

ScaleAuto – Technical Regulations 2023 (2023-02-09)

These rules are adapted from the Swedish Scaleauto rules (www.sveslot.nu)

Basic slot racing rules apply to ScaleAuto as well. That includes sportsmanship, track calls and problems with the track (also see general rules on nm.embrey.se). A Race jury is elected among the participants to support the race direction in unclear decisions.

The controller must not be able to raise the voltage to the car above the track voltage, otherwise it is free of make.

Min weight of the complete car at any time of the race is 190.0 grams. Min weight at technical inspection for the body including mounts is 55 grams and for the chassis excluding body with mounts is 135 grams.

Minimum ground clearance for the entire car except guide/braid is 1.2 mm. In the team race the clearance shall be a minimum of 1,0 mm at re-tech between stages. Minimum clearance during racing is 0,8 mm. Checks may be done at any time.

If the car is damaged during the competition, you may continue driving, as long as the car weight is not falling below minimum weight, except in the case of clearance below 0,8 mm, which has to be repaired immediately.

If the body is damaged during racing you may continue, but it must be repaired for the next stage (semi alt. final) in the competition.

The rear wing shall be mounted so that it does not fall of easily. It will be tested in technical inspection by lightly lifting the rear of the car 10 mm from the tech plate.

Body

Only Scaleauto 1/24 GT2 & GT3 cars in hard plastic are allowed.

Approved bodies: Porsche GT3 RSR, BMW M3 GT2, BMW Z4 GT3, MB SLS GT3, Jaguar XKR-RSR GT2, Audi R8 LMS GT3 2015 & 2018, Viper GTS-R, Porsche 991 RSR, Corvette A7R GT3.

Body mounts must be the original for the body.

The body must not be made lighter (lowered weight), but it may be strengthened.

Body exterior and driver insert shall be painted. The driver insert must be painted with at least 3 colors and the body with at least 1 covering color.

The body must look like a racing car, and a minimum requirement is three number markings with the same number in typical 1:1 racing style. A number on each side of the door and one on the bonnet.

It is permitted to use Scaleauto's lexan windows and driver insert, other bodywork details must be original. (See section on carbon fiber parts and rubber mountings below for exceptions.) The roll bar from the original interior must be mounted in the lexan interior.

Lighting in the headlights may be installed.

The body must cover the entire chassis when viewing the car from above, which means that the wheels must not be visible outside the wheel arches.

The minimum weight of the body is 55.0 grams, extra weight may only be placed inside the body.

Chassis

Only Scaleauto SC8000, MSC-11, SC-8000R4, and SC-8003GT3 with a thickness of min 1.5 mm and in steel are allowed. Magnets must not be used. Deburring of obvious casting deviations may be done. Allowed to countersink screw holes in the chassis so that screws can be mounted flush with the bottom of the chassis.

Bearing holders SC8121 (adjustable) and SC 8108a-e are allowed to create the correct clearance. Even the warehouse keepers, which is original on SC-8003 GT3, can be used for SC8000, MSC-11 and SC-8000R4. It is permitted to use shim material under the bearing holders. The distance from the top of the “H-plate” and the bottom of the chassis must not exceed 4 mm. Front springs may be used, but not rear springs.

Front wheel track width max 80 mm, and rear max 83 mm, including axle and wheel inserts. Axles to be made of solid steel with a dia of 3.0 mm.

Braid, guide, cables, cable holders, bearings, axles, screws, nuts and washers of free make.

Extra weight on the chassis must be placed on the top of the chassis and must not be visible from below.

Carbon Fiber Parts and rubber mountings

Scaleauto original carbon fiber rear wing, H-plate and guide ear are allowed for the model used are allowed. Scaleauto rubber rearview mirrors and rearwing mounts are allowed mounted in original positions.

Motor

Handout NSR King 25k EVO, No. 3026. Original markings must be visible. You may not add any extra coolers to the motor.

Wheels and gears

Front wheels: SC original SC-2715P. (blue line on the side) Min dia 25.0 mm and min width 7.5 mm.

Rear wheels: (handout) SC original SC-2421P ProComp 3. (orange line on the side) Max width 13.0 mm.

3D rim inserts must be in the four wheels during technical inspections.

The rear tires must not be treated with any product to affect its compound. Tape for cleaning is made available at the track.

Transmission/drive must be pitch M 50; pinion 12 T drive 44 T. Free make.