

# YAKIMA SPEEDWAY

## SPORTSMAN

2012



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## EXPLANATION

Drivers must be Yakima Speedway members, 16 years of age or older, and registered as a Yakima Speedway Sportsman division driver. Any drivers or crew members, 16 to 18 years of age must present a notarized release, SIGNED BY BOTH PARENTS OR LEGAL GUARDIANS, to the Speedway before entering the pit area. Anyone entering the pit area must have a pit pass.

See Youth Racing Eligibility Requirements in Track Rules Section regarding youth participation in this class.

The SPORTSMAN division is designed to promote greater interest in stockcar competition, to enable new and inexperienced drivers to compete in their own class. The intent is to allow individuals to be part of this great sport without spending as great deal of money. This class is entry level and every effort will be made to control the expense and level of competition. If the rules for this class seem too restrictive, you should move to another class.

Decision on interpretation of the rules by the head Technical Inspector will be final. No changes from a stock production automobile or component parts, except as listed. IF IT DOESN'T SAY YOU CAN DO IT, YOU CAN'T. Any equipment that the officials consider exotic or not in the INTENT of the rules will be considered illegal. THIS IS A HOBBY CLASS!!!!!!!!!!!!

### 1. **COMPETING MODELS:**

Open to all American made steel bodied passenger cars, 1950 to 1993. No station wagons, Jeeps, convertibles, sports cars or pickups.

### 2. **GENERAL RULES**

- A. Minimum weight is 3200 lbs. With 55% left side. 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 interest of fair competition.
- B. Minimum wheelbase is 101". Both sides must be equal. NADA book will be used to determine wheelbase.
- C. Minimum ground clearance of all components, except exhaust, will be 6". Exhaust clearance is 4". All measurements will be made with driver out of car.
- D. Engine, body and frame must be of the same manufacturer.
- E. Tires may not protrude more than 1" outside of original bodylines.
- F. Any type of two way or similar communication devices are not allowed.

### 3. **ENGINE SPECIFICATIONS:**

- A) **Maximum 360 C.I.D., all makes.**
- B) 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.
- C) Engine must be stock OEM. All internal parts must be OEM or OEM replacement parts for the make of engine.
- D) Engine must remain in stock location.
- E) Pistons must be Flat Top only.
- F) Stock OEM steel rods only. Stock OEM crankshaft either cast or steel.
- G) Flat tappet hydraulic camshaft. No roller cams or solid lift.
- H) No gear drives or aftermarket distributors. Aftermarket modules and/or coils permitted

- I) No stroked or destroyed engines.
- J) Stock OEM cast cylinder heads only. GM Performance, Ford Performance and MOPAR Performance heads not allowed. G.M. Vortec heads not allowed. No porting, polishing, gasket matching or acid dipping allowed. Heads must have all casting marks and lines in place. Valve spring size may be changed. Maximum valve size. Chev – intake 2.02 – exhaust 1.60 – Ford – 351c –(4v) intake 2.190 – exhaust 1.709 – Ford 351c (2v) – 2.040 – exhaust 1.654 – Ford 351w – intake 2.02 – exhaust 1.60 – Mopar 318 / 340 / 360 / intake 2.020 – exhaust 1.600 – Mopar 383 / 440 intake 2.080 – exhaust 1.740.
- K) Stock diameter screws in or pinned studs and guide plates allowed. No stud girdles.
- L) Stock rocker arms only. No grinding on rockers. Roller rocker or roller tip rocker arms not allowed.
- M) Exhaust manifolds must be stock OEM from a standard production car. No headers or header type manifolds allowed. Maximum inside diameter on all exhaust parts is 2 1/4". No polishing, grinding or acid dipping allowed.
- N) Fuel pump must be stock OEM and mount in stock location for engine used. No electric fuel pumps. No fuel cooling devices on or around fuel system.
- O) Fluid dampeners allowed
- P) Stock steel or cast iron flywheels only. No aluminum or racing flywheels or clutches allowed. Must be stock pressure plate and single disc clutches only.

#### 4. CARBURETOR AND INTAKE:

- A) The Carburetor will be stock OEM 2 barrel to manufacturer. A track provided restrictor plate will go between the intake manifold and the carburetor with gaskets on either side of the plate. A 1/4 inch gasket shall be used between the carburetor and plate. A paper gasket (max. thickness of .065") shall be used between the plate and intake manifold.
- B) Stock cast iron automotive 2bbl. manifolds only. No high rise manifolds of any kind. No porting polishing, acid dipping, or adding epoxy or similar substances allowed.
- C) Only round paper or washable/reusable (K&N style) air cleaners allowed. Minimum of 12" diameter and maximum of 16" diameter. Minimum of 1 1/2" in height and maximum of 4" in height. The air filter may not be sprayed with any type of chemical or liquid other than recharging oil. The top and bottom must be the same diameter. The air cleaner top hole may not protrude more than 1" below top of lid. No K&N style tops or bases (air directing). Air must enter the carb from the side of air cleaner. No tubes, funnels or any other device that may direct the flow of air into the carb will be allowed. No air boxes.

#### 5. TRANSMISSIONS:

- A) Any stock three, four or five speed manual transmission allowed. No six speeds. Automatic transmissions with a full size working torque converter allowed.
- B) All forward and reverse gears must be in working order.
- C) All cars with a manual transmission must have an approved scattershield around the bellhousing or a constructed shield of 1/4" steel over the bellhousing section of the floorboard.

#### 6. DRIVESHAFTS:

- A) Driveshafts and universals must be of one piece and made of steel.
- B) All driveshafts must be painted white.
- C) Must have two 360 degree solid steel brackets, no less than 2" wide and 1/4" thick or steel chain placed not more than 12" from each universal joint and fastened in such a manner to contain the driveshaft in the event of a failure.

#### 7. BODIES:

- A) Bodies must be OEM and remain stock except as listed. **Aftermarket noses and tail sections allowed but must be stock appearing and of same generation as rest of car. Check with speedway officials if direct replacement of your make of car is not available and you wish to cross body styles. Example: The use of an 80's model Monte Carlo nose on a Chevy Nova, etc.** 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.

- B) All glass must be removed except the windshield and **rear window**. All chrome strips, door handles, upholstery, sound deadening, door panels, headliner, carpeting, floor pads, stock seats and other items must be removed. **The windshield and rear window must be of Lexan (Polycarbonate). Rear window allowed.** Side air deflectors not allowed in any side windows.
- C) All body panels must remain stock and intact. Hood and deck lid may be lightened. **Hood may not be raised in center to clear air cleaner. Hood must maintain stock contour.** Front fender inner panels may be removed and rear inner fender panels must be enclosed with the stock panel or sheet metal.
- D) No sharp edges allowed. All edges must be rolled and bumpers strapped to fenders.
- E) Full floorboards and firewall required. Must be stock and not manufactured from sheetmetal. Front and rear firewall must be sealed from driver compartment.
- F) If stock doors are used they must be welded.
- G) **Rear spoiler allowed. Must be no wider than 54" and no taller than 4".**

#### 8. MIRRORS:

- A) A side rear view mirror may not extend outside the bodylines of the car.

#### 9. RADIATOR:

- A) Radiator must mount in engine compartment.
- B) Aftermarket aluminum radiators allowed. Electric fans allowed.
- C) All cars must have a 1 gallon catch can.
- D) ANTIFREEZE NOT ALLOWED.

#### 10. SUSPENSION:

- A) All suspension components must be OEM and without modifications.
- B) Springs must be OEM type. Springs may be cut or bent.
- C) One shock per wheel, mounted in the factory position. No racing shocks. Shocks must be steel and non-adjustable.
- D) Approved lowering blocks and ladders allowed.
- E) All suspension mounting points must be stock and untouched. Camber adjustments can only be made using longer bolts, shims etc. Material cannot be added to aid in adjustments. Other methods may not be used to affect any other geometry adjustments such as ball joint shims, etc.
- F) Stock sway bar in stock position may be adjustable on one end only.
- G) Adjustable spring spacers allowed but link must be broken to adjust. No weight jacks.

#### 11. REARENDS:

- A) Stock open rear ends for make and model only. No truck or quick-change rearends allowed. No locked or welded rear-ends. Posi-traction, limited slip, tight side or spider gears not allowed. Rearend must rotate freely when turned by hand.
- B) **AFTERMARKET AXLES STRONGLY RECOMMENDED – ESPECIALLY ON THE RIGHT REAR.**

#### 12. BRAKES:

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

#### 13. FUEL CELL:

- A) If the fuel cell is installed through the trunk floor, the car must have a bar installed at the rear of the fuel cell. The bar must be a minimum of 1 3/4" 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 fuel cell is installed above the floor of the trunk).

#### **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 window screen mounts must be welded to the roll cage. The window screen, when in the closed position, must fit tight and be secured with a quick release type lever.

#### **15. FUEL:**

- A) Fuel shall be automotive gasoline only.
- B) The gasoline shall not be blended with alcohol, ethers, or other oxygenates and it shall not be blended with anine, or its derivatives, nitro compounds or other 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 dimensions are 32 5/8" by 8 7/8".
- 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) Eight inch maximum width steel only, white spoke or equivalent.
- B) Minimum offset is 2", measured from back of wheel to lug nut seat.
- C) Wheel studs will be a minimum of 5/8". Stud must pass completely through nut when wheel is tight.

#### **17. TIRES:**

- A) **Tire will be Goodyear 2637 (7 1/2"). Tires must be purchased from Yakima Speedway.**
- B) **Tire Purchasing Rule: All teams may purchase an unlimited supply of tires previous to the first race of the season (Apple Cup). This will provide each team the opportunity to have ample testing time on new tires.**  
**At the individual teams first race (4) tires will be stamped to race the Main Event on. Those tires must be ran for (2) races and a majority of the Main Event laps (aka, equal or more than 1/2 of scheduled laps) on the racecar in which they are registered to. For each team's third race, they may purchase (4) more tires that will be stamped and recorded as race tires for that car only.**  
**For example, if a team races every race and completes no less than 1/2 the main event laps, they would be allowed to purchase (4) tires every other race.**
- C) Tires may not be soaked, cut, grooved to change the design or hardness of the tire.
- D) Tech tire pressures are as follows; Left side 18-20 psi, Right side 28-30 psi, these pressures will be checked during tech.

#### **18. HELMETS:**

- A) It is recommended that all helmets meet the specifications set forth in the Federal Motor Vehicle Safety Standard regulations or the American Standards Institute, Inc. ALL HELMETS MUST BE APPROVED BY OFFICIALS BEFORE COMPETITION.

#### **19. SEATS**

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

#### **20. SEAT BELTS AND SHOULDER HARNESS:**

- 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, not less than 3/8" in diameter.
- B) Shoulder harness must be no less than 3" wide and must come from behind the driver's seat. Where the harness crosses the roll cage, it must pass through a steel guide welded to the roll cage that will prevent the harness from sliding from side to side. Shoulder harness inertia reels cannot be used.
- C) A center (crotch) belt must be securely mounted to lower seat frame at the bottom.
- D) Where the belt passes through the seat edges, it must have a grommet installed, be rolled, and/or padded to prevent cutting the belt.
- E) All seat belts and shoulder harnesses must connect at the lap with an approved quick release buckle.
- F) Seat belts must be dated by the manufacturer and must not be used beyond five years after the manufacture date.

**21. ELECTRICAL SWITCH LOCATION:**

- A) It is required that a labeled on/off switch 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:**

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

**23. ACCESSORIES:**

- A) Racecars 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) **Raceciewers are MANDATORY, to be purchased from the Speedway.** To be used only for instructions (cautions, line ups, etc.) from the track officials during events.

**24. MUFFLERS:**

- A) All cars shall be equipped with exhaust systems, including mufflers with no leaks or holes.
- B) No cars shall exceed 98 DBA at 75 feet.
- C) Maximum exhaust shall be 2 1/4" OD Exhaust pipes must extend past driver and exit between door and the rear tire.

**25. BATTERY:**

- A) Battery may remain in the engine compartment, be securely mounted in an enclosed box and accessible from under the hood or relocated inside of car. If inside of car, it must be securely mounted in a protective container. It can be no further back than the stock rear firewall and cannot protrude through the floor. The battery box will be a minimum of 1/4 inch steel or aluminum, six sided and not significantly larger than the battery.

**26. NUMBERS:**

- A) A minimum 24" high, three stroke number is required on the door area (and only on door area) of BOTH sides of car. A minimum 30" high, three-stroke number is required on the top of car facing the right side.

**27. FIRE CONTROL:**

- A) Racecars must have fire extinguishers securely mounted within reach of the driver. This extinguisher must be mounted on a metal mounting bracket (no extinguisher may be taped to roll bars). It is strongly recommended that each car has built in fire extinguisher equipment but it cannot be of the dry power type. All entrants should have in their pits at all times of fully charged 15 pound capacity dry powder fire or its equivalence, showing current inspection certificate.
- B) It is mandatory that AT ALL TIMES suits of fire retardant material that effectively cover the body from neck to ankles and wrists, along with fire retardant or leather shoes, be worn on the racing surface. 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, headgear made of fire retardant material. It is required that the driver wears leather or fire retardant gloves and shoes.

- C) It is strongly recommended that at all times, while the car is being refueled or while fuel is being transported from the pit area, all crewmen involved should wear at least a two layer suit made of fire resistant material that effectively covers the body. It is also strongly recommended that the crew members wear long underwear, headgear, socks, gloves and shoes made of fire resistant material, plus protective eyewear.

## **28. ROLLBARS**

- A) Round steel tubing 1 3/4" x .090 in minimum seamless rollover bars are compulsory for the basic roll cage and must be approved by the Tech committee. Aluminum and or other soft metals are not allowed. All connectors must be welded.
- B) On unitized bodies cars, the cage must be attached to 6" square plates, at least 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 4 door bars are required on the left side, with two bars required on the right side. The left side door bars 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 is required.
- E) A wing window bar is required on the drivers side and must be approved roll bar material.
- F) Only two bars (one each side) may pass through the firewall. The bars will attach to the front roll bar cage legs and attach to the radiator protector bar, with no additional supports. Two bars may attach to the rear roll cage legs and must extend past the fuel cell.
- G) All roll bars within the drivers reach, along with the steering hub, must be padded.
- H) No bars, x-ing or tying frames together under the car.
- I) The radiator protector will consist of a maximum of five bars, maximum 1 1/2" I.D. schedule 40 tubing, located in the following positions. Two bars upward from the frame horns, one bar across the front of the radiator, two bars mounted to the frame in front of the A-frames and connected to the upright bars.
- J) No bars may be wider than the front frame horns.

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

YAKIMA SPEEDWAY WILL BE STRICTLY ENFORCING THE NOISE RULE OF 98 @ 75 FEET – ANY COMPETITOR THAT IS OVER THE NOISE LIMIT, AT ANY TIME WHILE ON THE RACING SURFACE WILL BE BLACK FLAGGED – 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 FUNDED –

ANY COMPONENT FOUND TO BE DEEMED NOT WITHIN THE INTENT OF THE RULES, BY YAKIMA SPEEDWAY OFFICIALS, WILL BE CONFISCATED AND BECOME THE PROPERTY OF YAKIMA SPEEDWAY

