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## Pure Stock Specifications

updated as of April 26, 2018

### ENGINES

- A.) Solid lifter cams allowed. **No rollers**
- B.) Roller Rockers Arms and Shaft Permitted.
- C.) No Titanium Valves.
- D.) Maximum Cubic Inch 410.
- E.) Any single Disc Clutch & Steel Flywheel permitted.
- F.) Aftermarket harmonic balancers are permitted.
- G.) Two (2) barrel carburetor including 500 Holley.
- H.) Any intake **not over 6 inches tall, no cutting or grinding.**
- I.) Carburetor spacer no more than 1" tall.
- J.) One gasket no more than 1/8" thick between carburetor and spacer.
- K.) Carburetor must fit gauge.
- L.) Gasoline only with no additives.
- M.) GM in GM, Ford in Ford, Chrysler in Chrysler, etc.
- N.) Headers will be allowed, except for 180 Degree Headers.
- O.) Any battery powered ignition.
- P.) Flat top or inverted dome pistons only.

### CYLINDER HEADS

- A.) Combustion of 60cc minimum
- B.) Head gasket thickness of .038 minimum.
- C.) Guide Plate allowed
- D.) All Cast Iron Only, valves must be in factory location

### TIRES

- A.) Any Hoosier tire, 1300 or harder, must punch a durometer reading of 40 minimum
- B.) Hoosier brand tires are the only brand that may be used.

# **Crate Pure Stock Specifications**

## **ENGINES**

- A.) GM 602/604 Crate Engine & Ford M-6007-D347SR/JR Crate Engine will be the only Crate Engine allowed.
- B.) Must have Seals in Place

## **TRANSMISSION**

- A.) **Direct drive transmissions such as Bert, Brinn or Falcon are permitted.**

## **CARBURETOR**

- A.) Any One (1) Carburetor not to exceed four (4) barrel and not to exceed 650 CFM.
- B.) Only work that can be done to carburetor is choke removal and shaft removal.

## **WEIGHT**

- A.) NO WEIGHT LIMIT

## **REAR SPOILER**

- A.) Maximum of 46 inches from the ground to the top of the spoiler and cannot pass rear body panels.

## **TIRES**

- A.) Open tire rule

## **APPEARANCE**

- A.) All crate cars will have a decal above the driver's door 2 inches in height stating CRATE.

## **NOTE**

- A.) All other rules for Crate Pure Stocks will follow pure stock rule set forth by Hagerstown Speedway.

# **Pure Stock and Crate Pure Stock Car Specifications**

## **CARS**

- A.) Any North American Made car 1960 through 1997.

- B.) CAMAROS, FIREBIRDS, MUSTANGS, CHEVELLE, AND THUNDERBIRDS are allowed.
- C.) Wheel base in accordance with factory body spec. GM- 108, Ford 105
- D.) Cars must remain stock.
- E.) Body, Engine, Frame must match make, ford in ford, GM in GM.
- F.) Modifications that are permitted are listed below.

## **BODIES**

- A.) Must be complete and stock appearing.
- B.) Generic body parts permitted, (all body panels and parts must have complete factory lines.
- C.) 5 star performance, ASA, All pro, etc. body or body parts will be permitted.
- D.) Aluminum or steel bodies are allowed.
- E.) The rear inside trunk area can be open to allow tech inspectors to easily view rear suspension.
- F.) Body must have bow in the side doors, no straight sides.
- G.) Doors must be welded shut. If stock body parts are used.

## **APPEARANCE**

- A.) Car must remain stock appearing as manufactured.
- B.) Wheel wells may not be altered except for minor trimming for clearance.
- C.) Floorboards and frames may be patched for rust.
- D.) All other holes will be covered individually.
- E.) The driver's feet and leg area, and the driver's door should be shielded for driver's safety using 1/8 inch steel or 1/4 inch aluminum.
- F.) No covering of roll cage or frame with sheet metal will be permitted.
- G.) The safety inspector will have the final word on the appearance.
- H.) Glass must be removed. (No broken glass allowed in door wells, trunk, or inside car. This will be checked.)
- I.) Screens or bars are mandatory in place of windshield.
- J.) Must have rear bumper cover with limited number of holes

## **SPOILERS**

- A.) Cannot pass rear body panels.
- B.) Deck height is 39" and spoiler height is 44" from ground to top of spoiler.
- C.) No rub rails allowed.

## **FRAMES**

- A.) All suspension components will remain as manufactured by the auto manufacturer for the body being used and have to be in factory mounts.
- B.) No adding any suspension components from different makes or years.
- C.) May be X braced supported for strength.
- D.) If car is used that is manufactured without a full frame, frame must be tied together.

## **ROLL CAGE**

- A.) Must be a (6) post design with a front roll bar following the windshield contour and the rear roll bar in back of the driver's seat.
- B.) Top of roll bar must be connected to form a box section and be at least four (4) inches above driver's head.
- C.) The 5th and 6th posts from top of roll cage to rear frame at firewall.
- D.) Bars must be securely fastened to frame by welding.
- E.) No screwed piped fitting allowed.
- F.) All roll bars must be a minimum of .125 wall thickness.
- G.) Seamless tubing of 1 1/2 inch or seamed tubing of two (2) inches outside diameter must be used.
- H.) Seat must be fastened to roll cage.
- I.) Roll cage can be extended into the engine and trunk compartments for bracing and driver safety.
- J.) Safety inspector will have the final word on roll cage and seat mounting.

## **WHEELS**

- A.) Cars must have reinforced wheels and oversized lug nuts, all four wheels.
- B.) Wheel width can be up to 12 inch maximum.
- C.) Must be steel.
- D.) Bead Locks are permitted.

## **REAR ENDS**

- A.) Rear-ends must be locked. Ford 9" rear ends and floater rears are permitted on any brand car.
- B.) Ford 9" rears and floater rears must run standard swing arm type suspension.
- C.) No independent rear suspension.

## **TRANSMISSION**

- A.) Standard straight gear, with forward and reverse working gears. **No direct drive transmissions such as Bert, Brinn or Falcon.**
- B.) Automatic transmission allowed.
- C.) Must have blow proof type bell housing or scatter shield when using standard straight gear transmission.
- D.) NOTE: Minimum or 1 1/2 inch check hole in scatter shield or Bell Housing.

## **ENGINE LOCATION**

- A.) The 2<sup>nd</sup> plug on Driver side in line with top ball joint.

## **FUEL SYSTEM**

- A.) Thirty-two gallon maximum safety approved fuel cell in a twenty (20) gauge steel box supported by two (2) one-eighth inch (1/8") by two inch (2") steel straps top and bottom to safely secure fuel cell.
- B.) All fuel cells must be mounted securely in trunk area of car.

- C.) Fuel line should run under floor of car.
- D.) Fuel shall be subject to testing at anytime.
- E.) Fuel Line must be in steel pipe 1 1/2" diameter from firewall to firewall if placed above floor board.
- F.) It is to be on the rights side of the car away from the driver and mounted on floor board.
- G.) NO wires in pipe
- I.) No Fuel Additives

## **DRIVE SHAFT**

- A.) The drive shaft must be a minimum of two inches (2") in diameter.
- B.) All drive shafts must be painted white.
- C.) Only one drive shaft is permitted.
- D.) A minimum of one (1) driveshaft hoop / sling must be fastened securely to the frame. It is recommended that two (2) driveshaft hoops / slings be used.
- E.) NO aluminum
- F.) Steel ONLY

## **SUSPENSION**

- A.) Only one spring per front and rear corners.
- B.) No stacking of springs.
- C.) Upper tubular A-Arms permitted
- D.) Must be equal length of factory original for both sides (no longer than 8" long on right, and 9" long on left).
- E.) Steel shocks only NO adjustables.
- F.) No Aluminum shocks
- G.) NO Shrader valves allowed.
- H.) NO coil-over suspension
- I.) NO 3 Link or Panhard bar Suspension

## **BRAKES**

- A.) Standard production brake components only.
- B.) Brakes must work on all 4 wheels at all times.
- C.) Dual Master Cylinders and Brake Adjusters are permitted.

## **WEIGHT LIMIT**

- A.) A minimum weight limit of 3000lb is in effect after the race with the driver and without adding anything to the car.
- B.) This weight limit is with driver and without adding anything to car.
- C.) If a car fails to make legal weight limit following a racing event, car and driver will be disqualified.