

SANDIA SPEEDWAY

2011 - 2014 Hobby Stock Rules

Revised 1/21/2011

NOTE: The word “**STOCK**” means unaltered and as originally produced for that year, make, and model, including aftermarket replacement parts.

These rules are designed to encourage a safe, competitive class that allows a limited amount of performance modifications while keeping a limit on spending. In no way will the rules be interpreted to allow a car that is technically superior to dominate the class or to be constructed in an unsafe fashion that poses a danger to the operator or other competitors. If a particular item is not stated as legal, you must assume that it is not legal. Any driver found outside the parameters or spirit of these rules will be sternly dealt with and faces fines, disqualifications and possible disbarment. Interpretation of any or all the rules is at the sole discretion of Sandia Speedway and its tech personnel. Let's keep it in the spirit of what these rules are designed for. Thank you in advance for your cooperation.

BODY STYLE-CHASSIS

- 1. BODY/CHASSIS**
 - a. All cars must be 1960 or newer American-made passenger cars with a minimum wheel base of **100 inches**.
 - b. Vehicle frame can be NO less than 5” off the ground.
 - c. Factory external parts; plastic nose is OPTIONAL.
 - d. Bodies and chassis must be stock-appearing in stock location.
 - e. Cars **MUST** have full stock bodies with OEM or OEM-type bumpers.
 - f. A complete roof is required.
 - g. Windshield posts are required. One Center post of no less than *one inch* OD is mandatory.
 - h. Window openings must remain stock, plus or minus one-inch. Only the front window may have a sun visor.
 - i. All glass must be removed. Windshield must be either 1/8” Lexan or 1/2” x 1/2” minimum window screen.
- 2. CAR STYLES NOT ALLOWED:** NO convertibles, sports cars, station wagons, imports or commercial vehicles, front wheel drive, or rear engines.
- 3. REMOVE ITEMS:** All glass, plastic, upholstery, rear seat, lights, mirrors, and chrome must be removed.
- 4. DOORS:** All doors must be welded, bolted, and/or securely fastened.
- 5. FENDERS:** The fenders may be reasonably trimmed for tire clearance only.
 - a. No sharp edges on entire car.
- 6. WHEEL WELLS:** The front and rear inner wheel wells may be removed, but rear wells are recommended.
- 7. HOODS:**
 - a. All hoods, trunks must remain stock and be securely fastened.
 - b. No air cleaners through the hood.
 - c. Factory stock air scoops are allowed if they are stock for the year, make and model of car.
 - d. 7/16” minimum hood and trunk pins are required.
 - e. Engine CID must be displayed on the hood.
- 8. REINFORCEMENT:**
 - a. Frames, bodies and floor pans may be reinforced, but not reconstructed, redesigned or changed beyond the factory-produced concept.
 - b. Cars with sub-frames must tie the front and rear sub-frame together.
- 9. FLOOR PAN:**
 - a. The stock floor pan must remain intact behind driver and front passenger compartment.

- b. The rear floor pan and firewall must be replaced with sheet metal if it open or has been removed.
- 10. **FIREWALL:**
 - a. The firewall between the engine and driver must be in stock position.
 - b. All holes must be covered with metal.
- 11. **RACING SEAT:**
 - a. All cars must have a racing seat fastened to the roll cage, NOT bolted to the floor.
- 12. **LOOPS/BUMPERS:**
 - a. Front and rear tow loops are required. Must be sufficient to lift car and allow easy hook up to tow truck and must remain inside car body.
 - b. No reinforcement from the loop to bumper and no bumper guards.
 - c. Front and rear bumpers must be strapped to the quarter panel to avoid being hooked. These MUST be at least the width of the bumper and meet TECH approval.
 - d. Bumpers may be reinforced with one pipe of a maximum diameter of two and one-half (2 ½) inches.
- 13. **GAS TANK:**
 - a. The stock gas tank must be removed and replaced with a fuel cell type tank.
 - b. It must be securely fastened with straps inside the trunk.
- 14. **DRIVE SHAFT LOOP:**
 - a. Drive shaft loop is required and must be constructed of at least one-fourth by two-inch (1/4" x 2") steel.
 - b. It should be mounted no more than six (6) inches back from the front of the drive shaft.
 - c. Chain is acceptable.
 - d. The drive shaft must be painted white.
- 15. **SHOCKS/SPRINGS, ETC.:**
 - a. No Coil Overs, Eliminators, or Sliders.
 - b. Any shock/spring is allowed but must mount in STOCK position.
 - c. Auxiliary shock on right front is optional.
 - d. No Hymend type shocks. Steel springs only.
 - e. Non-adjustable OEM or aftermarket upper control arms are permitted.
- 16. **WEIGHT:**
 - a. At all timed, the minimum weight, including the driver, shall be three thousand, two hundred and fifty (3,250) pounds.
 - b. NO TOLERANCE.
 - c. Maximum left side weight **55%**
- 17. **BALLAST:**
 - a. The recommended ballast to be used is extra roll cage bars or other types of reinforcement.
 - b. Any removable ballast mounting is subject to the TECH Committee's approval.
 - c. All ballast weight attached to the car must be painted white and the car number painted on it.
 - d. A twenty-five (\$25) dollar fine will be assessed to the driver if the ballast is lost on the race track.
- 18. **MIRRORS:** NO rear view mirror is allowed.

ENGINE-TRANSMISSION-DRIVESHAFT

- 1. **ENGINE:**
 - a. The car's engine, body, and frame must be from the same manufacturer (such as GM-to-GM, or Ford-to-Ford, etc.)
 - b. The block, heads, intake and exhaust manifolds must be made of cast iron production parts as offered as standard equipment on factory produced passenger cars.
 - c. Stock replacement flat top or dished pistons only.
 - d. Block, crankshaft and connecting rods must be from the same engine type and displacement (such as 350-Chev to 350-chev, etc.)
 - e. The following non-stock after market engine parts **ARE allowed:**
 - 1. Gauges and switches
 - 2. Spark plugs and ignition wires
 - 3. Coils
 - 4. Factory replacement HEI distributors

5. Air Cleaners
 6. Valve covers
 7. Distributor cap and rotor
 8. Roller timing chains
 9. Valve springs and retainers
 10. Pushrods
 11. Pushrod guide plates
 12. Screw-in or pinned rocker arm studs
 13. Any non-roller/non-roller tip rocker arms
 14. Cam thrust buttons
 15. Headers are optional
- f. All other parts must be stock production or stock replacement after market parts.
- g. The following items **are NOT allowed**:
1. Roller or roller-tip rocker arms.
 2. Roller cams of any type
 3. Fuel injection
 4. After market ignition systems
 5. Magnetos
 6. Computers
 7. Nitrous-oxide systems
 8. Turbochargers or superchargers
 9. High-rise or performance-type intake manifolds
 10. Gear drive camshafts (except production 6cyl)
 11. Solid valve lifters of any type
 12. Aluminum or after market heads (such as Bowtie, Dart, SVO, etc)
 13. Aluminum flywheels
 14. Porting and/or polishing off intake or exhaust passages or heads
 15. Off-set ground crankshafts
 16. Angle-milled heads
 17. Aluminum rods
 18. Aluminum or carbon fibered drive shafts.
 19. Vortec heads
- 2. MANIFOLD/CARBURETOR:**
- a. Stock 2-barrell intake manifold and two barrel carburetor only. 500 FCM maximum. **NO DEMONS ALLOWED.**
 - b. A one and one-half (1 ½) inch spacer or adaptor is allowed.
- 3. RADIATOR:**
- a. Any type of radiator may be used.
 - b. A fan shroud is mandatory.
 - c. The radiator must be mounted in front of the engine.
 - d. No type of cooling system is allowed in the driver's compartment (i.e., for cooling the driver or radiator.) Anyone found having this will not be allowed to run that night. No permission will be given for removal in order to compete that night.
 - e. **No antifreeze.** A \$100.00 dollar fine will be imposed on any car found with it.
- 4. CAMSHAFT:**
- a. Any type of hydraulic lifter camshaft and hydraulic valve lifters may be used.
- 5. SPARK PLUG HOLES:**
- a. The center line of the lead spark plug hole must be even with, or in front of, the center line of the upper ball joint.
- 6. TRANSMISSIONS:**
- a. Automatic or manual shift OEM transmissions only.
 - b. Torque converters are required on automatic transmissions. Stock Torque Converter 2500 Stall Maxium.
 - c. Scatter shields or blow proof bell housing is recommended on all manual transmissions. Bell housing area must be plated to protect the driver area in a manner approved by the TECH Committee.
 - d. NO buttons, dog clutches or quick change devices.
 - e. All must have forward and reverse gears.
 - f. Clutch must be a minimum 10.5 inches.

7. **ELECTRICAL:**
 - a. Battery must be completely enclosed in a steel or high impact plastic box.
 - b. Battery must be securely fastened, subject to the TECH Committee's approval.
 - c. A master kill switch is mandatory, mounted between the left side of the seat and the driver's door, and marked by a 3" arrow. **MUST BE** accessible to the safety crew.
8. **MUFFLERS/ EXHAUST SYSTEM:**
 - a. Mufflers are optional.
 - b. They must be welded.
 - c. The rear of the muffler must be chained or strapped to the car frame.
 - d. Six (6) inch tail pipe welded to the end of the mufflers.
 - e. Systems must be securely attached.
 - f. Exhaust system must extend behind driver.
9. **FUEL TYPE:**
 - a. Pump or racing gas only.
 - b. Electric fuel pumps are allowed with oil pressure switch.

REAR SUSPENSION

1. Stock only.
2. Nine inch (9") Ford optional mounted in stock position.

BRAKES-WHEELS-TIRES

1. **BRAKES:**
 - a. Brakes on all four wheels must work
 - b. Brakes will be checked.
 - c. Relocation of Master Cylinder is allowed.
2. **WHEELS:**
 - a. Spoke steel wheels are allowed.
 - b. Racing wheels are allowed as long as rim width is a minimum of (7) inches and a maximum of (8) inches.
 - c. The right front and right rear wheels must be reinforced.
 - d. Reinforcements of all wheels are strongly recommended.
 - e. NO Beadlocks.
3. **TIRES:**
 - a. SMS approved tires only
 - DOT passenger car (highway use) tire only
 - Cross-grooving not allowed.

ROLL CAGE

1. **REQUIRED.** Cage-type roll bars are compulsory and **MUST** be angle-braced.
2. **DESIGN:**
 - a. **BARS:** Must be bolted or welded to the frame meeting the TECH Committee's approval.
 - b. **WELDS:** All welds must be reinforced with a minimum of two-inch by two-inch by one-eighth inch (2"x 2" x 1/8") gusset plates.
 - c. **MATERIAL TYPE:** Must be round steel tubing of a minimum size one and one-half (1 ½) inch OD, and a minimum wall thickness of .090.
3. **HORIZONTAL BAR:** A horizontal bar with the following, **MUST** be installed on both sides of the car:
 - a. At least one and one-half (1 ½) inch OD pipe.
 - b. Located at approximately seat height.
 - c. Running from the front roll bar to the rear roll bar.
4. **EXTRA BAR** required on driver's side of car.
 - a. One horizontal bar placed between the seat height bar and the top frame (on driver's side).
 - b. A ladder-type bracing of horizontal bars, or "X" on the driver's side is *required*.
 - c. A horizontal bar **MUST** be installed between the two front vertical bars at dash heights on all cars.
5. An additional bar may be welded to the top of the roll cage running from the left side to the right side and from front-to-rear, or diagonally.