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# Baltic Touring Cars Technical Regulations 2021 Official



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### 1. GENERAL

- 1.1. These technical regulations shall come into force from 1st of April 2021 and shall remain valid until the official publication of the amendment.
- 1.2. The requirements of the FIA International Sport Code Appendix J are only applicable if there is an explicit reference to a particular article / item.
- 1.3. Car parts and their attachment must be such that they do not endanger the driver, car service personnel, third parties or third party property.
- 1.4. Everything that is not allowed in these technical regulations is forbidden. Allowed changes / redundancies should not cause or have invalid changes.
- 1.5. In the event of disagreement on the perception or application of certain points, the right to comment and clarify these technical requirements is the responsibility of the LASF Technical Requirements Committee.
- **1.6.** In the exceptional case, Promoter has a right to apply individual engine intake restrictor to the car during the championship.

#### 2. DEFINITIONS

- 2.1. Bodyshell the unit of metal body parts marked with a vehicle identification number (VIN), connected by welding or other fastening elements (glue, rivets), including the floor with the transmission tunnel and side sills, front and rear longitudinal beams (incl shock towers) and cross members between them (if they are not screwed in the production process), A, B, C pillars, roof panel with transverse beams, rear wings (if they are not screwed in during the production process), firewall between the cockpit and engine compartment, firewall (if provided) between the cockpit and luggage compartment, cross members and suspension mounting points (if they are not screwed in during the production process).
- 2.2. Cockpit the space provided by the manufacturer for the driver and passengers, separated by the engine compartment firewall and it may be separated by luggage compartment firewall (including a shelf under the rear window). If any part in the cockpit space is separated by a fluid-tight and fire-proof container or bulkhead, this part is considered to be outside the cockpit.
- 2.3. Original part part used in a serial production of the car make, or another part identical in shape and in operation (analogue) by a different manufacturer (example: in a BMW car instead of the original BMW wishbone, SWAG, FEBI, TRW, and LEMFORDER wishbones can be used.
- 2.4. Serial part the part which is made in a serial production way in the factory (example: in a BMW car, wishbones made by TOYOTA, VW, WISEFAB, SAMSONAS, IRP or other manufacturers can be used).
- 2.5. Free part a part that can be modified, reshaped or altered in any way or replaced by another part. Restrictions are not applied to the material or the form of the part. The part can be even removed.
- 2.6. The calculated engine capacity is the geometric engine capacity multiplied by the coefficients given in section 2.7. If the engine is not subject to a coefficient, the calculated engine capacity corresponds to the geometric capacity.
- 2.7. Coefficients for determining the calculated engine capacity:
  - Supercharged petrol engines 1,7;
  - Supercharged diesel engines 1,5;
  - Rotary engines 2,0.

### 3. AUTHORIZED CARS

- 3.1. Large scale series production cars, marked with factory VIN number (including CABRIO type cars with hard top in use).
- 3.2. LM GTE, GT3, GT4 cars.
- 3.3. Non-series production cars (with tubular frame bodywork, or semi-tubular bodywork, or monocoque bodywork).
- 3.4. Technical passport of the sporting vehicle issued by the FIA or ASN is compulsory.

#### 4. PROHIBITED CARS

4.1. Cars that do not meet these technical regulations.



- 4.2. TCR (valid or ended homologation, non-compliant to homologation) cars.
- 4.3. Cars with the height of less than 1100 mm or more than 1600 mm.
- 4.4. Cars with open cockpit (example: LOTUS 7).
- 4.5. Cars with body uncovered wheels (example: LOTUS 7).
- 4.6. Vehicles whose construction or equipment contain deficiencies which could endanger the crew, service personnel, third parties or third party property (as decided by the Competition Technical Commission).

### 5. CLASSES

- 5.1. The cars are divided into classes according to the calculated engine capacity, construction type:
  - BTC1 series production cars with naturally aspirated petrol engines and calculated engine capacity up to 1600 cm<sup>3</sup>;
  - BTC2 series production cars with naturally aspirated petrol engines and calculated engine capacity up to 2000 cm<sup>3</sup>;
  - BTC3 series production cars with calculated engine capacity from 2000 cm<sup>3</sup> up to 3000 cm<sup>3</sup>;
  - BTC4 series production cars with calculated engine capacity up to 4000 cm<sup>3</sup>;
  - BGT AM series production cars with engines in the front (except for PORSCHE CARRERA 911 up to year 2006), with calculated engine capacity up to 5500 cm<sup>3</sup>;
  - BGT PRO series production cars and non-series production cars (with tubular frame bodywork, or semi-tubular bodywork, or monocoque bodywork), LM GTE, GT3 cars.

### 6. MINIMUM RACING WEIGHT BY THE CALCULATED ENGINE CAPACITY

6.1. Minimum racing weight of a car at any time of the race (including qualifying):

Range of calculated engine capacity	Weight			
BTC1, BTC2, BTC3, BTC	24			
1200 cm <sup>3</sup> - 1300 cm <sup>3</sup>	850 kg			
1300 cm <sup>3</sup> - 1400 cm <sup>3</sup>	900 kg			
1400 cm <sup>3</sup> - 1500 cm <sup>3</sup>	950 kg			
1500 cm <sup>3</sup> - 1600 cm <sup>3</sup>	1000 kg			
1600 cm <sup>3</sup> - 1800 cm <sup>3</sup>	1070 kg			
1800 cm <sup>3</sup> - 2000 cm <sup>3</sup>	1140 kg			
2000 cm <sup>3</sup> - 2500 cm <sup>3</sup>	1180 kg			
2500 cm <sup>3</sup> - 3000 cm <sup>3</sup>	1230 kg			
3000 cm <sup>3</sup> - 3500 cm <sup>3</sup>	1290 kg			
3500 cm <sup>3</sup> - 4000 cm <sup>3</sup>	1430 kg			
BGT AM				
- 2500 cm <sup>3</sup>	1080 kg			
2500 cm <sup>3</sup> - 3000 cm <sup>3</sup>	1130 kg			
3000 cm <sup>3</sup> - 3500 cm <sup>3</sup>	1190 kg			
3500 cm <sup>3</sup> - 4000 cm <sup>3</sup>	1250 kg			
4000 cm <sup>3</sup> - 4500 cm <sup>3</sup>	1310 kg			
4500 cm <sup>3</sup> - 5000 cm <sup>3</sup>	1370 kg			
5000 cm <sup>3</sup> - 5500 cm <sup>3</sup>	1430 kg			
BGT PRO				
- 2500 cm <sup>3</sup>	960 kg			
2500 cm <sup>3</sup> - 3000 cm <sup>3</sup>	1020 kg			
3000 cm <sup>3</sup> - 3500 cm <sup>3</sup>	1080 kg			
3500 cm <sup>3</sup> - 4000 cm <sup>3</sup>	1140 kg			



4000 cm <sup>3</sup> - 4500 cm <sup>3</sup>	1200 kg
4500 cm <sup>3</sup> - 5000 cm <sup>3</sup>	1260 kg
5000 cm <sup>3</sup> -	1320 kg

- 6.2. Weighting procedure. Minimum weight is the weight of the car with the driver and driver's equipment.
- 6.3. Prior to the weighing, it is forbidden to add any objects or any liquids (including fuel) to the car.
- 6.4. Before the event it is permitted to complete weight of the car by one or several ballasts, provided that they are strong and unitary blocks, fixed by means of tools with the possibility to fix seals, placed on the floor of the cockpit.
- 6.5. A weighing error of  $\pm$  0,25% is applied.

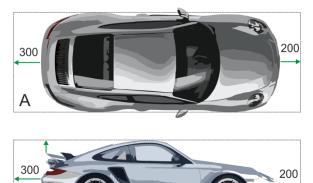


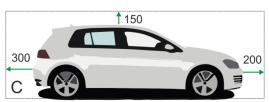
### 7. BODYWORK

- 7.1. Bodyshell.
- 7.1.1. The exterior of the bodywork of the base model should be maintained and recognizable.
- 7.1.2. Bodyshell must be original but may be modified in accordance with the requirements in this paragraph.
- 7.1.3. Parts and brackets (rear seat, spare wheel, wiring harnesses brackets, etc.), whose function is not associated with the stiffening of the bodyshell and which do not engage parts of bodyshell, can be removed.
- 7.1.4. Firewall and the floor must be original but may be modified, but only where necessary for the installation of the seats, the exhaust system, engine and transmission units or suspension mounting. The area to be modified cannot be larger than necessary for the installation of the above mentioned parts. These modifications are permitted only if the material and material thickness used is the same as the original part.
- 7.1.5. Spare wheel housing FREE. If housing is cut off, the opening must be covered (welded, riveted, glued) with the sheet of metal or composite panel (min thickness 1,0 mm).
- 7.1.6. Roof panel original or can be made of composite materials (min thickness 2,0 mm). Roof transverse member can be removed. In the case of a sunroof, the opening must be covered (welded, riveted, glued) with the same material (same material thickness) as the original or with a 2,0 mm thickness aluminium sheet or composite panel. It is allowed (recommended) to cut-off or grind-off the inner edges of the sunroof opening to reduce the possibility of the injury.
- 7.1.7. Ventilation openings, diffusers on the roof panel may be installed, with the condition that their design protects against the direct access of any objects or water to the interior of the car.
- 7.1.8. Reinforcement of the bodyshell is permitted.
- 7.1.9. Seam welding of the bodyshell is permitted.
- 7.1.10. Additional hinges, threads, and fitting are permitted.
- 7.2. Doors, engine bonnet and boot lid, bumpers, front fenders, grills.
- 7.2.1. Front doors original. These doors can be modified by dismantling the safety bar or can be made of composite materials. In the case of modified or composite doors, a crash box or safety foam (according to section 7.2.2) must be fitted in the driver's door (or between the roll cage and doors). Except for homologated or cup cars.
- 7.2.2. Crash box must be made of non-combustible composite materials (minimum panel composition must comply with FIA J art 255 14) or made of the foam (see FIA Technical list No. 58). The panel must cover the plane from the bottom of the door to the upper edge of the roll cage side bars.
- 7.2.3. Front door window lifters FREE.
- 7.2.4. The inner panel of the front doors original (can be modified) or can be made of:
  - A sheet of metal (min thickness 0,5 mm);
  - A sheet of carbon fibre (min thickness 1,0 mm);
  - Other non-combustible materials (min thickness 2,0 mm).
- 7.2.5. Rear doors original (may be modified) or made of composite materials
- 7.2.6. Rear door window lifters FREE.
- 7.2.7. Inner panel of the rear doors FREE.
- 7.2.8. Front doors must be openable from both inside and outside of the car.
- 7.2.9. Engine bonnet and boot lid original (may be modified), or made of composite materials, or aluminium (minimum thickness 1,0 mm).
- 7.2.10. Original engine bonnet lock must be rendered inoperative or removed.
- 7.2.11. Safety pins (springs) mandatory at least two for each engine bonnet and boot lid.
- 7.2.12. Front and rear bumpers FREE construction and material but compulsory.
- 7.2.13. Front and rear bumper cross-beams FREE.
- 7.2.14. Front fenders original (may be modified), or made of the composite materials, or aluminium (min thickness 1,0 mm).
- 7.2.15. Front grilles FREE construction and material but compulsory.
- 7.2.16. Other external decorative parts FREE.
- 7.3. Windows, wipers, washers.



- 7.3.1. Windscreen can be original (can be heated) or made of polycarbonate plastic with a minimum thickness of 5,0 mm and an outer surface treated to be wear-resistant. It may be fitted with one or several transparent and colourless films on its outer surface.
- 7.3.2. It is allowed to use sun strip on the upper edge of the windscreen, on condition that it does not prevent the driver from seeing the signals and signs of the judges.
- 7.3.3. Windscreen wipers FREE, but at least one active wiper is required.
- 7.3.4. Windscreen washer system FREE.
- 7.3.5. Side windows original (covered with a colourless protective film in accordance with FIA J art 253 11) or may be replaced with transparent polycarbonate plastic (min thickness 3,0 mm). In case of the plastic glazing in the front doors, windows must be fitted in such a way that they can be removed without the help of tools. Example: windows may be placed in the original upper girth of the door and mounted on the bottom with brackets, rivets, bolts. The attachment of other side windows (including windows of front doors made of composite doors) is free.
- 7.3.6. The rear window can be original or made of polycarbonate plastic with a minimum thickness of 3,0 mm. The attachment of the rear window is free.
- 7.3.7. Rear window wiper FREE.
- 7.3.8. Rear window washer system FREE.
- 7.3.9. Window vents. For safety reasons, it is recommended to install air vents in the plastic windows of both front doors. The shape of the vent opening is free (recommended minimum size of 90 cm<sup>2</sup>). Air vents can also be installed in the rear windows and the spaces between the upper edge of the rear door frame and the window.
- 7.3.10. Tinting of the windows (including the silver film) is prohibited.
- 7.3.11. Due to ventilation its allowed to open the front windows by 1/5 of the opening during the race.
- 7.4. Rear-view mirrors.
- 7.4.1. Side view mirrors must be fitted on both sides of the car. The reflecting surface of each mirror cannot be less than 90 cm<sup>2</sup>.
- 7.4.2. An inside rear-view mirror compulsory, except for cars with the originally closed visibility through the rear window.
- 7.5. Aerodynamic elements and underguards.
- 7.5.1. Aerodynamic elements FREE, but must be situated within the perimeters marked in the picture 1. A for all cars, B for coupe, sedan, cabrio, C for hatchback, wagon.







- 7.5.2. Aerodynamic elements may only be adjusted with the help of the tools.
- 7.5.3. Underguards FREE.
- 7.6. Interior.
- 7.6.1. Main condition the cockpit of the car cannot have open cavities with sharp, protruding edges that could injure the driver during an accident.
- 7.6.2. If any of the following fuel tank, fuel catch tank, liquid-filled battery, fuel pumps, liquid (oil) tanks (except for water and window washer tank) are installed in the cockpit (including open luggage compartment), they must be separated from the driver by a non-flammable, fluid-tight firewall or container.
- 7.6.3. Instrument panel serial (may be modified) or made in the form of the serial panel from other materials.
- 7.6.4. Supplementary instruments (gauges, meters, sensors) FREE, however, it is prohibited to install mechanical instruments for engine lubrication and cooling system according to paragraph 16.
- 7.6.5. Horn FREE.
- 7.6.6. Onboard cameras and radio allowed but must be securely fixed either on the roll cage, or on the part of bodyshell.
- 7.6.7. Other interior parts FREE.
- 7.7. Towing eyes.
- 7.7.1. Towing eyes (min inner diameter 60 mm) must be fitted in the front and in the rear. Towing eyes made from soft (belt, etc) materials are strongly recommended.
- 7.7.2. Towing eyes must be clearly visible (coloured yellow, red or orange) or (and) clearly marked.

### 8. ENGINE

- 8.1. Only internal combustion engines are permitted.
- 8.2. Motorcycle engines are prohibited, even if they were serially fitted into a model of a production car. The use of BMW S54 reduced capacity engines in class BTC2 and BTC3 are forbidden.
- 8.3. Cylinder block serial (can be modified). Example: the MITSUBISHI cylinder block can be mounted on the BMW body.
- 8.4. Cylinder diameter and piston stroke can be changed.
- 8.5. Due to engine repairs (original repair piston sizes) it is allowed to exceed the original geometric engine capacity limit by up to 2%. In such cases, the original geometric capacity is deemed to have not changed and this does not cause the car to be moved to another class or (and) weight category.
- 8.6. Crankshaft FREE, but the number and type of the bearings must be retained.
- 8.7. Conrods and pistons (incl rings and pins) FREE.
- 8.8. Crankshaft main and conrod bearing shells FREE.
- 8.9. Flywheel and pulleys FREE.
- 8.10. Cylinder head FREE, but original layout of the camshaft (-s) and number of the valves must be retained. The use of BMW S54 cylinder head in class BTC2 and BTC3 is forbidden.
- 8.11. Valves and springs FREE.
- 8.12. Valve drive (rocker arms, tappets) FREE.
- 8.13. Camshaft (-)s FREE. Except for BMW S50B30 engine in class BTC3, where original camshafts may only be used (INTAKE 3219618, EXHAUST 3219518).
- 8.14. Camshaft sprocket gear (-s), pulleys, variable timing adjusters FREE.
- 8.15. Camshaft drive (chains, belts, tensioners, sliders) FREE.
- 8.16. Cylinder head gasket and screws FREE.
- 8.17. Engine mounting FREE.
- 8.18. Lubrication system FREE, but its components cannot be fitted in the cockpit.
- 8.19. Cooling system FREE, but its components, with the exception of interior heating, cannot be fitted in the cockpit. It is permitted to remove or modify the heating system, however it is necessary to ensure protection against fogging of the windscreen.
- 8.20. Engine fuel air supply system.
- 8.20.1. Composition of the mixture atmospheric air + fuel delivered from one tank of the car. Water as an additive may be used (water injection).
- 8.20.2. Air inlet cannot be placed in the cockpit.
- 8.20.3. Air filter box (with diffusers) FREE.



### 8.20.4. Air filter - FREE.

8.20.5. Air intake lines (pipes, hoses) - FREE. Except for BMW S50B30 engine in class BTC3, where original airbox may only be used.



#### 8.20.6. Air flow meter – FREE.

- 8.20.7. Throttle body (TB) or individual throttle bodies (ITB) FREE with exceptions:
  - for BMW S50B30 engine in class BTC3, the internal diameter of ITB ports is limited to max 50 mm. Diameter of TB port is FREE;
  - In class BTC2 the internal diameter of TB is limited to max 64 mm. In the case of a bigger diameter TB or ITB all air flow sucked into the engine (including flow sucked through the idle valve) must pass restrictor with an internal diameter of max 64 mm. Construction and material of the restrictor is free. Restrictor must be located between the air filter and the TB (ITB).
  - For the naturally aspirated engines with single TB in class BGT AM the internal diameter of TB is limited to max 70 mm. In the case of a greaterer diameter TB's or ITB's all air flow sucked into the engine (including flow sucked through the idle valve) must pass restrictor with an internal diameter of max 70 mm. In the case of double intake, with two TB's, the size of each TB or restrictor must be not greater than 50 mm;
  - Restrictor(-s) must be located between the air filter and the TB (ITB). Restrictor must be produced from a single mass material.

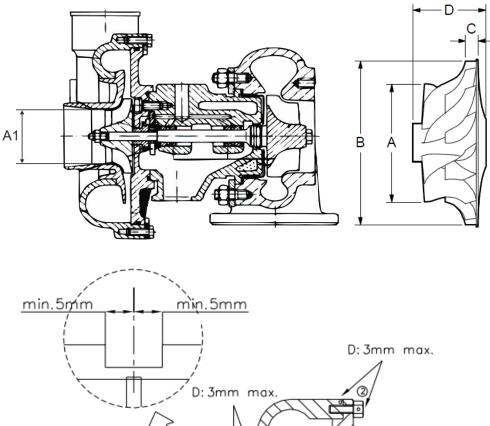
#### 8.20.8. Intake manifold - FREE.

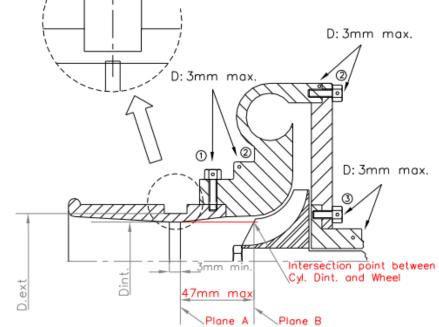
- 8.20.9. Turbocharger (-s) FREE with an exceptions:
  - Turbocharger is forbidden in classes BTC1 and BTC2;
  - Compressor impeller diameter A is limited to max 48 mm or / and internal diameter of intake channel A1 is limited to max 50 mm (tolerance of +1.0 mm is accepted) for:
    - diesel engines in class BTC3;
    - petrol and diesel engines in class BTC4.
  - More than one turbocharger may be used on engines, which are produced in a factory with a such composition and with original turbochargers in use.
- 8.20.10. The intake air restrictor is compulsory for:
  - Turbocharged petrol engines in class BTC3. Max internal diameter 32 mm. LASF Technical Committee has a right to make change of this point, reducing diameter to 30 mm during the championship;
  - Turbocharged petrol engines in class BTC4 and BGT AM and turbocharged diesel engines in class BTC3, of which compressor impeller diameter A is bigger than 48 mm or internal diameter of intake



channel A1 is bigger than 50 mm (tolerance of +1.0 mm is accepted). Max internal restrictor diameter – 50 mm;

• All air flow sucked into the engine (including flow sucked through the idle valve) must pass restrictor which must be mounted on the compressor housing according to FIA J art 255 – 5.1.8.3.

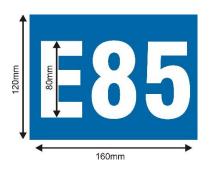




- 8.20.11. Supercharger (mechanical compressor):
  - Original with modified gear in class BTC4;
  - Prohibited in classes BTC1, BTC2 and BTC3;
  - FREE in classes BGT AM and BGT PRO



- 8.20.12. Intercooler FREE. Internal capacity not more than 18 L in classes BTC3 and BTC4. Water spray cooling is allowed.
- 8.20.13. Injectors FREE.
- 8.20.14. Carburettors FREE.
- 8.20.15. Fuel circuit, filters and catch tank FREE. Installation according paragraph 16. Use of automatic cut-off valve on the fuel circuit is recommended. Installation according FIA J 253 3.3.
- 8.20.16. Fuel pump (-s) FREE. Fuel pump(-s) must operate when the engine is running, except during the starting process.
- 8.20.17. Fuel tank (–s) original or (and) FIA homologated fuel tank FT3 1999, FT3.5 or FT5 (an extension of the homologation for 5 years, without approval of the manufacturer, is allowed). Installation according to FIA J art 252 9.6 and FIA J art 253 14.
- 8.20.18. Fuel tank ventilation system and roll-over valves original. If the original ventilation system is dismantled, the new system and parts must comply with FIA J art 253 3.4.
- 8.20.19. The fuel filler neck or (and) homologated fuel filler connectors must not extend beyond the outer perimeter of the bodywork. Installation according to FIA J art 253 14.2.
- 8.20.20. Filler neck (except for filler connectors), fuel tank, fuel catch tank, filter(-s), pump (-s) must be outside the cockpit (points 2.2. and 7.6.2. of these regulations).
- 8.20.21. Liquefied or natural gas tanks (cylinders) prohibited.
- 8.20.22. Fuel FREE.
- 8.20.23. When using bio-ethanol (E85), the vehicle must be marked on both sides with E85 stickers, with no more than 200 mm above the rear wheel arches.
- 8.20.24. Bioethanol sticker example:



- 8.21. Exhaust system.
- 8.21.1. All engine exhaust gases must enter the main exhaust pipe and exit it at the end of pipe.
- 8.21.2. The end (exit) of the exhaust pipe must be situated within the perimeter of the car and less than 100 mm from this perimeter, in the rear or on the side of the car, behind the front wheel. No parts of the chassis should be used to evacuate exhaust gasses.
- 8.21.3. Exhaust manifold FREE.
- 8.21.4. Other parts of the exhaust system FREE.
- 8.21.5. Maximum noise level: 105 dB (A) at 6000 RPM. This measurement will be taken at a distance of 0,5 m and at a 45 degree angle to the point of exit of the exhaust.
- 8.22. Ignition system FREE.
- 8.23. Engine ventilation system FREE. In case of an open type sump breather, the system must be equipped in such a way, that the oil flows into the catch tank, with a minimum capacity of 2,0 liters. It is recommended to follow the requirements of FIA J art 255 5.1.14.
- 8.24. Engine management.
- 8.24.1. Engine control unit (ECU) and software FREE.
- 8.24.2. Engine wiring harness FREE.
- 8.24.3. Additional sensors are allowed.
- 8.25. Other engine parts and systems FREE.
- 9. TRANSMISSION



- 9.1. The conversion from two-wheel drive to four-wheel drive and vice versa is allowed, even if these gear types were not provided for in the base model.
- 9.2. Clutch FREE.
- 9.3. Clutch drive (pedal, master and slave cylinders) FREE.
- 9.4. Clutch fluid lines may be replaced by aviation type tubes or hoses. It is permitted to run these lines inside the cockpit according to paragraph 16.
- 9.5. Gear box FREE. The use of dog type (incl. sequential) or automatic (incl. DSG, DCT, SMG, ect) gear boxes in class BTC3 is forbidden.
- 9.6. Position and orientation of the gearbox FREE.
- 9.7. Gear ratios FREE.
- 9.8. Reverse gear mandatory.
- 9.9. Gear change system FREE. Gear change H pattern in class BTC3 must be retained.
- 9.10. Central differential (incl. management) FREE.
- 9.11. Propshafts (incl. CV joints) FREE.
- 9.12. Driveshafts (incl. CV joints) FREE.
- 9.13. Differential FREE.
- 9.14. Limited slip differential systems FREE.
- 9.15. Other transmission parts FREE.

#### **10. BRAKING SYSTEM**

- 10.1. Double circuit brake system, operated with one pedal compulsory. The pedal must normally control all wheels, but in the event of any type of brake failure, the pedal must brake at least two wheels.
- 10.2. Brake pedal and drive FREE, but parts must be made of metal.
- 10.3. Brake light switch compulsory with retained function.
- 10.4. Master cylinder(-s) (incl. fluid tank) FREE. Fluid tanks made of flamable materials must be covered with a container if situated in the cocpit.
- 10.5. Brake booster FREE.
- 10.6. Anti-lock braking system FREE.
- 10.7. Brake calipers FREE.
- 10.8. Brake discs FREE.
- 10.9. Brake pads FREE.
- 10.10. Hand brake FREE.
- 10.11. Brake balance adjuster FREE.
- 10.12. Brake lines may be replaced by aviation type tubes or hoses. It is permitted to run these lines inside the cockpit according to paragraph 16.
- 10.13. Brake cooling FREE.
- 10.14. Other parts of the braking system FREE.

#### **11. STEERING**

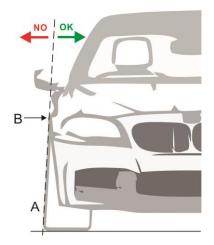
- 11.1. If the series production car model has an all wheel steering system, it can remain, but can not be modified.
- 11.2. Steering wheel FREE.
- 11.3. Steering wheel quick release system recommended.
- 11.4. Steering drive (shafts and their hinges) FREE.
- 11.5. Steering wheel lock must be an inoperative or removed.
- 11.6. Steering wheel position adjuster. The steering wheel position can only be adjusted with the help of tools.
- 11.7. Steering rack FREE.
- 11.8. Steering rods (incl ends) FREE, but can not be made of composite materials.
- 11.9. Power steering (pump, motor, gear and fluid lines) FREE.
- 11.10. Other parts of the steering system FREE.



- 12.1. The operating principle of the suspensions FREE.
- 12.2. Wheel base FREE.
- 12.3. Springs (leaf springs, torsion bars) FREE.
- 12.4. Spring supports FREE.
- 12.5. Shock absorbers FREE, however systems allowing adjustment of the shock absorbers during the driving are prohibited.
- 12.6. Shock absorber (spring) top mounts (bearings) FREE.
- 12.7. Uprights (including bearings, hubs) FREE.
- 12.8. Wishbones, trailing arms FREE, but can not be made of composite materials.
- 12.9. Anti-roll bars (sway bars) and their connections with the suspension FREE.
- 12.10. Suspension joints (bushes, bearings) FREE.
- 12.11. Crossmembers FREE, but modifications can not cause structural weakness.
- 12.12. Suspension mounting points FREE, however, the modification can not cause structural weakness.
- 12.13. Other parts of the suspension FREE, but they can not be made of composite materials.
- 12.14. Ground clearance. No part of the car must touch the ground when tyres on one side are deflated. This test must be carried out on a flat surface under race conditions with driver onboard.

#### 13. WHEELS

13.1. Fenders (bodywork) must completely cover the wheels (incl. wheel studs) from the top. With the wheels straight (with no damages to suspension) the projection line "A", lined with the side of the wheel, must cut through or touch the fender at the point "B".



- 13.2. Wheel fasteners. Serial fastening with bolts can be replaced by fastening with studs and nuts or axel fastening with one nut.
- 13.3. Rims made of a magnesium are not permitted.
- 13.4. The use of NANKANG AR-1 tyres in classes BTC1, BTC2 and BTC3 are compulsory:
  - Class BTC1 max size 205/50R15;
  - Class BTC2 max size 225/45R17;
  - Class BTC3 max size 235/40R18;



- 13.5. Tyres in classes BTC4, BGT AM and BGT PRO are FREE.
- 13.6. The number of tyres unlimited.
- 13.7. Any heating (with a help of electrical or fuel power) or chemical treatment of the tyres is prohibited.
- 13.8. For wet race conditions it is allowed to modify tyre pattern in a free manner.

### 14. LIGHTING AND ELECTRICAL EQUIPMENT

- 14.1. External lighting must be original or other lights can be fitted if they meet the following minimum requirements:
  - One pair of front (low beam) lights (55W or equivalent LED);
  - One pair of red rear lights (10W or equivalent LED);
  - One pair of red brake lights (21W or equivalent LED);
  - One red rear rain (fog) light (21W or equivalent LED);
  - Two pairs of indicator lights one pair in the front, one in the rear (21W or equivalent LED);
  - Max two pairs of the front additional lights may be used;
  - Recognition lights may be installed (max 5W or equivalent LED).
- 14.2. Alternator FREE.
- 14.3. Starter FREE.
- 14.4. Battery FREE. If battery is moved from its original location, it must be installed according to FIA J art 255
  5.8.3. Battery in the cockpit must be dry type battery and it must be installed behind the line of the driver seat.
- 14.5. Wiring harness free, but must be installed according to paragraph 16.
- 14.6. Other lighting and electrical equipment FREE.

#### **15. GENERAL CIRCUIT BREAKER**

15.1. The general circuit breaker – compulsory. It must cut out all electrical circuits from the battery and switch of the engine. Installation and use according to FIA J art 253 - 13.

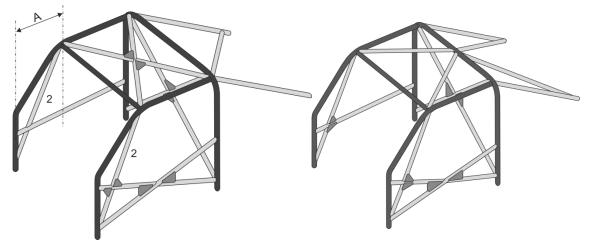
#### 16. LINES (HOSES, PIPES) AND ELECTRICAL CIRCUITS

- 16.1. Obligatory application if the series fitting is not retained.
- 16.2. Oil, fuel, and hydraulic lines must be protected externally against any risk of deterioration (stones, corrosion, mechanical breakage, etc) and internally against any risk of fire and deterioration.
- 16.3. Any lines containing cooling water (fluid) or lubricating oil must be outside the cockpit.
- 16.4. Lines containing fuel or hydraulic fluid may pass through the cockpit, but without any connectors inside the cockpit, except on the front and rear bulkheads and on the braking and clutch circuits.
- 16.5. In case of flexible lines, threaded, crimped, or self-sealing connectors and an outer braid resistant to abrasion and fire must be used.
- 16.6. In places where lines or wires pass through firewalls, the edges of the holes must be covered with protective materials.
- 16.7. No lines or wiring, no cables or lines of the fire extinguishing system may pass between the bodywork and outer perimeter of the roll cage.
- 16.8. Additional information FIA J art 253 3.

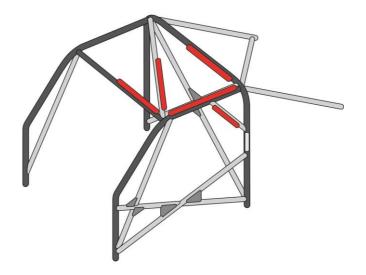


### 17. SAFETY CAGE

- 17.1. The fitting of the safety cages is compulsory. It may be either:
  - Homologated by FIA or ASN. The homologation form or safety cage certificate must be present at every race event;
  - Fabricated in compliance with the requirements of the FIA J art 253.8 (2020). The national safety cage certificate must be present at every race event.
- 17.2. Minimum safety cage structure (for cages built after 31.12.2020):



- 17.3. Windscreen pillar reinforcement bar (No 2) must be fitted on each side of the front rollbar (lateral halfbar) if dimension "A" is greater than 200 mm.
- 17.4. Places (marked red in picture), where the driver's helmet can come into contact with the safety cage during an accident, must be covered with a padding in accordance with FIA 8857-2001 standard. Padding must be fixed tightly to the safety cage bar, with no possibility to move it or to turn it on the radius of the bar.





### 18. SAFETY HARNESS, SEATS, WINDOW NET AND DRIVERS EQUIPMENT

- 18.1. Safety harness. Six point, mechanically or (and) chemically undamaged safety harnesses in compliance with FIA 8853/98, 8853-2016 standards must be used. Installation and use according to FIA J art 253 6.2 / 6.3. No homologation extensions allowed. Elastic devices attached to shoulder straps are prohibited.
- 18.2. Belt cutter compulsory. It must be easily accessible for the driver when seated with his harnesses fastened.
- 18.3. Seat. Mechanically or (and) chemically undamaged seat in compliance with FIA 8855-1999, 8862-2009 standards must be used. Installation and use according to FIA J art 253 16. Homologation extension of 5 years, without approval of the manufacturer, allowed.
- 18.4. Window net mandatory. Installation and use according to FIA J art 253 11. The use of hand straps instead of a net is authorized. The installation and use of this equipment must ensure the protection of driver's hands.
- 18.5. Drivers equipment. Clothing (overalls, shirt, trousers, socks, balaclava, shoes, gloves) in compliance with FIA 8856-2000 standard must be used.
- 18.6. Helmet. Helmet in compliance with (FIA (SNELL) SA2005 / SA2010 / SAH2010 + 8858-2002, SA2005 / SA2010 / SAH2010 + 8858-2010, 8858-2002, 8858-2010, 8860-2004, 8860-2010, 8859-2015, 8860-2018) standards must be used. Any additional equipment (cameras, camera-holders) that are not provided by the manufacturer prohibited.
- 18.7. Head restraint systems (HANS, HYBRID). Head restraint systems in compliance with FIA 8858-2002, 8858-2010 standards must be used.

#### **19. FIRE EXTINGUISHING EQUIPMENT**

- 19.1. Fire extinguishing systems recommended. Installation according to FIA J 253 7.2.
- 19.2. Manual fire extinguisher mandatory (min 2 kg), if no fire extinguishing system installed in the car. Manual fire extinguisher must be easily accessible for the driver. Installation according to FIA J art 253 7.3.

# GOOD LUCK!