

# ROCKY MOUNTAIN DIVISION

2011

## FORMULA JUNIOR RULES

### REGIONAL ONLY CLASS

#### **SUMMARY:**

A Single-seat Formula Car

Motorcycle engine/ Transmission unmodified

Minimum Weight- 900 pounds (with driver)

D.O.T. Radial tires

Wheels 13-inch dia., max. width, front 6in., rear 8-inch

No Wings

### FORMULA JUNIOR PREPARATION RULES

#### **Definition**

Formula Junior is conceived as a SCCA-Regional Restricted Class for a single-seat Formula Car. It will utilize readily available motorcycle-based mechanical components obtained from standard production, under 1,100cc motorcycles. Chassis construction shall be similar to Formula Ford with roll bar, firewall, floor and safety equipment conforming to the latest SCCA/GCR.

#### **Eligibility**

Only cars "classed" as Formula Junior and conforming to these rules are eligible for competition in this class. Regulations for this class will be reviewed annually in order to limit unnecessary cost escalations.

#### **Class Designation**

Class designation for Formula Junior will be "FJ".

#### **Engines**

All engines competing in this class shall be either air or water-cooled and complete with built-in starter, alternator and original carburetion, fuel pumps and ignition modules. Engines shall be under 1,100cc and remain as standard with wet oil sump lubrication. Fuel Injection is not permitted.

#### **Drive Train**

Original transmissions which are mated to the engine with clutch and standard street ratios are mandatory.

These are all either five or six-speed, sequential-shift units. Chain drive, belt drive, or shaft drive may be used as long as they come from the original engine/transmission package from the "donor" bike. Limited-slip differentials, torque-biasing devices or locking differentials are prohibited. Fully-locked rear drive is

permitted, but not recommended. Final drive ratios are optional by changing sprockets.

### **Weight and Dimensions**

Minimum wheelbase = 82 inches, maximum = 96 inches.

Maximum track, front 60 inches

Maximum track, rear 69 inches

Minimum weight with driver at conclusion of race= 900 lbs. (Ballast is permitted if mounted securely).

### **Wheels**

Diameter 13 inches

Maximum Width: Front 6-inches, Rear = 8 inches

### **Tires**

DOT treaded radials (which may be shaved). Sizes: Front- 185mm x 13", Rear- 205mm x 13"

### **Chassis**

Steel tube with lower body panels of stressed exterior aluminum for added strength and protection for the driver. Aluminum 'monocoque' lower chassis construction is permitted, but must conform to all the latest SCCA/GCR roll bar attachment requirements. Flat bottom panels are mandatory. All current SCCA Formula car safety provision/rules apply. Independent four-wheel suspension, either inboard or outboard mounted spring/shock units, similar to current Formula Ford practice is recommended.

**NOTE:** Front ride height shall be no lower than two inches from the ground with driver in the car.

Minimum rear ride height shall be no less than three inches above ground with driver in car.

### **Brakes**

Dual brake master cylinders are free. Adjustable brake bias may be fitted.

Aluminum or steel brake calipers

may be utilized. Two front brakes and either one or two brakes at the rear are required.

### **Mufflers**

All cars will be fitted with mufflers to comply with the latest SCCA sound limitations.

### **Cooling**

The location and number of water and/or oil radiators is free. Lubricants and fluids are free.

**Cockpit**

Cockpit dimensions should conform to current SCCA Formula Ford regulations.

**Bodywork**

Bodywork should conform to that of current Formula Ford regulations in both materials and limitations, with the exception that stressed lower/side body panels may be used. No aerodynamic devices such as wings shall be fitted. See SCCA Formula Ford restrictions as reference.