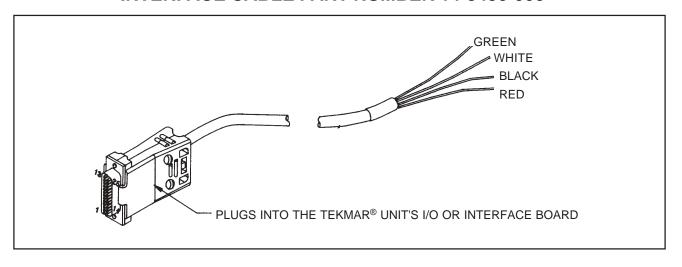# INTERFACE CABLE
TEKMAR TO TRACOR 585, TREMETRICS 9000 OR FINNIGAN 9001
INTERFACE CABLE PART NUMBER 14-3430-000

GREEN
WHITE
BLACK
RED

PLUGS INTO THE TEKMAR® UNIT'S I/O OR INTERFACE BOARD

CABLE CONNECTIONS TABLE

TEKMAR UNIT	TRACOR 585, TB-1 AND TREMETRICS 9000	FINNIGAN 9001
3	1 - GREEN WIRE	CONNECTION LABELED "LOGIC GROUND" (BETWEEN "READY" AND "RUNNING") - GREEN WIRE
4	2 - WHITE WIRE	CONNECTION LABELED "READY" - WHITE WIRE
21	11 - BLACK WIRE	CONNECTION LABELED "REMOTE START" - BLACK WIRE
22	12 - RED WIRE	CONNECTION LABELED "LOGIC GROUND" (LOGIC GROUND THAT IS CLOSEST TO THE TOP OF THE GC) - RED WIRE

DIP SWITCH SETTINGS ON THE 2000 I/O BOARD

U013

U012	U013
6 — CLOSED	6 — OPEN
5 — CLOSED	5 — OPEN
4 — *	4 — OPEN
3 — *	3 — OPEN
2 — CLOSED	2 — OPEN
1 — CLOSED	1 — OPEN

U012

* 3 OPEN AND FOUR CLOSED CAUSES DESORB CLOSURE AT BEGINNING OF DESORB. 3 CLOSED AND 4 OPEN CAUSES DESORB CLOSURE AT END OF DESORB.

DIP SWITCH SETTINGS ON THE 7000 I/O BOARD

BIAS

OUTPUT

INPUT

BIAS	OUTPUT	INPUT
4 — OPEN	4 — OPEN	4 — OPEN
3 — OPEN	3 — OPEN	3 — OPEN
2 — OPEN	2 — OPEN	2 — OPEN
1 — OPEN	1 — OPEN	1 — OPEN

FOR 7000, BEGINNING OR END OF INJECT IS BASED ON INSTALLATION OF CAPILLARY I/O.

Installation Instructions

Interface Cable Part Number 14-3430-000
Interfacing a Tekmar 2000/7000/3000/6000/Velocity XPT to a Tracor 585, Tremetrics 9000 or Finnigan 9001

The cable allows the Tekmar unit to operate automatically with the GC (gas chromatograph). It enables the GC to send a READY signal to the Tekmar unit and allows the Tekmar unit to start the GC upon sample transfer or injection.

Before installing the cable, set the switches on the 2000/7000 I/O (input/output) board as shown on page 1. You do not need to set switches for the 3000,6000, Velocity XPT; use the software to specify the GC port. Detailed instructions follow.

> ⚠ **WARNING** ✋⚡
>
> **Electrical shock hazard. Turn off and unplug Tekmar unit before removing panels.**

> ⚠ **CAUTION**
>
> **Discharge of static electricity can damage parts on circuit boards. Avoid touching the boards unless instructed otherwise.**

Connecting the Cable to the 2000

1. Access and set the switches:
   a. Locate the I/O board. It has two connectors extending out of its bracket, which you can access at the back of the 2000. (See the photograph in Section 12 of the user manual.)
   b. Loosen the two screws that hold the I/O board. Slide the board outward, until you see the switches labeled "U012" and "U013".
   c. Referring to the diagram on page 1, set the switches. (A switch is in the OPEN position when it is pressed down at the OPEN label.)
   d. Install the I/O board. Make sure the board is fully seated into the connector.
2. Plug the cable's 25-pin connector into the I/O board.

Connecting the Cable to the 7000

1. Access and set the switches:
   a. Loosen the two 1/4-turn screws on the lower left side panel.
   b. To remove the panel, pull it away from the 7000 to release the panel's retaining clips, then toward the front of the 7000 to release the panel from the locating pins.
   c. Locate the DIP switches labeled "BIAS", "OUTPUT" and "INPUT" on the edge of the I/O board. Set the switches according to the diagram on the illustration page. Flip the switches up to put them in the OPEN position.
   d. Install the panel by pressing it onto the locating pins and inserting the retaining clips into the posts in the chassis.
   e. Secure the panel with the two 1/4-turn screws.
2. The I/O board has two connectors extending out of its bracket, which you can access at the back of the 7000. Plug the cable's 25-pin connector into the I/O board.

Connecting the Cable to the 3000, 6000, Velocity XPT

1. Turn off the Tekmar unit.

2. Locate the Tekmar unit's interface board. The board has two connectors extending out of its bracket, which you can access at the back of the Tekmar unit.

3. Plug the cable's 25-pin connector into the matching connector on the interface board.

Specifying the GC Port (3000, 6000, Velocity XPT only)

1. Turn on the Tekmar unit.

2 At the System Error/System Reset Screen, press the ENTER key.

3. Allow the Tekmar unit to complete the automatic self test.

4. At the Standby Screen, press the CONF key. The Configuration Screen appears on the display.

5. Press the A key (GC I/O Port). The GC Port Screen appears on the display.

6. Choose the GC Port. You have two choices: *Standard* or *User*. Choose Standard. (Press any number key to move the cursor from User to Standard.)

7. Press ENTER to save your selection.

Connecting the Cable to the GC

Referring to the Cable Connections Table on page 1, connect the cable to the GC.