

OFFICIAL 2009 – 2011 SPECIFICATIONS FOR NASCAR CLASSIC STOCK

NOTICE: ALL EQUIPMENT IS SUBJECT TO THE APPROVAL OF NASCAR TECH OFFICIALS. NO EQUIPMENT WILL BE CONSIDERED AS HAVING BEEN APPROVED BY REASON OF HAVING PASSED THROUGH INSPECTION. ALL NASCAR MEMBERS ARE REQUIRED TO BE FAMILIAR WITH ALL TOYOTA SPEEDWAY AT IRWINDALE TRACK RULES AND NASCAR RACING SERIES RULES PERTAINING TO YOUR DIVISION.

Any modifications not covered in these rules will not be allowed unless approved by the Toyota Speedway at Irwindale Tech Official.

1. COMPETING MODELS

- (a) Any 1972 or newer model sedan. No Station Wagons, Convertible, Pick-Ups, Jeeps, etc.
- (b) No Camaro, Firebird, Mustang, or similar type cars.
- (c) Strictly an economy based class, no performance modifications of any type will be allowed.

2. GENERAL CAR AND BODY REQUIREMENTS

- (a) General Car:
 - (1) All casting numbers and part numbers must remain intact and unaltered.
 - (2) Car must be strictly stock. No cutting, chopping, channeling or shortening allowed.
- (b) Overall car minimum weight: 3,350 pounds, before the race with driver. Maximum left side weight is 54%, with driver.
- (c) All cars will be weighed on Toyota Speedway at Irwindale's scales. These scales will be the only method for determining a car's weight.

3. DETAILED CAR BODY REQUIREMENTS In addition to the car body requirements in section 2.

- (a) Complete bumper – to – bumper steel body must be retained.
- (b) The stock floor pan, fire walls, trunk, trunk floor and rear wheel wells remain intact (front wheel wells may be removed).
- (c) All doors must be welded, chained or bolted shut.
- (d) No holes in the hood. Hood must be kept in place at all times (minimum three (3) hood pins or fasteners are mandatory).
- (e) Body sheet metal must be kept in place at all times. Fenders cannot be trimmed, except to allow minimum clearance. Must be neatly finished. Holes must be filled.
- (f) All chrome, lights, trim and upholstery must be removed. Holes must be filled inside and out.
- (g) Inner panel of driver door may be removed to allow proper installation of roll bars.
- (h) Inner panel of passenger door may be removed to add a rub bar and allow panel repair. Maximum one 1-½ inch bar at furthest point out and must be inside door panel.
- (i) No gutting of body parts including hood, door lid, etc. Must have a dash, side to side.
- (j) No gaps allowed at bottom of doors and at doors and firewalls.
- (k) Rear and side windows must be removed.
- (l) Side view mirror: All cars may have one (1) left side 4-inch or smaller spot mirror, however, it must be acceptable to Tech Officials and must not extend outside of the car at any time. No mirror may extend outside of the body.
- (m) All cars must be neatly and brightly painted
- (n) Windshields: Lexan windshields only, must be a minimum of 1/8-inch thick covering all windshield openings and must be retained by at least 2 clips each at top and bottom. Two (2) reinforcing straps for windshield mandatory.

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- (o) Rear View Mirror: One rear view mirror only, mounted in center of car. All mirrors subject to tech approval.
- (p) Bumpers and Rear Filler Panel:
 - (1) Stock only. Safety straps must be attached a 1/8-inch x 2-inch minimum from end of bumper to quarter panel. No hidden reinforcement or nerf bars allowed.
 - (2) A yellow stripe, a minimum of 3-inch high x 24-inch long is to be placed on rear bumper to designate all "ROOKIE" drivers.
- (q) Identification and Marking:
 - (1) All cars will display a one (1) or two (2) digit number series (0 - 99) as assigned. No duplicate numbers allowed.
 - (2) Number will be a minimum of 18 inches on roof and 18 inches on each door.
 - (3) The assigned car number will be placed neatly in right front headlight area, as large as possible that fits neatly in the assigned area.
 - (4) The assigned car number will be neatly placed on the right front of the windshield, 3-inches high minimum.
 - (5) No duplication of numbers, additional letters such as X, Y, or N is not allowed.
 - (6) Advertising or names of any kind is not allowed on the windshield. This will be reserved for a series sponsor.
 - (7) Advertising that is deemed unsuitable/offensive will not be allowed.
 - (8) Series sponsor decals must be placed on designated location of car to be eligible for awards. This to be completed PRIOR to competing in an event
 - (9) ONLY Nostalga Pure Stocks may have a rear spoiler of 2 inches.

4. GENERAL ENGINE REQUIREMENTS

- (a) Engines must remain stock for make and model of car being used. All engines subject to tech approval.

5. DETAILED ENGINE REQUIREMENTS

- (a) Engine blocks must be a V-8 type, and must be stock factory production. No Chevy Bow-Tie or manufactured performance blocks.
 - (1) Factory OEM stock engine replacement permitted.
- (b) All internal engine parts must remain OEM specifications as to size, shape, weight and finish. NO EXCEPTIONS!
- (c) Any procedure associated with a common rebuild will be allowed.
- (d) Engine Ground Clearance: Oil Pans must have a minimum of three (3) inches of clearance.
- (e) Engine Mounts: Engine mounts must remain stock. May be reinforced or strapped
- (f) Engine Compression Ratio: Cylinder compression limited to 175 lbs., measured with Toyota Speedway at Irwindale technical inspection gauges. All results are final.
- (g) Piston/Rods:
 - (1) No forged or pop-up pistons. Stock type cast replacement pistons only.
 - (2) No aftermarket performance or lightened rods. No grinding or polishing of beams allowed. After market rod bolts are allowed.
- (h) Oil Pans and Coolers:
 - (1) Engine oil pan must have a screw-in plug, minimum 1-inch diameter installed in upper reservoir area and safety wired in. Must not be obstructed by wind-age pans, baffles, etc.
 - (2) Engine oil pan may be racing aftermarket type and may contain baffles, provided installation does not require any installation or clearance modifications.
- (i) Cylinder Heads:
 - (1) Cylinder heads must be "stock factory production". Official interpretation of the words

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"stock factory production": A stock head will be characterized as a cylinder head which was offered as standard equipment with no performance advantage.

- (2) Any cylinder head not being standard replacement OEM equipment will be considered illegal. No special performance options will be allowed including, but not limited to, oversize valves, special cut valves, relocated intake or exhaust bowls or ports. No porting, polishing or gasket matching will be allowed.
- (3) Heads may be cleaned, hot tanked, or cleaned by another method which does not remove metal.
- (4) No grinding, shot-peening, acid etching, flow honing or any process to remove metal or change flow direction.
- (5) No Chevy Bow-Tie, Dart, World, or any other brand or manufacturer of aftermarket performance heads, street or racing.
- (6) Stock replacement valves only, including size, except SB Chevy - 1.94 intake, 1.50 exhaust
- (7) Maximum 3 angle valve job. All angles must be centered off the valve guide. No back cutting or undercutting of valves allowed.
- (8) Valve must be stock factory production specifications. No dual valve springs
- (9) All rockers maximum 1.50, stamped steel only. No long slot rockers, no roller rockers or roller tip rockers, no stud girdles allowed. Press in studs may be changed to screw in studs.
- (j) Crankshaft and Harmonic Balancer:
 - (1) No aftermarket performance or lightened crank shafts.
 - (2) Any hydraulic cam allowed with maximum lift of .425 inch small blocks, .455 inch big blocks. Subject to tech approval
- (k) Intake Manifold:
 - (1) No aluminum intake manifolds allowed, including factory performance manifolds.
- (l) Carburetor:
 - (1) No dual line double pumpers.
 - (2) Only allowable carburetor will be: (BOX STOCK ONLY EXCEPT AS NOTED)
 - (A) Holley - 2 barrel # 0-4412, 500 CFM
 - (3) Carburetor adapter to manifold permitted.
 - (4) No modifications allowed to any carburetor – exception: you may remove choke butterflies only.
 - (5) Two (2) throttle return springs are MANDATORY on all carburetors, mounted to the engine block.
 - (6) No electric fuel pumps, fuel injection, turbo chargers, superchargers, or pressure systems allowed.
 - (7) No controlled vacuum leaks allowed.
- (m) Air Intake: (air filter):
 - (1) Dry paper filter only. Top and bottom to be same diameter, no flow diverters of any type allowed. If car came with a hood scoop it must be filled in and smoothed over.
- (n) Aluminum V-belt pulleys permitted for the fan/water pump, crank and power steering pump.

6. ENGINE/CAR ELECTRICAL SYSTEM

- (a) Ignition System: Stock ignition only – no MSD type aftermarket performance parts allowed, including but not limited to, coil, module, cap, rotor, etc.
- (b) Starter: All cars will have starters in good working order with switches clearly marked, and accessible to the driver while strapped in, as well as from outside the car. All cars must be able to start on their own power to maintain their starting position.

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- (c) Battery: Battery must be mounted behind driver. No marine or plastic type boxes allowed. Subject to tech approval.
- (d) Electrical Switches and Locations: All cars must have battery cut off switch located in the ground cable, clearly marked within the driver's reach, and easily accessible from outside the car.
- (e) Accessories: After market gauges allowed, no plastic tubes to oil pressure gauge. No electronic traction control devices allowed.

7. ENGINE COOLING SYSTEM

- (a) General Cooling System: No anti-freeze or other coolant in radiators. Water only. Fineable offense for use of coolant water wetter allowed.
- (b) Fan: Stock fans only. Plastic fans allowed. No electric fans allowed. Fan clutch must be removed and changed to direct drive.
- (c) Fan Shroud and Ducts: Fan must remain in fan shroud.
- (d) Radiator: Must maintain stock radiator core support. Aftermarket aluminum radiator permitted mounted in stock location.
- (e) Overflow: Water overflow container required. One (1) quart minimum, vented out to the bottom right corner of the windshield, metal or plastic type only, mounted in engine compartment.

8. ENGINE LUBRICATION

9. ENGINE EXHAUST SYSTEM

- (a) Exhaust Manifold: No headers allowed. Stock cast iron exhaust manifolds only. No porting or polishing
- (b) Exhaust Pipes: Exhaust must extend behind driver. Maximum exhaust size 2 ½-inch. No 2 to 1 or cross over pipes allowed
- (c) Mufflers: An approved muffler is mandatory, must not exceed 95 db @ 100 feet.

10. DRIVE TRAIN

- (a) Rear end may be locked.
- (b) Automatic transmissions only. No two speeds unless it came originally in your car. Must be able to show proof.
- (c) All parts to remain stock.
- (d) Automatic transmissions must have functional torque converter.
- (e) Automatic transmissions may have an after market type fluid cooler, mounted in engine compartment.
- (f) Transmission:
 - (1) Transmission mounts must remain stock. May be reinforced or strapped
- (g) Wheels and Lug Bolts: Wheels may be reinforced. Maximum 7-inch steel wheel only. Steel stock type wheels only. No aluminum, magnesium or similar type wheels allowed. No bleeder valves permitted. 5/8-inch studs and large lug nuts MANDATORY on Right FRONT and REAR, and is recommended on left side. If flat tire or wheel loss occurs, it shall be mandatory to immediately, and in a safe manner, leave the race course.
- (h) One single wheel spacer 1/2-inch maximum may be used for clearance on the right front wheel only.
- (i) All four wheels must have the same offset.
- (j) Tires must be purchased from Toyota Speedway at Irwindale.
 - (1) Approved tires will be announced prior to the start of the season.
 - (2) Only Toyota Speedway at Irwindale approved tires, purchased at Toyota Speedway at

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Irwindale, is permitted.

- (3) No "soaking" or treatment of tires will be tolerated. Violators, or an attempt to violate the treatment rule will result in immediate disqualification for all of the events on that day, loss of all points and money earned for that event, plus a \$100.00 per tire fine for any tire deemed treated or altered.

11. FRAME REQUIRMENTS

- (a) Stock frames only. No modifications. No alterations of any type allowed.
- (b) No alterations, customizing, or reinforcing of the chassis, other than the roll cage.
- (c) Any sparking or dragging of any part may be cause for immediate posting (black flag) from a race, and you will not be allowed to continue until the problem is fixed and checked out by an official. Failure to comply with posting will result in immediate disqualification.

12. SUSPENSION

- (a) No modifying of suspension is allowed. Stock OEM sway bar may be adjustable.
- (b) Suspension parts must remain absolutely stock for that make and model of car – absolutely no cutting for clearance.
- (c) No stock mount racing shocks. No racing shocks painted to hide brand.
- (d) Stock replacement shocks only.
- (e) Pro Stock Shocks –ONLY AFTERMARKET SHOCK ALLOWED- Series SS100,SS200,SS201,SS300,SS400,SS401 & SS402.
- (f) Coil spring cars must have a safety cable running thru spring and attached to frame and rear end (if stock clamps are missing).
- (g) Stock replacement coil or leaf springs only.
- (h) Wheelbase Requirements:
 - (1) Minimum stock wheelbase allowed is 108 inch. Wheelbase must be within ½-inch side to side.

13. STEERING

- (a) Stock steering only. No after market parts designed to lower, widen, correct bump steer, or geometry.
- (b) No steering quickners allowed.

14. BRAKES AND COOLING COMPONENTS

- (a) Brake Components: Stock four wheel brakes required in good working order. All brakes must function. No inline adjustors allowed.

15. FUEL

- (a) All cars must compete with fuel dispensed from the track gas station only. Fuel must be ran as dispensed. No mixing of fuel grades.
- (b) All fuel must be 92,100, or 110 octane and run as dispensed. Fuels may not be blended. Different fuel octane grades may not be blended. Fuel must be the same as track base color with no exceptions.
- (c) The fuel shall be automotive gasoline only.
- (d) Fuel shall comply with ASTM D4814 entitled, "Standard Specification for Automotive Spark-Ignition Engine Fuel", except limited to liquid hydrocarbons only, Class A, B, C, D, or E, but without regard to geographical location or seasonal limitation.
- (e) Gasoline shall not be blended with: alcohols, ethers, or other oxygenates and it shall not be blended with aniline or its derivatives, nitro compounds, or other nitrogen containing compounds.

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- (f) No cooling or icing of any fuel or fuel component.
- (g) No Nitrous or similar type systems allowed.

16. FUEL SYSTEM

- (a) Fuel Cell: Fuel cell mandatory. Maximum 22 gallons. Fuel cell must have a ground strap from filler neck to frame. Fuel cell foam required.
- (b) Fuel Cell Container: Fuel cell must be encased in a container no less than 20-gauge steel. Securely fastened by four (4) 1/8-inch x 1-inch straps in trunk area (two left and two right, two front and two rear). Sheet metal of trunk floor may be removed to allow placement of fuel cell only, maximum 2-inch clearance around cell; cell may not be lower than frame rails. If floor is removed, fuel cell must be supported by a 1-inch x 1-inch square tube frame.
- (c) Fuel Filler and Vent Requirements: Tip over valve required on vent line.

17. PERSONAL SAFETY EQUIPMENT AND ROLL BARS

- (a) Aluminum professionally built high back racing seat with padded headrest required.
- (b) Seat must be securely bolted to a mount assembly that is an integral part of the roll cage.
- (c) Seat will not be attached to the floorboard.
- (d) A five (5) point safety harness, with quick release is mandatory with a 3-inch wide lap belt, 3-inch shoulder belts, and a 2-inch submarine belt. All belts shall be attached to roll cage using minimum 3/8 grade 8 hardware and safety cables.
- (e) Safety harnesses/seat belts may be no more than two (2) years old. If necessary, proof of purchase may be required.
- (f) Safety helmet must meet Snell SA 2000 or SA2005 testing standards, or SFI as indicated in the current NASCAR rule book.
 - (1) Helmets must bear proper identification, and have no signs of previous damage.
- (g) Window net mandatory.
 - (A) Minimum 1-inch mesh. Approved quick release required. No close mesh off-road type allowed. The latch must be mounted at the top in the front to roof bar or at the top of front roll bar leg, near roof bar, and release from the inside.
 - (B) All window screen mounts must be a minimum 1/2 inch diameter solid steel rod on the bottom and a minimum one (1) inch wide by 3/16 inch thick flat steel or a minimum 1/2 inch diameter solid steel rod on the top, with mounts welded to the roll cage.
- (h) Fire suit mandatory at all times.
- (i) Approved racing gloves mandatory.
- (j) Approved racing shoes mandatory.
- (k) Eye protection is mandatory and must be in proper place at all times.
- (l) All cars must have a fully charged fire extinguisher, a DuPont FE-36, or equivalent type, at least 10-B:C UL rating, with an operating pressure gauge, securely mounted to the right side of the driver's seat, and readily accessible for use.
- (m) Two (2) drive line straps, 1-inch x 1/8-inch required, to be mounted within 6-inch of the U-joints.
- (n) Oil catch can recommend for breathers.
- (o) All cars will be required to have in their pits a minimum of one 10B:C, Halon or dry chemical fire extinguisher. This is to be visible to tech officials and all crewmembers. All crewmembers must be made aware of its location, and knowledgeable in the use of the fire extinguisher
- (p) Car and driver will be required to make safety rule violations comply PRIOR to racing any event.

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(q) Roll Bars:

- (1) Driver's protection bars must remain within the driver's area. At no time may they pass through front firewall, no forward bars may protrude from roll cage.
- (2) A NASCAR-type, 6-point roll cage is required. Minimum 1 ½ -inch .090-inch wall gusset as necessary for strength.
- (3) Roll bar may not reinforce the body or frame to alter the geometry of the car, or to increase performance capabilities, but only serve as a safety feature.
- (4) A minimum of 4 door roll bars on each side.
- (5) Rear kickers are permitted. Speedway bar or right front kicker may be used.
- (6) Driver door bars must be covered with 1/8-inch thick metal plate top to bottom, from front and rear uprights, welded to outside edge of door bars. Roll bars must be padded at any point where a driver may come in contact. Padding must be approved roll bar padding only.
- (7) Roll cage must attach securely and safely to frame. Rear kicker may be attached to frame for safety purposes only, and must be covered. Rear down bars may not extend past the rear axle, and must be sealed where the bar goes through the rear firewall.
- (8) Radiator protection may be added, limited and subject to tech approval.