

# Rules RTRC Endurance - 24H



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## 1. CHASSIS

RTA V2- RTRC: chassis supplied and required.

All chassis will be built and ready to race with the same set up. Optional parts will be available for chassis adjustment in LM class. Only these parts must be used.

Chassis will be drawn at random on Saturday to ensure perfect equality.

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## 2. CLASSES

The event will be divided into 2 classes:

The GT class will use a 2500kv ratio of 53-12.

The LM class will use a 3500kv ratio of 53-10.

Body will be also different according to the class (see 10. Body).

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## 3. TEAM COMPOSITION

Teams have to be composed from 4 to 6 drivers.

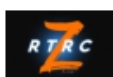
During all the race, there must be at least 1 driver and 1 marshall for each team.

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## 4. EVENT TIMING

The event will be on 2 days:

- Saturday: Free practice and qualifying - Race start at 4 p.m.
- Sunday: Finish at 4 p.m. - Results and podium



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## 5. FREE PRACTICES

Lap timing system will be enable during free practices. Only endurance cars will be allowed on the track.

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## 6. QUALIFYING

Qualifications will be by rolling start. Each team will have to select one driver for the whole qualification. Drivers will have 6 minutes to make their fastest lap. Qualification result will give the starting grid. Each team will have to choose one marshall for the qualification of his own class.

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## 7. ENDURANCE

The race will last 24 hours. At the end of the 24 hours, you'll have to finish your lap to complete the end of the race. The ranking will be based on the number of laps completed. The team with higher number of laps at the end will be the winner.

If some teams have the same number of laps, the ranking will be based on the total time necessary to complete these laps (from the shortest total time to the longest).

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## 8. PIT STOPS

Teams will be required to make pit stops for driver swich, repairs or battery changes. Each team will have his own pit stop area. Pit stops must be made in this area.

In case of failure : batteries, broken parts etc. (so when the car is not able to go back to the pit by itself), the car will have to stay on the track and marshalls won't be allowed to touch the car. The safety car will go on the track and another special car will take out the broken car. The team will can touch his car only when the special car will bring the broken car on pit.

The pit area is a narrow zone, so a very low speed is recommended. Excessive speed or accidents in the pits will be automatically penalized.

The pit lane will be controlled by a traffic light:

- Green: Pit lane open

- Red: Pit lane closed



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## 9. DRIVER CHANGE

Driver changes have to be done with the car stopped in the track pits. You can act on the car at this moment.

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## 10. BODY

Body will be specified according to the team's registration class.

The GT class will have Jomurema body (JOMUREMA - JOM280354). Only original spoiler is available. Any modification to the body is forbidden; only the addition of the LED headlight kit is allowed.

The LM class will have Le Mans 787B body (KYOSHO - MZN152). You can use the Mazda spoiler (RT098 - RTRC). This body can be modified in some ways:

Require to remove the front bumper splitter

Thickness adjustment (Dremel) of the bodywork at the level of the RTA front axle shock absorbers.

Possibility of cutting out part of the diffuser fin to make way for the differential ring gear.

Possibility of cutting out part of the diffuser to use the Mazda spoiler (RT098 - RTRC)

Body clips can be raised or lowered by reducing the slots where body clips are fitted.

Any modification to the body is forbidden; only the addition of the LED headlight kit is allowed.

Teams will be responsible for purchasing and preparing enough bodies to avoid any failure. All bodies of the team have to be similar.

At least one body must be prepared for the night session of the endurance race, with a LED kit. The car have to get a working led kit all the night.

Each class will have its own LED color:

GT class: Rear red - Front orange/yellow

LM class: Rear red - Front white

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## 11. BATTERIES

6 set of batteries will be supplied to each team by the organization on Saturday. Only these batteries may be used during qualifying and endurance. Chargers are the responsibility of the team.

Batteries must be charged at 8.4 volts maximum. (Maximum tolerance 8.420V). The team may be controlled at any time during qualifying and the race on the batteries used and their voltage.

Battery charging must be limited to 0.6A.

Batteries must be charged only in the safety bags at the responsibility of the team.



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## 12. ELECTRONICS

Motors (MZR-2500-V2 and MZR-3500-V2 - MARKA) are supplied already built on the chassis. It is forbidden to dismount or modify the motor.

ESCs (GLA-S020 - GL RACING) will be supplied already built on the chassis. It is forbidden to dismount or modify the ESC. It is also forbidden to modify ESC parameters using a program card.

Servos (500834 - PN RACING) will be supplied already built on the chassis. It is forbidden to dismount or modify the servo.

The transponder (SNOW RACING) will be supplied already built on the chassis.

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## 13. GEAR RATIO

The car will be supplied with a 53T spur (MR2953WC - RC ORANGE) and a 12T pinion (416412 - RC ORANGE) or 10T pinion (416410WC - RC ORANGE) depending on class.

Only parts supplied by the organization may be used. In case of broken/used parts, spare parts will be available for sale at the Parc Fermé.

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## 14. TIRES

Tires will be supplied mounted and glued on rims (RTRC). Only one D19 sidewall kit (RTRC) will be supplied for use on front rims. Only this sidewall kit may be used during the endurance race. Teams will be able to change sidewalls in the Parc fermé.

Each team will get 6 sets of rear tires: 2x V1R05, 2x V1R10, 2x V1R15 (MARKA).

Each team will get 8 sets of front tires: 2x KS1134, 2x KS1138, 4x KS1142 (RC ORANGE).

Only the tires supplied have to be used during qualifying and endurance. No other set of tires may be purchased.

No treatment or cleaning allowed.

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## 15. TOOLS AND EQUIPMENT

Each team must bring his own tools, maintenance products, charger, transmitter, receiver and any other necessary equipment.



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## 16. SAFETY CAR (SF)

The safety car may enter into the track at any time during the race. Drivers must drive slowly behind the safety car without overtaking. No overtaking will be allowed when the safety car comes to the track.

If a driver makes a mistake, other drivers will be allowed to overtake him. This driver won't be allowed to go back to his place by overtaking.

The organizers will notify when the SF is back in the pits. Once the SF is backed in the pits, the driver behind the SF will be able to control the pace. Overtaking is still forbidden. Race conditions will resume at the next cross through the lap counting system.

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## 17. PARC FERME

After qualifying, each team have to drop the car in the Parc fermé without making any modification. The body must remain in place and the battery connected.

After technical control, the cars will be released from the Parc fermé few minutes later. The team will have time to prepare the car for the race.

The organization will give a deadline for the coming back of the car in the Parc fermé until the start of the race. No mechanic will be allowed on the car during this period.

After the endurance race, each team have to drop the car in the Parc fermé without making any modifications. The body must remain in place and the battery connected.

Only one set of tires must be in the team's hands during qualifying and endurance. The other tires must remain in the Parc fermé.

If the team need to change tires during the race, the team must take one set of tires from the Parc fermé. There will be a 15-minutes time to make the pit stop, at this moment only two set of tires will be in the team's hands. Before the end of this 15 minutes, the team have to come back to the Parc fermé with other tires set. Only one ball bearing set is available.

Any fail of Parc fermé rules will be punished - see 17.Penalties.

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## 18. PENALTIES

Penalties will be given for any failure to the rules. The organization will can give a warning or apply directly penalties. Penalties type : Stop and go, deleted laps, disqualified...



Stop and go: if you have a stop and go lasting X seconds, the driver have to go back to his track pit, stop for X seconds and then restart only at the signal of the race director. During the X seconds, it is forbidden to touch the car.

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## 19. SPARE PARTS

In case of fail, spare parts will be available in the parc fermé:

- Motor
- Servo
- ESC
- Spur/Pinion
- RTRC chassis parts

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## 20. FAIR PLAY

Racers will have to show fair play during the event. Any form of unsportsmanlike behavior, such as intentional contact between cars, will be penalized.

The organization will also take care that each driver takes a rest during the race, to avoid any incidents during the event.

Participants have to respect other drivers and the organization. Racers must also respect the decisions of the race director.

