

RPM 2010 Winged 600 Rules

General:

- 600 cc stock engine
- 750 lb. Minimum Weight or 800 lb. for injected on alcohol.
- No cockpit adjustments
- Spec. RR tire, grooved & siped O.K.
- 12 sq. ft. maximum wing size.

Age:

At the discretion of the promoter.

Roll Cage:

Roll cages shall be at least 1 inch diameter x .062" wall thickness. .065" wall thickness allowed on tubing 1 1/8 inch diameter or larger. 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. Roll cage shall have sufficient fore and aft bracing and strength to support the weight of the car & driver in case of upset. Cage shall have gussets at the intersecting bars and uprights. Bends must have at least 3" radius. No square or pointed corners allowed. Roll cage must be a minimum of 3" above the driver's helmet. It is mandatory to install a cross brace behind the seat to support the shoulder harness.

Bumpers and Nerfs:

Cars must have bumpers extending beyond the front and rear tires. Nothing may extend beyond a tangent line from the outside edge of the tires to the bumpers. Nothing may extend beyond the outside edge of tires or wheels, which ever is widest. No sharp corners or design as to hook or damage. All cars must be equipped with nerf bars. Nerf bars must extend to inside edge of tires, but not beyond the outside of tire.

Safety:

Seat belts must be securely attached to the car and used at all times. Metal to metal latches only. 5 point seat belts, shoulder harness and sub strap are required. Belt dates must not be over 3 years old. (Example: Oct 06, may be used in 2007, 2008 & 2009). Arm restraints are mandatory and must be adequately adjusted to keep the drivers hands below the top of the roll cage. Helmets must be full head coverage, competition type and one of the three latest SNELL approvals. All

drivers will wear a name brand flame-retardant uniform. Neck braces, cage nets and/or head and neck restraints are mandatory. SFI gloves are mandatory for safety.

Electrics and Electronics:

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

Battery:

All wet cell batteries mounted in the cockpit must be covered and vented outside the cockpit area.

Fuel:

“Stock” class cars may run gasoline, ethanol or methanol.

No performance enhancing additives are allowed!

Weight:

“Stock” class cars, minimum car and driver weight 750lbs or 800 lbs for injected on alcohol.

Suspension:

Tread: Maximum 66 inches outside to outside of rear ties. Minimum 32 inches, center to center of tires.

Wheelbase: Maximum 70 inches. Minimum 50 inches, center of front axle to center of rear axle.

Steering: Front wheels must be connected by a solid or tubular tie rod. Cars must be rear wheel drive only. All suspension bolts, except wheel nuts, must be secure by some type of locking device.

Shocks:

Any shock absorber is legal, with the exception of No Cockpit Adjustable Shocks.

Brakes:

Brakes will be of sufficient strength so as to slide the wheels while the car is in motion at any given time.

Bodies:

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 driver and engine, made of 24 gauge steel or 0.625” aluminum. No rear view mirrors. The only part of the car allowed to be dismantled for driver to enter or exit is quick release steering

wheel hub. The minimum opening on the side of the car will be 13" from the bottom of the roll cage to the top of the mud guard or sissy bar and 16" minimum width (a 1" tolerance in either direction is allowed). All mechanically operated devices must be mounted below the driver's shoulders for safety. 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.

Transmission:

Stock with all gears: No Lightening

Wings:

Cars must run a 12 square foot **maximum (4 foot maximum width)** top wing with a one piece center section (**no multi stage airfoil wings allowed**). Airfoil must be parallel with roll cage side to side. Sideboard left side, maximum 24" tall x 48" long. Sideboard right side, maximum 18" tall x 48" long. No part of the wing may extend beyond the width of the tires as driven (including but not limited to the center section, sideboards, or bracing). Wing position no farther back than the rear of the roll cage behind driver's head (roll cage may not be altered to change this point). Measurements for the wing placement will be taken from the back edge of the center section of the wing, not the sideboards. No mechanical, electrical or hydraulic adjustments are allowed in the cockpit area. Nose wings are allowed. If nose wing is used, the center section may not exceed 18" x 24" with sideboards no larger than 9" x 21" long (**no multi stage airfoil wings allowed**).

Numbers:

All cars must have legible numbers on both sides of car and the nose. Minimum height of numbers is 8" on the nose or nose wing, 10" on each side of the tail and 12" on the wing.

License:

No license is required to enter a night's event. Minimum age requirements must be met.

Engine Rules:

4 cycle multi-cylinder engines not exceeding 600cc with stock bore & stroke with charging unit. No porting of heads or cam degreasing. Valve jobs will be allowed as long as they are within mfg. tolerance allowance. Any air cleaner will be allowed. Any exhaust will be allowed. Crank case ventilation to atmospheric pressure only is allowed. All cars must start the race with a muffler.

Carburetors must be OEM Production Motorcycle, CV Style. No Flatsides or Lectron style carburetors allowed. Carburetors may have metering rods, jets and springs changed to tune fuel curve to match the car requirements. There will be no cones in the carburetor or the carburetor boots. TPS sensors not required.

Stock Appeering black box will be subject to a \$100.00 and swap. Aftermarket timing advancers are not allowed. Redrilled, slotted or altered cam gears and/or bolts are illegal. Original flywheel must remain in the motor. All original transmission gears must remain intact and functional. Any motor sprocket (520 or 530) is allowed. Outer cosmetic changes will be allowed to mount the motor in the car (i.e. cut part of the engine off to get it to fit, relocate oil pan drain plug, etc).

Fuel Injected Engines running Fuel Injection:

Fuel injected engines are allowed except last 2 year production (2006 black r motors, on gas must be minimum 750 lbs, on methanol minimum 800 lbs, no kaw 636's allowed). Aftermarket airboxes are allowed. Cars must run stock fuel rail and number of injectors. Oil pickup modifications are allowed. Outer cosmetic changes to mount the motor in the car are allowed, (i.e. cut part of the engine off to get it to fit, relocate oil pan drain plug, etc). Engines running Fuel Injection may run alcohol or gasoline (alcohol recommended). Power commander module allowed to tune fuel map only. No modules that allow ignition remap or recording. No MSD-MOTEC-TEC 3 or any other aftermarket ignitions allowed.

Fuel Injected Engines running Carburetors:

Engines originally equipped with fuel injection (except current year production) are allowed with any OEM production Motorcycle, CV style carburetors and aftermarket filter boxes (as described in Carburetors & Fuel section above). Interchanging of Injected and Carbureted cylinder head is allowed.

Tires:

R/R tire rule (12" wide wheel D35 or NMMA Hoosier tire or ASCS II Hoosier tire). Front tire rule any compound.