

## **2019 FIGURE 8 MODIFIED RULES**

**Race Day – Motor Mayhem is on Saturday, March 23<sup>RD</sup>, 2019 – 1:00 pm**

**Pits open at 8:00 am and close at 11:30 am. NO wristbands will be given out after 11:30 am. NO EXCEPTIONS!**

PLEASE READ ALL RULES – SOME HAVE CHANGED!

### **NEW ADDITIONS/CHANGES FOR 2019 MODIFIED FIGURE 8 RULES**

- Fire retardant jacket is required. A full racing fire suit is highly recommended.
- Fire retardant gloves are required. Leather gloves are acceptable.
- Full back aluminum racing seats are required. Full containment seats are highly recommended.
- Snell 2005 or newer full face helmet is required.

#### Car Prep

##### **Vehicles**

1. Open to all American made passenger cars and wagons with a vehicle weight of not less than 2,400 lbs. NO convertibles, trucks, vans, hearses, limos, ambulances, or other cars converted for other uses. 2 wheel drive only.
2. Framed cars with carbureted engines are preferred. Unibody and fuel injected cars may require additional modifications to insure the safety of the driver. Please notify officials in advance of race if running a unibody or fuel injected car.
3. Cars must be as stock as possible.
  - a. Reinforcement only allowed for Driver safety and protection
  - b. Pre-run cars can only be repaired to similar “stock” specs.
  - c. No weight may be added and no ballast of any kind allowed
4. Car MUST be able to withstand the dangers associated with this event, including:
  - a. Roll-over
  - b. Driver door impact
  - c. Fire
  - d. Track debris

##### **Interior-**

5. Interior - Remove all glass and trim. Remove rear seat and strip all upholstery, carpet, and combustibles from interior. Dash may be left intact. Car must be clean.
6. Cover or smooth any jagged sheet metal in driver's compartment
7. Roll Cage - A 4 point roll cage is mandatory. A 6 point roll cage is highly recommended. The roll cage must incorporate as a minimum 2 driver roll over hoops connected with supports to each other. The front hoop must have a horizontal “dash” bar. The rear must have a diagonal support from side-to-side. The rear hoop must also be supported from the top outside edges to an area not less than 2 feet towards the rear of the car (for 6 point). The driver's door must have a minimum of 2 bars with gussets at each weld, and the passenger door must have a minimum of 1 bar. The roll cages must be constructed of 1 3/4” 0.0995 wall tubing, minimum and be attached to the frame. On unibody cars, it is required that 6x6x1/4” steel plates be placed to “sandwich” floor pan and each mounting point. Each “sandwich” mounting point must have a minimum of 4 3/8” bolts. An optional unibody roll cage installation method is to form roll cage tubing along the floor pan rocker panels and “stitch-weld” in place. The roll cage must attach to those “stitch-welded” tubes at all 6 points. Minimum “stitch-weld” spacing – 1” welds, 4” apart. All areas that come in contact with the driver MUST be padded. Any driver protection, including roll bars and attached parts, must be inside the car, and not extend beyond the exterior of the car.

8. Seat – Full back aluminum race seats are mandatory. Full containment seat are highly recommended. Seats must be fully supported by and securely attached to a metal framework. All seats or framework must be securely mounted at 6 points minimum (4 on the bottom, 2 on the back) to the frame, roll cage and/or floor. It is recommended that seats and seat belt mountings be attached to the roll cage only. Head rests are mandatory.
9. Seat Belts - All cars must be equipped with a 4 point harness, with 2 shoulder straps and a lap belt; this harness assembly must be securely bolted to the floor and/or frame. A competition-type 3 inch wide lap belt and 2 inch wide shoulder and crotch belt with a single point quick-release (5-point harness) is highly recommended.
10. 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.
11. Fire extinguisher required. Must be within reach of driver and securely mounted to prevent accidental dislodge.
12. 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.
13. Gas Tanks - Stock gas tanks must be removed. 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 lines must be double clamped and 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.
14. Oil and/or transmission coolers or cooler lines will not be located in the driver's compartment.
15. Fuel line – NO unwrapped flammable fluid lines in driver compartment; this includes gas, oil, and ATF.
  - Fuel lines running inside driver's compartment MUST be contained within conduit and painted red. Ends must be double clamped.
16. Engine kill switch required. ON/OFF must be clearly labeled. Stock ignition is OK.
17. 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-**

18. All glass, windows, windshields, head-lights, tail-lights, marker-lights and body trim must be removed. All loose objects must be removed from the entire car (engine, driver, trunk compartments). This includes bits of broken glass, and/or construction materials. It is mandatory that plastic or pot metal grills be removed.
19. Windshields must be replaced with wire mesh, ½ maximum mesh. Mesh must be securely fastened and cover entire windshield area. A minimum of 2 catch bars must be installed in the windshield opening, constructed of 1"x1/8" steel strap or equivalent materials. NOTE: Catch bars are intended to stop large objects, such as failed wheel assembly or bumpers from entering the driver's compartment. Space and mount your catch bars accordingly!!
20. Doors must be chained and/or bolted/welded closed. Station wagons rear floor boards must also be chained/bolted in place or removed.
21. Reinforcement of driver door is mandatory. Guard rail along outside of driver door extending from tire to tire is OK and highly recommended.
22. A safety approved driver's door net is mandatory. The net must be securely attached to the roll cage top and bottom. In addition, a quick release mechanism must be installed to provide for emergency exits. Net must be approved for racing; no homemade nets.
23. Seam welding will be allowed.
24. Any factory automobile bumper may be used. NO truck or utility vehicle bumpers. Bumper may be narrowed to the center or the tire tread. All bumpers must be smoothly curved at each end. NO sharp edges will be tolerated. Bumper straps are recommended. NO trailer hitches or protruding objects past the bumpers. Round tube bumpers will be allowed, 1¾" 0.95 max size tubing.

25. All four brakes MUST be in good working condition. All wheel studs and nuts must be attached and tight.
26. Tires: Any size/width tires will be allowed. NO STUDDED TIRES. Tire height is optional.
27. Any type rear axle allowed, locked or unlocked. Rear axle bearings may not be welded to the axle. Floaters are optional.
28. No car may be raised or lowered enough to be considered radical and/or dangerous to driver/any drivers.
29. Suspensions may be altered by the use of coil springs, coil spring spacers, coil overs, flipping rear shackles or changing shock absorbers. Suspension alterations must maintain vehicle at stock height.
30. Hood/trunk - Hoods and trunk lids must be chained or bolted shut; 4 chains or 2 bolts & 2 chains per hood/trunk.
  - a. Chain (4) - Max length of chain is 36 inches, ½ inch diameter max.
  - b. Bolts (2) – Max diameter 1 inch, cannot be welded to frame. Washers max 3” diameter, ¼” thick.
  - c. Wire OK. Not to exceed two strands on corners only (#9 max).
31. Hood and Trunk will need to be open during technical inspection.
32. Numbers - All cars must have numbers on both sides of vehicle (min 18 inches) and vertical number plate on roof (min 12 inch numbers). Use contrasting colors on numbers. If we can't see your number, we can't score you.

#### **Engine compartment-**

33. Carburetor must have an air cleaner or suitable flare arrestor installed. 1 or 2 12” diameter holes may be cut into the hood and/or trunk lid for fire protection purposes (do not place holes directly in front of driver). All fuel lines must not leak, and be secured to the floor.
34. No cooler system, other than stock type will be allowed. Radiators or fans may be removed if desired. Radiator protection will be allowed. One cross bar and two down bars allowed. Anything more will need to be removed.
35. 2 throttle return systems are mandatory. 1 connected to the linkage and 1 to the carburetor.
36. No welding is permitted on any part of the steering mechanism.
37. Burp tube – must have hose attached to transmission fill tube to prevent fire.
38. Exhaust - must extend beyond driver compartment. Exhaust may come through hood; must extend above top of windshield and point straight up.
39. Engine must be steam cleaned and free of combustible liquids and debris.
40. Hood must have fire extinguisher access to both sides of engine (min. 4 in hole)

#### **Items NOT allowed-**

41. NO additional welding or material may be added to reinforce frame or body besides those specifically stated in rules above for driver safety.
42. NO foreign substances (ex. concrete) inside frame, body cavities, or doors (exception: steel plates in driver's door OK)
43. NO nitrous, starter fluid, or fuel additives (Road taxable, filling station fuel only)
44. NO obscenities on cars. Cars must be acceptable for a “family” atmosphere.

#### **Driver and crew-**

45. Helmet - must be DOT approved. Snell Sticker (“Stamp of Approval.”) must be intact at inspection (Snell 2005 or newer). Full face helmet required.
46. Fire suits **HIGHLY** recommended. **Fire retardant jacket, long pants, and fire retardant gloves are mandatory.** Leather gloves are acceptable. Goggles or approved eye protection must be worn while on the track.
47. Neck support highly recommended. Foam neck collars highly recommended.
48. Drivers must be 18 years of age. Valid driver's license is required. The driver's age and license status are to be checked when signing in.
49. Must be 18 years of age to wear “all access” wrist band.
50. Driver and crew will be required to sign the Fair approved waiver/release form prior to entering the arena/pit area.
51. Drivers are responsible for pit crew. Excessive use of profanity, intoxication, and whining will not be tolerated.

### **General-**

52. Assigned numbers must be a minimum of 4" wide and 18" high, and must be neatly painted with contrasting colors. The numbers must be displayed on the top and both sides of the vehicle. Numbers on the top must read from both driver and passenger side. See rule 32. If scorers cannot read the numbers, you may not win. Also note, numbers will not be assigned until the night of the Drivers Meeting! NO EXCEPTIONS! No numbers are guaranteed until that night!
53. Pits open at 8:00 am and close at 11:30 am. NO wristbands will be given out after 11:30 am. NO EXCEPTIONS!
54. Adherence to the rules and safety will be done via driver's consensus; however, Official's make final decisions. Any driver has the right to inspect any car. Protests must be filed with an official in writing within 10 minutes of end of heat or event, with \$100 cash bail; money returned if complaint found to be valid. Only Drivers are allowed to protest. Each car may require sign off from a randomly selected driver during tech. Any car modified after tech will be disqualified. Cars will be inspected before, after, and during the race. OFFICIALS DECISION IS FINAL.  
Note: Whining will not be tolerated. Drivers are responsible for pit crew. Excessive disturbance by any member of a team will be grounds for disqualification and removal.
55. No lewd language, drinking, drugs, firearms, or fighting in the pit area. (ZERO TOLERANCE)

### **Basic Race Rules-**

56. DO NOT HIT DRIVER'S DOOR INTENTIONALLY.
57. Basic Race Rules-
58. DO NOT HIT DRIVER'S DOOR. Driver must do everything within his power to avoid contact with competitor's driver door. Intentional driver door contact and reckless driving resulting in substantial driver door impact will warrant an immediate black flag.
59. Driver must remain in control and pay attention to the flagmen at all times. Flagmen will be placed at each end of the track. The official flagman will be outside of the track near the x.

### **Flag Rules**

- Green Flag - Starts the race. Cars will be lined up side by side to start the race. Cars must maintain position as designated by the officials. No passing or pulling out of line until they have passed the starting line on the green flag. On restarts, cars must be lined up in the order they were in, nose to tail. On restarts, pole sitter is to set a reasonable pace. Anyone jumping before the green flag will be warned once for the 1<sup>st</sup> offense. If the same car jumps the green flag a 2<sup>nd</sup> time, they will be sent to the tail of the field.
- Red Flag – Danger, race stops immediately. Any car failing to stop at the red flag will be disqualified.
- Black Flag – Pull off track for consultation from officials. The black flag will be thrown for drivers that are out of control, hunting cars or excessive hitting.
- White Flag – One lap to go.
- Checkered Flag – End of race.

60. Driver's must stay in their cars with helmet and seat belts on and fastened until the race is over or it has been stopped and it's safe to exit vehicles.

### **Competitor Information-**

1. 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 or safety 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.
2. All competitors and crew must attend the race specific meeting. Time determined day of race.
3. Registration is \$100.00 up until February 22<sup>nd</sup> 2019, registration increases to \$150.00 up until March 22<sup>nd</sup> 2019, Race Day Registration is \$200.00. NO EXCEPTIONS!!!

**\*\*If you, or someone you know has any questions about the rules and/or regulations contained in this booklet, please feel free to contact Johnny Troesch or Payton Zamrzla.**

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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 entrants 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 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, require the painting out or removal of such at any time. Your cooperation in keeping this family entertainment is requested.