



中國香港汽車會

HONG KONG, CHINA AUTOMOBILE ASSOCIATION

Est. 1918

HONGKONG TOURING CAR CHAMPIONSHIP

SUPER NA -TECHNICAL REGULATIONS

2024.3.11 V3

ARTICLE 1. Regulation

1.1 Regulation and eligibility amendments

The Organizer reserves the right to adjust the Technical Regulations throughout the Competition. All such changes will come into effect after their publication.

Changes for safety reasons may be made without notice.

1.2 Compliance with the regulations

It is the duty of each competitor to satisfy the Scrutineers and the Stewards that his car always complies with these regulations in them entirely during a Competition.

A car, the construction of which is deemed to be dangerous, may be excluded by the Stewards of the meeting.

1.3 Measurements

All measurements must be taken while the car is stationary on an assigned location or as stated in the Sporting Regulations or supplementary regulation of the relevant Competition.

Before the start of a Competition, the Chief Scrutineer stipulate the place where the ride height and weights will be checked.

The competitor has the possibility, during the time set up by the organizer, to ensure the conformity of his car by using the official control equipment, at the official place of scrutineering.

1.4 MODIFICATIONS AND ADJUNCTIONS ALLOWED OR OBLIGATORY

All the modifications which are not allowed by the present regulations are expressly forbidden.

The only work which may be carried out on the car is that necessary for its normal servicing, or for the replacements of parts worn through use or accident.



The limits of the modifications and fittings allowed are specified hereinafter. Apart from these, any part worn through use or accident can only be replaced by an original part identical to the damaged one. The cars must be strictly series production models identifiable by the homologation form data.

ARTICLE 2: Eligible Vehicles

This Competition is reserved exclusively for Toyota GR86(ZN8) / Subaru BRZ (ZD8) and Honda TYPE R (FD2 EP3 FN2 DC5)

Article 3: Engine

3.1 86 model

During the competition, no car is allowed to use more than one engine. The engine must be original and registered on the technical passport. All engines must be sealed after careful inspection,

The intake system must be original, but high flow replacement filters can be used.

The throttle body cannot be changed or modified in any way and must be manufactured according to the original vehicle.

The engine must be consistent with the original car brand and cannot be modified.

All internal engine modifications are not allowed and must be maintained with OEM during the production of the car.

The engine oil cooler is free.

The engine oil pan protection panel can be replaced.

The engine mounts can only be changed in material and not in quantity.

The oil filter can be freely replaced. However, changing the installation location is not allowed.

The modification of the flywheel is free of charge.

3.2 Type R model

A naturally aspirated engine with an actual displacement of 1800cc-2000cc.

There are no restrictions on engine modifications and only single throttle can be used

Article 4: Transmission

4.1 86 model

Allow the use of transmission oil cooler.

4.1.1 Gearbox

The gearbox must be original. All transmissions must be sealed during the initial inspection.

A consistent number and proportion of teeth must be retained.

The gear selection grid mode recognized on the series models must be retained.

4.1.2 LSD

Competition LSD is allowed.

Allow the use of differential oil cooler.

Allow the use of differential cooling caps.

4.1.3 Clutch

On the premise of using a single type clutch disc, the replacement of clutch plates/covers are allowed.

Allow the use of racing type clutches.

4.2 Type R model

The transmission is not limited. The use of sequential transmission is prohibited.

All cars must be equipped with reverse gear and can be selected by the driver sitting in the seat by connecting the wiring harness

Article 5: Vehicle Body

5.1 86 model

5.1. 1 Operation of car doors, engine hood, and luggage compartment lid

a) Doors - must be able to open all doors (original handles) from the outside and open the front door from the inside. The control device for opening the rear door from the inside can be removed.

b) All doors, engine hood, and luggage compartment lid must be able to be opened from the outside without the use of tools.

c) The raw material door must be retained.

5.1.2 Internal door panels

Both the front and rear door panels cannot be removed. These can be original, or made of metal sheets at least 0.5mm thick, or another solid and non combustible material at least 2mm thick.

5.1.3 Windshields and Windows

The windshield must be made of laminated glass.

The driver and passenger side windows must be consistent with the original factory produced car and must be covered with a transparent safety film with a maximum thickness of 100 microns.

The remaining parts of the side and rear windows can be replaced with polycarbonate at least 3.85 millimeters thick.

If the rear window originally did not have a frame, a frame can be added to the door to secure the polycarbonate window.

The inner surface of the side and rear glass windows, as well as the inner surface of the glass rearview mirror, must be covered with a transparent, colorless plastic safety film with a maximum thickness of 100 microns to avoid glass breakage and spraying in accident competition. Its installation method

must be easy to inspect.

5.2 Type R model

5.2.1 Unrestricted

Article 6: Exhaust System

6.1 86 model

All original ternary catalysis must be retained.

Apart from front section of exhaust, the rest can be used a racing versions, provided that the sound level measured according to the FIA noise measurement method does not exceed 110 dB (a) at 4000 rpm. The measurement distance is 0.5 meters, forming a 45 degree angle with the exhaust outlet.

6.2 Type R model

The exhaust system is not limited, but under the FIA noise testing method, it does not exceed the decibel requirement of the corresponding group.

Article 7: Fuel Cells and Fuel Supply Systems

Flexible routes must have aviation quality. As long as the provisions of Appendix J, Article 253-3 are followed, installation is free of charge. The automatic fuel cut-off system described in Articles 253-3.3 is mandatory.

Cars must be equipped with a self sealing joint for sampling fuel. This connector must be approved by FIA (technical list n ° 5) and installed on the feed line of the engine high-pressure pump, adjacent to the front of the high-pressure pump. The connector must be placed in an unlocked area inside the engine compartment. It must be possible to install the pipeline onto the joint.

Article 8: Electrical Systems

8.1 Cable

For 86 model the cable assembly of the engine must be original; For type R model is Unrestricted.

8.1.2 Battery

Quantity: One type

Type: Dry type

Brand and capacity: The engine must always be able to be started using the energy of the battery transported in the vehicle.

Location: It must be in its original position in the engine compartment.

8.1.3 Lighting

The lighting system must maintain the original position of each function. All functions must be operable at all times during the competition and must be able to be switched while the driver is seated during the competition. The front surface of any function shall not be less than 400mm².

The minimum functionality that the system must ensure:

- *Low beam headlights (2)
- *Tail lights (2)
- *Brake light (2)
- *Indicator lights (2 front+2 rear)
- *Rain light (1)

The maximum function provided by the system is the functionality of the original device.

Tail light device:

The reverse light and rear fog light functions must be removed.

The LED unit has been authorized.

Rain lights:

A rain light device is mandatory and must be approved by the International Automobile Federation (Technical List n ° 19) or ECE R38 road standards (or equivalent or stricter standards from other countries).

Location: Tailgate, luggage compartment lid or replace the third brake light.

Article

8.2 Type R model

8.2.1 Cable

The cable assembly of the engine must be original.

Article 9: Suspension System

9.1 86 model

The genuine components must be used. It is not allowed to reinforce the suspension and its installation components.

The suspension damper is open but restricted, similar to the above situation.

Allow the use of spring certified parts.

It is not allowed to modify or modify the stabilizer.

The front stabilizer link allows the use of certified parts. However, if used, the same manufacturer parts as the suspension or original parts should be used.

Arms and rods:

The bushing of certified parts can be replaced, but no other modifications, such as machining or replacement, ~~are allowed~~.

9.2 Type R model

The suspension system is not limited, but suspension components made entirely or partially of composite materials will be prohibited



Article 10: Brakes

10.1 Model 86

Brake hoses/pipes, brake discs, brake calipers and brake pads are free.

If ABS system is de-activate, homologated mechanical rear brake distributor is permitted.

10.2 Type R

Unrestricted

Article 11: Wheels and Tires

When measuring vertically, the upper part of the entire wheel (rim+tire) located vertically above the center of the wheel hub must be covered by the vehicle body.

The complete definition of a wheel does not allow the wheel to be wider than the tire or protrude beyond the tire contour.

Tire size: 220/620/17,

Preheating, cooling, or use of solvents are not allowed.

All available wheels are the same, with a size of 17 inches/7.5J (JJ) inserted 35-48 millimeters.

The wheel nuts can be replaced, but they must not extend beyond the outermost part of the tire or wheel.

Type R

Wheels and tires are free.

Article 12: Safety Requirements

12.1 Article 253 of Appendix J of the International Sports Regulations of the International Automobile Federation still applies, but the provisions stipulated in this regulation have priority.

Two additional safety fasteners must be installed for each hood and luggage compartment lid. The original locking mechanism must be rendered inoperative or removed.

12.2 Driver's seat

According to Article 253-16 of Appendix J, the original driver's seat must be replaced with a bucket racing seat approved by the International Automobile Federation, which is mandatory.

12.3 Seat belts

According to Appendix J, Article 253-6, a seat belt must be equipped with a steering buckle release system and at least five (5) fixing points, and approved by the International Automobile Federation.

12.4 Safety cage

A safety cage that complies with FIA Appendix J, Articles 253-8 must be provided.

Drill a hole with a diameter of 8mm on the left rear pipe of the safety cage. This hole is used to check the thickness of the pipe.

12.5 Fire Extinguishers - Fire Extinguishing Systems

Manual fire extinguishers certified in accordance with Appendix J, Articles 253-7.3, must be used, with a minimum capacity of four (4) kg (2kgs x 2).

12.6 Protective net

12.6.1 Protective net: mandatory requirement.(86 model)

It must comply with the following specifications:

Website:

It must be composed of woven strips at least 19 millimeters (3/4 ") wide;

The grid must be a minimum of 25 x 25 mm and a maximum of 60 x 60 mm;

The woven tape must be non flammable and sewn together at each intersection;

It must not be temporary.

Installation:

From the side, it must extend from the center of the steering wheel to the B-pillar;

The network must be connected above the driver's window, or to a safety cage, or to a fixed part of the vehicle body shell through a quick release system.

Even if the car overturns, the system must still function;

It must be possible to remove the net with only one hand.

The handle or lever must have a colored marking ("dayglo" orange). The button release system is authorized, provided that it complies with the provisions of this clause. The button must be visible from the outside, with a contrasting color and marked as "pressed".

Type R –unrestricted.

12.6.2 Competition Network: Mandatory Requirements.

Website:

They must be certified according to the FIA 8863-2013 standard (Technical List n ° 48).

Installation:

They must be connected to approved installation points (see the car's approval form) and installed in accordance with the installation specifications issued by the International Automobile Federation.

12.7 Tow device

Must be equipped with a front and a rear towing device. They must:

*Clearly visible and painted in yellow, red, or orange.

*Allow cylinders with a diameter of 60mm to pass through.

*Allow towing of vehicles on dry surfaces (concrete or asphalt).

12.8 Steering

The steering lock must be removed and the steering column adjustment



system must be locked. The steering wheel must be equipped with a quick release mechanism.

Article 13: Ride height

Free

Article 14: Weight

The minimum weight (without driver) is 1220 kilograms.

Article 15: Ice

Except for the sole purpose of cooling the driver, transportation and/or use of natural or chemical ice inside or outside the vehicle is prohibited throughout the entire conference period.

Article 16: Water Tank

The radiator is free, but it must remain in place. It is not possible to cut or relocate the position.

Water tanks, water pipes, and hoses are not allowed in the cockpit.