

## US 24 600cc A WING and NON-WING CLASS

### AGE REQUIREMENTS

Driving age minimum is 12 years old current calendar year. Drivers under 12 with a minimum of 2 years 600cc Restricted Class experience may also compete at the Race Director's discretion. Race director reserves the right to allow or deny participation based on age and skill level.

### ROLL CAGE

Roll cages shall be at least 1" .062 wall thickness, or 1 1/8" .065 wall thickness, or 1 1/4 " .065 wall thickness. 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 and driver in case of an upset. Cage shall have gussets at the intersecting bars to the uprights. Bends must have at least 3-inch 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 NERF

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 or the tires or wheels, whichever is the widest. No sharp corners or designs as to hook or damage. All cars must be equipped with nerfing bars. Nerfing bars must extend to inside edge of tires, but not beyond the outside of tire.

### ELECTRIC AND ELECTONICS

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

Gasoline or methanol allowed. Upper end lubricants are allowed. No additives or enhancements will be allowed.

### WEIGHT

Weight is 750lbs. with the driver. Any material used for the purpose of adding the car's total weight must be firmly attached as a part of the car's structure. No liquid or loose ballast, i.e., water, fuel, oil, sandbags, rocks, etc. allowed.

## SUSPENSION

Tread: maximum 52". Minimum 32", center to center. Wheelbase: Maximum 70", Minimum 50", center of the front axle to the center of the rear axle. Rear wheel drive only. All suspension bolts except wheel nuts must be secured by some type of locking device.

## BRAKES

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

## TIRE AND WHEELS

Any wheel size and tire combination may be used. But tires may not exceed 23" in height. Racing rubber only. Air bleeders are allowed. Wheels must be held on with 4 or more standard lug nuts or knock-off hubs. Right rear tire must be a Hoosier KS-1, ASCS2 or American Racer 57 tire.

## SHOCKS

Any shock absorber legal, except no cockpit adjustable shocks.

## 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 .0625" aluminum. Body of car must be made of aluminum, metal, fiberglass or high impact plastic. All cars must be an attractive color or colors. No rear view mirrors allowed. The only part of the car allowed to be dismantled for the drivers to enter or exit is a quick release steering wheel hub. Mudguards must be made of aluminum or fiberglass, and can be no less the 16" from the top of the cage. All mechanically operated devices must be mounted below the driver's shoulders for safety reasons. All fuel tanks must be equipped with a one-way check valve designed to prevent spillage of fuel in the event of a rollover.

## TRANSMISSION

Any type transmission is legal on the 600 engines. Any car equipped with a shifting mechanism must have this device mounted in the driver's compartment. Shift levers may be mounted outside the driver's compartment on opposite side of car from the chain drive. Chain guards will be made of .090" thick aluminum or equivalent and will run on top of chain from front of the front sprocket to the center of the rear axle. Driver must not be able to touch the chain or sprockets while sitting in the cockpit. No cockpit adjuster of any kind.

## WINGS

10 sq. ft. Lip on rear of wing is not to exceed 1 ½ inches in height. Left sideboard 24"x48" and right sideboard 18"x48". **Nose wing is not to exceed 18" x 24"**. Top wing is mandatory to enter a nights event. Cars may finish without a wing if no replacement is available. Non cockpit adjustable

wings allowed. No split or multi-staged nose or top wing allowed. Wing center section has to be one piece.

## ENGINES RULES

600cc, NO 636's, 4-cylinder 4 stroke as comes on a stock production bike for public sale in the U.S.A. No current year production engines. Except as noted, all internal and external engines parts must remain stock with no modifications, metal removal, or blueprinting. Valve seat inserts may be reworked. Valve springs maybe shimmed with standard or aftermarket shims. Cylinder head combustion chambers may be cleaned by bead blasting with valves seated in place. 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 replaces with duplicate aftermarket parts. Light cleaning of gasket surfaces with steel wool, Scotch-Brite, etc. is allowed. Transmission gears may be shimmed only for the purpose of proper engagement. Standard or aftermarket shims may be utilized. Aftermarket cam chain tensioner allowed for safety of motor. Electronic fuel injection allowed, mechanical injection allowed using stock throttle bodies ONLY, MUST BE 600 Suzuki on Suzuki, 600 Yamaha on Yamaha etc. NO MIXING OF MANUFACTURES. Fuel injection engine may run carburetors. Injected with power commander allowed gas or alcohol. NO timing modules allowed. Fuel injection engines running carbs may change all fuel metering devices to tune fuel curve. Billet intake boots allowed. Modification of oil pan & pick up allowed or aftermarket ok. Modification to thermostat cover allowed or aftermarket ok. Modification to water pump cover allowed or aftermarket ok. Any air box, stock appearing CDI, aftermarket washable replacement air filter, power commander on fuel injection models only. Any 600cc OEM CV carburetors (no flat slides allowed). Stock ECU, PE3-IG2 & PE3-8400 Engine control units are permitted for use with carburetors & Stock Fuel Injection. Fuel cell securely mounted. Tank used for heats must remain for all events. NO flammable liquids allowed in cooling systems.

## NUMBERS

All cars must have legible numbers in colors contrasting to the background on both sides of the cars and on the nose. Minimum height of numbers on the nose is 8". Minimum height on the tail is 10". Minimum heights on both sides of top wings is 12". Numbers should be separated from advertising so that they will stand out and can be readable by the scorers.

## MUFLERS

Mufflers are mandatory.

No Wheel Sensors of any kind for traction control. No Sprocket or Transmission sensors for Traction Control. NO TRACTION CONTROL of any type specifically listed or not.

## TRANSPONDERS

All transponder pouches must be located on the right rear down tube above the torsion rack.

*NOTE:* Cars, parts, components, and/or equipment will not be considered as having been approved by reason of having passed through inspection at any time or any number of times unobserved or undetected.

**UNLESS THESE RULES SAY THAT YOU CAN DO SOMETHING, YOU CANNOT**