

## **Big 3 Racing Late Model Heads Up Class Rules**

### CLASS OVERVIEW

The Big 3 Late-Model Heads-up Class is an 1/8-mile, heads-up, small-tire class designed to showcase late-model Pontiac and GMC vehicles. Any '82 or newer Pontiac or GMC Bodied vehicle permitted. Model-year correct, factory installed, or LS-series are the only engines permitted in the Late Model Heads-up Class. The use of a single power-adder is permitted.

### RACING FORMAT

This class will be contested as an all-run, qualified-field, on an NHRA Sportsman Ladder with a .400 Pro Tree.

## **REQUIREMENTS & SPECIFICATIONS ENGINE: 1**

### BLOCK

Any OEM or factory-style cast iron or cast aluminum block permitted. Billet blocks are permitted.

### HARMONIC BALANCER

SFI Spec 18.1 balancer is required.

### ENGINE MOUNTS & LOCATION

Engine/motor plates and mid-plates are permitted. Engine block and cylinder heads cannot be in contact with the firewall.

### ENGINE COATINGS

The use of engine coatings is permitted.

### CRANKSHAFT

Any steel crankshaft is permitted.

### CONNECTING RODS

Any connecting rods are permitted.

### PISTONS & PINS

Any pistons and pins are permitted.

### PISTONS RINGS

Any piston rings are permitted.

### CAMSHAFT DRIVE SYSTEM

Any camshaft drive system is permitted.

### CAMSHAFT

Any camshaft is permitted.

### LIFTERS/LASH ADJUSTERS

Any lifters/lash adjusters permitted.

### CYLINDER HEADS

OEM or factory-style aftermarket cast iron or aluminum heads are permitted. Billet or one-off fabricated heads are prohibited.

## INTAKE MANIFOLD

Any intake manifold permitted. Fabricated, sheet metal, billet, and any tunnel ram intake manifold are permitted.

## NITROUS OXIDE

Any nitrous system allowed. Push systems are permitted. The use of water injection on nitrous assisted power-adder combinations are permitted; water is the only substance that may be used in water injection systems. The use of any agents other than nitrous oxide in the nitrous system is prohibited. Nitrous systems must only use gasoline for the fuel enrichment circuit. Nitrous systems must only be activated by a wide-open throttle switch. Maximum of two 15-pound nitrous bottles are allowed. All nitrous bottles must be stamped as meeting the minimum DOT 1800 psi rating.

## CENTRIFUGAL SUPERCHARGER

Supercharger impeller wheel must be constructed of aluminum only; the use of any other material is prohibited. The maximum supercharger air inlet is 6 inches. The injection of any substance in the compressor housing/volute air inlet, or the discharge side of the supercharger, is prohibited.

## SINGLE TURBOCHARGER

Accepted single turbochargers are limited to a maximum compressor impeller inducer diameter of 118mm/4.645 inches. Compressor wheel/impeller must be either cast, or billet aluminum. The turbocharger is permitted a fresh air source from either the front bumper or grille area of the vehicle.

## TWIN TURBOCHARGERS

Accepted twin turbochargers are limited to a maximum compressor impeller inducer diameter of 88mm/3.465 inches. Compressor wheel/impeller must be either cast or billet aluminum. The turbochargers are permitted a fresh air source from either the front bumper or grille area of the vehicle.

Turbocharger size will be verified by one or both of the following methods:

1. By measuring the housing bore at the leading edge of the impeller wheel. The maximum diameter of the housing bore at the leading edge of the impeller wheel may not exceed 2mm more than the maximum allowable turbocharger size permitted in this class.
2. By measuring the impeller inducer wheel where the leading edge of the inducer wheel meets the housing. The wheel/blade contour from the inducer to the exducer must be continuous without steps.

## INTERCOOLING

All boosted entries are permitted to use one intercooler. Intercoolers can either be air-to-air or air-to-water. Water and/or ice are the only agents allowed to be used with intercoolers. The use of any other agent to assist in the cooling of discharge and/or inlet air for boosted applications is prohibited.

## OILING SYSTEM

Any oil pump/system permitted.

## OIL RETENTION DEVICE

All entries are required to have an NHRA-accepted oil retention device.

## COOLING SYSTEM

Any cooling system permitted. Radiators are not required.

## EXHAUST SYSTEM

Any exhaust system permitted. All exhaust systems must be directed out of body and away from driver and fuel tank.

## FUEL SYSTEM

Any electronic, mechanical or belt driven fuel pumps are allowed. Electronic fuel pumps must shut off with the master electric cut-off switch. Non-OEM mechanical fuel pumps must have a quick-action fuel shut-off valve within easy reach of the driver and located in the main fuel line between the fuel tank and the carburetor and/or injectors. Fuel cell must have a pressure cap and be vented to the outside of the body. Front mounted fuel cells must meet SFI Spec 28.1 and be mounted between the frame rails or enclosed in a round-tube frame. The round-tube frame must be constructed of a minimum of 1 ¼ inch O.D. x .065-inch chrome moly tubing. Artificial cooling or heating of fuel (i.e., cool cans, ice, Freon, etc.) prohibited. Circulating systems that are not part of the normal fuel pump system are prohibited.

## EFI SYSTEM

Any electronic or mechanical fuel injection may be used. Fuel injector size and or type are unlimited.

## THROTTLE BODY

Any throttle body permitted. Boosted applications are limited to a single throttle body and all other entries are permitted two.

## CARBURETOR

Any carburetors are permitted, with a maximum of two carburetors. Split Dominators are permitted.

## THROTTLE LINKAGE

Throttle control must be operated by the driver's foot

## FUEL

Gasoline or methanol is the only accepted fuel allowed. Nitrous and twin turbocharged combinations are only permitted to use gasoline. Supercharged and single turbocharged combinations are permitted to use methanol. Nitromethane is prohibited.

## **DRIVETRAIN: 2**

### CLUTCH, FLWHEEL & FLYWHEEL SHIELD

Clutch and flywheel meeting SFI Spec 1.1 or 1.2, up to a twin-disc maximum is mandatory. Steel flywheel shield meeting SFI Spec 6.1 is mandatory. Flywheel shield cannot be modified for clutch adjustment and/or cooling holes

### MANUAL TRANSMISSION

Aftermarket transmissions with a maximum of 6 forward speeds are permitted. Clutch-less transmissions are permitted.

## AUTOMATIC TRANSMISSIONS

Any OEM or aftermarket automatic transmission is permitted. Any torque converter is permitted. Trans-brakes are permitted. Pneumatic, electric, hydraulic, etc. shifters are permitted. SFI 4.1 transmission shield, SFI 29.1 flex-plate and SFI 30.1 flex-plate shield required.

## DRIVELINE

Any drive shaft is permitted, drive shaft loop required.

## REAR END

Any OEM automotive type rear end permitted.

## **BRAKES, STEERING & SUSPENSION: 3**

### BRAKES

Front and rear hydraulic brakes are required. Automated brakes are prohibited. The application and release of the brakes must be a function of the driver. Dual reservoir master cylinder is required. Line-lock is permitted only on the front wheels using one line-lock button and solenoid. Any other electrical, pneumatic, hydraulic, etc. switch in the braking system is prohibited.

### STEERING

Any American production type steering system permitted.

### SHOCKS/STRUTS

Aftermarket stock-type shocks/struts permitted. Rear coil-over shocks are permitted. Spindle mount struts are permitted.

### FRONT SUSPENSION

Cross-member must remain in its original location, it may be notched for oil pan clearance or replaced with a fabricate tubular piece. Factory strut/shock towers are required. Bolt-on type caster/camber plates are permitted. Factory or aftermarket controls arms are permitted.

### REAR SUSPENSION

Stock-type torque arm or ladder bar rear suspension systems only. Rear frame rails must remain attached and in the stock location, may be notched for installation of mini-tubs.

### WHEELIE BARS

The use of wheelie bars is prohibited

## **FRAME: 4**

### FRAME

Front frame rails are required. Tubing forward of the strut tower or forward of the control arm mounting point is permitted. Back-halved cars are prohibited. Current NHRA chassis certification is required for any entries running 6.39 or quicker, or faster than 135 miles per hour.

### WHEELBASE

Entries must retain stock wheelbase dimensions plus or minus 1 inch. Maximum wheelbase variation from side to side is 1 inch.

## GROUND CLEARANCE

A minimum of 3 inches from the front of the vehicle to 12 inches behind front spindle centerline is mandatory. A minimum of 2 inches for the rest of the vehicle is mandatory (except for oil pan and exhaust headers).

## **TIRES & WHEELS: 5**

### TIRES

P275/60R15 D.O.T. drag radial tires required on any power-adder combinations, 28.0/10.5/R15 drag radial tires permitted on naturally aspirated cars. No "W" tires permitted.

### WHEELS

Aftermarket racing wheels permitted, bead locks required on power-adder combinations.

## **INTERIOR: 6**

### UPHOLSTERY

Aftermarket fiberglass or carbon fiber dash is permitted. A removable transmission tunnel is permitted.

### STEERING COLUMN/WHEEL

Aftermarket steering columns and steering wheels are permitted.

## **BODY: 7**

### BODY

Only '82 and newer Pontiac or GMC Body permitted. All vehicles must maintain a Factory OEM appearance for year, make and model being used. Lightweight body parts are restricted to the following: hood, fenders, bumpers, doors, and trunk-lid/deck-lid. Hood, trunk lid/deck-lid, and doors must be hinged or be lift off models.

### HOOD SCOOPS

Forward facing hood scoops are permitted for nitrous assisted and N/A entries and may not extend above the roof line. Vehicles that are equipped with an EFI system are not required to run a hood scoop. Carburetors must be completely covered by the hood or hood scoop.

### GRILLE

All entries are required to have an OEM type grille.

### WINDSHIELD & WINDOWS

OEM glass or NHRA approved Lexan is required.

### WING/SPOILERS

All entries are permitted to use rear wing/spoilers. Wing/spoilers are allowed a maximum length of 26 inches. Any adjustments to the wing/spoiler during a run are prohibited.

### STREET EQUIPMENT

OEM headlights and taillights for year of vehicle being used must be intact and operational.

### APPEARANCE

All cars in competition must be painted or wrapped. Advertising graphics are permitted on the body.

## **ELECTRICAL: 8**

### **BATTERIES**

Battery may be relocated and must be an automotive type.

### **IGNITION**

Any battery-operated ignition system permitted. Distributor-less ignition systems are limited to one coil per cylinder only.

### **MASTER CUTOFF**

A master cutoff switch is mandatory on all vehicles with a battery located in the trunk.

### **STARTER**

Aftermarket starters, in stock location permitted.

## **SUPPORT GROUPS: 9**

**COMPUTER/DATA RECORDERS** The use of data recorders is permitted.

### **BRACKET RACING AIDS**

The use of any bracket racing aids such as optical sensors, delay boxes, shutter boxes, throttle stops, etc. are prohibited. The use of any device (electrical or mechanical) that allows a driver to ascertain the position of their vehicle to the starting line is prohibited.

### **PRESSURIZED BOTTLES**

All pressurized bottles must meet D.O.T. 1800lb minimum specification.

### **TOW VEHICLES**

The use of tow vehicles is permitted.

### **CREW MEMBERS**

Each crew member must have the proper starting line credentials.

## **DRIVER: 10**

The driver when in the vehicle, from the ready line until the vehicle is safely stopped on the return road, is required to have all safety restraint systems (including the helmet) on and be securely fastened in the vehicle at all times.

### **CREDENTIALS**

A Valid state or government-issued driver's license beyond a learner's permit level is mandatory for cars running 10.00 or slower. A valid NHRA competition license is mandatory for cars running 9.99 or quicker, at NHRA Member Tracks. A valid NHRA or an IHRA competition license is mandatory at an IHRA Member Track.