

Introduction

This technical rules specify in detail all characteristics that all cars must apply to be race approved. Rules are set for 3 class from beginner to advanced, so some limitations have been established as per below chart.

Classes , according technical specs:

GT2- Profesional Class

GT3. Advanced Class. (same as GT-PRO -2022)

GT4. Standard Class. (same as GT-AM -2022)

Class	Motor pod	Chasis
GT2	RT3 or RT4	Injection plastic or 3DP
GT3	RT3	Injection plastic
GT4	RT3 SC-6528c Offset -1.0	Injection plastic

Class	Pinion	Gear	Tyre	Diam. Rer Hub
GT2	Free (within this rules options)	Free (within this rules options)	Free (within this rules options)	Free (within this rules options)
GT3	SC-1095e	Free (within this rules options)	SC-4756as25 (20x10.5mm)	16.5 - 16.9
GT4	SC-1095e	29z	SC-4756as25 (20x10.5mm)	16.5

*Free is always limited to this rules options.

Motor and tyre hand out supplies

Race organisation will provide sorted on each official SCALEAUTO race event one motor already tested and verified together the tyres needed for the race

Race organisation had precheck and selected the motors checking the rpm and consumption from them all to choose only the most close ones in performance between all.

Motor and tyres will be assembled by teams on the “parc fermee”.

Even the organisation provides the soldering irons, the correct functionality from them all and its correct working is not his responsibility, each team can bring its own one to the race.

Motor Supplied

Ref.: **SC-0011c Tech-1*** with 20000 rpm

* *Standard Motor in all R series cars Scaleauto GT 1/32 cars from 2023 year, it is a new generation motor from the ones used from 2010 o 2022.*

1. Models

BMW Z4



1.1 All models must be typo "R" with Anglewinder motor mount.

Porsche 991 RSR



SRT Viper GTS-R



Corvette C7R



Porsche 911.2 RSR



Spyker C8



Audi R8 LMS



Honda NSX



Mercedes-AMG GT3



CallawayC7R



2. Overall width

2.1 Tyres cannot exceed from the body width on a top view.

3. Motor Pod

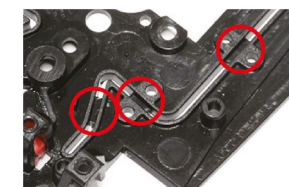
- 3.1 The only homologated motor pods are Scaleauto AW.
- 3.2 Motor pod can be assembled from 3 to 7 fixing points, using the original fixing points from the pieces.
- 3.3 Ball bearing arae allow din the Motor mounts RT4
- 3.4 It is allowed to use **SC-6538** extensions for RT3 motor mounts.
- 3.5 It is allowed to use **SC-6539** extensions for RT4 motor mounts.
- 3.6 It is allowed to use the metal height adjustment ref. **SC-6533** for the RT4 moor mounts.



Modelo	Ref	Offset
RT3	SC-6528c	-1.0mm
RT3	SC-6535c	-0.75mm
RT3	SC-6536c	-0,50mm
RT3	SC-6537c	-0.25mm
RT4	SC-6529a	-1.00mm
RT4	SC-6529b	-1.00mm
RT4	SC-6531	mutiple
RT4	SC-6530a	-1.00mm
RT4	SC-6530b	-1.00mm
RT4	SC-6532	mutiple

4. Chassis

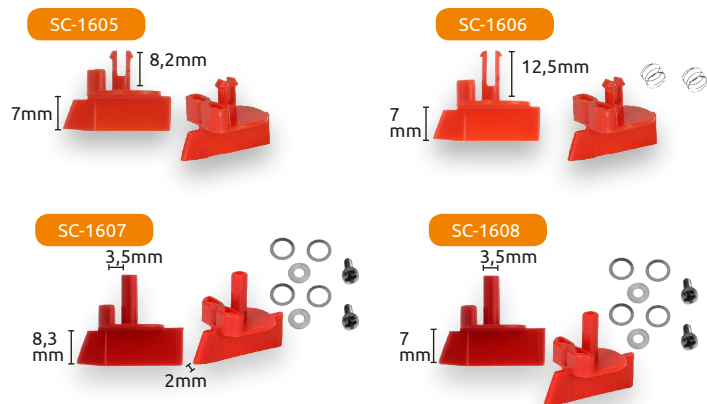
- 4.1 Each model must be assembled with its own specific manufactured chassis. See table below for references.
- 4.2 It is allowed chassis with different stiffness.
- 4.3 Chassis means the complete original pieces assembly included.
- 4.4 It is allowed to remove the perimetral plastic flashes. Not excessive
- 4.5 Chassis must be identified with team name written on.
- 4.6 Any adjustment screw can be used on its original position place. (front axle, body floating, suspension).
- 4.7 It is allowed to remove the nerve that joints inner and outer chassis section (see photo).
- 4.8 It is allowed to remove the side suspension adjustment system in the RT4 assembly.



Car model	Hard RT3	Medium RT3	3D Print RT4 GEN1	3D Print RT4 GEN2
Corvette C7R	SC-6650a	SC-6650b	SC-9121b	SC-9123b06
Porsche 991	SC-6640a	SC-6640b		SC-9123b11
SRT Viper	SC-6638a	SC-6638b		
Spyker C8	SC-6635a	SC-6635b		
BMW Z4	SC-6634a	SC-6634b	SC-9115b	
Audi R8 LMS	SC-6651a	SC-6651b	SC-9122b	
Mercedes-AMG	SC-6662a	SC-6662b		SC-9123b09
Viper Inflex	SC-6664a	SC-6664b	SC-9117B	SC-9123b08
Porsche 911.2	SC-6665a	SC-6665b		SC-9123b07
Honda NSX	SC-6666a	SC-6666b		SC-9123b05
Callaway	SC-6668a	SC-6668b		SC-9123b10

5. Guide

- 5.1 Allowed guides are: **SC-1605 - SC-1606 - SC-1607 - SC-1608.**
- 5.2 It is allowed to modify blade thickness and reduce height till 1mm less from the original size.
- 5.3 It is allowed to cut down the guide post.
- 5.3 It is allowed to length of the guide
- 5.4 It is allowed to add spacers on the guide post.



6. Motor

- 8.1 Homologated motor is ref. **SC-0011c Tech-1*** with 20000 rpm
- 8.2 Motor cannot be glued to chassis nor fixed with tape, only the screws can be used fixed to the original holes.
- 8.3 It is not allowed do any action that may modify its original performance.
- 8.4 Motor Sticker can be removed underside view.



7. Pinion

- 7.1 Pinion for GT2 Class: Free choice with a maximum diameter of 7.5mm. press on versions , not fixed with setscrews.
- 7.2 For GT3 and GT4 class: Mandatory 12 tooth Scaleauto diameter 6.5mm regal pinion Ref. SC-1095E



ergal **SC-1095e**

8. Gear

- 8.1 Homologated gears when using a RT3 Motor pods (in any class) are:



- 8.2 Homologated gears when using a RT4 Motor pods are free made from Aluminum or plastic.

9. Tyres

- 9.1 Homologated rear Tyres are **Scaleauto** refs **SC-4756as25 (mandatory for GT3 and GT4 class), SC-4756as20 (20x10,5mm), SC-4761as25 o SC-4761as20 (19.5x10,5mm) .**
- 9.2 It is not allowed to glue the rear tyres to the hub. Also not allowed to thread them will any kind of liquid, except the ones from organization.
- 9.3 Front tyres are free choice on brand, must be rubber material, can be glued to tyre, and can be turned. Must cover completely the front hub, and cannot be treated with any liquid.

REAR TYRES WILL BE SUPPLIED IN PARC FERMEE ON OFFICIAL RACES

10. Hubs*

10.1 Homologated hubs are the following table with all external shape designs **a - c - d - e - f - h - k - z**

10.2 Front hubs can be manufactured in aluminum, plastic (solid, not drilled), or 3D printed. Rear hubs must be aluminum material.

10.3 Contact surface from hubs and rear tyre must be original without any kind of additive.

10.4 Solid hubs without design it is mandatory to use hubcover and are free of choice



model	Diam	wide
SC-4049	16.2	8.5
SC-4046	16.5	8.5
SC-4048	16.9	8.5
SC-4051	16.2	10.0
SC-4054	16.5	10.0
SC-4074	16.9	10.0
SC-4033	17.2	10.0
SC-4034	17.2	8.5

class	Diam. Rear hub
GT2	free
GT3	16.5 - 16.9
GT4	16.5

Diam	Front	Rear
Min	16,2	16,2
Max	16,9	17,2



* Discontinued production, not always available all options in all designs

11. Axles

11.1 It is allowed to use any kind of axles 3/32 or 2.38mm

11.2 It is allowed to use any kind of rear axle stoppers and axle spacers.

11.3 It is allowed to use any kind of front axle spacers.

12. Suspensions system

12.1 It is allowed any kind of suspension from the marked, assembled only where the chassis originally established positions (rear, side and front on the motor pod).

12.2 It is allowed to assembly any combination on its components (springs-magnets- nuts).

12.3 Suspension springs can be modified to make larger or shorter.

13. Screws - Spacers

13.1 Free choice of screws, can be metal or plastic ones.

13.2 Free choice of shims and spacers. Allowed where the original car are supplied plus front and rear axle.

13.3 Spacers and shims can be metal or plastic ones.

14. Braids - Wires - Terminals

14.1 Braid, Wires and Terminals are free choice.

14.2 Not allowed to solder the braid and wires.

15. Ballast

15.1 It is allowed to ballast the chassis (free material, solid and not magnetic).

15.2 It is allowed to ballast the motor pod (free material, solid and not magnetic).

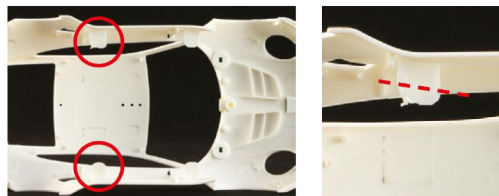
15.3 Ballast must not be exceed the chassis perimeter and must not be visible from a top view.

16. Body

16.1 Body cannot be modified except for what is strictly indicated in this technical rules.

16.1.1 Can be removed: Mirrors, Wipers, front and side secondary lights, hooks (from chassis as well) and antenas.

16.1.2 It is allowed to reduce the size from the side rear inner body floating stopper (see picture below), to allow a free space for motor pod and side suspension assembly.



16.2 Painting the original already decorated bodies is optional, while white body kits must be painted and it is not allowed only a clear cote on them.

16.3 Clear window parts must keep the original ones, not replacement for lexan is allowed.

16.4 It is forbidden to paint the front window and side front window areas.

16.5 Body post can be reinforced with plastic or metal tubes.

16.6 Body must be fixed to the chassis with all quantity of screws originally supplied.

16.7 It is Allowed to use additional spacers up to 1mm as enlargement from the body post.

16.8 It is allowed to reinforce the fixing areas where the rear wing is fixed, using glue, resin, and/or scotch. Always when the shape of the body is clearly not altered. Reinforcement must also not change the shape from the rear wing top area and cannot be fitted on top of the wing (even using tape). It is homologated all rubber wings done as replacement under the references: **SC-3630**, **they are not exchangeable between models.**

16.9 Ballast can be freely positioned above the body side floating supports.

16.10 It is permissible to use all model specific spare parts supplied by the manufacturer.

16.11 Body minimum weight is 17gr.

16.12 In All models Photoedge pieces can be replaced by Lexan parts

16.13 Some bodies / chassis are equipped with photo-etched parts, exhausts and fins. Clarifications:

- **PORSCHE 991:** rear fenders can be omitted; the escape is required. the rear wheelarch intake can be replaced by lexan.

- **VIPER:** Rear Photoedge can be omitted. Also allowed to **sand front grille area to allow correct turn from guide when assembling RT3 SC-6664A and RT4 SC-9123B08**



- **CORVETTE C7R:** the tip of the fender can be cut straight. The rear radiator can be removed.

- **BMW Z4:** Photoedge can be omitted front and rear.

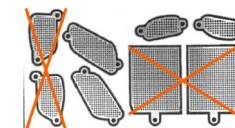
- **SPYKER:** not allowed to replace side exhaust with lexan

- **AUDI R8 LMS:** front hood air fan can be in Lexan.

- **MERCEDES-AMG:** possible to remove etched parts indicate in the picture and replace the cover engine by lexan.

- **PORSCHE 911.2** You can remove the photo-etched of the front grill. You can replace the rear side air intake cover for lexan part.

- **HONDA NSX.** Not to apply any exception



17. Lightweight Cockpit

17.1 It is allowed the lightweight cockpits.

17.2 It is possible to use only the specific reference manufactured for each model (see table)

17.3 Must cover the original area from the original cockpit.

17.4 It is a must to paint the driver. (bust, arms, gloves, helmet).



*Porsche 991.1 / 991.2

Car model	Lexan
Corvette C7R	SC-6656
Porsche 991	SC-6630
SRT Viper	SC-6626 / SC-6664
Spyker C8	SC-6619
BMW Z4	SC-6618
Audi R8 LMS	SC-6657
Mercedes-AMG	SC-6663
Porsche 911.2	SC-6630
Honda NSX	SC-6667
Callaway C7R	SC-6656

18. Magnets

18.1 Magnets are not allowed.

19. General

19.1 Any modifications not allowed in the rules are not allowed.

19.2 Use of a free component cannot be as exchange, replacement or omission if not specified in this technical rules.

19.3 The only reference for all part codes detailed in this technical rules is available at the following web-site: <http://www.scaleauto-slot.com>

19.4 While race technical inspection on race, the only liquids allowed are the ones provided by race organization, Which are the complete range from Scaleauto liquids

RACE DIRECTION:
In the event of regulatory ambiguity, the Organisation's judgment prevails

Oils

SC-5302

Speed oil-1
Bronce bushing.
20ml.



SC-5304

Speed oil-2
Ball bearings.
20ml.



SC-5312

Speed Oil-3
Transmissions.
Very High
Viscosity.
20 ml.



SC-5313

Speed Oil-4
Bronce Bushing.
High Density.
20 ml.



SC-5314

Speed Oil-5
with ceramic
nanoparticles
for minimum
friction.
20ml.



SC-5305c

Voodoo
Motor Speed
drops 3.0
20ml.



SC-5303

Magic grease
special for
transmissions.
15ml.

