



HOBBY STOCK 2017

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Preface

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 will govern the condition of all events and by participating in these events all members are deemed to have complied with these rules. No expressed or implied warranty of safety will result from the 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 participants, spectators or others.

VRA reserves the right to amend by addition or deletion any rule by notifying members, in writing or posting at the track office same changes, at least seven days prior to implementation of said addition or deletion. Rules involving safety may be imposed immediately.

Rules will be imposed as written. It is your responsibility to be familiar with all rules. Official's decision shall be final in all cases.

DEFINITION OF "STOCK" OR "OEM"

In the following rules stock, stock OEM or OEM will mean that a part or dimension must be from a standard production vehicle. "OEM" is the abbreviation for original equipment manufacturer. Absolutely no removal, alteration or covering of casting numbers, manufacturer's name, logos, insignias, etc. from any item on the car. To do so will make that part illegal and it will be treated as such.

1. MODELS

- 1.1 1964 or later American manufacturer stock production sedan with steel top. Pick-up, El Camino or Ford Ranchero O.K.ed must meet all rules. Rear wheel drive cars only.
- 1.2 Frame must be stock only. No reinforcing or modifying allowed.
- 1.3 The wheelbase shall be a minimum of 108 inches. Wheelbase must match measurable wheelbase for car utilized +/- 1 inch.
- 1.4 Frames, front and rear sub frames must be stock for year, make and model of car utilized. No cutting, sectioning or redesign of any frame or sub frame to change the stock location of any suspension component or engine placement. Frame cannot be notched for fuel pump.

2. BODIES

- 2.1 Must be manufacturer stock for year model used. Fenders, doors and rear quarter panels may be interchanged with similar models as long as end result looks stock and does not affect the size or weight of vehicle. Any fabricated body part must be 22-gauge steel or aluminum and appear stock as per track official. **Stock Steel roofs only.** Stock appearing bodies will be strictly enforced.
- 2.2 Where there is double body paneling, interior sheet metal may be removed to facilitate repairs. These panels do not have to be replaced, unless the tech inspector deems this dangerous. The dash and package tray may be replaced with sheet metal. No enclosed driver compartment, no interior sheet metal, subject to technical inspection.
- 2.3 No cutting away of exterior sheet metal except as outlined:
 - A. Body sheet metal may be trimmed for tire clearance a maximum of 5" above tire on both sides of car in race ready position.
 - B. Rear trunk floor and outer portion of inner fender panels may be removed.
 - C. All glass and chrome trim must be removed. No other alterations except to install roll cage.
 - D. **All body parts must look stock as per track officials. No exceptions.**
 - E. All body edges must be rolled.
- 2.4 The hood must be complete with no cutouts for the air cleaner. Air cleaner must remain completely under hood. Hood and deck lid must have approved quick pull positive hold pins. Rear deck lids (trunk) must slope down ward towards the rear of the car as per track officials. **NO FLAT REAR DECK LIDS.**
- 2.5 No fiberglass or plastic fenders, hoods, trunk lids or quarter panels may be utilized.
- 2.6 Engine to driver's compartment must be completely sealed. Driver to trunk area must be completely sealed.
- 2.7 OEM spoilers are permitted, not to exceed OEM measurements. Side skirts are permitted only to be attached to the bottom of the door panel between the front and rear tires.
- 2.8 Complete stock floor pan mandatory. Must run full stock interior floor pan, turn up to turn up. Stock firewall, master cylinder stock location. Pedal assemblies in stock location. Firewall must be fully sealed and patched with only a minimum of 22-gauge steel.
- 2.9 No glass windshields allowed. **Window bars will be allowed. Minimum of three bars in front of driver plus a center bar. Bars must be covered with wire mesh to the center bar, minimum 1/4" opening to a maximum of a 1" opening.**
- 2.10 Number must be on both sides of car located on door. Must also have number located on roof and on front of car located in approximate headlight area and taillight area. Minimum number size is 20". Number lines must be a minimum of 4" and in contrasting color to the body of car.
- 2.12 No mirrors of any kind allowed.
- 2.13 Appearance of car must be kept up to track standards. This will be strictly enforced.

3. WEIGHT

- 3.1 Minimum weight 3,200 lbs., with driver at anytime. All ballast weight added to the car must be mounted in a safe and secure manner. All ballast weight must be painted white and must have car number stamped on each weight.
- 3.2 All weight must be mounted with a minimum of two (2) 5/8" grade 8 bolts or two (2) weight mounts. It is highly recommended all weight be mounted between the axles and frame rails. All weight mounts are subject to the approval of the Technical Director.
- 3.3 Any ballast weight dropped on the racetrack while the car is at speed is an automatic disqualification from the race.

4. ROLLBARS

- 4.1 A full perimeter roll cage is required. No offset cage allowed. There must be a minimum of four (4) driver side bars in the left door area. Two (2) bars must extend from the top of roll cage to the rear of the frame rails. One (1) bar must extend from the left side to right side of rear roll cage at floor pan level for seat belt attachment. One (1) diagonal bar is required across the rear of roll cage from top to bottom. One (1) bar must be installed from left side of roll bar to center part of cross bar at shoulder level for shoulder harness attachment. Additional roll bars may be added. Where roll bars are attached to the floor pan, must have steel mounting plates under and over floor pan. Plates must be a minimum of 4" x 6" x .125 steel. Single pipe front loop may be installed at radiator top tank level. Radiator protection bar and supports may be added. Subject to technical inspection and approval. All radiator

protection bars must be behind the bumper and under front nose piece. All main cage roll bar material must be a minimum of 1 3/4" .090" wall steel tubing or black iron pipe with a minimum of 1 1/4" ID schedule 40. No galvanized pipe. Maximum, pipe diameter 2". No thread pipe fittings allowed. All roll cage welds must have a minimum 2" x 11/2" x 11/2" x .125" steel gussets. All roll bar structure exposed to the driver must be padded with approved padding. Roll bar construction and installation is subject to inspection and approval. No offset roll cages. 1/8" plates on left side door bars are highly recommended.

- 4.2 Racing seat mandatory. Seat must have complete cage frame support fabricated to the roll bar assembly. Six 3/8th inch Grade 8 bolts must be used. No fiberglass seats.
- 4.3 It is recommended to add steel door plate to outside of drivers side door bars. Plate should be constructed of 18 gauge or 0.049 inch minimum thickness steel and welded in place. Plate should cover area from top door bar to rocker panel and from rear door post to 5 inches in front of seat. (IMCA wording).

5. FRAME AND SUSPENSION

- 5.1 All components and parts must be stock. No reinforcing. No weight jack devices of any kind allowed. No spring buckets, fixed or adjustable allowed. Fixed spring buckets allowed on rear of coil cars only. Racing springs allowed (AFCO and etc.). Spring rubbers are permitted.
- 5.2 No adjustable spring hangers allowed. Replacement hangers must be stock length for year, make and model of car utilized. No fabricated spring hangers.
- 5.3 Fixed or adjustable lowering blocks allowed.
- 5.4 Front sway bars must be stock, with stock connector links. No rear sway bars allowed. If a rear sway bar was on the car as part of the OEM, it must be removed.
- 5.5 Any crash damage repair must locate the suspension components in their original positions with a minimum of reinforcement. All repairs subject to VRA inspection and approval. Front leaf spring mounts must be stock and in the stock location. Fabricated mounts are not allowed.
- 5.6 Stock "A" arms only. No aftermarket "A" arms allowed. "A" arms may not be lengthened, shortened or modified in any way. "A" arm bushings must be stock type, no plastic or metal bushings allowed. Ball joint and ball joint location must be stock. "A" towers cannot be moved.
- 5.7 No aftermarket front spindles or brake rotors allowed. No modifications to spindles or rotors allowed. All steering components must be steel unaltered OEM, in OEM location. (Heim joints and and after market swedge tubing are not OEM).
- 5.8 All shocks must be stock type and must be mounted in stock location to stock mounts. No coil over, coil boosted, air shocks, adjustable and/or rebuildable shocks allowed.
- 5.9 All front bumpers are to be mounted in slip joints using no larger than grade "5" 3/8 bolts, 2 per side and restrained to chassis by 3/16 minimum size steel chain or cable.
- 5.10 Bumpers must be stock manufacturer Tube front bumpers OK. 1 3/4" .095 maximum size tubing used. Must be turned backed and capped, must fit under nose piece. Aluminum bumper O.K. Front and rear bumpers must be mounted at approximately stock height and location. Bumper height measured from ground to centerline of bumper must be a minimum of 16" and a maximum of 20". Bumpers must not be narrowed. Bumpers must have a 90-degree turn on each side extending back a minimum of 4" from front of car on front bumper. Must extend 4" forward from rear bumper. Bumpers must not have sharp corners or ends. Front and rear bumpers must have metal plates covering full width of bumper securing ends of bumpers to the quarter panels. Front and rear bumpers must have safety chains mounted to the frames. Bumpers are subject to tech approval, call for clarification. Bumpers cannot stick out passed bodies. No exceptions.
- 5.11 Rear axle assembly must be stock for make and model of car used. Locked rear ends allowed. Stock Ford 9" or Chrysler one-piece rear ends allowed, one piece rotors only and weld on caliper mounts OK. Solid steel axles only. All rear end parts must be steel, no aluminum housings, no aluminum spools, no Detroit lockers, no Gold Tracks, no traction control devices of any kind. Floater rear ends are optional.
- 5.12 A minimum of two driveshaft hoops are required. One must be located near the front and one must be located near the rear. May be made of chain or metal strap. Drivelines must be painted white. No aluminum drivelines.
- 5.13 Steering column must be mounted in stock location. Steering ratio reducers allowed.

- 5.14 Complete OEM 4 wheel brakes in good working order required. No turning brakes of any kind allowed. All 4 wheel brakes must work at all times. No dual racing type master cylinders or balance bars allowed. Unaltered OEM working master cylinders must be mounted in OEM location. Unaltered OEM brake pedal assembly and mount only. Must be mounted in OE location and unaltered, no exceptions!
- 5.15 Side body protectors: ½ inch maximum distance from outside of body panels. 1 ½ inch x .095 maximum mild steel round tubing. To be mounted at axle centerline, + or - 1 inch. First and last 6 inches must be turned in to meet body panel and must be capped.

6. ENGINES

- 6.1 BLOCK: Stock OEM engine blocks only. No aluminum. 360 cubic inch maximum. Decking allowed. Studed main caps allowed. Must have stock casting numbers on block. Blocks must not be altered in any way so that it could not be used in a street legal production car. **CRATE ENGINE OPTION: Must use unaltered sealed GM #88958602 or #19258602 crate engine. Upon inspection, any different, altered or missing OEM GM seal bolts will result in disqualification and subject to fine and or suspension. May use any Holley 4-barrel carburetor on crate motor only. All components must be Holley manufactured. May use Speedway Motors part #545-64940 or Moroso part #64940 carburetor spacer only on crate motors.**
- 6.2 CRANKS: Stock OEM cast, large journal, 3.48 stroke crank or Scat series 9000 stock replacement allowed. This is a no touch crank. No knifing, no lighting. No offset grinding. No stroking. No de-stroking. No aftermarket cranks of any kind. No steel cranks allowed. No lightweight cranks allowed. Crank is to remain stock and will be teched.
- 6.3 PISTONS: Stock OEM piston allowed. Any flat top piston allowed. No lighting of any kind. No domed pistons allowed. Pistons are no touch.
- 6.4 RODS: Stock OEM 5.7, or Scat 5.7 stock replacement, large journal rod allowed. No 6" rods allowed. No aluminum, no lighting of any kind. Floater rod pins OK. No cap screws, thru bolt w/ nuts only. Heavy rod bolts OK. Shot-peened OK. No polishing. No aftermarket rod allowed. Rods are no touch.
- 6.5 HEADS: Stock OEM 2.02 intake maximum, 1.6 exhaust maximum allowed. No vortex, no fuel injection or aluminum allowed. No aftermarket heads allowed. No port matching, no pocket porting or blending. No angle plug heads. Stock appearing stamped steel rockers only. No alloy, roller tip or chromoly allowed. No rollers. Screw in studs OK. Large valve springs OK. Guide plates OK. No titanium.
- 6.6 CAMSHAFT: .465 lift maximum intake and exhaust. No roller cams. No solid lift cams. Any hydraulic lifters allowed. No gear drives allowed.
- 6.7 INTAKE & CARB: One Torker II intake manifold only. This is a no touch intake rule. No modification of any kind allowed. No restrictor plate required. Carburetor spacer must not exceed 1" max. No funneling of spacers. One Holley #4412 carburetor allowed. This is a no touch carburetor with the exception of removing choke plate and change jetting.
- 6.8 Engine must pump 180 lbs compression or less at all times.
- 6.9 Exhaust pipes must extend to the rear of the driver and point to the outside of the car. Stock exhaust only. No high performance manifolds or headers allowed. No cast iron headers. No Brzezinski manifolds may be utilized. No modification of any kind allowed to exhaust manifolds. Mufflers mandatory. Maximum dB reading 95 decibels at 100 feet. Mufflers and tail pipes must be mounted below or underneath stock floor pan. No part of the exhaust system is allowed inside the driver's compartment. No center dump exhaust allowed.
- 6.10 Distributors must be stock point or HEI stock. No racing modules or coils allowed. No MSD or Mallory modules allowed. MSD or Mallory wires OK.
- 6.11 All cars must be equipped with one working starter mounted in stock location. Stock mini starters allowed. No reverse mounted starters or bell housings.
- 6.12 No electric fuel pumps allowed. No water mix fuel. Fuel cells mandatory. Fuel tank must be securely mounted with Grade 8 bolts by minimum of four (4) steel straps; two (2) crossways, two (2) lengthwise.
- 6.13 Automatic stock transmissions only. Must be equipped with one stock working torque converter only, 11 inch diameter minimum width. No stall converter.

- 6.14 All power steering pumps must be stock type for that year, make and model. After market pumps OK. Remote fluid cans are allowed.
- 6.15 No air forced boxes allowed.
- 6.16 Aluminum water pumps OK.
- 6.17 Battery must be located rearward of the driver's seat and above the frame rails and securely mounted to the approval of the VRA technical director. Battery must be enclosed in a metal box and sealed. Box must be insulated with approved material.
- 6.18 No glycol based coolant permitted.

7. FUEL

- 7.1 Race or pump gas only. No alcohol or performance-enhancing boosters of any kind allowed.
- 7.2 All fuel lines in the cockpit must be sleeved with steel tubing.
- 7.3 Fuel cells are mandatory. Roll over check valves on fuel cell vents required.
- 7.4 All fuel cell filler caps will have a safety chain connected to the car.
- 7.5 No cool can allowed.

8. TIRES AND WHEELS

- 8.1 A maximum price of \$125.00 per tire and must be available to the public at anytime. Any 15" series 60 or 70 tire with a contact patch of 8" or less as measured across the tire tread. All four corners must be the same 60 series tires or 70 series tires, no mixing is permitted. Maximum contact width of tire is 8" or less DOT approved tires only, no aggressive patterns. All tires subject to approval of the technical director. No mixing of tire size series permitted.
- 8.2 Wheel studs may be replaced with larger studs up to 5/8 inches.
- 8.3 All tires will be checked thoroughly for over aggressive tread patterns. No grooving is permitted. 15" tire and wheel only.
- 8.4 All wheels must have car number clearly marked on outside of wheel with white or yellow markings.

9. SAFETY

- 9.1 Full SFI Rated firesuit, fire-retardant driving gloves and shoes mandatory at all times on the track. May be two-piece. No holes, torn or worn material allowed. Must be clean and neat appearing. Fire-retardant underwear and head sock are highly recommended.
- 9.2 A five point safety harness, with quick release mandatory with a 3" wide lap belt, 3" shoulder belts and a 2" submarine. All belts must be attached to roll cage. 2" wide shoulder belts are permitted with the use of a HANS device, DefNder or any other collar-type head and neck restraint only. No "Y" belts are permitted.
- 9.3 All seat belts must have date of manufacturer and must be within 2 years of the SFI tag. It is highly recommended all belts be of the same manufacturer.
- 9.4 Snell S or SA 2005 or newer full-face helmet with face shield or goggles is mandatory. Snell sticker must be attached. No M or K rated helmets are permitted.
- 9.5 A neck brace or head and neck restraint is mandatory at all times on the track
- 9.6 Driver-side window net required, minimum 16 inch by 20 inch ribbon or mesh style, and must be mounted securely to the top and bottom of roll cage so latch is at top front of window. No zip ties or pop riveting.
- 9.7 Fire extinguisher minimum 2 lbs. dry-chemical with visual gauge must be mounted securely within reach of driver. Extinguisher must be certified for year of use prior to car's first race of season. Must have quick release mount. Additional fire extinguisher must be in pits at all times.
- 9.8 A one-way receive-only radio is mandatory at all times on the racetrack. No two-way radios or communication devices are allowed. This radio is required to be purchased and maintained by the driver or car owner. No driver will be allowed to compete without this device.
- 9.9 All roll bars within reach of the driver must be padded.
- 9.10 Center-top of steering post must be padded with at least 2" of resilient material.
- 9.11 All drivers must be 16 years or older at the time of competition.