

# V&R Motorsports

## 2024 Youth Car Demo Derby Rules

This derby is open to any American made hardtop model stock car or station wagon. No commercial vehicles, convertibles, coupe utility, pickups, SUV's, four-wheel drive or foreign type car. No pre 1980 cars allowed. Previous ran cars are allowed, if they meet the rules.

Remove all glass, plastic, chrome, exterior mirrors, lights, grills, gas tanks, trailer hitches, rear seats and flammable material.

All preparations must be done prior to coming to event.

No silicone, undercoating or painting of frames, interbody panels, inside trunks or tailgates, paint may only be on outside of

vehicle body and bumpers. Your paint must be dry by inspection. Bumper height on new cars will be strictly enforced, you

cannot manipulate any surface to gain height. All vehicles with down bars will need to be cut prior to arriving. No welding of

interbody seams or quarter panels. No welding body to frames.

This Class is open to drivers ages 11-15 years old. All drivers must be accompanied by an adult in the car at all times

including during competition and Adult must be with reach of ignition/ shut off switch.

This class is intended to introduce the

next generation to demolition derby in a safe, fun, and instructive manner. All Drivers are responsible for complying with rules

as stated below. If you have questions, please contact Ralph Garcia (530 902- 2069).

### **Safety Bars**

1. Two Side bars may be no bigger than 12" X 2" C channel, must be 3 inches from firewall and may touch

rear hump/wheel wells. Must have a 4" gap from the floor. Side bars are mandatory.

2. Three Cross bars may be no bigger than 6" X 6" square or circle tubing. All crossbars must remain

4" from floor/ tunnel/ transmission bell housing. Front cross bar must be 10 inches from the firewall

and cannot connect to firewall. Front cross bar is mandatory. Middle cross bar must be behind the

driver's seat and within 6 inches of the seat. Middle cross bar is mandatory. Rear cross bar must be

placed behind gas tank straight across and may extend no further the front edge of the rear wheel

well vertically (floorboard and wheel well). May only be welded to the side bars.

3. A gas tank protector is allowed in place of third cross bar. Gas tank protectors may only be welded or attached to the safety cage and halo. Gas tank Protector max width of 36" and must have 4" clearance from any and all sheet metal. Vertical portion may NOT be angled to the rear. Protector may not provide strength or have contact with any other part of the car including window bars. THIS IS NOT A BRACE!!!
4. Halo bars are allowed and must be placed between the driver's seat and no further back than twelve inches in front of the rear wheel well. Halo bars must be in vertical position (90°) and Horizontal bar must connect in a direct line between uprights. Halo bar may be welded to cross bar only, not to the floor. 6-inch maximum material may be used for halo. Two bars from the halo bar may go behind the driver's seat and must angle down towards the 3rd bar of the cage and only, welded to the top of the 3rd bar or side bars. Must be 2" X 2" X 1/4 inch square tubing. The bars must angle to halo bar and cannot be welded in a vertical position (90°). No welding halo to roof. Two bolts one inch in diameter and washer 3" max diameter may be used vertically through the halo bar to bolt the halo to the roof sheet metal only.
5. NO welding cage to frame and floor of car. No Bolting accessories such as gas/ brake pedal, Shifter, battery box ect through frame or crossmembers or sub frame
6. Two front window bars are mandatory. Two bars may be used in rear windows. Window bars may not be welded to the trunk or hood. Bars must be positioned in window seam area. 2-inch maximum material may be used. You may use 3-inch gussets (4 per bar) to mount the window bars and may not be welded to trunk seam. Front window cowl cannot be altered.
7. Driver's seat may be welded to the floor and cannot be welded or bolted to the frame. No plate is allowed under driver's seat.

### **Batteries**

1. 2 automotive type batteries are allowed for the motor. Motor batteries must be securely mounted inside the safety cage area but may not connect cage and body. Batteries must be properly covered. Call with question.
2. Third battery may be used for transmission cooler or electric fan only.
3. Batteries must be securely bolted in a battery tray. No milk crates may be use.
4. No bolting batteries trays to cross member or frame.

5. Battery trays cannot be welded to the firewall. Must have at least 4 inches from firewall.

### **Gas Tank**

1. Gas tank may be bolted or chained securely to the floor, but not to the frame.
2. Gas tank must be placed behind the driver's seat.
3. Gas tank platform may be no bigger than gas tank size.
4. Gas tank must be bolted in securely before inspection
5. Gas tank protectors are allowed see "safety bars" section for details.

### **Body and Frame**

1. Body, Frame and suspension must be OEM for that year, make and model.
2. No frame repair is allowed. No seam welding or plating to the frame or no pinning the frame or running bolts through existing holes.
3. Frame notching is allowed.
4. No hammering or moving of the body is allowed. Cars must remain stock appearing.
5. Driver and passenger side of car must have visible number 16" tall minimum
6. Roof signs are allowed but may not be connected to halo or window bars.

### **Fenders and Quarter Panels**

1. Fenders may be cut out.
2. Quarter panels may be cut out and rolled.
3. No bolting fender or quarter panels.

### **Suspension**

1. No re-enforcing suspension or steering. No swapping suspension/ steering must be original to the car.
2. No Rigid Suspension. Twist in style spacers may be used no welding. Rear coil springs may be welded to rear end housing only (to prevent from following out)2024 Youth 80'S Chain Class

### **Rear end**

1. No rear end Swaps
2. No rear end braces are allowed
3. Locked rear ends and gears are allowed.
4. Coil spring may be welded to housing only (to prevent from falling out)
5. pinion brakes are allowed

### **Tires and Wheels**

1. Any ply are allowed. No mud grip or traction tire on drive wheels. Wheel size may be no bigger than 15 inches (exception- 16" if OEM for that car).

2. Valve stem protectors are allowed. Valve stem protectors must be welded securely.  
SAFETY

3. No zip screwing rims to tire. No bolting rims to tires. No bead locks.
4. Lug nut size may be no bigger than 1 inch.
5. Wheels must be factory car wheels.
6. Wheels may not be reinforced.
7. You cannot have homemade centers on rims. Universal centers are allowed, must not go passed a half Inch pass bolt hole, may be welded in with no filler rod or added metal.

8. Wheel seams may be welded and shorten down to 5 inches with no filler rod or added metal.

9. AIR ONLY NO foam filled tires.

### **Doors**

1. Doors must be chained/ wired in no more than 4 locations per door. ¼" minimum and ½" maximum. For Safety: you can weld the driver's door solid.

2. #9 wire may replace chain, 3 wraps per location.

### **Trunk lids and Tailgates**

1. Trunk lids, tailgates and decklids 4 chains/ wired maximum No welding washers to the body for chain go through, #9 wire may replace chain, 3 wraps per location.

2. Trunk lids may be tucked in (50% in stock location) Or creased with a single line across truck to a depth no greater than 3" from original location

3. Trunk lids and decklids must have a 10" X 10" hole for inspection

4. No cutting or folding quarter panels in behind the tuck must remain stock in the upright position.

### **Hood**

1. 4 chains must be used to secure hood, #9 wire may replace chain, 3 wraps per location.

2. Chains ½" maximum, may be no longer than three feet around bumper and two feet around hood and fender with one loop. Chains may go from the hood to the bumper. No welding washers to the body for chain go through. 2024 Youth 80'S Chain Class

3. A hole is required in hood above the carburetor in case of a fire.

4. No welding/ Bolting the inner to the outer of hood.

5. Hood must open for inspection

### **Bumpers and Brackets**

1. Bumpers (only) may be from any 1980 and newer car that is allowed in this class.

2. Bumper and Brackets may only be bolted No Welding at all.

3. You may weld one piece of 2"x ¼" flat strap or 3/8" chain from the top of the frame around bumper to bottom of frame.

May extend no further back than 3" from end of the frame and welded no more than 2"x2" on top and 2"x2" on bottom, may also be welded to bumper.

### **Engine, Cradle and Transmission**

1. Engine swaps are allowed. Engine setbacks are allowed no further than Stock firewall location.

2. Lower motor cradles are allowed. No pulley protector. Cradle may not tie into any other part of motor. Cradle may only be welded to cross member. (call if you have questions)

3. If no cradle is used stock motor mounts may be welded in factory location. No other welding

4. You may cut a hole, 12"L X 12"W in the fire wall for the distributor. Hole must be properly covered.

5. No distributor guards are allowed. No Header protectors are allowed. No Carburetor protectors are allowed.
6. Electric fuel pumps are allowed, must a shut off/kill switch for fuel pump.
7. Transmission coolers are allowed.
8. Homemade cross members are allowed maximum 2" X 2" X ¼ inch thick square tubing. Only bolted or welded to the frame of car.
9. You may use a steel or aluminum ultra-bell and a steel tail shaft. Ultra-bell may only be bolted to engine and transmission. The steel tail shaft may only be bolted to the transmission and not connected to the oil pan.
10. If steel or ultra-bell are use, Officials must be able to slide a #9 wire between bell/ transmission housing and body, you must also make a relief cut on center/top of trans tunnel (length) where bell will contact body. Relief must be at least 12" (one clean torch or grinder cut).
11. Slider drive lines are allowed.
12. Aftermarket gas or brake pedals and cable shifters are allowed. May only be bolt to the floor. Cable shifter may be bolt to the floor or transmission.

#### **Radiator and AC Condenser**

1. Radiators must be stock automotive radiators. Radiators must be brass, copper or aluminum.
2. No homemade steel radiators or steam tanks.
3. Radiator must be in stock position. Radiators may not be welded in.
4. Ratchet straps, bailing wire or bolts may be used to secure radiator.
5. No radiator protectors.
6. You may only use one AC condenser in front of the radiator, if used.
7. The AC condenser may be bolted with 4, 3/8-inch-thick bolts, with washers no bigger than 1 inch or may be wired in. 2024 Youth 80'S Chain Class

#### **Safety/ Passenger**

1. Full face helmets are required.
2. Minimum of 1 lap belt is required. Four-point harnesses are allowed.
3. Long sleeve shirts and pants are required. No short sleeve shirts or shorts are allowed.
4. You must have a fire extinguisher on hand in pits.
5. Passenger must have a securely mounted seat in the front passenger area. Must also have function seat belt and hand hold designated.
6. No alcohol, firearms, or drugs are allowed in the pits. Zero tolerance. Driver and pit crew will be escorted off grounds without refund.

#### **Disqualifications**

7. Teaming will result in disqualification for all parties.

8. Sandbaggers will be warned first time with flag; second time will result in disqualification.
9. Driver door hits are not allowed, first time will be a flag warning, and second time will result in disqualification.
10. We have a 2-fire rule. Will be discussed at driver's meeting.
11. If cars do not pass re-inspection after main event, it will result in disqualification.
12. Unsportsmanlike conduct WILL result in disqualification.
13. Being timed out for more than 2 minutes, you will be required to shut off and getting your stick broken.
14. Driver and or Pit Crew consuming alcohol OR fighting in pit area at any time will not be tolerated. Driver and pit crew will be escorted off grounds without refund.
15. Unsportsmanlike conduct to any officials or drivers will NOT be tolerated Driver and pit crew will be escorted off grounds without refund.
16. All Drivers must review Driver rules prior to participating