



## Supplemental Regional Rules for FormulaAtlantic.net

UPDATED 11.18.21

### CLASS FA2

This class features the JS-F3 car manufactured by Ligier and run in Formula Regional Americas (FR Americas). The car may not be modified in any way, or have any additions made to it. FR Americas FIA F3 Regional Technical Regulations shall all be enforced except if otherwise noted herein. Items not listed here are in no way implied to be open or unrestricted. It is the intent of the rules to not permit innovation and alteration of the cars.

#### Minimum Weight

Car & Driver: 1,670 lbs.

#### Engine

2.0L turbo charged engine sealed by Honda Racing Development (HPD). Seals are anodized aluminum serialized cable seals in the following locations: Turbo, HPP Fuel Pump, Oil Pump, Valve Cover, Intake Manifold, Oil Pan.

#### Minimum Oil Level

The minimum oil level is as follows: Measurement from the top of the oil swirl-pot down shall not be greater than 10.25" (for example, 10.5" would be too low of an oil level). Oil level should be checked not more than one (1) minute after the car has been running and turned off.

#### Transmission

The transmission is a Sadev 6-speed paddle shifted sequential gearbox with a limited slip differential. The transmission is sealed at the rear cover and the casting split at the axle line on the right side.

#### Shock Absorbers/Dampers

JRI Brand double adjustable dampers sealed with serialized plastic cable seals.

#### Spring Rates

Standard coil springs in the following rates: 600-1200lb in 100lb increments.

#### Anti Roll Bars

The car is fitted with "H" style anti roll bars front and rear. The bars each have seven (7) usable settings/holes for adjustment. Bars may be disconnected. The following size bars are allowed:

Front: 0.40" and 0.52"

Rear: 0.35", 0.40", 0.52"

#### Wood Floor

Must be replaced if reference/wear holes are no longer visible (FR Americas minimum measurement not to be used).

#### Wheels

Wheels are 13" diameter. Made by Team Dynamics Motorsports and have this cast into the outer rim.

Front Width: 10"

Rear Width: 12"

Everything that is not explicitly authorized in these regulations, or in the technical bulletins which may be issued by the series during the season, is strictly forbidden.



## **Tires**

Tires must fit the stock wheels and may be either Hancock or Avon in the following compounds, but may not be mixed:

Hankook C72

Avon Front: 15616

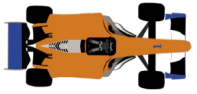
Avon Rear: 15506

## **Electrical**

The car utilized a GEMS GDi80 ECU with a spec map from HPD. It is located under the RH sidepod.

## **Camera**

Any camera may be used including an AIM SmartyCam which is permitted to log data from the ECU.



## CLASS FA3

FA3 features the Pro Formula Mazda “Pro FM” or “PFM.” The Pro Formula Mazda is the same RX8 powered 6 speed sequential racecar used in the Star Mazda Championship from 2004-2012, and the Pro Mazda Championship from 2013 - 2017. All PFM cars competing in FA3 must comply with the 2012 Star Mazda Rules as available below except where stricken through or otherwise stated herein – where otherwise stated herein these rules supersede Star Mazda rules. Everything that is not explicitly authorized in these regulations, or in the technical bulletins which may be issued by the series during the season, is strictly forbidden.

2012 Star Mazda Rules available here:

<https://formulaatlantic.net/wp-content/uploads/2021/11/2012-Star-Technical-Rules-Excerpt-4.10.14.pdf>

### FA3.1 Engine:

- 1.A Engines must be built and have official motor seals from an approved builder. Approved engine builders are:
- o Star Race Cars (motors built or sealed by Star Race Cars prior to 1.1.13)
  - o Daryl Drummond Enterprises, Inc. (SCCA PFM FA spec) 541-761-5520.
  - o Speed Source (Pro Mazda Championship spec) 954-578-7071.
- 1.B Engine ECU map may be Star or Pro Mazda Championship.
- 1.C Specified air filter is K&N Filter P/N 050-539 only with original air box P/N 050-560.
- 1.D Option air filter is Pro Mazda Championship Spec Air Filter (Mazda PN: N3H1-13-Z40) in combination with “Speed Source Reset Airbox” (P/N RESET Air Box).

**FA3.2 Fuel:** Only SCCA legal fuel may be used.

**FA3.3 Gears:** Competitors have a choice of two sets of gears.

3.A Set “A” shall consist of: 12/29,15/30,15/25,19/27,20/25,19/21

3.B Set “B” shall consist of: 12/29,17/30,19/27,18/22,24/26,24/24

### FA3.4 Weight:

4.A Minimum weight with driver – 1305 lbs.

### FA3.5 Electrical and Instrumentation:

5.A. Battery shall be securely mounted in standard, left side pod position. Size and type are unrestricted provided it is a 12 Volt rated gel cell. Car may have connections fitted for auxiliary battery. Auxiliary battery is permitted for starting the motor only, and may not be permanently attached to the vehicle.

5.E. ECUs are serviceable only through the manufacturer Star Race Cars or Formula Car Challenge.

### FA3.6 Car Configurations, Updates:

The following car configurations are legal in the FCC series.

Current PFM spec car as described in Star Mazda Rules referenced herein, with these additions: original Steering (Ackerman) Arm P/N 010-503 may be used, original Track Rod P/N 110-506 may be used.

OR - Original PFM spec car as delivered in 2004. 2004 spec cars may have updated the following components only to be considered a 2004 car: traction control switch and fuel trim switch to 11 position P/N 095-538, rear clevis to upright P/N 020-531. 2004 spec cars must use the two piece upper nose bracket: Upper Nose Mount-Nose Side (P/N 030-565), Upper Nose Mount-Tub Side (P/N 030-566)

2006 rear attenuators are optional but highly recommended.

Components made for the Pro Mazda Championship - and sold by Carl Haas Auto - which are in all functional ways identical to Star parts and use the same part number with a Carl Haas Auto prefix may be used in the

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originally designed and intended location.

**FA3.7 Cooling:** As delivered. Star Race Cars water radiator Fan Kit is permitted consisting of the following P/N:

8.A Electric Fan Sub harness P/N 080-568.

8.B Automatic Electric Cooling an P/N 100-539.

8.C Cooling Fan Brackets and Studs (if using radiator not delivered with mounts) P/Ns 100-540 and 100-541.

**FA3.8 Suspension:**

9.A. Only shock absorbers serviced and sealed by Star Racecars or Formula Car Challenge are allowed.

**FA3.9 Brakes:**

10.A. Brake pads: Only Performance Friction PFC01 or PFC05 or PFC07 or PFC13.

**FA3.10 Clutch:**

11.A. Original spec clutch discs P/N 060-539 may be used.

**FA3.11 Exhaust**

All cars may be fitted with World Speed Inc. or Star Mazda club muffler system with a Supertrapp flange should noise abatement be deemed necessary.

**FA3.12 Tires:** Avon 007 compound tires, or any Goodyear

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