

FACTORY STOCK

CLASS OVERVIEW

Factory Stock is designed for 1954 and newer Ford bodied vehicles with naturally aspirated 4.6L, 5.0L, & 5.0L Coyote engines. Maximum engine size is 31~~5~~³ CID and entries are limited to certain performance modifications.

Note: This set of class rules is presented to all competitors under the assumption that any modifications not specifically written within these rules shall be deemed illegal, unless the competitor has the expressed written consent from the NMRA Tech Director.

RACING FORMAT

This class will be an all run heads-up field, *NHRA Pro Ladder* on a .400 Pro Tree.

| <u>ENGINE</u> | <u>BASE CID</u> | <u>BASE WEIGHT</u> |
|---------------|-----------------|--------------------|
| 4.6L 2V | 289 | 2925 |
| 4.6L 3V | 289 | 3000 |
| 4.6L 4V | 289 | 3150 |
| 5.0L HO | 311 | 2800 |
| 5.0L Coyote | 305 | 3300 |

Note: All weights are with driver and rounded down to the nearest 5lb increment. A 15lb per CID weight penalty will be assessed to all engine combinations over there base CID.

WEIGHT ADDITIONS/DEDUCTIONS

- Entries using a Ford AOD, AODE, 5R55, 6R80, 4R70W automatic transmission may deduct ~~125~~²²⁵lbs from their original base weight.
- Entries using a C4 automatic transmission may deduct ~~100~~ ²⁰⁰lbs from their original base weight.
- Entries using Ford OEM 5.0L HO E7 cylinder heads may deduct 100lbs from their original base weight.
- Entries using Ford OEM 4.6L 2v cylinder heads may deduct 150lbs from their original base weight.
- 2005-present Mustangs with 4.6L 3V engine combination may deduct 100lbs from their original base weight.

REQUIREMENTS & SPECIFICATIONS

ENGINE: 1

ENGINE/BLOCK

Engines are limited to 5.0L HO, 5.0L Coyote, 4.6L Modular combinations and OEM Ford Racing Illuminator Engine, Part #M-6007-A50NA. All entries are required to use the Ford OEM drive belt system. 5.0L HO must use cast iron Ford type engine block. 5.0L Coyote must use Ford OEM

engine block. 4.6L Modular engines may use cast iron or cast aluminum engine block. Block must maintain OEM bore spacing, deck height, and crankshaft spacing for engine type being used. Deck spacers (extensions) prohibited. Main cap girdles are permitted. Lifter bore bushings are permitted.

HARMONIC BALANCER

Ford OEM or aftermarket harmonic balancer is permitted. 5.0L Coyote engines are permitted to use a balancer/crank pulley with a minimum diameter of 6.~~5370~~ inches. All other engine combinations are permitted to use a balancer/crank pulley with a minimum diameter 4.375 inches. All diameters will be measured from the top of the ribs located on the pulley.

ENGINE MOUNTS & LOCATION

Engine and cylinder heads cannot contact firewall. Solid engine/motor mounts are permitted. Engine/motor plates are prohibited.

ENGINE COATINGS

Engine coatings are permitted where lubricants are present and pistons. Cylinder head coatings of intake/exhaust port runners and combustion chambers prohibited. No coatings on intake manifold, intake runner or plenum area.

CRANKSHAFT

Ford OEM or aftermarket steel crankshaft permitted. OEM crankshaft stroke must maintain within +/- .010 inches. 5.0L HO: 3.000 inches. 4.6L Modular: 3.543 inches. 5.0L Coyote: 3.653 inches. Minimum rod journal diameter for all applications is 2.000 inches.

CONNECTING RODS

Ford OEM or aftermarket steel connecting rods are permitted. Ford OEM and aftermarket connecting rod length must maintain factory length within +/- .025 inches. 5.0L HO: 5.090 inches. 4.6L Modular: 5.933 inches. 5.0L Coyote: 5.933 inches.

PISTONS & PINS

Ford OEM or aftermarket pistons are permitted. Flat top design pistons are required for all applications except the 5.0L Coyote engines. 5.0L HO engine combinations minimum wrist pin diameter is .912 inches. 4.6L Modular and 5.0L Coyote engine combinations minimum wrist pin diameter is .866 inches. Gas porting is prohibited.

5.0L Coyote Piston: Aftermarket piston maybe forged or cast and must retain the as-cast or as-forged Ford OEM head configuration. The manufacturer or ID number must remain unaltered

and fully visible to determine correct application. Piston may not be re-machined for special rings, deck height adjustment, valve relief size, depth, location, or to modify dome. Piston must be of the same overall design with the same dome configuration as the original Ford OEM design and maintain a 3.47cc dome. Any piston modifications are strictly prohibited.

PISTON RINGS

The use of three pistons rings is required for all engine combinations.

TIMING CHAIN

Ford OEM or aftermarket stock replacement timing chain/chains are required on all engine combinations.

CAMSHAFT

Each engine combination must compete with the following camshaft specs:

5.0L HO: Hydraulic roller camshaft with any duration and lobe separation is permitted. Maximum valve lift at the retainer is .480.

4.6L 2V: Hydraulic roller camshaft with any duration and lobe separation is permitted. Maximum valve lift at the retainer is .575 intake/.575 exhaust.

4.6L 3V: Hydraulic roller camshaft with any duration and lobe separation is permitted. Maximum valve lift at the retainer is .439 intake/.436 exhaust.

4.6L 4V: Hydraulic roller camshaft with any duration and lobe separation is permitted. Maximum valve lift at the retainer is .430 intake/.430 exhaust.

5.0L Coyote: Unaltered Ford OEM (stock) camshafts required. Maximum valve lift at the retainer is .472 intake/.433 exhaust.

5.0L HO applications, valve lift will be checked at retainer with pushrod & rocker in "as run" condition using a blocked up OEM Ford hydraulic roller lifter set at zero lash. Duration/Lobe Separation will be checked with camshaft & hydraulic roller lifter in block and measured at the crankshaft. Lobe lift will be measured at the hydraulic roller lifter. For 4.6L and 5.0L Coyote applications, valve lift will be checked at retainer with pushrod & rocker in "as run" condition using a blocked up OEM Ford hydraulic roller lifter set at zero lash. Duration/Lobe Separation will be checked with the camshafts mounted in the cylinder head and measured at the crankshaft. Lobe lift will be measured at the cam lobe.

LIFTERS/LASH ADJUSTERS

Unmodified Ford OEM replacement lifters/lash adjusters are the only style permitted. All lifters/lash adjusters must be Ford OEM functional and may not be converted or modified to perform as a solid lifter/lash adjuster.

PUSHRODS

Only 5/16 inch outside diameter steel pushrods permitted. Pushrod guide plates are permitted.

ROCKER ARMS

Conventional stud or pedestal mount rocker arms permitted. Shaft rocker arms and stud girdles are prohibited.

VALVE SPRINGS & RETAINERS/LOCKS

Only steel valve springs are permitted. 5.0L HO engine combinations have a maximum seat pressure of 160lbs. Only steel retainers and locks are permitted.

CYLINDER HEADS

Porting or any modifying of cylinder heads for all engine combinations is prohibited.

Aftermarket steel valves are permitted. Maximum valve angle of +/- 2 degrees from the factory must be maintained on all applications. Please refer to list below for engine specific cylinder head specifications.

5.0L HO: Commercially available cast iron heads permitted. Maximum valve sizes are 1.850 intake/1.555 exhaust. Maximum valve stem diameter is .343. Minimum combustion chamber volume is 52.0cc.

4.6L 2V: Commercially available cast aluminum heads permitted. Maximum valve sizes are 1.850 intake/1.452 exhaust. Maximum valve stem diameter is .274. Minimum combustion chamber volume is 40.0cc.

4.6L 3V: Commercially available cast aluminum heads permitted. Maximum valve sizes are 1.368 intake/1.514 exhaust. Maximum valve stem diameter is .274. Minimum combustion chamber volume is 46.0cc.

4.6L 4V: Commercially available cast aluminum heads permitted. Maximum valve sizes are 1.487 intake/1.211 exhaust. Maximum valve stem diameter is .274. Minimum combustion chamber volume is 49.0cc.

5.0L Coyote: Ford OEM cast aluminum heads permitted. Maximum valve sizes are 1.458 intake/1.223 exhaust. Maximum valve stem diameter is .234. Minimum combustion chamber volume is 52.0cc.

Approved Cylinder Head List:

Below is the approved cylinder head list for this category. If a cylinder head is not on this list, it is prohibited.

- 1) Stock Ford OEM 5.0 HO Cast Iron Cylinder Heads
- 2) FRPP/SVO GT-40 Cast Iron Cylinder Heads
- 3) FRPP/SVO GT-40P Cast Iron Cylinder Heads
- 4) Stock Ford OEM 4.6 2V Cylinder Heads

- 5) Stock Ford OEM 4.6 3V Cylinder Heads
- 6) Stock Ford OEM 4.6 4V Cylinder Heads
- 7) FRPP/SVO 4.6 2-valve Cylinder Heads
- 8) Stock Ford OEM 5.0L C Cylinder Heads (2015 Coyote, M-6049-M50BR & M6050-M50BR & Cobra Jet prohibited.)**

Note:

** These heads must be used as-produced by Ford.

Stock/OEM cylinder heads are those that are factory produced production line cylinder heads by Ford.

INTAKE MANIFOLD

Only NMRA accepted intake manifolds permitted. Porting or any modifications performed to intake manifold is prohibited. Any height spacer between upper and lower intake manifolds is permitted. Removal of intake manifold secondary runner control system is permitted on 4.6L 4V engine combinations. As-cast aftermarket throttle body-to-intake manifold plenums are permitted for 4.6L 2V engine combinations.

Approved Intake Manifold List

Below is the approved intake manifold list for this category. If an intake manifold is not on this list, it is prohibited.

- 1) Stock OEM Mustang-specific 5.0L HO EFI Intake – Upper & Lower
- 2) Stock OEM Mustang-specific 4.6 2V Intake – Upper & Lower
- 3) Stock OEM Mustang-specific 4.6 3V Intake – Upper & Lower
- 4) Stock OEM Mustang-specific 4.6 4V Intake – Upper & Lower
- 5) Ford Explorer – Upper & Lower
- 6) SVT Cobra EFI – Upper & Lower, PN# M 9424 D51, M 9424 E51
- 7) SVO 4.6 2-Valve – Upper & Lower
- 8) Bullitt Ford OEM 4.6L 2-valve intake
- 9) Stock OEM Mustang-specific 5.0L C –Upper & Lower. PN#M9424 & Cobra Jet prohibited

OILING SYSTEM

Factory wet sump oil system is required for all entries. All external oil pumps, vacuum pumps and/or crankcase ventilation systems are prohibited. Stock Ford OEM oil pan is required on all entries except for 5.0L engines which can use Canton oil pan #13-600. All entries are permitted the use of windage trays, crank scrapers, etc.

COOLING SYSTEM

Any Ford OEM or aftermarket radiators permitted and must mount in the factory location. Complete factory core support is required. Ford OEM or aftermarket water pump is permitted.

Water pump must mount in the factory location and be crank driven by the factory type 6-rib serpentine belt drive system. Any cooling fan is permitted.

EXHAUST SYSTEM

All entries are permitted to use tubular headers with a maximum outside diameter primary tube size of 1 3/4 inches. Header collectors have a maximum diameter of 3 inches. Complete exhaust system with two mufflers is required. Maximum exhaust tubing diameter is 3 inches and must exit within 12 inches of the rear axle centerline.

FUEL SYSTEM

All fuel lines must originate and return to a single, non-segmented, fuel cell or Ford OEM fuel tank. Fuel pump must shut off with a master electrical switch. Any method of artificially heating or cooling fuel prohibited. A valve for removal of fuel for tech inspections is mandatory. Valve must be installed between injection and regulator. Aftermarket/fabricated fuel tank or cell permitted and must be located in trunk area. If tank or fuel filler is inside trunk, a bulkhead of minimum .032" aluminum or .024" steel must be used between trunk and driver compartment, and tank must be vented to outside of car. When used, fuel cells must have a metal box protecting the part of the fuel cell that is outside the trunk floor. Non-metallic fuel cells or tanks must be grounded to frame.

EFI SYSTEM

5.0L HO, 4.6L 2V, 4.6L 3V and 4.6L 4V push rod engines are permitted to use a NMRA approved stand-alone EFI system. Example: Holley, AEM, Fast Big Stuff 3 etc.... Functional OEM Ford EEC-IV, EEC-V, Spanish Oak or Copperhead engine control computer system required. Ford EEC-IV or Ford EEC-V speed density permitted for all combinations. Complete aftermarket mass air sensor is required on all engine combinations. Non-functional mass air sensors are permitted. Mass air system must be a draw-through design. Maximum diameter of mass air sensor for all engine combinations except 5.0L Coyote engine is 3.150 inches or 80mm. 5.0L Coyote engine combinations are permitted to use an aftermarket Cold Air Intake system with the mass air sensor no closer than 9 inches to the throttle body to the sensor and no further than 18 inches away from the throttle body to the sensor. Any size/type of fuel injector is permitted with a maximum of 8 injectors mounted in the stock location for engine combination being used. NMRA approved plug-in style chips and EEC add-ons are permitted.

Approved Computer Add-On List

Below is the approved computer add-on list for this category. If a computer add-on is not on this list, it is prohibited.

- 1) FRPP Extender & FRPP EPEC
- 2) Anderson Ford PMS
- 3) Autologic Plug-in EEC Chip
- 4) Superchips Plug-in EEC Chip
- 5) Hyperchip Plug-in EEC Chip

- 6) Diablo Plug-in EEC Chip
- 7) EEC Tuner
- 8) SCT Xcalibrator Series
- 9) SCT iTSX
- 10) DiabloSport Predator/InTune
- 11) DiabloSport Trinity
- 12) DiabloSport inTune
- 13) Moates Quarterhorse Chip minus download cable
- 14) HP Tuners/HP Tuners N-Gauge

AIR FILTER/CLEANER

Any aftermarket street legal automotive type air filter/cleaner is permitted. All incoming air must pass through an air filter.

THROTTLE BODY

Only mass produced, commercially available throttle bodies permitted. Single throttle body in stock location required. Maximum throttle body size is 2.755" (70mm) for 5.0L HO & 4.6 2V & 3V applications. 4.6 4V & 5.0L C must use unmodified, OEM-supplied stock throttle body. EGR spacer is not required. 4.6 2V engine using Bullet/SVO style intake manifolds must use unmodified, OEM-supplied stock throttle body.

THROTTLE LINKAGE

Throttle control must be operated by the driver's foot.

FUEL

VP Racing Fuels C-10 gasoline is the only fuel permitted. Entries will be subjected to random checks to verify legality of fuel being used. Failure to pass fuel check will result in disallowance of a run during qualifying or being disqualified during eliminations.

DRIVETRAIN: 2

CLUTCH

Clutch and Flywheel meeting SFI Spec 1.1 or 1.2 is required. Diaphragm Pressure Plate Assembly is required. Single Clutch Disc with a minimum of 10 inches in diameter is required. Factory style cable mechanism for clutch operation is required. 2005 and up Mustangs are allowed to retro-fit to the 79'---04' factory style cable mechanism. Clutch release must be manually operated by driver's foot. The use of electronics, pneumatics, hydraulics, or any other device is prohibited from affecting clutch system/operation. Unmodified Clutch Tamer is permitted. Steel flywheel shield meeting SFI Spec 6.1 is mandatory. Flywheel shield cannot be modified for clutch adjustment and/or cooling holes.

MANUAL TRANSMISSION

Only NMRA specified Ford OEM or aftermarket manual transmissions permitted. All transmissions are required to be unmodified from the manufacturer which also includes the following: helical or straight-cut gear sets, gear ratios, and counter shafts. All gear changes must occur directly from the driver. Pneumatic, hydraulic, electric, etc. shifters are prohibited. Clutch-less transmissions are prohibited. Clutch must be used to change gears in a conventional manner. Pro-shifting is permitted on all transmissions. All manual Transmission shifters must maintain an H pattern. Aftermarket shifter with a single pivot ball shifting arm that uses Ford OEM mounting holes is required. Floor-shift conversion kits are permitted.

MANUAL TRANSMISSION

~~NMRA approved manual transmissions only. Overdrive may be removed. All gear changes must be a direct action performed by the driver. Specific transmission gear ratios are permitted. Helical and straight cut gear sets are permitted. Pro-shifting of transmission is permitted. All other manual transmission modifications are prohibited. Any aftermarket shifter that uses stock type mounting points and single pivot ball is permitted.~~

Approved Manual Transmission & Gear Ratio List

Below is the approved manual transmission and gear ratio list for this category. If a manual transmission or gear ratio is not on this list, it is prohibited.

1. Tremec T5(a) - 3.35, 1.99, 1.33, 1.00
2. Tremec T5(b) - 2.95, 1.94, 1.34, 1.00
3. Tremec T45 - 3.37, 1.99, 1.33, 1.00
4. Tremec T56 (a) - 2.66, 1.78, 1.30, 1.00
5. Tremec T56 (b) - 2.97, 2.07, 1.43, 1.00
6. Tremec TR3550 - 3.27, 1.98, 1.34, 1.00
7. Tremec TR3650 - 3.38, 2.00, 1.32, 1.00
8. Tremec TKO/TKO-II - 3.27, 1.98, 1.34, 1.00
9. T5 w/G-Force PN#5000 Dog Ring - 2.92, 1.99, 1.34, 1.00
10. T5 w/G-Force PN#5000 Syncro - 2.94, 1.94, 1.34, 1.00
11. Tremec TR3550/TKO/TKO-II w/Liberty Gear PN#LG3500 - 2.92, 1.95, 1.34, 1.00
12. Tremec TKO-500 - 3.27, 1.97, 1.34, 1.00
13. Tremec TKO-600 - 2.87, 1.89, 1.28, 1.00
14. Tremec TKO w/Liberty Gear PN#LGT297- 2.97, 1.98, 1.34, 1.00
15. Tremec TKO w/Liberty Gear PN#LGT318-3.18, 2.05, 1.38, 1.00
16. T5 w/G-Force PN#5000 Dog Ring – 3.22, 1.99, 1.34, 1.00
17. Ford Getrag 3.66, 2.43, 1.69, 1.32, 1.00, .065
18. G-Force –G101A, GF4A – 2.933, 1.867, 1.333, 1.000
3.000, 1.870, 1.340, 1.000
3.173, 1.960, 1.346, 1.000
3.252, 2.009, 1.380, 1.000
3.300, 2.100, 1.406, 1.000

19. Jerico –DR4 -

20. Liberty -LCS 5000 4-Speed**

21. Andrews Transmission –A431 H-Pattern 4-speed**

**Contact NMRA Tech Department for permitted gear ratios

AUTOMATIC TRANSMISSION

Ford AOD, AODE, 5RSS, 6R80, 4R70W, & C4 are permitted. Lock-up style transmissions are prohibited. Overdrive may be removed. The use of trans-brakes is permitted. One piece steel and steel “bolt together” torque convertors are permitted. All other style torque convertors are prohibited.

DRIVELINE

Any steel or aluminum driveshaft is permitted. Carbon fiber driveshaft is prohibited.

REAR END

Any OEM automotive type rear end permitted.

BRAKES, STERRING & 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 braking system is prohibited.

STEERING

Any Ford OEM automotive production type steering system permitted.

SHOCKS/STRUTS

Stock replacement type shocks in the rear and struts in the front are required. Coil-over struts are permitted. Shock/strut must mount in stock location. Shocks/struts must be stand-alone and cannot be adjustable during a run. Rear coil over shocks are prohibited. Electronic programmable shocks/struts are prohibited. Spindle mount type struts are prohibited.

FRONT SUSPENSION

Stock, aftermarket or tubular type K-member permitted. K-member must mount in its original location. K-member may be notched for oil pan clearance. Factory strut/shock towers are required. Bolt-on type caster/camber plates are permitted. Factory or aftermarket controls arms are permitted.

REAR SUSPENSION

Stock rear type suspension is required. Racing style 4-link and ladder bar type suspensions are prohibited. Stock type suspension may utilize any commercially available direct bolt in shocks, springs, leaf springs or factory style 3-link/4-link suspension systems for the particular year/make/model of car being used. Leaf springs are allowed to be moved inboard. Torque arm style suspensions are only permitted on OEM equipped vehicles. Bolt-on traction devices, panhard bars and anti-roll bars are permitted.

~~Stock type rear suspension is required for year of vehicle being used. Ladder bar suspension systems are prohibited. Aftermarket direct bolt in suspension components are permitted. Ford OEM 3 and 4 link style rear suspension systems must retain factory angles and attachment points located on the body. Factory attachment points on the rear axle are allowed to be relocated.~~ Aftermarket sway bars are permitted.

WHEELIE BARS

The use of wheelie bars is prohibited.

FRAME: 4

FRAME

Front and rear frame rails must remain unaltered and in the stock locations. Sub frame connectors are permitted.

WHEELBASE

Entries must retain stock wheelbase dimensions of + or – 1 inch. Maximum wheelbase variation from left to right is 1 inch.

GROUND CLEARANCE

A minimum of 4 inches from the front of the vehicle to 12 inches behind front spindle centerline is mandatory. A minimum of 3 inches for the rest of the vehicle is mandatory (except for oil pan and exhaust headers).

TIRES & WHEELS: 5

TIRES

FRONT: DOT and non-DOT tires are permitted. Front tires must have a minimum width of 4.5 inches.

REAR: Permitted drag radial sizes are 275/50/15, 275/60/15, & 275/40/17 from the following manufacturers/brands: BF Goodrich Comp T/A Drag Radial, BF Goodrich G-Force T/A Drag Radial, Nitto NT555R Drag Radial and M/T ET Street Radial. The following Mickey Thompson Pro Bracket Radial part numbers are permitted: 3352R, 3353R 3354R, and 3355R.
26 x 8.5 bias-ply slick permitted.

WHEELS

Aftermarket racing wheels permitted. Spindle mount type front wheels are prohibited.

INTERIOR: 6

UPHOLSTERY

Must have full factory type upholstery, including carpet, door panels, headliner, and factory dash. Driver's and passenger's seats are required and mounted in the stock location. Aftermarket front seats and door panels are permitted. Rear seat, heater and A/C controls may be removed.

STEERING COLUMN/WHEEL

OEM or stock type steering column required. Steering column must have a factory appearance. Removable steering wheel is permitted.

PEDALS & PEDAL LOCATION

Stock type pedals and linkage in the factory location are required.

BODY: 7

BODY

Body must retain original appearances and profiles for year, make and model being used. OEM body shell must be intact. Light weight body panels are restricted to hood, bumpers and deck-lid/truck-lid or hatch. Hood may be a lift-off style and deck-lid/trunk-lid or hatch must be hinged. Lift off style deck-lid/trunk-lid or hatch is prohibited. Alterations or aerodynamic modifications are prohibited.

HOOD SCOOPS

The use of aftermarket forward facing hood scoops is prohibited. Ford OEM hood scoops are permitted and must be sealed off from fresh air. The use of cowl induction style hoods are permitted on any vehicle with a maximum height of 6 inches. Cowl height will be checked from the tallest point of the hood to the fender line.

COWL AREA

Complete Ford OEM cowl is required.

GRILLE

Grille must be full production for make, model and year being claimed. Covering in front of or behind the grille is prohibited.

BUMPERS

No body components, bumper add-ons, sill plates, chin spoilers, body kits, license plate frames, etc. are permitted to be added to the nose of the vehicle. "Outlaw" style bumpers are prohibited.

FIREWALL

Stock, unaltered firewall is required.

FENDER SPLASH PANS

Full, factory Ford OEM or aftermarket inner fenders are required. Optic Armor stock replacement windshield is permitted.

WINDSHIELD & WINDOWS

~~All~~ Ford OEM glass is required.

[Optic Armor stock replacement Windshield and Rear Glass permitted per manufacturers recommended specs.](#)

FLOOR

The entire floor, including transmission tunnel, and trunk floor must be unaltered and in the stock location.

WHEEL WELLS

Factory wheel wells/tubs are required. Widening/sectioning for tire fitment is permitted and must maintain a Ford OEM appearance. Aftermarket style mini-tubs are prohibited.

WING/SPOILERS

Rear wing/spoiler is permitted with a maximum length of 26 inches. Rear wing/spoiler will be measure from the transition point of the deck-lid/trunk-lid to the rear most portion of the wing/spoiler. Any adjustments to the wing/spoiler during a run are prohibited.

STREET EQUIPMENT

Headlights and taillights/brake lights are required.

APPEARANCE

All cars in competition must be painted or wrapped. Advertising graphics are permitted on the body. In order to be eligible for the NMRA official contingency program, all contingency sponsors' decals must be easily visible and located on the outside of the vehicle. Failure to do so can result in the driver forfeiting all claimed contingencies for that particular event. The NMRA does require all entries to run the following decals:

1. NMRA Windshield Banner: Decal needs to be located on the top of the windshield or just above the windshield located on the body.
2. NMRA Drag Racing Series: Decals (2) must be located on each side of vehicle. Either on the side windows or decals can be located on the body right beside the side windows.
3. Class Sponsor: Decal must be located on the passenger's side lower portion of the windshield.
4. VP Racing Fuels: Official Fuel decals (2) required. Must be located on each side of vehicle. (In a contingency decal manner)
5. Aerospace Winners Circle: Decals (2) must be prominently displayed on each side of vehicle. Failure to do so can result in the winning driver forfeiting his/hers Winner's Trophy & Payout.
6. Class & Competition Numbers: Numbers must be easily visible/legible and located on the front, back, and both side windows

ELECTRICAL: 8

BATTERIES/CHARGING SYSTEM

Battery may be relocated and must be an automotive type. Only a single battery may be present and or used in the vehicle during competition. Charging system must be functional and use OEM 6-rib belt that is crank driven.

IGNITION

Any battery operated ignition system is permitted. Any OEM Ford or aftermarket distributor permitted. (IE. MSD (Digital 6 or 7), HOLLEY, ETC) Distributor drive system must be stock Ford OEM as produced from the factory. All 4.6L 2-valve, 3-valve, 4-valve engines are permitted the use of any NMRA approved commercially available distributor and ignition system. Example: MSD Digital 6, Digital 7, Power Grid etc.

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

Only NMRA approved external data recorders, data loggers, are permitted. Any wide-band O2 device must be capable of only logging air/fuel ratio, and may not be run in closed loop with EFI or ignition system. Only a single O2 sensor is permitted to be installed in each header collector. Playback tachometers permitted including those that record driveshaft RPM. Laptops prohibited in vehicle during competition.

Approved Data Loggers:

- **Racepak: Sportsman Series/IQ3**
- **AEM: AQ-1**
- **Port-a-Tree Data: Electronic Switch Panel**
- **Computech: Data Max**
- **RPM Performance Products: DL10**
- **Performance Trends: DataMite III**
- **Altronics: DataQuest**
- **Holley Digital Dash**

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.

TOW VEHICLES

The use of tow vehicles is permitted. Vehicles must drive on/off or manually be pushed on/off the scales.

CREW MEMBERS

Each crew member must have the proper starting line credentials and must wear matching attire.

DRIVER: 10

DRIVER

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**

CRENDENTIALS

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 a NHRA Member Track. A valid NHRA or an IHRA competition license is mandatory at an IHRA Member Track.

Note: It is ultimately the competitor's responsibility to familiarize themselves with the NMRA class requirements as well as ***all NHRA safety requirements***. The competitor agrees they bear the ultimate responsibility when it comes to safety and how it complies with the NMRA and NHRA rule books. The competitor also agrees that no one else other than the competitor is in the best position to know about how their particular race car has been constructed and how to safely operate it.