

## **2020 MODIFIED DEMOLITION DERBY RULES**

**Race Day – Saturday, March 28TH, 2020 – 1:00 pm**

**Pits open at 9:00 am and close at 12:00 pm. NO wristbands will be given out after 12:00 pm. Must be 18 years of age to enter the pits. NO EXCEPTIONS!**

**PLEASE READ ALL RULES - SOME HAVE CHANGED!**

### **NEW ADDITIONS/CHANGES for 2020 RULES**

- Race car style window nets (aftermarket only, nothing homemade) are **MANDATORY** on driver's window.
- Driver's door bar **MANDATORY**
- One minute rule (Demo Derby) - If you do not move or hit another vehicle within 1 minute, you will be disqualified.

### **Vehicles**

1. Open to all foreign or domestic made passenger cars and wagons.
  - NO vehicles with OEM weight less than 3,000 lbs.
  - **NO wheelbases less than 108"**
  - NO convertibles, trucks, vans, hearses, limos, or ambulances or cars converted for other uses.
  - NO all-wheel drive cars. Two wheel drive only.
  - NO cars running on Propane, CNG or ethanol.
2. Cars **MUST** be able to withstand the dangers associated with this event, including: Roll-over, Driver door impact, Fire, Track debris
3. Framed cars with carbureted engines are preferred, but Unibody and Fuel injected cars are OK.
  - Please notify officials in advance of event if you are considering running a unibody or fuel injected car, they may require additional modifications to insure driver safety.

### **Interior**

4. Door trim and upholstery - Remove and strip all combustibles from interior, including rear seat, carpet and headliner. Dash may be left fully intact. NO sharp points or objects within reach of the driver. Car **MUST** be clean inside.
5. Safety Bars/cage – Only bars added for driver safety within the driver's compartment are allowed. Mandatory for all cars to have a brace bar from side to side, located behind the driver seat. Brace **MUST** extend from door ledge to door ledge, lower than driver's shoulder. Use one pipe, minimum 2 inches in diameter and .090 thick; round or square. Weld pipe ends to flange plates, not to exceed 12"x12"x1/4" thick. Flanges **MUST** be welded securely to interior or sandwiched/bolted through to external flanges.
  - **Driver's door bar MANDATORY!!!** (Modified class cars CANNOT run the Stock class Figure 8)
  - 4 point cage for all cars is highly recommended.
  - Cars **MUST** be capable of safely rolling over; vertical posts and halo bars OK. Additional bracing may be added for driver protection. Bracing for ONE rollover hoop (round or square) may extend outside drivers compartment. Bracing and interior (Roll) cages are for driver's safety only, not for competitive advantage.
6. Seat - Drivers seat **MUST** be securely fastened. Bolted or welded to floor and strapped to cross member.
7. Seat belts - Belts for the driver **MUST** be at a minimum Factory type and shall include a shoulder belt, be in good serviceable condition, and not weathered. Officials will have final say on the condition.

- 4 point harnesses OK.
8. Fire extinguisher required - MUST be in working order, within reach of driver, and securely mounted to prevent accidental dislodge.
  9. Holes in firewall and floor - All holes in firewall and floor must be covered with metal or non-flammable material.\*\*\*note: this is the most common reason for tech failure. Please cover ALL holes in floorboard and firewall.
  10. Gas Tanks - Gas Tanks - Stock gas tanks must be removed. You cannot move the OEM tank to the inside of the car. Gas tank must be a safe container designed to hold fuel (High impact boat tanks or fuel cells) and must be securely strapped with metal straps in the center of car and behind driver seat. Insure no movement or leaks. Metal tanks and enclosures are preferred. No homemade gas cans. No plumbers tape. All hoses must be double clamped and all lines encased in some form of outer conduit to insure that no fuel leaks inside driver's compartment in case of leakage. Must be able to withstand impact and rollover. NO pressurized lines or fuel pumps allowed inside the driver's compartment. Fuel injected vehicles are NOT recommended and require prior approval to insure safety. Fuel tank to carb needs a shut off valve at the tank, preferably within reach of the driver. Electric pumps should be mounted in the engine compartment with shutoff on the dash or dash cross point.
  11. Fuel pumps - Electric pumps are recommended to be mounted in the engine compartment with a shutoff switch on the dash. If mounted inside the car, they MUST be secured and covered to protect from impact with debris and catastrophic failure.
  12. Fluid lines through Driver's compartment - NO unwrapped flammable fluid lines inside car - which includes gas, oil, and ATF.
    - Fuel lines running inside driver's compartment MUST be contained within conduit and painted red.
    - Other lines within car should be encased in some form of outer conduit to insure that nothing can leak inside driver's compartment. Wrapping transmission cooler hoses in Duct tape or Aluminum tape is ok.
    - All hose ends must be double clamped.
  13. Coolers - Heater cores MUST be disconnected from cooling system if left in dash. No engine oil coolers allowed outside engine compartment. Transmission cooler installation inside engine compartment is preferred. If mounted inside passenger foot well:
    - Recommended to be pre-approved to insure safe installation
    - MUST be securely mounted away from driver
    - Completely encased in a sealed box
    - Any line connections should be within the box
  14. Battery -The battery must be relocated to the driver's compartment, but it MUST be fully enclosed in a battery box and securely fastened with metal straps to the floor. 24-volt starting system is optional.
  15. Engine kill switch required - Stock ignition is OK. ON/OFF MUST be clearly labeled.
  16. High density foam padding required in driver door and interior steering wheel (example, boogie board or seat cushion); highly recommended on all areas within reach of driver to minimize impact injuries (example, steering column, door posts, etc.)

## **Exterior/Body**

17. External glass and plastic - All windows, headlights, turn signals, body trim and Landau tops MUST be removed. No decorative fabric, carpet or other flammable materials allowed to remain.
18. Driver door - Although driver's door hits are punishable by disqualification, they do happen. To reduce risk, extra reinforcement should be considered
  - Reinforcement is only allowed for the driver's side/door.
  - Steel plate or tubing is allowed inside door cavity. For safety, not competitive advantage.
  - Any reinforcement should not protrude past original opening (No more than 3 inches)
  - Absolutely no sharp edges allowed within reach.

- Door MUST at minimum be chained front and rear
  - Alternatively seams may be fully welded.
19. Driver's Window - Race car style window nets (aftermarket only, nothing homemade) are **MANDATORY** on driver's window to prevent exposure to elements outside of vehicle during event. Quick releases MUST be in place so driver could quickly exit the vehicle in case of fire or roll-over.
20. Hood, Trunk, and Passenger Doors – Welding, bolting, or chaining is allowed for securing doors.
- Doors MUST be secured with at least 2 chains, one at each latch.
  - Chain diameter cannot be less than 3/16" diameter.
  - Hoods and trunk lids if chained shut; 4 chains max per hood/trunk.
  - Max length of each chain is 48 inches, ½ inch max diameter.
  - Hood, trunk, and doors can be bolted instead of chaining.
  - Hood MUST have fire extinguisher access to both sides of engine (min. 4 inch holes)
21. Windshield - Glass MUST be removed. Safety bars (Min 1, Max 3) MUST be added.
- Bolt/screw/weld heavy duty flatbar post from dash/firewall to roof.
  - Heavy duty (22ga) wire screen or expanded metal (in front of driver) is mandatory.
  - Screen MUST cover no less than 1/3 of the windshield opening.
22. Numbers/Lettering - All vehicles MUST have their registered numbers on both sides, and top of vehicle.
- A vertical, two sided number plate is required on the roof.
  - ALL numbers MUST be minimum 14 inches tall, with a 1 to 2 inch border around them.
  - Numbers MUST BE contrasting colors.
  - Numbers should be painted with stencils or cut from vinyl lettering.
  - If we can't see your car numbers clearly, we can't score you!
  - No obscenities on cars. Cars MUST be acceptable for a "family" atmosphere.
23. Tires/rims - ANY size/width tires with any tread design WILL be allowed.
- No studded tires
  - Inner tubes OK
  - Filling with water is OK
  - Screwing tire to rim is OK
  - Valve stem protection OK, but MUST not be sharp or protrude from rim.
  - No other reinforcing of wheels allowed.
  - No solid foam filled tires, stacking sidewalls inside or "tire in tire" (one tire per rim).
  - At the end of the event, tires will be inspected closely, and cheaters face disqualification!
24. Bumpers – Only stock automotive bumpers may be used. No excessive replacements allowed.
- Bumpers may be safety chained on both ends or welded.
  - Chains should have some slack in the links between the bumper and frame.
  - The stock brackets and/or chains may be welded to keep them attached.
  - Additional braces are allowed to be added or welded to bumper.
  - Bumpers cannot extend past the wheels.
25. Body/Frame Modifications - Cars MUST appear as stock as possible.
- Added (non-stock) reinforcement only allowed for driver safety and protection.
  - Front kickers and arm forward plating will be allowed.
  - Wheel wells may be trimmed. No sharp edges allowed.
  - No frame mounted trailer hitches.
  - No "cosmetic" objects protruding from vehicle.
  - Radiator support: Only ONE added bar allowed in front of radiator, outside the vehicle or within engine compartment.
  - No foreign substances (concrete, steel plates, rebar, etc.) inside frame, any body cavities, or passenger doors.
26. Drivetrain - Modifications will be allowed where manufacturer swaps, or between different models of vehicles has been done.
- ANY engine and transmission mounts allowed, from any manufacturer.
  - Brakes MUST be in working order.

27. Suspension –
- Limiting chains or straps are OK.
  - Suspension arms **MUST** be stock appearing. Arms cannot be reinforced.
  - Suspension mounting brackets can be custom fabricated.
  - Coil springs may be wired, chained or bolted. Welding **NOT** recommended.
  - Suspension modifications will be inspected where a Drivetrain swap has been done.
28. Engine bay –
- Using other manufacturer's Engines and drivetrains is allowed.
  - Switching from fuel injection to carbureted is encouraged.
  - Engine **MUST** be steam cleaned and free from leaks of any flammable liquids.
  - All cars **MUST** have a suitable air cleaner or flame arrestor; Carbureted or fuel injected.
  - All cars **MUST** have two return springs on the carburetor or throttle linkage.
  - All cars **MUST** use radiator in stock location only. Fans are optional, any type allowed.
  - Exhaust **MUST** extend beyond driver compartment. Exhaust may come through hood, but **MUST** extend above top of windshield and point straight up.
  - No nitrous systems, superchargers, or turbos allowed.
  - No systems designed to inject starter fluid, or fuel additives (Filling station fuel only)
29. Pre-Ran Vehicles - No material stronger than stock should be used for repairs. This includes bumper area, frame, steering, suspension, body panel, and radiator supports. No additional welding or material may be added to reinforce frame or body besides those specifically stated in rules above for driver safety. Any cars found with excessive modifications, will be asked to fix or remove them, and will be done via driver's consensus. Every effort will be taken to allow vehicles to participate, but cannot be guaranteed if car cannot be made safe or seen as fair alongside other entries.

## **GENERAL RULES - for Driver and Crew**

30. Drivers will be held responsible for their pit crew's actions - Excessive use of profanity, intoxication, and objections or interference to official's calls will not be tolerated.
- No alcohol, drugs, firearms/weapons of any kind, or fighting. (ZERO TOLERANCE)
31. Age Requirements - To receive "all access" Pit area wrist bands:
- **DRIVERS AND CREW MEMBERS MUST BE 18 YEARS OF AGE**
  - **MUST** show a valid driver's license or ID card if age is questionable.
  - Everyone **MUST** sign the Fair approved waiver/release form prior to receiving wristbands and entering the arena/pit area.
  - Wristbands will **ONLY** be given to those who enter from Gate 6 off of Avenue G-8.
32. Driver Safety –Please consider using the best safety gear available, for your protection.
- **MANDATORY** to wear DOT approved Full face Helmet.
  - Snell Sticker **MUST** be intact at inspection (SA 2005 or newer).
  - **MANDATORY** to wear long sleeve shirts, long pants, and gloves.
  - **MANDATORY** to wear Goggles or approved eye protection
  - Eye protection **MUST REMAIN ON** while on track.
  - Fire suits and fire resistant "racing/driving shoes" recommended.
  - Fire-proof foam neck collars are highly recommended.
33. Tech inspection - Adherence to the Build Rules and safety will be done via driver's consensus. Each car may require additional inspection, if so, 2 committee members will be selected to inspect the vehicle in question. Officials may inspect before, after, and even during an event.
- After tech, there is to be no further modification of car. If caught, you may be disqualified or not permitted to run if car cannot be re-teched. (Time allowing) Only 'tuning' of car is allowed.
  - If your vehicle is unable to pass tech inspection and is deemed unable to race, you are disqualified. There is **NO REFUNDS. NO EXCEPTIONS.**
  - Any driver or crew member has the right to inspect any car 'Post tech' and after events.
    - a. If anything is contested - **ONLY DRIVERS CAN PROTEST.**
    - b. Protests can be made to Event Director **ONLY.**

- c. Protests MUST be accompanied with \$100 cash bail.
  - d. Protests MUST be filed in person no later than 10 min after event.
  - e. If validated, the money will be returned to driver who protested.
  - f. If by consensus, nothing 'wrong' is found, the protested driver would get the \$100 cash bail.
  - g. Any car found to have been modified after tech (to avoid discovery) may be DISQUALIFIED.
- Tech representatives will be available to answer any questions, and Tech inspections will also be available to pre-inspect your vehicle up until the day before the event. These visits are as a courtesy to you. Contact the AV Fair Motorsports Committee for more information. See below for contact info.

## **Basic Event Rules**

34. During the event, it is "every man for himself" (or woman...). Team atmosphere in the pits is highly encouraged, but obvious **TEAM DRIVING AND/OR SANDBAGGING WILL NOT BE ALLOWED** as it has a negative impact on the quality of the show for the fans.
35. One minute rule (Demo Derby) - If you do not move or hit another vehicle within 1 minute, you will be disqualified. Drivers will be asked to 'pull their flag' and are seen as 'out of contention'.
36. **DO NOT HIT DRIVER'S DOORS.** Drivers MUST do everything within their ability to avoid contact with a competitor's driver door. Also effort MUST be made to avoid hitting vehicles that have 'pulled their flag' or are broken down and 'out of contention'. Intentional driver door contact and/or reckless driving resulting in substantial impacts to vehicles 'out of contention' will warrant an immediate black flag. Any continued 'accidental' hits will be seen as intentional.
37. With or without driver's acknowledgement of warning, the event may be stopped and an offending car DISQUALIFIED in consideration of other driver's safety.
38. Driver MUST remain in control and pay attention to the flagmen at all times. The red flag indicates an emergency. All drivers MUST come to a complete stop. Any car failing to stop at the red flag puts other drivers and safety crew at risk and may be disqualified.
39. Driver's MUST stay in their cars with helmet and seat belts on and fastened until the event is over and has been stopped completely before it's safe to exit vehicles.

## **Competitor Information**

40. All participants realize that this is can be an inherently dangerous sport. These rules are designed to make the event as safe as possible. There is **NO** expressed and/or implied warranty of safety or assurance resulting from the publication, or compliance with, these rules and regulations. All participants and crew members assume **ALL liability** and will be required to sign a liability release form.
41. In the event of a serious injury during the event, both or all vehicles involved may be impounded and subject to teardown.
42. All drivers and crew members MUST attend the race day meeting. Time determined day of race.
43. Pits open at 9:00am and close at 12:00pm on race day.
44. Signing the entry form and paying the entry fee implies a total understanding of all rules in regards to this event, as does signing the release of liability to awareness to all risks involved.
45. Registration is \$100.00 up until 3/1/20, after that entries increase to \$150 up until 3/27/20, Race Day Registration is \$200.00. **NO EXCEPTIONS!!!**
46. Event participants will receive One (1) all access armband for competitor along with Two (2) all access armband for a crew members. Additional armbands may be purchased for crew members at the gate, each additional armband is \$20.
47. Note: Any rules may be amended at any time in the interest of safety, up to and including the day of the event.

**\*\*\* If you or someone you know has any questions about the rules and/or regulations contained in this packet, please feel free to contact Dave Garcia.**

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*Special Notice*

All decisions of the officials and/or management of the Antelope Valley Fair, and/or the Race Safety Committee shall be considered final. The spirit and intent of these rules, with the safety of all drivers in foremost in mind, shall prevail. The Antelope Valley Fair Management reserves the right to limit the number of entries. Further, the Fair Management reserves the right to impose such other new rules and/or requirements as may be required by the State of California or the insurance carrier after the publication and dissemination of the above rules and this application prior to the race event commencement, without liability to the drivers, car owners and sponsors. It is the entrant's responsibility to furnish the Fair, along with this application, the correct sponsors and drivers name for program purposes, and the Fair assumes no responsibility for any inaccuracies that may occur. Car numbers will be assigned by the Fair, after receipt of your application. Car numbers requested are not guaranteed until the Drivers Meeting.

**NO** alcoholic beverages, containers or coolers of any kind will be allowed in the infield or pit areas. Possession of alcoholic beverages in the infield or pit areas will be cause for immediate disqualification by the officials, including driver, crew members, etc. Entrance fee will **NOT** be returned. Obscene words, emblems, symbols, etc. fastened to or on the vehicle, including tow vehicles, will not be allowed and may, at the discretion of the officials, be grounds for disqualification. The race official, in lieu of disqualification, requires the painting out or removal of such at any time. Your cooperation in keeping this family entertainment is requested.