



2010 MazdaGT Rules

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MAZDAGT 2010 RULES

1. MAZDAGT DESCRIPTION

MazdaGT™ cars are one design, fixed specification, tube chassis automobiles conforming to FIA safety standards.

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 except where noted in these rules.

3. APPEARANCE REQUIREMENTS

Cars must be in good condition and appearance. Vehicles with excessive body damage, primed 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.

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.
- 5.1.5. A master electrical system cut-off switch is required.
- 5.1.6 MSD 6AL ignition unit (part number MSD-6420) shall be used.**

6. RADIATORS/COOLING

- 6.1.1. **Radiator shall be 7s Only part number 056-1928.** Fans may be added.
- 6.1.2. All cars shall be equipped with oil and coolant catch tanks.
- 6.1.3 Hood scoop (part number 471102) shall be used and mounted only in the specified location.**

7. ENGINE

- 7.1.1. Engines are a spec Mazda 42A **13B** with peripheral porting. **Those competitors who currently have the 12A spec engine may continue to run until the engine can no longer be rebuilt due to parts obsolescence.** Engines and engine rebuilds shall be purchased from 7s Only Racing.
- 7.1.2. A 7s Only steel flywheel (part number SEVS7FW) must be used. Flywheel may not be modified in any manner.
- 7.1.3. Intake manifold 7s Only (part number SEVS7IM) is required.

8. 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).
- 8.1.3. A 3" exhaust (7s Only part number SEVS7REXH) from header to muffler is required.

9. FUEL SYSTEM

- 9.1.1. Carburetor shall be a Weber 48 51 IDA. **Any venturi may be used. Venturis shall be bored to 51mm.** and shall Carburetor fuel jets and air correctors may be changed.
- 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.

10. FUEL

- 10.1.1. Type of fuel is unrestricted. Two-stroke oil may be pre-mixed with the fuel.

11. DRIVETRAIN

- 11.1.1. A Quartermaster single or twin disc (part# GTCLUTCH) clutch shall be used. Throw out bearing shall be Quartermaster (part number 236520).
- 11.1.2. Transmission shall be a Jerico 4-speed toploader (part # INV-16WC4).
- 11.1.3. 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; **4.44:1**; or 4.875:1 or **5.12:1**. Electronically controlled traction control devices are prohibited.

12. WHEELS AND TIRES

- 12.1.1. Wheels shall be Spin Werkes aluminum wheel (part # 82.695.411.500.630)
- 12.1.2. Tires shall be **Nitto NT01 245/45-16. Cars may run Hoosier DOT Radial 245/45-16 tires but are not eligible for MazdaGT Championship Series points.**

13. 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. Shock absorber settings are unrestricted.
- 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.
- 13.1.8. 7s Only Racing floating axle rear end (part # SEVS7REND) is required.

14. BALLAST

- 14.1.1. 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.

15. BRAKES

- 15.1.1. All cars must use Outlaw 4 piston calipers (part# 170-3790 & 170-3795) with 11-3/4 x .81 vented rotor in front and Outlaw 4 piston calipers (part# 170-3545) with 11-3/4 x .81 vented rotor in rear. Brake pads are unrestricted. Brake fluid is open. Brake lines may be replaced with metal braided lines. Aftermarket pedals may be used. Brake master cylinders are unrestricted.
- 15.1.2. Air Ducts may be directed at the brakes provided they extend in the forward direction only.

16. WEIGHT AND HORSEPOWER

- 16.1.1. **Horsepower to weight ratio must be a minimum of 8.70:1 based on the National Autosport Association's (NASA's) Super Touring2 calculation table.**

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.

17.1.3. Lubricants and fluids are unrestricted.

18. COCKPIT

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

18.1.2. 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.

19. BODY

19.1.1. 7s Only body (part number SEVS7085) is required.

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

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

20. WINDSHIELD/REAR WINDOW

20.1.1. A 1/4" polycarbonate windshield or equivalent is mandatory.

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

20.1.3. Windshield clips and rear window straps are required.

21. TOWING EYES

21.1.1. All cars shall be equipped with front and rear towing hooks.

22. FIRE SYSTEM

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

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

23. FUEL CELL

23.1. A FuelSafe Sportsman Racing Bladder 15 gallon or larger fuel cell is required. Fuel cell shall be mounted in the location provided.

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

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