

## 2012 HICKORY MOTOR SPEEDWAY HOBBY STOCK RULES

### INTRODUCTION

This is a fun division designed to keep cost down so you can race at an affordable cost. Basically take a stock car and add the safety features (roll cage, fuel cell, racing seat, seat belts, fire control, etc.) NO high performance equipment permitted. Cars must be stock and use stock replacements parts for make and manufacture. If the rules below do not say you can do it, then don't!

**\$1000 fine for tire soak**

**\$100 fine for antifreeze**

### COMPETING MODELS

Any 1980 or newer 4-cylinder front-wheel-drive cars, coupes, sedans, or station wagons are allowed. NO trucks or vans allowed. NO rear-wheel-drive vehicles allowed. **No double overhead cam import vehicles allowed.**

### GENERAL BODY

1. Wheelbase must remain within +/- ½ inch of factory wheelbase.
2. Max wheelbase of 105 inches allowed. The body, frame, and suspension must remain completely stock! NO bracing allowed anywhere.

### BODY REQUIREMENTS

1. Body must remain stock unless stated below.
2. Plastic front inner fenders may be removed. All metal inner structure must remain stock.
3. All door inner shells must remain intact except driver's door to allow for cage.
4. 4 door bars in driver's door must contour outward within 3" of door skin.
5. Must have 4 bars outward on left. Either an X or 3 bars on right.
6. All doors must be welded shut or bolted.
7. All door jambs and lock pillars must remain stock.
8. Hood must remain stock, even the hinges must be stock and in working order. 2 steel hood pins minimum required to close hood.
9. Firewalls must be stock front and rear. Do not remove anything. Rear firewalls must remain stock and covered with 22-gauge steel.
10. All interiors must be removed along with flammable material (seats, headliner, carpet, door panels, etc.)
11. Stock steering column required. Headlights and taillight openings must be covered with metal.
12. Steering wheel must have pad in center.
13. Rear spoiler allowed, stock or fabricated. Width not to exceed width of rear deck, maximum height 4 inches, 50 to 60 degree angle.
14. No air ducts, scoops, etc.

#### **GLASS**

1. All glass must be removed. Windshield must be Lexan minimum 1/8 thick and have 2 metal supporting straps 1" wide, 1/8" thick installed inside in the center of windshield 6" apart and bolted top and bottom.

#### **WEIGHT**

1. All cars must weigh one (1) pound per actual cc of engine displacement and maintain minimum weight of 2200 pounds.
2. Weight must be displayed on right rear of hood.
3. Weight added must be at least 5-pound minimum and **must be painted white with car number**. No weight can be added in front of front wheels or behind rear wheels.
4. Weight **MUST** be bolted in car safely.
5. After race, fuel may be added to fuel cell, 2 quarts of oil maximum to engine, and water to radiator only.
6. Each week's race winner will be required to add 50 lbs to post-race weight for the next event. If the same driver wins the next event, they will be required to add an additional 50 lbs. This added weight will continue with each win until driver does not win 2 races in a row. After 2 non-wins, driver will be allowed to remove 50 lbs per week until they win again.

#### **ENGINE REQUIREMENTS**

1. 4-cylinder engines only, no turbo or super charged engines.
2. Must be completely stock for year model with stock engine mounts.
3. NO aftermarket high-performance parts allowed. All parts must be OEM.

#### **DETAILED ENGINE REQUIREMENTS**

1. Engine displacement must be stock as manufactured with a maximum overbore .045 inch including wear. Cranks must be stock with a maximum allowable .030 on rod and main bearings. No polishing or weight reduction of internal engine components. All OEM cast numbers must remain intact and unaltered.
2. Stock or replacement OEM pistons only.

#### **CYLINDER HEAD**

1. Heads must remain stock. All related parts must remain stock for make of engine.
2. No high performance or high compression heads allowed.

#### **CAMSHAFT**

1. Stock factory production camshafts only.
2. Engine must pull a minimum of 20 in vacuum at idle speed of 800 RPM. No tolerance.

#### **INTAKE MANIFOLD**

1. Stock production for make and model. No aftermarket manifolds allowed.

#### **CARBURETOR/FUEL INJECTOR**

1. No aftermarket spacers allowed.

#### **AIR CLEANER**

1. All air cleaners must be stock as manufactured.
2. No aftermarket allowed.
3. Paper elements only. Air must be filtered through element. No additives.

#### **ENGINE – CAR ELECTRICAL SYSTEM**

1. Only standard electrical system allowed. No aftermarket or high performance components allowed.
2. No aftermarket or reprogramming of engine management systems allowed.

#### **BATTERY**

1. Only one 12V battery allowed.
2. Battery must be enclosed in a steel box in rear passenger area and securely fastened to floor.
3. Battery may not be recessed through floor.
4. Battery may be located under hood in stock location.
5. No battery in trunk area.
6. May run battery master disconnect switch located in center of dash area.

#### **COOLING SYSTEM**

1. Stock cooling system only.
2. No racing radiators.
3. Stock fans only.
4. A/C system must be discharged.

#### **ENGINE LUBRICATION**

1. No oil coolers or remote oil filters.
2. Stock production only.

#### **EXHAUST SYSTEM**

1. Exhaust must be factory stock for year, make, and model.
2. Tailpipes and mufflers can be removed.
3. Exhaust must exit behind the driver.

#### **TRANSMISSION**

1. Transmission must remain completely stock for make and model.
2. Manual or automatic allowed, but must not be altered.
3. All forward and reverse gears must be operable from driver's compartment.

#### **TRANSAXLE**

1. Must remain completely stock for make and model.

#### **WHEELS/TIRES**

1. All four tires must be the same size.
2. Tires must be stock passenger radial tires, no soaking.
3. Minimum tread depth 3/32. Anything that the officials feel are slick tires may be drilled or taken.
4. Tire must be a minimum of 300-tread wear and must be visible from outside of tires.
5. Minimum tire profile 70 series.
6. Steel wheels only. Steel racing wheels allowed. No welding allowed on wheels.
7. Maximum wheel width 7".
8. Maximum backspace 3". All 4 wheels must be the same.

#### **FRAMES**

1. All frames must be stock. No reinforcements allowed. A stock steel floor pan must be unaltered.
2. Frame rails and sub frames must be stock for make model.
3. Minimum frame height is 5" with driver.
4. No more than 1" variance between left and right frame height.

#### **SUSPENSION**

1. Suspension parts must remain stock for make & model. No spacers or chains, etc.
2. No aftermarket racing springs, only stock OEM springs are allowed.
3. All bushings must be OEM rubber.
4. Shocks must be mounted exactly as stock. No racing shocks. Steel body only.
5. Maximum camber allowed is plus or minus 3 degrees in front and 1.5 degrees in rear.

**STEERING**

1. Stock steering components only.
2. Stock steering column only.
3. A quick disconnect steering wheel is recommended. It must be made of magnetic steel. No stainless steel or aluminum steering wheels allowed.
4. Racing steering wheel allowed and must be padded in center.

#### **BRAKES**

1. Standard production brake components only.
2. No brake bias or balance bar allowed.
3. Brakes must work on all 4 wheels at all times.

#### **FUEL SYSTEM**

1. Track or pump fuel allowed.
2. No additives.
3. Fuel cell required. 8 gallons maximum.
4. Fuel cell must be mounted in trunk area and be strapped and bolted down to trunk floor. Fuel cell cannot be recessed into trunk floor.
5. Minimum 4 straps on fuel cell.
6. Electric fuel pump may be used if car came with one from factory.
7. Cars with electric pump must have either a mercury cut-off switch with a steel braided line from pressure side of pump to the carburetor, or low oil pressure cut-off switch.

#### **SAFETY**

1. Must meet NASCAR standard on belts, window net, seat, etc.
2. NASCAR approved fire extinguishers required.
3. Extinguishers must be mounted with steel bracket to roll cage or steel floor or tunnel and within drivers reach.

#### **WINDOW NET**

1. A driver's side window net must be installed with quick -release as per LMSC.
2. No mesh or rope window nets,

#### **SEAT/BELTS**

1. A commercially manufactured racing seat made of aluminum mandatory. (No fiberglass). Seat must have pad or cover.
2. 5-or 6-point racing seat belt harness is mandatory and must be installed per manufacturer guideline.

#### **MIRROR**

1. One mirror is required mounted at top center of windshield area. No mirrors outside A-post or door.

#### **ROLL CAGE**

1. A minimum four-point roll cage with at least 4 door bars on driver's side and 3 bars of X on right. Driver's door bars must extend outward into door within 3 inches of outer skin 1 3/4 inch outside diameter .090 thick must be used.
2. Driver's door bars and all bars within driver's reach must be padded.
3. Door bars in driver's side must be plated with 1/8 steel outside.
4. No bars may go through firewall.
5. See figure in track rulebook for guidelines and details.

#### **CLAIMING RULE**

1. Claiming must be within 10 minutes of checked flag.
2. Only the winner's car may be claimed.
3. You must finish within 2 positions of winner to claim car.
4. Fee for claiming: \$ 1500.00 cash and exchange of your car to claimant.
5. Both cars must pass tech or claim is void.
6. Refusal to accept claim will result in loss of points and purse and suspension for next 3 Hobby Stock events.
7. Once a car is involved in a claim it cannot be claimed again for 3 events.
8. Each driver may use the claiming rule only once per season.

The purpose of the Claimer rule is to keep costs down so that racers can participate at an affordable cost. However, it is not, and was never intended to be, a vehicle to allow anyone to control the outcome of the points championship for the division. Winner's car (and all others) are still subject to HMS Officials Technical Inspections and protests.

**ANY ITEMS NOT COVERED IN THE ABOVE RULES WILL BE AT OFFICIAL'S DISCRETION.**