

# **Diamond Mountain Speedway**

## **2019 Hobby Stock Rules**

Interpretation of these rules or amendment to these rules may be made at any time. The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and by participating in these events, all registrants are deemed to have complied with these rules. No express or implied warranty of safety shall result from publications of, or compliance with these and/or regulations. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to participants.

### **RULE BOOK DISCLAIMER:**

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules. NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator or official. The race director shall be empowered to permit minor deviations from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. NO EXPRESSED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final. Referees decision is final.

THE MANAGEMENT OF AMERICAN VALLEY SPEEDWAY

## **AMB TRANSPONDERS ARE MANDATORY**

### **1. CHASSIS**

- A.** Any 1955 or newer American made passenger Car will be allowed.
- B.** Minimum unaltered factory wheelbase of a 107". To 115" Stock frame only. No modifications Allowed, Ford, Chevy, and Dodge.
- C.** Uni-body cars must have 2" x 4" minimum sub-frame connectors, Material .095 minimum.
- D.** No intermixing of body and frame parts. (Manufacture to Manufacture).
- E.** Must include stock lower a-arm mounts and stock lower a-arms.
- F.** Four wheel drives, sports cars, convertibles, front wheel drives or station wagons are allowed.
- G.** Cars to be STOCK
- H.** Swapping engine OK if bolt in replacement, Example  
327,350,400 Chevy. Engines must be GM to GM or FORD to FORD, etc.
- I.** Vehicle must be de-chromed and all glass and flammable material must be removed (Excepting gauges and bumpers) NO MIRRORS PERMITTED.

### **2. BODY**

- A.** Must be stock appearing.
- B.** Body must be mounted securely to frame from the rear of driver's seat forward.
- C.** Firewall must be stock or 18 gauge sheet metal to replace damaged firewall in stock location.
- D.** You are limited to gutting the following: hood, trunk lid, roof and doors.
- E.** Floor pan must be stock from the rear of drivers seat (left to right) forward. Must be welded or bolted. If welded, welds shall be 3" long and 7" between each weld minimum.
- F.** No outside Iron rails (Nerf bars).
- G.** Fenders may be cut to give 4" of clearance above the tire. Protruding sharp edges will not be allowed.
- H.** Hood must be secured on all four comers. Hood may be gutted.
  - I.** Car will NOT be allowed to run without hood in place. NO HOOD, NO RACE.
- J.** Plexiglas is not allowed on car.
- K.** All cars MUST have a minimum of half the windshield area in front of the driver to be covered with wire mesh of 1/4" to 1/2" square and must have 3 posts or straps located in front of driver Post will be built and attached securely. They must be built with 1/2" tubing or 1/8" x 1" straps.
- L.** Must have at least one number on both doors and on roof. Minimum size of number 18" tall 2" wide and contrasting color of car. Also see number specifications in general rules.
- M.** No mirrors or electronic communication devices of any kind, No sign boards.

- N. A kill switch is required within easy reach of the driver and Safety Crews. It must be clearly labeled "ON" and "OFF".
- O. All added weight must be in block form, PAINTED WHITE, with the car number on it. Weight must be securely fastened, with minimum 1/2 inch bolts, inside the body panels and not on rear or front bumper. 25 lbs per bolt mount. One bolt 25 pounds, two bolts 50 pounds.
- P. Rear spoiler ok Camaro night only.
- Q. No Nerf Bars

### 3. ROLL CAGE

- A. Roll bars shall be of the full cage type, mild seamed steel 1 1/2" or 1 3/4" X .095 wall minimum, 4130 Chromoly 1 1/2" or 1 3/4" X .095 wall minimum, with full loop from frame over the driver. These bars are to be connected on the top of both sides with another bar. Cage shall be within 3" to top of car and 6" of sides of top. In the back loop, running from the right top to the bottom bar at about 45 degrees, there shall be a bar. These bars must be properly welded together and attached to the frame. Roll bars to be welded or bolted to the frame with NO less than 7/16" bolts or both, where possible. Must be welded and attached securely to frame or Sub-frame filler on uni-body car. Bar may not be secured by welding to floor pan.
- B. All "T" intersection must be gusseted and welded on both sides.
- C. Cage to be above driver's helmet by 2".
- D. Must have one bar front to rear approximately center of cage.
- E. Roll cage must include three door bars on driver's side within 3" of the door. Welded to both the front and back uprights and evenly spaced to protect the driver's hips and legs. Minimum of one brace running vertically.
- F. Front loops are allowed inside the body in front or behind radiator.
- G. There will be two bars angled from top of cage towards rear end, this can extend past rear axle to frame rail.
- H. You may be asked to drill 1/4" hole in roll cage for inspection purposes.
  - I. All cars must be equipped with a tow hook or similar device both front and rear.
- J. Radiators may be mounted to a front bar with stock mounts removed. Bar may extend to fenders but must remain behind bumper. Bar must be independent of cage and NO larger than roll bar material.
- K. The technical official or race committee must approve all roll cages.
- L. Door plate recommended

### 4. SUSPENSION AND STEERING COMPONENTS

- A. Steering box must be stock, for example GM to GM etc., located in stock position. Quick Steer OK.
- B. Springs must be STOCK type springs and in stock location.
- C. Weight jacks are not allowed.
- D. Air or coil over shocks are NOT Allowed. Stock replacement type shocks only. **NO Hiem Joints shocks.**
- E. Suspension must remain stock. Tubular A Arms OK.
- F. The suspension components must be in their stock positions. Notching or an alteration to the frame to accommodate suspension components is prohibited.
- G. One shock in the stock location per wheel. Case by case only. Close to stock location as possible.
- H. No adjustable weights.
  - I. No racing, adjustable, or reservoir shocks.

### 5. WEIGHT

- A. **NO weight rule.**
- B. **Weight must be secured block form with # on it 25lbs per 1/2 inch bolt (white)**

### 6. ENGINE SETBACK

- A. number one spark plug cannot be past drivers side ball joint.
- B. Centerline of crankshaft may not vary more than 1" from centerline of front stub.

### 7. ENGINE

- A. Cast Iron block and heads.
  - B. Engine through transmission shall remain 100% STOCK**  
(stroker combinations are not allowed)
  - C. All engines must have 15" vacuum at 1150rpm. If you can't pull 15" @1150rpm you must run an unaltered track issued restrictor plate, Can be checked any time prior to a race
  - D. Compression not to exceed 175 PSI
8. **RODS**
- A. Replacement rods only! NO "H" BEAM, Stock length rods only, 5.7" Max.
9. **PISTONS**
- A. Stock replacement cast or forged only as normally used in rebuilding.
  - B. Pop ups ok, can't be more than 175 compression
10. **CAMS**
- A. Any stock hydraulic cam and lifters.
  - B. Solids ok/flat tappet ok
  - C. 1 inch inspection plug on oil pan
  - D. Stock crank mandatory
11. **GEAR DRIVES**
- A. Are Not allowed.
12. **CYLINDER HEADS**
- A. Must be OEM cast iron heads only. STOCK 100%
  - B. All heads must be stock valve angle for make:  
(Chevy = 23 degree, Ford = 20 degree, Dodge = 18 degree)  
Dart, World or other aftermarket heads are Not Allowed!
  - C. Grinding, porting, polishing, gasket matching etc. is not allowed.
  - D. Angle milling of heads is not allowed.
  - E. All casting numbers must remain visible.
  - F. Stock diameter valves & springs for head casting number only. No oversize valves or springs.
13. **ROCKER ARMS STOCK 100%**
- A. No Roller rocker arms or roller tip rocker arms. No offset rocker arms or Jessel rocker arms.  
Must be stamped steel only.
14. **INTAKE MANIFOLD**
- A. OEM stock cast iron or aluminum 2 or 4 barrel manifold
  - B. Grinding, porting, polishing, gasket matching etc. Is not allowed. Must be untouched as originally manufactured by the factory or distributor. ANY MANIFOLD DETERMINED TO BE MODIFIED WILL BE CONFISCATED BY SPEEDWAY OFFICIALS.
  - C. Aluminum intake must have firing order and GM signia or fomoco for ford
15. **CARBURETOR**
- A. Must have TWO return springs.
  - B. Must have toe strap on throttle pedal.
  - C. Maximum 1" spacer plate is allowed.
  - D. A stock replacement HOLLEY 4412 may be used on any motor.
  - E. Choke tower must be in place and factory stamped 4412.
  - F. **ALL CARBURETORS** Must pass (GO- No Go Gauges) Max venturi diameter 1 3/8"
  - G. Carburetor must mount to manifold without any modifications to the manifold or the base plate of carburetor.
  - H. The Carburetor cannot be modified internally with the exception of jet change, power valve and choke removal.
16. **IGNITION**
- A. Distributors must be of stock production ONLY! Coils must be stock types only, Hei recommended
  - B. Super Coils, MSD boxes, Magnetos are not allowed.

**17. FUEL PUMP**

A. Pump must mount in original position. No belt drive pumps or electric pumps.

**18. FUEL**

A. Gas ONLY. NO ADDITIVES OF ANY KIND! SUBJECT TO INSPECTION AT ANY TIME.

**19. FUEL SHUTOFF**

A. All cars to have a 1/4 turn off valve in the fuel line in the drivers compartment, to be accessible to the driver and painted RED. It must be 1/4 turn off type. Must be clearly marked ON - OFF.

**20. GAS TANK / FUEL CELL**

- A. Gas tank shall be removed from their original position and replaced with required approved FUEL CELL in a fuel cell can, with maximum capacity of 22 gallons in trunk area. Cell to be mounted between the frame rails and shall not extend more than 2" below the bottom of the frame rails. Tank must be mounted with a minimum tie down of 1 1/8" x 1" strap iron. (NO PLUMBERS TAPE). Cell must have a vent and a securely fastened cap. No part of filler pipe may be made of rubber type connection. Cells to be vented to underside of car.
- B. A fire shield of no less than 18-gauge metal to be placed between tank and driver. Must have L shaped shield in front and bottom of fuel cell.
- C. Fuel cell is to have a full sealing cap and a roll over vent.
- D. Cells must be protected with one tubular bar in front of tank and behind tank not to exceed 2" in outside diameter.
- E. All fuel cell mounts subject to safety inspector's or race committee approval.
- F. Any car leaking or spilling fuel will be BLACK-flagged.

**21. RADIATOR**

- A. Must be in front of engine, in stock location.
- B. ANTI-FREEZE IS NOT ALLOWED.
- C. WATER WETTER & WATER SUGGESTED.

**22. TRANSMISSION**

- A. Automatic transmissions with working torque converter. If Trans cooler is used and located inside car it must be shielded from driver. No bump start or pump valve.
- B. Manual transmissions allowed, must be OEM production type and have all gears and stock clutch.  
NO RACING CLUTCHES (Triple Disc etc.)
- C. No ALUMINUM OR ANY OTHER TYPE OF LIGHT WEIGHT FLYWHEELS!
- D. Must run approved scatter shield for manual.
- E. All cars must be able to move smoothly and slowly thru pits.

**23. DRIVE-LINE**

- A. Steel Only, Must be painted white.
- B. Drive shaft loop (360 degrees) are mandatory. Must be placed 6" minimum to 16" maximum from the transmission tail shaft.

**24. REAR-END**

- A. Only stock passenger car rear ends are allowed.
- B. NO 3/4 ton rear ends.
- C. Locked rear ends are allowed.
- D. Floaters ok.

**25. REAR SPRINGS. REAR SUSPENSION**

A. All mounting points must remain stock. ALSO SEE RULE

**26. BATTERY**

- A. All batteries must be mounted in an approved manner in front of the fuel cell.
- B. 'Maintenance Free', no vent caps and sealed battery is suggested.
- C. Batteries that are not sealed must be sealed in a marine type box.
- D. Batteries are not allowed in the driver's compartment.
- E. Battery disconnect switch must be installed and clearly marked
- F. Cars not starting under own power will tag the field

**27. BUMPERS**

- A. Fabricated bumpers is allowed, must meet safety tech. Aluminum preferred.  
CANNOT BE OVER BUILT i.e. Battering ram.
- B. No part of bumper may extend beyond width of car.
- C. Bumpers to remain in stock location.
- D. No added bracing of any kind, i.e. Battering ram. No sharp edges.
- E. Two individual safety chains or cables to be installed on bumpers.
- F. Bumpers must have chain loop or hook attached that is adequate in size for towing the car off of track.
- G. Bumper straps are allowed and highly suggested. (Bumper to body).

**28. TIRES**

- A. Tires must be DOT or IMCA G6015 or Goodyear, no retreads. NO RACING TIRES!!!!
- B. Maximum tire width 8"

**29. WHEELS**

- A. Wheels to be minimum 3/16" center.
- B. Wheel width 8" maximum.
- C. Wheel studs minimum 5/8" and 5/8" lug nuts are required.
- D. Steel wheels Only. Maximum width 8"
- E. Bead lock R/R ok only

**30. BRAKES**

- A. Must have at least four wheel brakes operational. Brakes shall be stock
- B. No copper or plastic brake lines.
- C. No aftermarket brake caliper

**31. EXHAUST / MUFFLERS**

- A. Stock cast iron exhaust manifolds including muffler pipe no larger than 2 1/2
- B. Mufflers are mandatory. Type optional
- C. Mufflers and head pipe must remain attached. All muffler and exhaust components must remain intact and operating. Failure to comply with this provision will result in automatic disqualification.
- D. Exhaust pipe must extend beyond driver compartment.
- E. Track DBA requirements must be met 95dba @ 100'. ABSOLUTELY NO EXCEPTIONS AS THIS NOISE REQUIREMENT WILL BE STRICTLY ENFORCED.

**32. BINDING COMPONENTS**

- A. No leather straps, ropes, chains or wire may be used to hold or bind components together.

**33. SEATS**

- A. Car must have approved racing type aluminum bucket seat.
- B. Seat must be mounted securely to ROLL CAGE.
- C. Headrest is mandatory or high back seat is required.
- D. Upholstered and padded is highly suggested.
- E. Positively No Homemade Aluminum, Plastic or Fiberglass seats allowed.

**34. SAFETY BELT REQUIREMENTS**

- A. General - Each Competitor is solely responsible for the effectiveness of personal safety equipment used during an event. Each competitor is expected to investigate and educate themselves with the effectiveness and availability of personal safety equipment.
- B. Seat Belts - Each car should be equipped with an SFI 16.5 or SFI 16.1 approved seat belt restraint system until the date of the belt expiration (usually two years). Seat belts restraint systems shall be installed in accordance with the directions and application of the system supplier or manufacturer. (A quick release seat belt and shoulder harness no less than 3" wide and submarine belt (crouch) are mandatory. 1 1/2" wide shoulder harness for Hans device ok).
- C. Seat belt webbing that comes into contact with any sharp or un-radius metal edge should be protected from that edge by means of push on grip vinyl trim. Seat manufacturer's supply the seat with trim protecting the webbing from abrasion or cutting under impact conditions and should be used to their specifications.
- D. It is the responsibility of the driver, not the Track, Officials or the Promoter to ensure that his/her seat belt restraint system and all components are SFI approved, correctly installed, maintained and properly used.
- E. All belts must be mounted to the roll cage separately from the seat with 7/16" grade five bolts

minimum.

- F. A steel plate may be welded to roll cage at driver's right side for belt attachment to prevent drivers from sliding side to side under belt.
- G. Belts must come from behind driver. The mounting position is important! Shoulder belt should be mounted approximately 4" below the shoulders. The lap belts mounting should be the same width of the driver.
- H. Harness/belts must be worn at all times when the car is on the track.
- I. 3yrs old on belts maximum. The date stamp must be readable and belts must not be worn (frayed) or they will have to be replaced for your safety.

### **35. SAFETY**

- A. Driver should wear a full face helmet, with at least a valid SA 2005 or better Standard Snell label at all times on the track or when car is fired.
- B. The driver should wear the helmet in accordance with the directions provided by the helmet manufacturer and/or supplier.
- C. Head and Neck restraints are strongly suggested. If a head and neck restraint system is connected it should conform to the manufacturer's mounting instructions.
- D. Helmet and face shield must be worn at all times while operating a car on the race track. No goggles permitted.
- E. Each driver should wear a fire resistant uniform meeting the SFI 3.2A/5 specification and display a valid SFI 3.2A/5 label.
- F. Each driver should also wear fire resistant accessories that effectively cover the remaining parts of the body. Shoes and gloves should meet SFI 3.3 specification and display a valid SFI 3 label. Nomex-type or equivalent fire resistant uniforms (suit), gloves, neck brace, are mandatory.
- G. Nomex- type or equivalent hood, socks, underwear and shoes are highly suggested.
- H. Drivers side and passenger window nets required. Window nets must be equipped with quick release mechanisms. All steel release system highly suggested. Arm restraints are suggested
- I. Other safety items
  - 1) NO sharp or protruding edges in or around the cockpit, which would impede the driver's rapid exit from the car.
  - 2) A marked electrical kill switch in reach of driver
  - 3) A marked fuel shut off valve in reach of driver
  - 4) Flame retardant seat, roll bar, knee and steering pads or padding are suggested
  - 5) Drive line U-joint scatter shields are suggested

### **36. FIRE CONTROL**

- A) A fully charged fire extinguisher meeting SFI 167.1 with activation push or pull knob within the reach of the driver to protect the driver by flooding the driver's compartment is suggested.
- B) Valve plunger (actuator) must be mounted at right of driver and in plain view.
- C) ON-board system will be inspected and must be passed by tech inspector or race committee.
- D) It is recommended that teams have in the rear of the transporter and easily accessible fire extinguisher of at least 2.5 gal FFF or equivalent. In addition to in car system.
- E) If no on-board system, suggested minimum 2.5 pound FFF or equivalent (dry powder) fire extinguisher must be mounted within driver's reach in an approved bracket, for the driver's safety.

Decisions of DIAMOND MOUNTAIN SPEEDWAY official(s) are final and binding without exception, promoter reserves the right to add or delete events as deemed necessary. All decisions will be final at the promoters' discretion.

**NO TIRES ARE TO BE LEFT AT DIAMOND MOUNTAIN SPEEDWAY!**

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