



## 2010 Mini-Cup Rules

### GENERAL BODY REQUIREMENTS

- 1 All bodies must be styled to resemble a NASCAR stock car.
- 2 Hinges and pin kits required. Roof opening must be hinged in front only. Positive latches that can be opened from inside and outside body required. Hood and trunk must be held shut with positive pin fasteners-one (1) on each side or fastened in a manner acceptable to official(s). Roof rails no taller than 3/4 inches running the length of the roof and rear window are permissible. These are for aesthetics only and provide no performance advantage.
- 3 Cars must be neat-appearing. Chassis must be painted or powdercoated. Body interior may be left unpainted. Any body damaged must be neatly repaired by the next event.
- 4 Body exterior dimensions shall be no more than 120 inches long, 47 inches in width. Body must remain level with chassis and cannot be offset on frame.
- 5 All components shall be in top quality condition. Bodies cannot be altered from original manufacturer. Any reinforcement of the body must be acceptable to official(s).
- 6 Fenders may not be cut or altered except for tire clearance, subject to approval by official(s). No fender flairs.
- 7 At post race tech all Future Stars cars must weigh a minimum of 680 pounds and Open Division cars must weigh 700 pounds with driver ready to race. Maximum left side weight is 55% of total race weight. All weights will be calculated on scales approved by JACKSON SPEEDWAY. It is the responsibility of the race car driver to see that their car meets the specified minimum weight requirements.
- 8 If weight is needed to meet minimum requirements, JACKSON SPEEDWAY recommends the use of square steel tubing weight containment bars. JACKSON SPEEDWAY suggests poured lead – no buckshot or BB's.
- 9 Weight must be attached to frame, or placed inside frame rails, with grade 8 hardware, and cannot slide from front to back or side to side.
- 10 All weight must be located inside driver compartment or approved weight containment box.
- 11 A non-adjustable spoiler must be attached to the rear deck lid. The spoiler must maintain the same contour as the production deck lid with a minimum angle of 35 degrees.
- 12 Lexan must be a minimum thickness of .060, but may be thicker. Tinting of windshield only is permitted. Lexan may be attached by rivets or nut and bolt. Bracing is allowed on windshield or rear window.
- 13 Left side speedway window must have window net fastened to roll cage (may have quick release mechanism). Right hand window may have Lexan window that can be

easily removed by safety crew. No enclosures of any kind will be allowed in the left speedway window

- 14 Wink type dimensional mirrors permitted with a maximum width of 28 inches. Mirror glass must be secured with silicone or equivalent. Side view mirrors cannot extend beyond the widest part of the car body. ALL MIRRORS ARE SUBJECT TO APPROVAL BY OFFICIAL(S).
- 15 All dashboards must be constructed of aluminum and fastened in place. All switches must be installed in dashboard on the left side of the steering wheel. Dashboard may be painted flat black. All dashboards are subject to approval by official(s). Ignition shut-off switch must be labeled, showing on and off.
- 16 Foot box interior must be constructed of aluminum at least 22 gauge. Panels must be securely fastened to chassis. Panels may be added to keep debris from driver's compartment. All interior panels are subject to approval by official(s).
- 17 A maximum of 2 openings with a total of 16 square inches are permitted in the nose of the car. These must be covered by a layer of wire mesh attached by a one half inch strip to hold the wire to the outer-edge of the opening. All openings are subject to approval by official(s). No openings are allowed in rear body section.
- 18 One engine cooling hose from the outside of the vehicle to interior of engine compartment is permitted. This hose must be mounted in the rear side window. The pickup point of the hose must not exceed the outside body lines of the car. The hose, or an extension thereof, must not extend more than 1 inch past the inside edge of the firewall or engine covering. The diameter can be no larger than 3 inches. The rear window may not be altered or drilled.
- 19 Bumpers must be hollow steel tubing and fastened to chassis.

#### EQUIPMENT AND GENERAL ACCESSORIES

- 1 JACKSON SPEEDWAY requires that all cars be fitted with an aluminum racing seat that fits the driver's physical characteristics.
- 2 All seats must be securely mounted Between the center frame rails of the vehicle. The frame rails must remain in original manufactures position.
- 3 No driver shall compete in any event with head or arm extended outside of a car opening. The top of the driver's helmet must be at least one (1) inch below the top edge of the roll cage. This will be measured with the driver securely buckled in the car's seat.
- 4 All drivers must wear a racing type helmet with a Snell rating of SA95 or newer. No bicycle or motorcycle helmets allowed.
- 5 All drivers must wear an approved driving suit, shoes and gloves. A single layer fire suit is the minimum allowed.
- 6 JACKSON SPEEDWAY highly recommends all drivers use arm restraints and neck collars. All drivers should also wear head and neck restraints.
- 7 JACKSON SPEEDWAY highly recommends all drivers wear underwear, shoes, socks, neck collars and gloves made of fire resistant material.

- 8 NO two-way radios
- 9 All cars must have a built-in fire extinguishing system, being a minimum of the cold fire system type or equivalent.
- 10 All entrants must have in their pit area, at all times, as part of their equipment, a fully charged fire extinguisher.
- 11 All belts and harnesses must be of the 5-point type and meet the following minimum requirements:
  - A. Have a minimum SFI rating of 16.1
  - B. Be at least 3 inches wide for adults and 2 inches wide for Future Stars.
  - C. Be dated by the manufacturer and no more than 3 years old.
  - D. A quick-release seat lap belt is required.
  - E. Both ends of the lap belt must be fastened to the roll cage with grade 8 bolts not less than 3/8" in diameter.
  - F. Shoulder harness must come from behind the driver's seat. Inertia reels can not be used.

#### GENERAL ENGINE REQUIREMENTS

- 1 All cars must have a JACKSON SPEEDWAY approved sealed engine. Motors can be purchased from the track or have your previously sealed engine dyno tested at the track to receive a Jackson Speedway seal.
- 2 Only Honda GX390K1 or U1 engines will be used in JACKSON SPEEDWAY minicup competition. Serial numbers cannot be removed from engine block.

#### HONDA CARBURETOR TECH.

- 1 No-go bore gauge .930 Future Star class uses the .635 No-go bore gauge carburetor.
- 2 Carburetor insulator for Honda carburetor must be drilled for pulse pump. Fuel pump must be pulsed from insulator only. Only one hole is allowed. No air leaks.

#### CARBURETOR GASOLINE FILTER

Gasoline filters may be used. The location and size of the filter must be acceptable to official(s).

### AIR FILTER AND ADAPTER

- 1 All engines are required to have an air filter and carburetor adapter.

### SPARK PLUG

- 1 Any make or brand of spark plug may be used. Plug must remain unaltered from factory but sealing ring may be removed for head temperature sensor.
- 2 Aftermarket spark plug connectors may be used to replace stock Honda connectors.

### IGNITION SYSTEM

- 1 Altering the ignition timing from stock Honda GX390K1/U1 specifications is not allowed.
- 2 No alterations to the starter coil or other electrical parts are allowed.
- 3 Spark intensifiers are prohibited.

### STARTER

- 1 The electric self starter must be in working order. All cars must be capable of starting under their own power.
- 2 The starter cup is an extension of the recoil starter assembly and can be removed if desired. It also presents a hazard when adjusting the carburetor. The screen must be replaced and firmly attached to the motor in the original location and made of ¼ inch mesh.

### BATTERY

1. All batteries subject to approval by official(s).

### ELECTRICAL SWITCH LOCATIONS

- 1 All electrical switches must be located on the left side of the dash panel and must be labeled showing the on/off positions.
- 2 A switch must be wired so as to ground the ignition.

### ENGINE EXHAUST SYSTEM

- 1 Pipe must have no interior restrictions and be a minimum of 22 inches Maximum 29 inches end to end including the muffler. No staged pipes allowed. JACKSON SPEEDWAY permits ONLY the "RLV" muffler. All mufflers must be welded to the header pipe and contain a minimum of one baffle.
- 2 Additional bracing and brackets to reinforce and support pipe are legal.
- 3 Exhaust pipe wrap or coating only is legal.

### FUEL & OIL

- 1 Unleaded gasoline available at a corner service or racing fuel. Alcohol or additives of any type are not allowed. Fuel may be tested by JACKSON SPEEDWAY officials using a Digatron fuel testing meter.

### FUEL CELL

1. The use of fuel cell, capacity 1 ½ gallons or less is mandatory.

### CLUTCH

1. Only a dry centrifugal clutch is allowed. No transmissions, belt driven torque converters, oil bath clutches or axle clutches.

### CHAIN / GEAR SPROCKETS

Only # 35 chain allowed. Chain guards permitted and must be acceptable to official(s). No automatic or manual chain oiling systems permitted.

### BRAKE COMPONENTS

All brake and brake cooling component parts and installation must be acceptable to the official(s).

### REAR AXLE

The rear axle must meet the following requirements:

- 1 Axle must be mounted solid to suspended chassis.
- 2 Minimum 1.25" steel or chromemoly hollow axles permitted. Maximum axle length is 40". No alternate materials allowed.
- 3 Both rear hubs must be keyed securely to axle. No floating hubs allowed.
- 4 Snap rings must be in place and safety wired.
- 5 Axle keystock must be secured in an additional fashion (tie wrap, tape, etc.) on all cars.
- 6 Self oiling carrier bearings are prohibited.

### WHEELS

All wheels must meet the following requirements:

- 1 Wheels are 8" diameter aluminum with a 6" to 7" rim width.
- 2 JACKSON SPEEDWAY strongly recommends 4 bolt hubs and wheels for maximum safety.

### TIRES

- 1 Hoosier MC780, American Racer m32 or m44 tires. No other tire or compound is legal.

### TIRE TRACK

- 1 All cars must maintain a tread width between 43" and 45 1/2" inches measured at the widest point (sidewall) of the tire set at zero toe-in. Aluminum spacers are permitted to utilize maximum front tread width.
- 2 All tires and wheels must be enclosed by the body.

### WHEELBASE REQUIREMENTS

- 1 The maximum allowable wheelbase for either side of the car is 60.5 inches. The minimum allowable wheelbase for either side of the car is 59.5 inches.

### CHASSIS

- 1 Must be produced by "The Manufacture" No homemade chassis allowed.

- 2 All chassis must be painted or powder coated. No filled or solid tubing allowed.

### SUSPENSION

- 1 Minicup cars must have a suspension consisting of the following:
  - Four (4) Afco, Carrera or Pro shocks No remote or adjustable shocks allowed.
  - Two (2) front springs with a rating of 10# to 1000#, any brand allowed.
  - Two (2) rear springs with a rating of 10# to 1000#, any brand allowed.
- 2 Front shock spacing may not exceed one (1) inch width.

### SPINDLES

- 1 All spindles must be manufactured by approved manufacturers.

### STEERING

- 1 All cars must be equipped with a steering column constructed of 0.750 x .065 steel tubing.
- 2 A quick release steel coupling acceptable to the official(s) on the steering wheel is mandatory.
- 3 Only rack and pinion steering is permitted.
- 4 All steering linkage must be properly secured. A single u-joint may be installed on the steering shaft assembly. The U-joint is Afco part number 30309. The steering shaft and mounting block must be padded to protect driver's legs and lower body.

### BODY HEIGHT

- 1 All cars must maintain a minimum roof height of no less than 30.5 inches. Not including roof rails. Car height off the ground and body height, including rake or degrees of body angle, shall be determined by measuring overall height of car at rear of the hatch on the roof center line.
2. No mechanical or electrical devices for shifting weight or adjusting weight or ride height will be permitted.
- 3 Body may not be off set on chassis.