



HOBBY STOCK

2020 RULES

Drivers must be a Yakima Speedway member, 16 years of age or older, and registered as a Yakima Speedway Hobby Stock division driver. Any drivers or crew members, 16 to 18 years of age must present proof of age and sign a release form at the pit shack with a parent/guardian present. Anyone entering the pit area must have a pit pass.

See youth racing eligibility requirements in the track rules section regarding youth participation in this class.

The hobby division is designed to promote greater interest in stock car competition, to enable new and inexperienced drivers to compete in their own class. The intent is to allow individuals to be part of a great sport without spending a great deal of money. This class is an entry level, and every effort will be made to control the expenses and level of competition. If the rules of this class seemed to be restrictive, you should move to another class. Decisions and interpretation of the rules by the technical director, and race director, will be final. No changes from a stock car production automobile or component parts, except as listed IF IT DOES NOT SAY YOU CAN DO IT, YOU CANNOT! Any equipment that officials consider exotic, or not in the intent of the rules, will be considered illegal and confiscated. This is a hobby class.

1) COMPETING MODELS

- A. Open to the All-American made steel bodied passenger cars. 1965-2005.
- B. No station wagon, jeeps, convertibles, sports cars, or pick-ups. NO GEN4 CAMAROS

2) GENERAL RULES

- A. Minimum weight is 3200 lbs. with 55% left side and 48% rear. Any added weight must be painted white and clearly marked with car number. Weight may be added at the discretion of the officials in the intent of fair competition.
- B. Minimum wheelbase is 101" both sides plus or minus 1". Nada book will be used to determine wheelbase.
- C. Minimum ground clearance of all components, except exhaust will be 5". Exhaust with exhaust clearance is 3" All measurements will be made without driver.
- D. Engine, body, and frame must be of the same manufacturer. Except 602 crate can go in any manufacturer.
- E. Tires may not protrude more than one inch outside of original body lines.
- F. Racing radios recommended but not required. If no radios, you must run a receiver.
- G. **All lead for penalties must be added on the right side rail between the front and rear tires.** Penalty weights must be removable to check wait.

3) ENGINE SPECIFICATIONS

- A. Stock production V-8 engines only. No interchange between makes (Ford to Ford - GM to GM). Engine must be available to the general public to purchase.
- B. Any small block over 360 cubic inch must add 100 lbs. and a restrictor plate. Wait maybe added by race director for fairness of competition. 602 crate engines allowed with factory GM barcode seals. 602 crate, cannot be altered in any way **and must add 50lbs to right rail.**
- C. Engine must be stock OEM. All internal parts must be OEM, or OEM replacement parts, for make of the engine.
- D. Engine must remain in stock location.
- E. Pistons must be flat top only.
- F. Stock OEM steel rods only. Stock OEM, or OEM replacement crankshaft, either cast or steel. Minimum crankshaft weight of 47lbs.

- G. Hydraulic Cam shafts **ONLY**. No roller cams or solid lifters. No anti pump up lifters.
- H. No gear drives. Aftermarket distributors must have mechanical or vacuum advance, no electronic advance, after market modules, and/or coils permitted.
- I. Stock OEM cast cylinder heads only. No Australian heads allowed. GM, Ford, and Mopar performance heads not allowed. **Ford N Head**, GM Vortec, OR TBI heads not allowed. No porting, polishing, acid dipping, gasket matching ½ in. Max heads must have all casting marks and lines in place.
- J. Valve spring size may be changed. Maximum valve size:
 - 1. Chevy intake 2.02 exhaust 1.60
 - 2. Ford 351c (V4) intake 2.190 exhaust 1.709
 - 3. Ford 351c (2V) intake 2.040 exhaust 1.60
 - 4. Ford 351w intake 2.02 exhaust 1.60
 - 5. Mopar 318/340/360 intake 2.02 exhaust 1.600
 - 6. Mopar 383/440 intake 2.080 exhaust 1.740
- K. Any size screw-in or pinned studs, and guide plates allowed.
- L. No stud girdles.
- M. Roller rockers will be allowed.
- N. Exhaust manifold must be stock OEM.
- O. Headers are allowed with a **50 lb. weight penalty added to right rail**. 1 5/8" headers, non-step, underbody only.
- P. Maximum diameter on all exhaust parts is 2 ½ ". No polishing, grinding, or acid dipping allowed.
- Q. Fuel pump must be stock OEM, and mount in stock location for engine use. No electronic fuel pumps.
- R. No fuel cooling devices on, or around, the fuel system.
- S. Fluid dampeners allowed, except 602 crate.
- T. Stock steel or cast-iron flywheels only. NO aluminum, or racing, flywheels or clutches allowed.
- U. Must be stock steel pressure plate and single disc clutch only.
- V. Lightweight rotating assembly must add **50 lb. weight penalty to right rail**. Rear crank must be accessible for tech, unless rotating assemble declared, and 50 pounds added.

4) CARBURATER

- A. The carburetor must be stock OEM 2-barrel Holley 500 model 4412. Must have choke horn. No HP-ET or CT carbs allowed.
- B. Aluminum intake manifold allowed, with a 50 lb. weight penalty to right rail. Dual plane, no high rise, Edelbrock Performer Only.
- C. Stock cast iron automotive 2bbl manifolds only. No high-rise manifolds. No porting, polishing, acid dipping, or adding epoxy or similar substance allowed. Cast iron 4 barrel allowed with no weight penalty but must have restricted plate.
- D. Only round paper or washable/reusable (K&N style) air cleaners allowed. Minimum of 12" diameter and maximum 16" diameter. Minimum of 1 ½ "in height and maximum of 4" in height. The air filter may not be sprayed with any type of chemical or liquid other than recharge oil. Top and bottom must be the same diameter. The air cleaner top whole may not protrude more than 1" below the top of the lid. No K&N style tops or bases (air directing). Air must enter the car from the side of air cleaner. No tubes, funnels, or any other devices that may direct the air flow into the carb will be allowed. No air boxes.
- E. No tapered spacers. Max 1" thick. No CNC machined.

5) TRANSMISSIONS

- A. Any stock 3 or 4 speed manual transmission allowed. Automatic transmissions with full working torque converter allowed.
- B. All forward and reverse gears must be in working order.
- C. All cars must have an approved scatter shield around the bell housing, or a constructed shield of ¼ "steel over the bell housing section of the floorboard.

6) DRIVESHAFTS

- A. Drive shafts and universal must be 1 piece and made of steel.
- B. All drive shafts must be painted white.

- C. Must have 2-360-degree solid steel brackets no less than 2" wide and a ¼ "thick, or steel chain placed no more than 12" from each universal joint and fastened in such a manner to contain the drive shaft in event of failure.

7) BODIES

- A. Bodies must be OEM stock steel, and remain stock, except aftermarket noses and tail sections (with patent #) are allowed. Must be stock appearing and of same generation as rest of the car. Check with Speedway Officials if direct replacement of your car is not available, and you wish to cross body styles.
- B. Homemade doors may be used but must be built from steel no less than 20 gauge. No aluminum body panels. All holes in body caused by removal of lights etc. must be covered. Rear tail section must be covered. No holes or devices to funnel air out of the trunk area.
- C. All glass must be removed. All chrome strips, door handles, upholstery, sound deafening door panels, headliner, carpeting, floor pads, stock seats, and other items must be removed. The windshield and rear window must be of Lexan. Side deflectors not allowed in any side window.
- D. All body panels must remain stock appearing an intact. Trimming may be done for tire clearance only. Hood and deck lid may be lightened. No lowering of roof or fenders. No raising of quarter fender panels. No excessive gutting.
- E. Hood may not be raised in center to clear air cleaner. Hood must maintain stock contour. Maximum air gap at back of hood is 2 ½ ". Front fender inner panels may be removed. Rear inner fender panels must be enclosed with stock metal.
- F. No sharp edges allowed. All edges must be rolled, and bumpers must be strapped to fenders.
- G. Full floorboards and firewalls required. Must be stock and not manufactured from steel metal. Front and rear firewall must be sealed from driver's compartment
- H. If stock doors are used, they must be welded.
- I. Rear spoiler allowed. must be no wider than 54", and no taller than 6".

- J. Roof rails will be allowed one per side of roof. Must be located from top edge of windshield to the top edge of back window. Not to extend down and back window area or deck lid. Maximum of $\frac{3}{4}$ "hightail.
- K. Trunk/fuel cell area must be enclosed.

8) MIRRORS

- A. A rear side view mirror may not extend outside the body line of car.

9) RADIATOR

- A. Radiator must mount in engine compartment.
- B. Aftermarket aluminum radiators allowed; electric fans allowed.
- C. All cars must have a coolant catch can.
- D. No antifreeze allowed.

10) SUSPENSION

- A. All suspension components must be OEM, and without modification.
- B. Springs may be aftermarket racing springs minimum 5" diameter. Springs may be cut or bent.
- C. One shock per wheel. Mounted in the factory position. Factory type mounts only, no adapters. No racing shocks. Shocks must be steel and non-rebuildable. In 2021 will be mandating the AFCO Spec 10 Series sealed shock.
- D. Approved lowering blocks and ladders allowed. No spring sliders or adjustable spring perch.
- E. No camber in rear end.
- F. Strut type cars may slot front upper mounting mount to gain camber. Must continue to use factory mounting.
- G. Stock sway bar in stock position may be adjustable on one end only.
- H. Adjustable front and rear coil spring spacers allowed. Must have to pull spring to adjust.
- I. No weight jacks.
- J. Camber max left front 1"; right front 2"; measured with a square, on ground, at the side wall, at 5" ride height.

K. Stock non-adjustable trailing arms and upper links. Must be mounted in stock locations.

11) REARENDS

- A. Any OEM stock rear end allowed. Ford 9" allowed in any car. Open or welded allowed. Spools okay, no lockers of any kind allowed.
- B. Stock OEM brakes. Floaters allowed with disc brakes, must have OEM steel calipers.

12) BRAKES

- A. Four-wheel stock, foot operated, brake mandatory.
- B. Calipers must be of solid mounted, not free floating. OEM steel calipers only, front OEM rotors only.
- C. Disc brake rotors cannot be drilled.
- D. No proportioning valves are allowed, unless stock.
- E. Front brakes can be disc or drum.
- F. Aftermarket clutch pedals allowed.

13) FUEL CELL

- A. If the fuel cell is installed to the trunk floor, the car must have a bar installed at the rear end of the fuel cell. The bar must be a minimum of 1 ¾" X .090 thickness and must attach to the frame rails and extend down and across the bottom of the fuel cell, with a center support bar that attaches to the rear cross-member. (Protector bar is not required, if your fuel cell is installed above the floor of the trunk). Fuel cell height 11".

14) WINDOW SCREEN

- A. A nylon window screen must be installed in the left side glass opening. Must be made from nylon material. The minimum window screen size shall be 22" wide by 16" high. All windows screen mounts must be welded to the

roll cage. The window screen, when closed in a closed position, must fit tight and be secured with a quick release type lever.

15) FUEL

- A. Fuel shall automotive gasoline only.
- B. The gasoline should not be blended with alcohol, ethers, or other oxygenates. It shall not be blended with anine or its derivatives, nitro compounds or nitrogen containing compounds.
- C. The Speedway reserves the right to require all cars to use the same fuel.
- D. Any device to cool fuel not allowed.
- E. The use of a commercially manufactured fuel cell is mandatory.
- F. The normal fuel cell die dimensions are 32 5/8 "X 8 7/8 inches
- G. The maximum fuel cell capacity shall be 22 gallons.
- H. No other materials, other than the standard foam provided by the manufacturer, are permitted to make the fuel cell meet the 22-gallon limit.
- I. The bottom of the fuel cell must have a minimum ground clearance of 11".

16) WHEELS

- A. 8" maximum width steel only. White spoke or equivalent.
- B. Maximum offset is 2 inches, measured from back of wheel to lug nut seat.
- C. Wheel studs will be minimum of 5/8". Stud must pass completely through the nut when wheel is tight.

17) TIRES

- A. Tires are Hoosiers 970's. Tires must be purchased as new, or take off tires, from the Yakima Speedway.
- B. Tires may not be soaked, cut, or grooved to change design or hardness of the tire.
- C. Tech tire pressures are as follows: Left side 20psi max, Right side 30psi max. These pressures will be checked during tech.
- D. You may purchase 6 tires at Apple Cup, and then 2 tires per race after that.

18) HELMETS

- A. All helmets must be approved by officials BEFORE competition. It is recommended that all helmets meet specifications set forth by the Federal Motor Vehicle Safety Standard Regulation to the American Standards Institute Inc.
- B. All drivers must have fire suits.
- C. It is mandatory that all drivers wear racing gloves and racing shoes.

19) SEATS

- A. Aluminum racing type seat only. No fiberglass or stock bucket seat.
- B. A padded headrest approved by Tech Officials is required.
- C. Seat and Seat Belt must mount to the roll cage, not to the floor pan. Must use Grade 8 bolts and large, flat washers.

20) SEATBELTS

- A. A quick release lap belt, no less than 3" wide, is compulsory. Both ends of the lap belt must be fastened to the roll bar with high quality bolts, no less than 3/8" in diameter
- B. Shoulder harness must be at least no less than 3" wide and must come from behind the driver seat. Where the harness crosses the roll cage, it must pass through a steel guise welded to the roll cage, that will prevent the harness from sliding from side to side.
- C. Shoulder harness inertia reels cannot be used.
- D. A center (crotch) belt must be securely mounted to the lower seat frame at the bottom.
- E. Where the belt passes to the seat edges, it must have a grommet installed, be rolled, and/or padded to prevent cutting the belt.
- F. All steel belts, and shoulder harnesses, must connect at the lap with an improved quick release buckle.

- G. Seat belts must be dated by the manufacturer and must not be used beyond 5 years after the manufacture date.

21) ELECTRICAL SWITCH LOCATIONS

- A. It is required that a labeled on/off switch must be located on the roll bar behind the driver's seat. The switch must be wired to the battery cable in a manner that would cut off all electrical power to the car.

22) STEERING

- B. A steel quick release steering wheel is required.
- C. Center of steering wheel hub must be padded acceptable to Tech Officials.

23) ACCESSORIES

- A. Race cars will not be permitted to carry onboard computers, micro-controlled processors, recording devices, electronic memory chips, and digital readout gauges or traction control devices.
- B. Go pros are OK to use but will not be used for any scoring issues.
- C. Receivers, or radios, are mandatory, to be purchased or rented from the Yakima Speedway. To be used for instructions cautions, lineups, and disciplinary actions from the track officials to racers during events.
- D. Transponders must be placed 16" from the center of rear end on right rear corner.

24) MUFFLERS

- A. All cars shall be equipped with exhaust systems, including mufflers with no leaks or holes.
- B. No car shall exceed 95 dba at 75 feet.
- C. Maximum exhaust shall be no more than 2 ½ OD. Exhaust pipes must extend past driver an exit between door and rear tire.

25) BATTERY

- A. Battery may remain in the engine compartment, be securely mounted in an enclosed box accessible from under the hood or be relocated inside the car. If inside the car it must be securely mounted in a protective container. It can be no further back than the stock ends firewall and cannot protrude through the floor. The battery box will be a minimum of ¼" steel or aluminum, six-sided, and not significantly larger than the battery.

26) NUMBERS

- B. Minimum 24" high, 3 stroke, number is required in the door area (and only on door area) of both sides of car.
- C. Minimum 30" high, 3 stroke, number is required in the top of the car facing the right side.

27) FIRE CONTROL

- A. Race cars must have fire extinguishers securely mounted within reach of the driver. This extinguisher must be mounted on a metal mounting bracket (no fire extinguisher may be taped to the roll bars). It is strongly recommended that each car has built in fire extinguisher equipment but cannot be of the dry powder type.
- B. All entrants should have a fully charged 15lb. capacity dry powder fire extinguisher, or its equivalent, in their pits AT ALL TIMES. (showing current inspection certificate)
- C. It is ALWAYS mandatory that suits of retardant material be worn on the racing surface. Suit must effectively cover the body from neck to ankles and wrists.
- D. It is ALWAYS mandatory that fire retardant or leather shoes and gloves be worn on the racing surface.

- E. It is strongly recommended that AT ALL TIMES, drivers wear at least a two-layer driving suit, made of fire-retardant material, that effectively covers the entire body. It is also strongly recommended that drivers wear long underwear and headgear made of fire-retardant material
- F. It is strongly recommended that all times, while the car is being refueled, or while fuel is being transported from the pit area, all crewmen involved were at least 2-layer suit made of fire-resistant material that effectively covers the body. It is strongly recommended that the crew members wear long underwear, headgear, socks, gloves, and shoes made a fire-retardant material. Eye protection is also strongly recommended.

28) ROLLBARS

- A. Round steel tubing 1 ¾ "X .090 ". Minimum seamless diameter roll over bars are compulsory for the basic roll cage and must be approved by the tech committee. Aluminum and/or soft material not allowed. All connectors must be welded.
- B. On unitized bodied cars, the cage must be attached to 6" square plates, at least 3 3/16" thick. The plated must be fish-plated to the plates with the same specifications by four 3/8" bolts.
- C. A minimum of four door bars are required on the left side, with two door bars required on the right side. The left side door bar must curve out to the outermost part of the door skin. It is mandatory that a piece of 1/8" steel be welded to the door bars. The material must be placed between the door bars, and the door skin, and will cover the seat area.
- D. A dash bar connecting the front cage uprights required.
- E. A wing window bar is required in the driver's side and must be approved roll bar material.
- F. Any roll bars within the drivers reach, along with the steering hub, must be padded.
- G. No x-ing in frame rails.

IF YOU HAVE ANY QUESTIONS ABOUT THE PLACEMENT OR CONSTRUCTION OF THE CAGE, PLEASE CONTACT THE TECH OFFICIALS.

PLEASE NOTE:

Yakima Speedway will be strictly enforcing the noise rule of 95 DBA at 75 feet. Any competitor that is over the noise limit at any time, while on the racing surface, will be black flagged. The competitor will be allowed only one chance to meet the noise requirement. If competitor does not meet the noise rule, they will be disqualified for the remainder of the event. ENTRY FEES AND PIT PASSES WILL NOT BE REFUNDED. Any component deemed not within the intent of the rules by Yakima Speedway Officials, will be confiscated and become property of the Yakima Speedway.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT

DAN GARBER

(509)868-4577