

2012 Mazda GT2 Rules

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1. MAZDAAGT DESCRIPTION

MazdaGT™ cars are one design, fixed specification, tube chassis automobiles utilizing a Mazda 12A engine, components from 1979 –1985 Mazda RX-7s and conforming to SCCA safety standards and the SCCA GTCS for GT-2 automobiles.

2. INTENT OF THESE RULES

The intent of the MazdaGT racing class is to provide an affordable racing series. It is the explicit intention of these rules and regulations to prohibit innovation and alteration of cars except as provided by these rules, regulations or supplements. All components of the car shall be purchased from 7s Only Racing, LLC **or** sourced from the supplying manufacturer to 7s Only Racing, or fabricated as exact replicas of components supplied by 7s Only Racing, except where noted in these rules.

3. APPEARANCE REQUIREMENTS

Cars must be in good condition and appearance. Vehicles with excessive body damage, primeed body panels, etc. are not allowed. The vehicle must meet the “50/50” rule, which means they must look undamaged and straight at fifty (50) mph from fifty (50) feet. Cars must meet the appearance requirements in keeping with the current SCCA GCR.

4. ALLOWED MODIFICATIONS

These rules specify the only parts or components that may be modified, removed or disabled. All engines and OEM parts must be, or must have been widely available for sale in the United States by Mazda. Replacement parts must be OEM or equivalent to the OEM specifications for RX7's sold by Mazda in the US.

5. ELECTRICAL

5.1.1. Alternators shall be in working order and charging according to the manufacturer's specifications. Cut out switches of any kind for the alternator are prohibited. Alternator shall not be modified in any manner.

5.1.2. Any coil that fits in the stock bracket may be used. Any spark plugs and ignition wires may be used.

5.1.3. Battery shall be securely mounted in front of right rear wheel in the designated location. Battery type shall be a commonly produced 12-volt automotive battery and may not be modified. The battery must be securely held with a metal battery hold down.

5.1.4. Instrumentation is unrestricted.

1 A master electrical system cut-off switch meeting the specifications of the current SCCA GCR is required.

2 RADIATORS/COOLING

6.1.1. Any radiator may be used provided it fits in the designated location and requires no body or structure modifications to install. Fans may be added.

1 All cars shall be equipped with oil and coolant catch tanks per the current SCCA GCR.

2 ENGINE

7.1.1. Engines are a spec Mazda 12A with peripheral porting. Engines and engine rebuilds shall be purchased from 7s Only Racing. The spec engine shall be a US model 1979-1985 Mazda 12A Rotary with peripheral porting. Rotor housings shall be 7s Only Racing part number SEV033. No internal engine modifications are allowed. Pinned rotors are prohibited. Carbon apex seals may

be used. Competition oil pump may be used. Balancing and blueprinting are allowed. Lightening of parts beyond the minimum required to balance is prohibited.

7.1.2. The use of any impregnating material in the engine is expressly prohibited.

7.1.3. A 7s Only steel flywheel (part number SEVS7FW) must be used. Flywheel may not be modified in any manner.

1 Intake manifold 7s Only (part number SEVS7IM) is required.

2 **EXHAUST/MUFFLERS**

8.1.1. 7s Only headers (part number SEVS7HDR) shall be used.

8.1.2. Muffler shall be 7s Only muffler (part number SEVS7132 and MAG11219).

1 A 3" exhaust (7s Only part number SEVS7REXH) from header to muffler is required.

2 **FUEL SYSTEM**

9.1.1. Carburetor shall be a Weber 48 IDA and shall have "43" venturis. Carburetor fuel jets and air correctors may be changed. and air correctors may be modified.

9.1.2. Only the standard Weber 48 IDA intake horns are permitted.

9.1.3. Fuel pump, fuel filters, fuel pressure regulator are unrestricted.

9.1.4. A fuel sample acquisition port is required per the current SCCA GCR.

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10. FUEL

1 Type of fuel is unrestricted. Type of fuel is governed by the current SCCA GCR as it applies to GT cars. Twostroke oil may be pre-mixed with the fuel.

2 **DRIVETRAIN**

11.1.1. A Quartermaster **single disc (part# GTCLUTCH)** twin disc clutch (part number 298062RR) clutch shall be used. Throw out bearing shall be Quartermaster (part number 236520).

11.1.2. **Transmission shall be a Jerico 4-speed toplayer (part # INV-16WC4).** Any stock four or five speed transmission from a 1979-1985 RX7 12A may be used. Gears from any 1994-1997 Mazda Miata 5-speed transmission shall be used in the RX-7 housing in their stock configuration. No automatic or semi-automatic transmissions are allowed. Shifters may be modified or may be replaced by install short throw shifters.

1 The differential shall be the 7s Only floating axle differential (part number SEVS7REND). No hollow axles are allowed. Rear hubs shall be 7s Only part number SEVS7RH. Gear ratios must be 3.909:1, 3.93:1 or 4.875:1. Electronically controlled traction control devices are prohibited.

2 **WHEELS AND TIRES**

12.1.1. Wheels shall be **Spin Werkes** aluminum wheel (**part # 82.695.411.500.630** 82.680.411.450.596)

1 Tires shall be Toyo 245/45-16 RA1 Proxies. except that for SCCA national races tires used shall be Goodyear Eagle 22.9.16 slicks.

2 **SUSPENSION**

13.1.1. MacPherson struts may be modified to fit a 2.5-inch I.D. spring and threaded adjuster. Bump stops are unrestricted but must have a maximum height of 2 inches. Camber/caster plates are allowed. They must be mounted on the existing perch. No modifications are allowed other than to mount the plate and allow clearance under the center hole.

13.1.2. Front lower control arm and strut rod bushings may be replaced with heim joints.

13.1.3. Front sway bar (7s only part number 7S009) is allowed.

13.1.4. Shocks/**struts** shall be Koni part number **KI86101437RACE and KI80411026SPORT.** KI8041102SPORT and KI8641072SPORT. Shock absorber settings are unrestricted, but no

alteration to the internal mechanism or fluid medium is allowed.

13.1.5. Camber plates (7s Only part number SEVS7043 and SEVS7123) shall be used. Camber and toe-in/out are unrestricted within the adjustment range provided on the car.

13.1.6. Front springs shall be Eibach. Rear springs shall be any 5 x 11" spring. **Spring rates are open.**

13.1.7. Front coil over spring kit (7s Only part number 7CO0005) or equivalent is required.

1 7s Only Racing floating axle rear end (part # SEVS7REND) is required. Rear axle housing shall be fitted with lotus link (7s Only part number 7RA0015) on lower trailing arms. All rear trailing arms shall be aluminum with heim joints. A weld-on kit for lotus link pick up and caster/tow adjustments (7s Only part number 7LL0003) is required.

2 **BALLAST**

1 Ballast is allowed provided it serves no other purpose. Ballast shall be securely mounted and placed behind the driver's seat in provided mount location.

2 **BRAKES**

15.1.1. All cars must use Outlaw or Wilwood 4 piston calipers (**part# 170-3790 & 1703795** 4000) with 11-3/4 x .81 vented rotor in front and Outlaw or Wilwood 4 piston calipers (**part# 170-3545** 2000) with 11-3/4 x .81 vented rotor in rear. **Brake pads are unrestricted.** Brake pads must be Hawk HT-10. Brake fluid is open. Brake lines may be replaced with metal braided lines.

Aftermarket pedals may be used. Brake master cylinders are unrestricted.

1 Air Ducts may be directed at the brakes provided they extend in the forward direction only.

2 **WEIGHT AND DIMENSIONS**

16.1.1. Minimum weight with driver shall be 2050 2100 lbs.

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17. HARDWARE AND FLUIDS

17.1.1. Fasteners, links and rod ends may be either metric or standard threads, but shall be grade five (5) or better. Fasteners are unrestricted provided they serve the same function as originally intended. Gaskets are unrestricted provided they serve the same function as originally intended. Hardware and fasteners may not be modified to change adjustment parameters.

17.1.2. Clamps and radiator hoses are unrestricted.

1 Lubricants and fluids are unrestricted.

2 **COCKPIT** 18.1.1. A quick-disconnect steering wheel may be used. Make and diameter are unrestricted.

1 The addition of gauges, switches and indicators is permitted. Such installations shall have no influence on the mechanical performance of the car. Similarly, they shall not include the substitution or replacement of any element of the bodywork or chassis except where specifically authorized by these rules.

2 **BODY**

19.1.1. 7s Only body (part number SEVS7085) or its exact equivalent is required.

19.1.2. No modifications to external body or dimensions are permitted. No openings may be added or reshaped.

1 Front splitter (7s Only part number SEV7067) **shall** OR EQUIVALENT MAY be used. Rear lip spoiler shall be 7s Only part # SEVS7066). Spoiler may be cut down, but may not be made taller.

2 **WINDSHIELD/REAR WINDOW**

20.1.1. A ¼" polycarbonate windshield or equivalent is mandatory.

20.1.2. A 1/8" rear window or equivalent is required.

1 Windshield clips and rear window straps are required. shall meet requirements of the current SCCA GCR.

2 **TOWING EYES**

1 All cars shall be equipped with **front and rear** towing **hooks**. eyes meeting the requirements of the current SCCA GCR.

2 **FIRE SYSTEM**

22.1. Fire systems are mandatory and shall consist of a 2.3 liter fire system and a 5# handheld fire extinguisher.

1 All on-board fire systems shall be identified with a circle "E" decal.

2 **FUEL CELL**

23.1. A FuelSafe Sportsman Racing Bladder **15** 12 gallon or larger fuel cell is required. Fuel cell shall be mounted in the location provided. Not rotary molded fuel cells are permitted.

23.2. Fuel cell shall meet the current **FIA** SCCA requirements.

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