



POWRi Restrictor Specifications

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1. Bodies

- a. All cars must have complete bodies. Tail sections must be in place for time trials and all races. There must be a metal firewall between the driver and engine, made of 24-gauge steel or .0625: aluminum.
- b. The body of a car must be made of aluminum, metal, fiberglass, or high impact plastic. All cars must be painted an attractive color or colors. No rear view mirrors. The only part of the car allowed to be dismantled for driver to enter or exit is a quick release steering wheel hub.
- c. The minimum opening on the right side of the car will be 14" from the top of the roll cage to the top of the mud guard or sissy bar and 16: minimum from the front down tube to the back.
- d. All mechanically operated devices must be mounted below the driver's shoulders for safety.
- e. No mechanical, electrical or hydraulic adjustments will be allowed in the cockpit area on multi-cylinder cars.
- f. If you chose to have an inside pan hard adjuster, it must be bolted to where it cannot be moved during a race by the driver.
- g. All fuel tanks must be equipped with a one-way check valve designed to prevent the spillage of fuel from the fuel tank vent in the event of a rollover.

2. Cockpit

- a. Absolutely no cockpit adjusters (shocks, wing, Jacobs ladder, Panhard bars etc.) are allowed.
- b. Panhard adjusters can be bolted to not allow driver to adjust during competition.
- c. All shock adjusters must be completely out of the car, not only disconnected.

3. Electrics and Electronics

- a. On and off switches must be on dash, top of the cowl or on steering wheel. On/off switch must be connoted and functional.
- b. No radio communication is allowed with the car or the driver.

4. Engine

- a. 600cc 4-cylinder 4 stroke as comes on a stock production bike for public sale in the U.S.A. No current year production engines.
- b. Except as noted, all internal and external engine parts must remain stock with no modifications, metal removal, blueprinting.
- c. Valve seat inserts may be reworked. Valves must remain as produced with no modifications. Valve springs may be shimmed with standard or aftermarket shims.
- d. Cylinder head combustion chambers may be cleaned by bead blasting with valves seated in place. Intake and exhaust ports may not be bead blasted.
- e. Cylinder head gaskets may be replaced only with original equipment manufacturer's stock parts (All 3 layers of the head gasket must be used). All other gaskets may be replaced with duplicate aftermarket parts.
- f. Light cleaning of gasket surfaces with steel wool, Scotch-Brite, etc. is allowed. Transmission gear may be shimmed only for the purpose of proper engagement.
- g. Standard or aftermarket shims may be utilized. Aftermarket cam chain tensioner allowed for safety of motor.
- h. Fuel injection engines can run carburetors. Fuel injection engines running carburetors may change all fuel metering devices to tune fuel curve. Injection must be OEM, stock

OEM throttle bodies no mixing manufacturers (i.e., Suzuki on Suzuki, Yamaha on Yamaha etc.) with OEM Boots in place.

- i. Modification of oil pan & pick up allowed or aftermarket ok.
 - j. Modification to thermostat cover allowed or aftermarket ok.
 - k. Modification to water pump Cover allowed or aftermarket ok.
 - l. Any air box, stock appearing CDI, aftermarket washable replacement air filter.
 - m. Any 600cc OEM CV carburetors (no flat slides allowed). Stock ECU, PE3-IG2 and PE3-8400 Engine control units are permitted for use with carburetors and Stock Fuel Injection.
 - n. Joes Racing Product Tulsa Shootout Carb Adapter (they will be labeled with TSO.) Restrictor Plate must be King Racing Product Restrictor Plate .750" inside diameter. No exception.
 - o. Any tampering with or altering will result in disqualification.
 - p. All stock classes will be allowed to run Electronic or Mechanical Injectors with a mechanical fuel pump with stock OEM throttle bodies or carbs ONLY will be allowed. No mixing of manufacturers.
 - q. No Wheel Sensors of any kind for traction control.
 - r. No Sprocket or Transmission sensors for Traction Control.
 - s. NO TRACTION CONTROL of any type specifically listed or not.
- 5. Fuel**
- a. Class "A" 600cc powered cars may run methanol. Upper end lubricants are allowed. NITRO products are NOT allowed.
- 6. Roll Cage**
- a. Roll cages shall be at least 1" .062 wall thicknesses, or 1 1/8" .065 wall thicknesses, or 1 1/4" .065 wall thicknesses.
 - b. Roll cage shall be made of chromoly steel or equivalent material. The front section of the cage shall be no further back than the steering wheel.
 - c. The roll cage shall have sufficient fore and aft bracing and strength to support the weight of the car & driver in case of an upset. Cage shall have gussets at the intersecting bars to the uprights.
 - d. Bends must have at least a 3" radius. No square or pointed corners allowed. Roll cage must be a minimum of 3" above the driver's helmet.
 - e. It is mandatory to install a cross brace behind the seat to support the shoulder harness.
- 7. Shocks**
- a. Any shock absorber is legal, except no cockpit adjustable shocks.
- 8. Steering**
- a. Front wheels must be connected by a solid or tubular tie rod. Rear wheel drive only. All suspension bolts except wheel nuts must be secured by some type of locking device.
- 9. Suspension**
- a. Minimum wheelbase of 50 inches. Maximum wheelbase of 70 inches center of front axle to center of rear axle. Maximum width from center left rear tire to center right rear tire is 52".
- 10. Tires**
- a. Hoosier tires required on all four corners.
 - b. Right-Rear must be a (ASCS2, POWRi or US6A)
 - c. Any doping of tires is illegal and will result in the disqualification and forfeiture of all purse money. Tire must durometer 45 or harder no later than five minutes after the checkered flag.

11. Transmission

- a. Four-cylinder motors must have transmission with all stock gears in working order.
- b. Any car equipped with a shifting mechanism must have this device mounted in the driver's compartment.
- c. Shift levers may mount outside the driver's compartment on the opposite side of car from the chain drive. Chain guards will be made of .090-inch-thick aluminum or equivalent and will run on top of chain from the front of the front sprocket to the center of the rear axle.
- d. The driver must not be able to touch the chain or sprockets while sitting in the cockpit.

12. Weight

- a. All cars will weigh a minimum of 700lbs for wing and 700lbs for non-wing, including water, oil, fuel, and the driver. Cars may be weighed prior to and /or following any event. Cars weighed at the completion of an event may not add fuel or ballast to satisfy the minimum weight requirement.

13. Wings

- a. 10 square ft. max left sideboard 24" x 48", right sideboard 18" x 48", nose wing 18"x 24" max. Offsets are allowed.
- b. Nose wings cannot exceed 8 ½" tall or 21" long.