping (10/Pkg)	\$42.00	
0100-1145	Gasket	Nickle Gasket - for Seal Between MSD Fitting and Gland Adapter (Part of Interface)	\$8.00	
05970-60032	Guide Tube	Guide Tube Assy (for Use with 5790 GC) - Inserts into the Ion Source from the Capillary Direct Interface - When Replacing Guide Tube, Also Replace Guide Tube Ferrule	\$318.00	
05970-60034	Guide Tube	Guide Tube Assy (for Use with 5880 GC) - Inserts into the Ion Source from the Capillary Direct Interface - When Replacing Guide Tube, Also Replace Guide Tube Ferrule	\$875.00	
05970-60047	Guide Tube	Guide Tube Assy (for Use with 5890 GC) - Inserts into the Ion Source from the Capillary Direct Interface - When Replacing Guide Tube, Also Replace Guide Tube Ferrule	\$239.00	
0100-1147	Nut	Interface Nut - Secures Capillary Direct Interface to MSD Fitting	\$37.00	
05988-20066	Nut	SGE Nut - for Securing Column in Capillary Direct Interface	\$12.00	
<b>Ion Source Parts</b>				
05990-20247	Block	Contact Holder Block - 'Cubes' in the Filament Holder Assy with Threaded Screw Holes - 4 Used	\$35.00	
05995-20080	Block	Filament Block - Internal Ceramic Structure for the Filament Assembly	\$223.00	
05995-20083	Body	Ion Source Base Plate/Body - Base Plate for Lens Stack - Also Has a Flange for Mounting the Filament Assembly	\$297.00	
05995-20084	Chamber	Ion Source Chamber (Metal Cylinder with Slots) - Goes on End of Draw-Out Lens in Center of Ion Source	\$148.00	
05990-00187	Contact	Right Hand Spring Contact (V-Shaped with Flat Right Edge) - For Filament Block - 2 Used	\$30.70	
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05990-00188	Contact	Left Hand Spring Contact (V-Shaped with Flat Left Edge) - For Filament Block - 2 Used	\$30.70	
05990-21221	Dowel	Dowel Pin - Used as Support Rods for the Lens Stack Plates - 4 Used (4/Pkg)	\$348.00	
05990-60084	Filament	Welded Filament Assy (2 Contact Plates with Welded Filament Wire) - 2 Used (2/Pkg)	\$88.00	
05995-60068	Filament Assembly	Filament Assembly (Does NOT Include Entrance Nut) - Mounts on Top of Ion Source	\$742.00	
05990-21235	Hardware	Gold Plated Screw (Flat Head 4-40 x 1/4 inch Long) - Holds the Lens Stack Assy to Magnet Yoke Assy - 4 Used (12/Pkg)	\$138.00	
05990-21250	Hardware	Gold Plated Screw (1/4 inch Long) - Holds (Welded) Filament to Block - 4 Used (12/Pkg)	\$63.60	
05990-21251	Hardware	Gold Plated Cap Screw (1/8 inch Long) - Holds V-Shaped Spring Contacts to Sides of Filament Block - 4 Used (12/Pkg)	\$127.00	
05995-21086	Hardware	Gold Plated Screw (0-80 x 5/16 inch) - Holds Filament Assy (Via Repeller Housing Plate) to Ion Source - 2 Used (12/Pkg)	\$195.00	
05995-21112	Hardware	Gold Plated Screw (0-80 x 7/16 inch Long) - Holds Filament Block Assy to the Repeller Housing Plate - 2 Used (12/Pkg)	\$290.00	
2190-0049	Hardware	Lock Washer (Stainless Steel No. 0) - for Screws that Hold the Filament Assembly to the Ion Source Body - 2 Used	\$ .30	
3050-0923	Hardware	Washer (Stainless Steel No. 0) - for Screws that Hold the Filament Block Assy to the Repeller Housing Plate - 2 Used	\$ .30	
5061-5853	Hardware	Truarc Clips (Large) - Holds Lens Stack Dowel Pins to Ion Source Base Plate/Body - 4 Used (10/Pkg)	\$8.00	
5061-5871	Hardware	Spring Washer - Provides Pressure in Holding Lens Stack Together (Goes on Top of Dowel Pins) - 4 Used (10/Pkg)	\$8.00	
5181-1257	Hardware	Truarc Clips (Small) - Holds Lens Stack Assembly Together (Goes on Top of Dowel Pins) - 4 Used (10/Pkg)	\$8.00	



05990-20136	Insulator	Repeller Insulator (Vespell) - Used to Insulate the Repeller from the Repeller Housing Plate	\$79.00	
05990-20216	Insulator	Draw Out Insulator Sleeve (Ceramic) - Slides Over the Draw Out Lens (Next to the Ion Source Chamber)	\$56.00	
05970-60056	Ion Source	Ion Source Assembly (Untested) - Includes Filament Assembly, Lens Stack, and Magnet Yoke Assembly	\$3,710.00	- 2400
05990-20220	Lens	Draw Out Lens - 'T' Shaped Tube in the Back of the Ion Source Assembly (Goes in the Flange on the Ion Source Body)	\$99.00	
05970-20027	Nut	Entrance Nut (Funnel Shaped Piece) - on Top of Filament Assy	\$93.00	
05990-00196	Plate	Ion Focus Lens Plate (Flat Metal Plate with Round Center Hole) - Center Plate in Lens Stack Assembly	\$93.00	
05990-00197	Plate	Draw-Out Plate (Flat Plate with Irregular Shaped Center Hole (Contact Fingers)) - Bottom Plate in Lens Stack Assy	\$79.50	
05990-60112	Plate	Entrance Lens Plate (Flat Metal Plate with Attached Entrance Lens Cylinder) - Top Plate in Lens Stack Assembly	\$259.00	
05995-60074	Plate	Repeller Housing Plate - Mounts to Bottom of Filament Assy	\$239.00	
05970-20042	Repeller	Repeller (Metal Cylinder with Threads at one End for Entrance Nut and Flange at Other End) - Goes Through Filament Assembly (from Bottom)	\$122.00	
05990-21217	Spacer	Ceramic Spacer (Small Diameter) - Used on Dowel Pins for Spacing Between Lens Stack Plates - 12 Used (12/Pkg)	\$120.00	
05990-21218	Spacer	Ceramic Spacer (Large Diameter) - Used on Large End of Dowel Pins in Lens Stack Assembly - 4 Used (12/Pkg)	\$146.00	
05970-20041	Spool	Heater Spool - 'T' Shaped Tube Behind the Entrance Nut	\$63.60	
05995-60073	Yoke	Replacement Magnet Yoke Assy - Base Ring for Lens Stack Assy	\$558.00	
* 05995-69073	Yoke	Replacement Magnet Yoke Assy - Base Ring for Lens Stack Assy	\$558.00	\$390.00

MSD Chassis Parts

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3103-0124	Controller	Thermostatic Controller (Includes Cable and Sensor) - for Controlling Temperature of the MSD's Vacuum Cavity (The Sensor is Taped to the Vacuum Cavity)	\$175.00	
3160-0379	Fan	120V AC Fan - One Mounts to Rear Panel, the Other Next to the Turbo Pump (2 Used)	\$48.00	
0101-0561	Flow Controller	Flow Controller - Controls Purge Gas to the Open-Split Interface - Mounts to Upper Front Panel	\$320.00	
0403-0244	Foot	Foot - Attaches to Bottom of MSD Chassis (4 Used)	\$15.00	
05970-60025	Heater	Heating Strip Assy (120V) - Wraps Around MSD's Vacuum Cavity	\$286.00	
05970-60027	Heater	Heating Strip Assy (240V) - Wraps Around MSD's Vacuum Cavity	\$286.00	
0853-0067	Switch	Thermal Cutout Switch - Includes Cable and Sensor (The Sensor is Taped to the Vacuum Cavity)	\$102.00	
05970-60052	Transformer	Power Transformer Assembly - Mounts in Bottom of MSD	\$382.00	
05970-60101	Valve	Vent Valve Assembly - for Front Panel System Venting	\$270.00	

MSD Electronics

05970-60500	Controller	Old Style Pump Controller (for Both Rough and Turbo Pumps) - Controller Has Front Panel Turbo Pump Speed Meter and Push Button Pump and Heater Switches	\$3,180.00	
* 05970-69102	Controller	Old Style Pump Controller (for Both Rough and Turbo Pumps) - Controller Has Front Panel Turbo Pump Speed Meter and Push Button Pump and Heater Switches	\$3,180.00	\$1,640.00
* 05970-69129	Controller	New Style Pump Controller (for Both Rough and Turbo Pumps) - Front Panel Has AC Line/Pump and Heater/Electronics Rocker Switches (No Meters) (Switches NOT Part of Controller)	\$1,700.00	\$1,120.00
3162-0148	Controller	New Style Pump Controller (for Both Rough and Turbo Pumps) - Front Panel Has AC Line/Pump and Heater/Electronics Rocker Switches (No Meters) (Switches NOT Part of Controller)	\$1,700.00	
05970-60009	PC Board	Power Supply/Card Cage Motherboard (A9) - Large (Horizontal) Board Under Card Cage (in Top of MSD)	\$901.00	
05970-60114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	
05970-60211	PC Board	Accessory Control Board (A111) - Installed ONLY in MSD's Connected to a 5880A or an RTE Data System - Front Board in Card Cage (in Top of MSD)	\$870.00	
* 05970-69009	PC Board	Power Supply/Card Cage Motherboard (A9) - Large (Horizontal) Board Under Card Cage (in Top of MSD)	\$901.00	\$498.00
* 05970-69114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	\$390.00
* 05970-69205	PC Board	Ion Source Control Board (A5) - Next to Rear Board in Card Cage (in Top of MSD)	\$498.00	
* 05970-69211	PC Board	Accessory Control Board (A111) - Installed ONLY in MSD's Connected to a 5880A or an RTE Data System - Front Board in Card Cage (in Top of MSD)	\$870.00	\$320.00
05985-60301	PC Board	Input/Output Bd (A1) - Rear Bd in Card Cage (in Top of MSD)	\$875.00	
05985-60317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	
* 05985-69301	PC Board	Input/Output Bd (A1) - Rear Bd in Card Cage (in Top of MSD)	\$875.00	\$330.00
* 05985-69317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	\$330.00
05990-60012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	
05990-60303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	
05990-60304	PC Board	Linear Data Processor Board (A6) (for Option 410 RTE	\$1,060.00	



## Systems ONLY) - Center Board in Card Cage (in Top of MSD)

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05990-60408	PC Board	Quadrupole Driver Board (A8) - Next to Front Board in Card Cage (in Top of MSD)	\$950.00	
05990-60426	PC Board	Detector Bd (A16) - Center Bd in Card Cage (in Top of MSD)	\$498.00	
* 05990-69012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RPFA Housing Assembly	\$870.00	\$380.00
* 05990-69303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RPFA Housing Assy	\$663.00	\$403.00
* 05990-69304	PC Board	Linear Data Processor Board (A6) (for Option 410 RTE Systems ONLY) - Center Board in Card Cage (in Top of MSD)	\$1,060.00	\$690.00
* 05990-69408	PC Board	Quadrupole Driver Board (A8) - Next to Front Board in Card Cage (in Top of MSD)	\$950.00	\$489.00
* 05990-69426	PC Board	Detector Bd (A16) - Center Bd in Card Cage (in Top of MSD)	\$498.00	\$320.00
8120-0651	Power Cord	Power Cord (Gray) - for 220V in Europe - 4.5m, Stripped End	\$16.50	
8120-3330	Power Cord	Power Cord - for 220V Operation in Denmark - 2.5m, Cut End	\$37.00	
8120-5216	Power Cord	Power Cord (Black) 14 AWG - 120V USA/Canada - 78in, Lug Ends	\$27.60	
3105-0172	Switch	Front Panel Power Switch/Circuit Breaker (120V Operation) - for Older MSD (Will Have Front Panel Turbo Pump Speed Meter)	\$62.50	
3105-0173	Switch	Front Panel Power Switch/Circuit Breaker (240V Operation) - for Older MSD (Will Have Front Panel Turbo Pump Speed Meter)	\$67.50	
05970-60052	Transformer	Power Transformer Assembly - Mounts in Bottom of MSD	\$382.00	

## Manuals, Tools &amp; Supplies

5061-5896	Abrasive Sheet	Abrasive Sheets (30 Micron Aluminum Oxide) - 8.5in x 11in - for Ion Source Maintenance (5/Pkg)	\$24.00	
8500-0559	Alcohol	Isopropyl Alcohol (Filtered) - 8 oz Bottle (91% Pure)	\$135.00	
8650-0029	Cleaning Gloves	Polyester Gloves (Small) - for Working on Mass Analyzer	\$8.75	
8650-0030	Cleaning Gloves	Polyester Gloves (Large) - for Working on Mass Analyzer	\$14.00	
05990-20254	Fixture	Lens Stack Fixture Block - Securely Holds Lens Stack Assembly for Maintenance or Repair	\$122.00	
05995-60098	Fixture	Filament Fixture Block - Securely Holds Filament Assembly for Maintenance or Repair	\$775.00	
05990-20167	Flange	Blank Flange - for Covering MSD's Vacuum Cavity when the RPFA Housing/Mass Analyzer Assembly is Removed	\$339.00	
05970-90049	Manual	5970B Mass Selective Detector Hardware (Service) Manual	\$77.00	
05970-90072	Manual	5970B Mass Selective Detector Installation Manual - with the RTE-A Data System	\$24.40	
05970-90082	Manual	5970B Mass Selective Detector Ion Source Cleaning Manual	\$8.50	
05970-90115	Manual	5970B Mass Selective Detector Installation Manual	\$13.00	
9320-5125	Manual	Operating Instructions Book - for the 'Balzers' TCP/TPH-040 Turbo-Molecular Pump (English/French/German)	\$57.50	
6040-0468	Oil	Turbo Pump Oil - 0.25 Liter	\$112.00	
6040-0834	Oil	Vacuum Pump Oil (Polyalphaolefin) - for Rough Pump (1 Qt)	\$36.00	
8500-0656	PFTBA	Perfluorotributylamine (PFTBA) Solution - for Refilling the Calibration Vial (10 Grams/Bottle)	\$91.00	
0460-0186	Tape	Glass Cloth Tape (3/4 in Wide x 36 yd Long) - for Attaching Heater Strip and Sensors to MSD's Vacuum Cavity	\$40.00	
05970-20101	Tool	Venting Tool - for Venting the MSD's Vacuum Cavity	\$55.65	
05990-20261	Tool	Modified 0.050in Allen Wrench - for Ion Source Maintenance	\$150.00	
8710-0018	Tool	Truearc Retaining Ring Pliers - for Lens Stack Maintenance	\$34.00	
8710-0889	Tool	Posidrive Screwdriver - 3 Inch Blade with No.1 Point	\$15.00	
8710-0907	Tool	Tweezers (Stainless Steel) - 4.75in Long - for Ion Source Maintenance	\$45.00	
8710-1199	Tool	0.050in Hex Ball Driver Tool - for Ion Source Maintenance	\$10.50	
8710-1250	Tool	0.050in Hex Drive Tool (Straight End) - for Ion Source Maintenance	\$15.00	
9310-4028	Wipes	Lint Free Industrial Wipes (100% Cotton) - 9 x 9in (300/Box)	\$154.00	

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## Open-Split Interface

05970-20023	Adapter	Gland Adapter (for Use with all GC's) - Adaptes Sleeve (Interface Body) to MSD Fitting	\$1,010.00	
05970-20021	Body	Interface Outer Body (Sleeve) (for Use with 5790 GC) - Slides Over Open-Split Interface Inner Body	\$435.00	
05970-20022	Body	Interface Outer Body (Sleeve) (for Use with 5880 GC) - Slide Over Open-Split Interface Inner Body	\$350.00	
05970-20088	Body	Interface Outer Body (Sleeve) (for Use with 5890 GC) - Slides Over Open-Split Interface Inner Body	\$207.00	
05970-60042	Body	Open-Slit Interface Inner Body Assy (for Use with 5790 GC) - Center Tube Structure - Holds End of Column (from GC)	\$530.00	
05970-60043	Body	Open-Slit Interface Inner Body Assy (for Use with 5880 GC) - Center Tube Structure - Holds End of Column (from GC)	\$583.00	
05970-60051	Body	Open-Slit Interface Inner Body Assy (for Use with 5790 GC) - Center Tube Structure - Holds End of Column (from GC)	\$445.00	
05970-20069	Extension Tube	Extension Tube Assy (Flange with Tube) - Flange Screws into Gland Adapter while Tube Extends into Ion Source of MSD - When Replacing Assembly, Also Replace Guide Tube Ferrule	\$339.00	
05970-20039	Ferrule	Guide Tube Ferrule - Provides Seal for the Extension Tube when Inserted into the Repeller of the Ion Source	\$50.00	
5062-3507	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.3mm ID) for Sealing Restrictor Tube in Gland Adapter Assembly (10/Pkg)	\$55.00	



5062-3508	Ferrule	Ferrule (15% Graphite, 85% Vespel, 0.4mm ID) Seals Column (From GC) at Entrance to Open-Split Interface (10/Pkg)	\$55.00
5180-4112	Ferrule	Front Ferrule (Stainless Steel) - for Sealing Interface Inner Body to Gland Adapter (10/Pkg)	\$20.00
5180-4118	Ferrule	Back Ferrule (Stainless Steel) - for Sealing Interface Inner Body to Gland Adapter (10/Pkg)	\$20.00
5181-3308	Ferrule	Blank Ferrule (No Hole) - for Sealing End of Open-Split Interface During Storage or Shipping (10/Pkg)	\$42.00
0101-0561	Flow Controller	Flow Controller - Controls Purge Gas to the Open-Split Interface - Mounts to Upper Front Panel	\$320.00
0100-1145	Gasket	Nickle Gasket - for Seal Between MSD Fitting and Gland Adapter (Part of Interface)	\$8.00
0510-0083	Hardware	Retaining E-Ring - Holds Outer Interface Body (Sleeve) on to Inner Interface Body	\$ 3.30
3050-1129	Hardware	Flat Washer (Metal) - Helps Hold Outer Interface Body (Sleeve) to Inner Interface Body	\$4.60
05971-60112	Heater/Sensor	Heater/Sensor Assy (with 5 Pin Connector) - Cartridge Style Heater and Sensor - Slides into Interface Outer Metal Jacket	\$392.00
05988-20066	Nut	SGE Nut - for Securing Column in Open-Split Interface	\$12.00
5180-4106	Nut	Nut (1/4 in Stainless Steel) - Secures Open-Split Interface Inner Body to Gland Adapter	\$37.00
05970-20054	Restrictor	Glass Restrictor Tube - Extends from Top of Gland Adapter to 1mm Beyond Tip of Extension Tube	\$56.00

## Other Mass Analyzer Parts

05990-01186	Contact	Contact Spring (J-Shaped) - on Inside of Teflon Side Plates - Provides Contact to Lens Stack Plates - 3 Used (3/Pkg)	\$340.00
05990-21125	Contact	RF Contact Spring ('Wavy' Shaped) - on Inside of Teflon Side Plates - Provides Contact to Quadrupole Assembly - 4 Used (4/Pkg)	\$390.00
05995-20082	Contact	Repeller Contact Spring - Connects Entrance Nut on Ion Source to Trace on Teflon Side Plate	\$53.00

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05970-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2400V (Recommended Replacement Multiplier)	\$925.00
1970-0216	Electron Multiplier	Electron Multiplier Assy (by Galileo) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2000V (Used ONLY for Option 410)	\$875.00
05970-00025	Element	Electron Focus Element ('T' Shaped Metal Piece) - 'Spring' Clamped to Both Teflon Side Plates (With Stem of the 'T' Positioned Next to Filaments of the Ion Source) - 2 Used	\$36.00
05970-20001	Panel	Side Panel (Teflon with Contact Traces) - Plain Side	\$557.00
05970-20003	Panel	Side Panel (Teflon with Contact Traces) - Side with Top Notch for Repeller Spring Contact (to Entrance Nut)	\$557.00
05970-20049	Pin	Board Pin - Provides Spacing Between Quadrupole Assembly and Teflon Side Plates (4 Used)	\$37.00
05990-00168	Plate	Metal Side Plate - Forms Square Tube when Teflon Side Plates are Attached - Screws to Magnet Yoke Assembly (2 Used)	\$175.00

## Pumps and Related Parts

05985-60243	Hose	Vacuum Hose (with Internal Coil Spring) - Attaches Between the Turbo Pump (in the MSD) and the Rough Pump (Outside)	\$63.60
05970-80062	Pump	Replacement Turbo Pump Assembly - Mounts to Bottom of MSD's Vacuum Cavity	\$5,000.00
* 05970-89062	Pump	Replacement Turbo Pump Assembly - Mounts to Bottom of MSD's Vacuum Cavity	\$5,000.00
3162-0125	Pump	(Edwards E2M1) Rough Pump Assembly - for 120V Operation	\$1,300.00
* 05971-69149	Pump	(Edwards E2M2) Rough Pump Assembly - for 120V Operation	\$1,640.00
3162-0149	Pump	(Edwards E2M2) Rough Pump Assembly - for 120V Operation	\$1,640.00
3162-0126	Pump	(Edwards E2M1) Rough Pump Assembly - for 240V Operation	\$1,430.00
05989-80024	Pump	(Edwards E2M2) Rough Pump Assembly - for 240V Operation	\$2,010.00
* 05989-89024	Pump	(Edwards E2M2) Rough Pump Assembly - for 240V Operation	\$2,010.00

## System Software

G1039B	CD ROM	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for HP-UX System ChemStations (Software Requires 4.5MB of Free Disk Space) - on CD ROM	\$4,285.00
G1034C	Software	MS ChemStation DOS System Operating Software - Requires 10MB of Free Disk Space	\$7,350.00
G1038A	Software	MS Pesticide Library - for DOS System Chemstations - Requires 1MB of Free Disk Space	\$805.00
G1042A	Software	Pfleger/Maurer/Heber Library of 4370 Drugs, Poisons, and Their Metabolism - for DOS System ChemStations (Software Requires 4.5MB of Free Disk Space)	\$2,970.00

## Vac Interface Flange/RFPA

05970-00026	Clip	Flange Locking Clip - Holds the Vacuum Interface Flange/RFPA Housing Assembly to the MSD's Vacuum Cavity (4 Used)	\$14.80
05970-80102	Electron Multiplier	Electron Multiplier Assy (by K & M) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2400V (Recommended Replacement Multiplier)	\$925.00





1970-0216	Electron Multiplier	Electron Multiplier Assy (by Galileo) - Mounts in Center of Vacuum Interface Flange/Mass Analyzer Assy - for Autotune Voltage up to 2000V (Used ONLY for Option 410)	\$875.00	
0100-0369	Fitting	Cajon Fitting/Adapter (3/4 in to 1 in) - on Rear Side of Vacuum Interface Flange (For Optional Ion Gauge Tube)	\$95.00	
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05996-60130	Flange	Vacuum Interface Flange - Plate with a Round Flange which Mates to the Vacuum Cavity in the MSD (The Mass Analyzer Assembly Mounts to this Flange)	\$2,760.00	
0570-0124	Hardware	Bolt (10-32 x 1/2 in Long) - Holds Flange Locking Clips to the Vacuum Interface/RFPA Housing Assembly	\$ .30	
0100-0984	Nut	Knurled Nut - Holds Teflon Vial to Calibration Valve	\$9.00	
0905-0456	O-Ring	0.737in O-Ring - Provides a Seal Between the Cajon Plug (Or Option Ion Gauge Tube) and the Cajon Fitting (on the Rear Side of the Vacuum Interface Flange)	\$1.65	
0905-0802	O-Ring	0.989in ID O-Ring - Provides Seal Between Cajon Plug and Cajon Fitting	\$5.00	
5182-0570	O-Ring	5.859in ID Viton O-Ring - Provides Seal Between Vacuum Interface Flange and the Vacuum Cavity in the MSD (6/Pkg)	\$56.00	
05970-60114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	
* 05970-69114	PC Board	Radio Frequency Power Amplifier (RFPA) Board (A114) - Main Board in the Vacuum Interface/RFPA Housing Assembly	\$1,060.00	\$390.00
05985-60317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	
* 05985-69317	PC Board	High Voltage Power Supply Board (A17) - in the Top of the Vacuum Interface/RFPA Housing Assembly	\$850.00	\$330.00
05990-60012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	
05990-60303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	
* 05990-69012	PC Board	Log Amp Board (A12) - Small (Horizontal) Board in the Vacuum Interface/RFPA Housing Assembly	\$870.00	\$380.00
* 05990-69303	PC Board	Linear Board (A12) (for Option 410 RTE Systems ONLY) - Small (Horizontal) Board in the Vacuum Cavity/RFPA Housing Assy	\$663.00	\$403.00
05970-20043	Plug	Cajon Plug - Seals the Cajon Fitting (When an Optional Ion Gauge Tube is Not Attached to the Vacuum Interface Flange)	\$47.70	
05995-00073	Pointer	Flange Pointer - Attaches to Front Side of Vacuum Interface Flange - Aligns the Vacuum Interface Flange/RFPA Housing Assembly to the Vacuum Cavity	\$45.60	
05970-60014	Valve	Replacement Calibration Valve Assembly - Includes Restrictor	\$435.00	
05970-20103	Vial	Teflon Vial (Attaches to Calibration Valve) - Holds PFTBA Solution	\$15.90	

\* = Exchange Part

# = Call (800) 227-0164 for volume discount

