

V&R Motorsports

2024 80's or Newer Car Demo Derby

Rules

All rules are subject to the interpretation of the officials, any equipment that the officials consider not in

the intent of the rules will be considered illegal for competition.

The official's decisions are FINAL!!! This is a last car running one shot event.

Tech and Rules Questions: **Ralph Garcia 530-902-2069**

Safety:

1. Anyone entering the pit area must display a pit pass and show valid ID.
2. Persons 16 or 17 years of age will need a parent to sign the Notice of Non-Responsibility form.
3. No Open Toe Shoes allowed in the pits.
4. No animals allowed in pit areas.
5. Keep your pit area clean, remove your trash.
6. Alcohol, Drugs, Firearms, Verbal, or Physical abuse will not be tolerated.
7. **** No outside drinks allowed in the pits ****

Driver Rules:

1. All injuries must be reported to track officials no matter how minor.
2. Regulation racing crash helmets must be worn by the driver during the entire event.
3. Long sleeve shirts mandatory, no shorts
4. Seat belts must remain buckled during the event.
5. Drivers are to stay in their vehicle during the entire event, except when directed by officials.
6. Drivers are only allowed in the arena during and after event. Pit crew in the arena will disqualify driver.
7. Driver's Meeting must be attended by all holding a pit pass (Mandatory)
8. Drivers may be disqualified for:
 - a. Sandbagging, (staying in the background and doing little hitting)
 - b. Being hooked to another car too long or not making contact with another car
 - c. Drivers' door contact or hitting vehicle of driver that has waved off.
 - d. Teaming will not be allowed.
 - e. Car condition (Anything that endangers participants) will not be allowed to run.
 - f. Driver or Pit Crew Behavior can cause your car to be removed from the event.

Vehicle Rules:

These items will result in your vehicle not being eligible to race:

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.

Bumpers and Brackets

1. You can use any 5-mph bumper or homemade bumper on any car.

2. Bumper seams may not be welded. No filler rod is allowed. Hard nosing is allowed. The frame may be cut off to the front of the core support to mount the bumper.
3. Bumpers may be trimmed and/or flipped.
4. Homemade bumpers may be made out of 4" W X 6" H X ¼ inch mild steel square tubing, must be hollow all the way through. You must (mandatory) cap the end of the tubing on each side with ¼ inch metal, must have a 1-inch hole for inspection. The bumper cannot go past the width of the fenders and must be square with no sharp points on the ends. Homemade bumpers cannot extend past the end of tire of each front tire on either side.
5. Bumpers may be installed using 6" L X 6" W X ½ inch thick flat mounting plates, must be welded to the bumper sideways then welded to the bracket. Plates may be welded to the brackets.
6. Brackets may be 10" L X 4" W X ¼ inch thick flat plate or 10" L X 2" X 4" X ¼ inch thick square tubing/channel or 10" L X 4" X 2" X ¼ inch thick angle iron.
7. Front bumpers may have two 8" L X 2" W X 3/16 inches thick flat strap. Straps must be vertical position and welded 4 inches to the bumper and 4 inches to the core support to help hold the bumper on front bumper only.
8. No angle/corner gussets on bumper brackets to the bumper.
9. Any stock automotive brackets are allowed; bumper shocks may be collapsed and welded, no filler rod.
10. The maximum length of stock or homemade bracket must be 10 inches long front and rear.
11. No mix matching automotive brackets. No modifications to automotive brackets, if you cut it off, leave it off. Do not use automotive stock and homemade brackets together.
12. Homemade brackets may be welded in any position on the frame, except inside the frame. Stock automotive brackets may be welded to frame in any position.
13. All stock and homemade bumpers may be welded to the body up to 8 inches, 3/16-inch-thick filler rod or 2" X 3/16-inch-thick flat strap may be use, no added metal allowed.
14. Front bumpers may be no higher than 20 inches from the bottom of the bumper. Rear bumpers may be no lower than 15 inches from the bottom of the bumper. Used car bumper height; will be at the official's discretion.
15. No part of the bumper may be connected or welded to the suspension or suspension parts.

Radiators, AC Condensers and Core Supports

1. All core support must remain in factory location no relocating core supports.2. Radiators must be stock automotive radiators. Radiators must be brass, copper or aluminum.
3. No homemade steel radiators or steam tanks.
4. The radiator must be in stock position. Radiators may not be welded in.
5. Ratchet straps, bailing wire or bolts may be used to secure the radiator. No radiator protectors.
6. You may only use one AC condenser in front of the radiator, if used. No tractor types.
7. The AC condenser may be bolted with 4, 3/8-inch-thick bolts, with washers no bigger than 1 inch or welded 6 inches per side with 2" X 1/8-inch flat strap no longer than 3 inches and no more than 4 per AC Condenser.

Engine, Cradle and Transmission

1. Engine swaps are allowed. Engine must be in stock position are allowed. Headers may be installed mid-block and forward, no reverse headers allowed. All cars must have an engine air cleaner or similar carburetor cover for fire safety.
2. Engine cradles are allowed. Cradle must be welded to center cross member, not to the frame rails.

3. Aftermarket engine cradles are allowed. No full-size engine cradles. You may only use the front motor plate that connects to the heads and lower cradle. ½ inch header flanges are allowed and can only connect to the front plate and to the back of the heads. No mid plates are allowed. No part of the lower cradle can go past the middle of the oil pan.
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. Motor mounts may be welded up to 4 inches to the frame. No rear motor mounts or rear head straps. You may bolt or chain in your engine.
7. 2 head straps from heads down to the frame are allowed, may not be kicked back or forward.
8. Head straps may only be welded to the frame a maximum of 4 inches and may be only a 2" X 2" X ¼ inch thick flat strap or angle iron. You may not add a platform under the motor mount. Head straps may only be welded straight to the frame.
9. Electric fuel pumps are allowed, if used (EFI ONLY), requires kill-switch to be installed above steering column in windshield area. Must be painted a bright color for easy identification.
10. Transmission filler tube must have drain hose installed to avoid fluid from contacting exhaust system (burp tube) or a cap clamped on tube to keep fluid out of engine compartment. Transmission coolers are allowed, must be inside the vehicle covered.
11. Transmission pan may have 1/8-inch plate welded on the bottom to protect it from being sliced open. No transmission braces are allowed.
12. You may use an aluminum ultra-bell as long as they add no reinforcement to vehicle.
13. Slider drive lines are allowed.
14. Aftermarket gas or brake pedals and cable shifters are allowed. May only be bolted to the floor. Cable shifter may be bolt to the floor or transmission.

Suspension

1. No swapping front suspension must be original to vehicle. No re-enforcing suspension.
2. Tie rod stiffeners are allowed. All other steering must be original to the vehicle.
3. Leaf springs must be stock. No after mark springs. If you are missing leaf springs you may use other leaf springs equal to what's missing to replace what is missing. You may not shorten leaf springs.
4. No leaf on top on main leaf. No extra leaves, no tape or welding on springs, no motor home leaf springs or truck leaf springs.
5. Spring clamps are not allowed. Use spring spacers only on coil spring vehicles.
6. A-frames may be welded to frame 6 inches total per A-frame with 2-inch wide 3/16 flat strap. You can use spring spacers only for height. No swapping front suspension, it must be original to vehicle.
7. You may have 2 bump stops in the rear only, no bigger than 2" X 2" X ¼ inches square tubing, welded to the rear end only and must be vertical, no metal connecting the bump stops together. All cars may weld the bump stops to rear end and to the bottom of the frame.

Hood

1. 4 chains may be used, ¼ to ½ inch thick is allowed. No bolting or welding. Chain cannot go around bumper. You may also use angle iron instead of chains. Angle iron must be no larger than 2 X 2 X 3/16 inches and a maximum of 4 inches in length. Angle iron can be welded to the top of the fender and hood with a bolt through it bolt is maximum of ½ inch. 1 bolt per spot. 4 spots maximum may be used to secure hood.

2. A hole is required in the hood above the carburetor in case of a fire.
3. No welding the inner to the outer of hood. No putting bigger hoods on cars, all cars must run original stock hood to car. Hood must open for inspection.

Safety Bars

1. 2 Side bars may be no bigger than 10" X 2" C channel, must be 3 inches from firewall and may touch front of the rear hump/wheel wells, and have a 5-inch gap from the floor. Side bars are mandatory.
2. 3 Cross bars may be no bigger than 6" X 4" square or circle tubing.
3. Front cross bar must be 10 inches from the firewall and cannot connect to firewall. Front cross bar is mandatory.
4. Middle cross bar must be behind the driver's seat, within 5 inches of the seat. Middle cross bar is mandatory.
5. Rear cross bar must be placed behind gas tank and straight across and in front of the rear hump/wheel wells and may only be welded to the side bars. No down bars are allowed.
6. Halo bars are allowed and must be within 5 inches from the middle cross bar or driver's seat location. Halo bars must be in vertical position (90°). Halo bar may be welded to side bar only, not to the floor. 3-inch maximum material may be used as a bar.
7. Adding posts are allowed if the car wasn't made originally stock with posts. Posts may be welded to the door bar to the top of the car.
8. Halo bars CANNOT be used in combination with adding a post.
9. NO welding cage to frame and floor of cars.
10. 2 front window bars are mandatory. 2 bars may be used in rear windows. Window bars may not be welded to the trunk or hood. Bars must be positioned in the window seam area. 2-inch maximum material may be used as a bar. You may use 3-inch gussets to mount the window bars.
11. NO front and rear kicker bars.
12. Driver's seat may be welded to the floor and cannot be welded or bolted to the frame. No plate is allowed under the driver's seat.

Batteries

1. 2 automotive type batteries are allowed for the motor. Motor batteries are only allowed on the front passenger floor. Batteries must be properly covered.
2. Third battery may be used for transmission cooler or electric fan only.
3. Batteries must be securely bolted to the floor in a battery tray. No milk crates may be used.
4. No welding battery tray to door bars. No bolting batteries trays to cross member or frame.
5. No battery trays can cover any body bolts.
6. Batteries must be properly covered.
7. Battery trays cannot be welded to the firewall and cannot touch the firewall.

Gas Tank

1. Gas tank may be no bigger than 10 gallons.
2. Gas tank may be bolted or chained securely to the floor, but not to the frame.
3. Gas tank must be placed behind the driver's seat.
4. Gas tank must be bolted in securely before inspection or you will not run. → SAFETY
5. Gas tank must have a secure cap. All gas lines and fittings must be leak proof (PUMP GAS ONLY).

Doors

1. Driver door may be welded 12 inches per seam with ½ inch thick filler rod or 2" X ¼ inch thick flat strap.

2. All other doors may be welded 6 inches per seam with ½ inch thick filler rod or 2" X ¼ inch thick flat strap.

3. No welding the inside of the doors.

1. 4 Chains may be used if you do not weld. ¼ to ½ inch max chain may be used.

Trunk lids or Deck lids and Tailgates

1. Trunk lids may use 2 X 3/16-inch flat plate or ½ filler rod. You may have 4 spots with 6 inches of weld each. Tail gates may have 2 spots with 6 inches of weld each.

4. Trunk lids must have a 10" X 10" hole for inspection.

5. Deck lids are not allowed in station wagons.

6. Trunks may be tucked 1 time at a 90-degree angle. (50% in stock location)

Rear end

1. Rear end swaps are allowed. They must be any stock 5 lug OEM rear end.

2. You must use factory hardware to mount the rear end.

3. No aftermarket rear end parts. No aftermarket axles.

4. Pinion brakes are allowed.

Tires and Wheels

1. No tire rule. Any ply and mud grips are allowed. Wheel size may be no bigger than 15 inches.

2. You may have 2" rim guard on the exterior non engine side of the rim lip only.

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

4. No zip screwing rims to tire. No bolting rims to tires. No bead locks.

5. Lug nut size may be no bigger than 1 inch.

6. Wheels must be factory car wheels.

7. Wheels may not be reinforced.

8. You cannot have homemade centers on rims. Universal centers are allowed, must not go past a half inch past the bolt holes, and may be welded in with no filler rod or added metal.

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

10. AIR ONLY NO foam filled tires.

Fender and Quarter panels

1. Fenders may be cut out. Quarter panels may be cut out and rolled.

Body and Frame

1. Body to frame hardware and bushing must be stock. No changing body bolts. You may not remove rubber pucks between the body and the frame.

2. Frame repair is not allowed.

3. No pinning the frame or running bolts through existing holes.

4. No hammering of the frame is allowed. No hammering of the body is allowed.

5. You also may add 2 more body bolts anywhere from the firewall to the rear bumper, 1 may be on the left side of the vehicle and 1 may be on the right side, with a 3" X 3" X ¼ inch thick and no

more than 3 inches long angle iron that can be welded to the side of the frame; with a 5/8 X 8 inches long bolt going through the angle iron; with a ¾ inch spacer to keep the body off of the frame; with a 4 inch maximum free floating washer for inside of car. Body bolts must have rubber

between them, no metal even if you tilt it or add extra bolt.

6. Frame notching is allowed. No welding the body to the frame.

7. No tilting of any vehicles or pre bending of the rear frame

8. Frames cannot be painted or any undercoating painting underneath vehicle.

Rust Repair

1. Floors in car may be repaired with metal the same thickness as it is originally, overlapping of repair may only be up to 1 inch past the rust spot.
2. If the window seam is rusty in a station wagon you may pinch it together and weld 2 inch and skip 3 inches, with a maximum of 2" X 2" X 1/8-inch flat strap.
3. If you have any other rust repair issues than mentioned above, please contact officials.

Safety

1. Full face helmets are required.
2. A minimum of 1 lap belt is required. Four-point harnesses are allowed.
3. Long-sleeved 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. No alcohol, firearms, or drugs are allowed in the pits. Zero tolerance will be used.

Car Numbers

1. The driver and passenger sides of car must have car number visible, minimum of 16 inch tall.
2. Roof signs are allowed, and not required.

Disqualifications

1. Teaming will result in disqualification for all parties.
2. Sandbaggers will be warned the first time with a flag; the second time will result in disqualification.
3. Driver door hits are not allowed, the first time will be a flag warning, and the second time will result in disqualification.
4. We have a 2 fire rules. Will be discussed at driver's meeting.
5. If cars do not pass re-inspection after the main event, it will result in disqualification and suspended for a year.
6. Drinking or fighting in pit area drivers or pit crew at any time will result in removal from the fairgrounds.
7. Unsportsmanlike conduct to any officials or drivers will NOT be tolerated and will result in an automatic removal from the fairgrounds.

Inspection/Tech

1. You will have 2 chances to pass through tech.
2. If your car is not ready to pass after second tech, you will not be allowed to race.
3. Driver and 1 pit member are allowed to be in the inspection area.
4. Your paint must be dry before your car goes through inspection.
5. If you are in the money be prepared to have your car pulled out of the arena and be ready for post derby inspection. Please have your torch ready and available.

Disclaimer

1. If it is not stated in these rules, it is not allowed.
2. Please call **Ralph Garcia 530-902-2069**, if you are unsure about rules.
3. Please do not assume any rules; it may result in disqualification of your car to race.

Reminders:

1. The Vehicles are required to **remain original stock** other than as stated in the rules. Modification of rear end housing, Transmissions, A-frames etc.... will not be allowed other than stated!!!
2. It is illegal to weld body seams unless specified in rules.
3. It is illegal to tilt, ping or change frame in any manner.
4. It is illegal to ping or crease the body, no changing body lines.
5. It is illegal to weld, paint, undercoat, mud, sand, grind, etc. any portion of a car's frame unless specified in the rules. Used cars must have frame washed of debris (dirt) from prior derbies.
6. If it is not in the rules, it does not mean you can do it. **Call with questions.**
7. **Again, the intent is for Vehicles to remain stock other than as stated in the rules.**

