



LATVIJAS  
AUTOMOBILU  
FEDERĀCIJA

Latvia  
DRIFT

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# LATVIA DRIFT CUP

# STREET CLASS

## TEHNICAL REGULATIONS

### P.1

1.1 Car must match the requirements of the technical inspection of the National Road Traffic Safety Directorate (CSDD). Except paragraphs 7.1, 8.1, 8.3, 9.2, 12.1

### DEFINITION

If vehicles constructions is considered dangerous, and the scrutineer, Competition Organizer, Commissioner or main Judge - reports it vehicle may not be allowed to compete.

### P.2

If devices and constructions, which are not strictly regulated, are used and their use and installation are free, that must be done according to the general requirements of the general rules for the installation of technical specifications or sports specifications.

### P.3 – HOMOLOGATION

Eligible models must be considered a “production vehicle” and have had a minimum build run of 2500 units in each model year.

## P.4 - AMOUNT OF SEATS

Vehicle has to be equipped with at least four or two seats, according to group A specified dimension for tourism vehicles.

## P.5 - ALLOWED OR MUST-HAVE CHANGES AND ADDITIONS

Allowed change must not contain forbidden change.

The amount of allowed changes and additions is set below.

**FUEL** - Only normal commercial fuel sold for automobile use is allowed - petrol, diesel, bioethanol (E85). Vehicle with bioethanol must have mark on the car – sticker E85. For all other fuels requires written permission of SCRUTINEER before the race.

## P.6 - SAFETY PREFACE

### 6.1 Driver seat

Sports (bucket) seats are prohibited. Original, industrially manufactured seats may be replaced with other manufacturer (Recaro) type seats, which are properly secured. About conformity of construction decides technical commission of the competition.

### 6.2 Safety belts

Seat belt system has to stay original. The original seat belts can't be replaced with sports seat belts. Car's using roll-bar, can use 4point safety belts.

### 6.3 Driver equipment

During the run, competitor must use safety helmet and helmet chinstraps must be buckled, or fastened while on course. Helmets must have European label E and/or homologation. The matching or non-matching (damages) of each product is decided by SCRUTINEER of the race.

*Helmets with FIA homologation are strongly recommended - FIA technical list N.25 N.33 N.49*

Clothing has to be full-body covering. Synthetic, nylon or other easy melting material is forbidden. In addition, closed-type shoes, socks and gloves should be used.

ALL DRIVERS MUST USE NECK BRACE

### 6.4 Fire extinguishers / fire extinguishing systems

*At least two (2) kg manual fire extinguishers are recommended. All fire extinguishers must be properly secured. Fire extinguishers must be easily accessible to the driver.*

## P.7 - ENGINE

Engine swaps are allowed, by prior agreement with technical commission. Engine could not have any oil leaks.

### **7.1. Exhaust system**

**Exhaust system-** exhaust system after engine cylinder head is not regulated, it only requires sound level- maximum 85 db(A) at 4500rpm (+5db(A)) permissible error, which is checked due to FIA sound measuring methods and it's not exceeded.

Exhaust pipe has to end within body dimensions; exhaust rear end has to be placed not deeper than 100mm from vehicles side or front dimensions.

### **7.2 Engine crankcase ventilation**

Engine crankcase ventilation should be maintained in its original performance. If the engine air intake system is changed from the original, engine crankcase ventilation must be entered into securely secured container with a breather filter element for discharging pressure into the atmosphere.

### **7.3. Engine mounts**

Flexible elements of the engine mounts must not be replaced by others. Engine mounting points have to stay original.

### **7.4. Cooling system**

**Cooling liquid-** water (h<sub>2</sub>o), glycol-free additives are allowed. Motul MoCool, Redline WaterWetter etc.

**7.5 Starter** – all vehicles must be equipped with an engine starter, which must be in working order at all times

## **P.8 – TRANSMISSION**

### **8.1 Gear box**

The flexible elements of the mountings can be replaced by others. The mounting points of the gearbox must stay original.

Gearbox ventilation must be entered into securely secured container with a breather filter element for discharging pressure into the atmosphere. Recommended to Latvia, in Estonia mandatory.

**8.2 Clutch** – clutch disc and its mechanism is not regulated.

### **8.3 Differentials**

Differentials are not regulated and the flexible elements of mountings may be replaced by others, regardless of the material, without reducing their amount.

Differential ventilation must be entered into securely secured container with a breather filter element for discharging pressure into the atmosphere. Recommended to Latvia, in Estonia mandatory.

### **8.4 Drive shafts and output shafts.**

The AXLES between differential and wheels, and drive shaft between gearbox and differential is not regulated.

## P.9 –SUSPENSION

**9.1 Front and rear suspension.** Material for moving connections may be different from the original (for example – harder flexible bushing materials, powerflex and similar, that's allowed by CSDD technical inspection MK Rules No. 295). Any changes on suspension or suspension strengthening are forbidden.

Steering mechanisms, steering links, steering wheel connectors and their connecting parts has to stay original. Any modifications are forbidden.

Steering mechanism could not have any oil leaks. Hydraulic steering must also have ventilation into secured container with a breather filter element for discharging pressure into the atmosphere.

### 9.2 Front and rear suspension subframe

It is not allowed to modify original suspension subframe or subframe parts

It is allowed to modify control arm mounting points on subframe in order to get better camber/toe adjustment options for BMW E30, BMW E36 Compact.

It's allowed to use on BMW E36/E46 rear lower adjustable link kit.

It's allowed to use on BMW E9x, E8x, to replace arms , OEM NR. 33326777980, 33326782237, 33326782238 with adjustable arms.

### 9.3 Stabilizers

Stabilizers are not regulated.

### 9.4 Shock absorbers

Is not regulated, with condition, that - amount, type (telescopic, Etc), action principle (hydraulic, mixed etc.) is not changed. Mounting points must not be changed.

## P.10 - WHEELS AND TYRES

### 10.1 Complete wheels (wheel + tire)

Wheel bolts can be replaced with wheel studs and nuts with requirements, that mounting points, quantity, and thread diameters stays the same.

Complete wheels (wheel + tire) upper side, when car sits on the ground should be covered with body panel.

**10.2** It's prohibited to take spare tire in vehicle during the race.

**10.3.** Rear wheel max width – 205mm, according to manufacture label.

**10.3** It's allowed to use only industrially manufactured tires, which matches with the requirements of Street Safety Rules – apply able category symbol (M+S, M&S, M.S., and E).

## P.11 - CLEARANCE

When the air is out from all tires on one side, none of the vehicle parts may touch the ground, except tires and discs.

To check it, all tire valves from one side of the vehicle are being removed.

This test must be done on flat surface.

## P.12 – BRAKES

**Brake system** – Original, according to CSDD requirements, except p. 12.1

It is allowed to set hydraulic hand brake only when arriving at the competition area and it must be removed after the race, before leaving the competition area. It's completely forbidden to drive on public roads with set hydraulic brake (hand brake). Driver is informed and understand that driving on public roads with set hydraulic hand brake is forbidden way of reconstruction that does not allowed to participate in road traffic. In case of finding such a violation on public roads, street vehicles state registration number plates and technical inspection sticker will be removed. Brake foot pedal must operate all 4 wheels.

## P.13 – BODY

### 13.1 Exterior

Aerodynamic devices (body's) are allowed, they have to be securely fastened on the vehicle.

Sound isolation plastics in the wheel arch, might be removed.

Front side panels, bonnet and trunk must can be replaced with plastic or other composite or fiber material, even if retaining their function. Front bonnet must have mounting on original hinges. Rear trunk must have original hinges. BMW Compact can not change their trunk to plastic.

Doors and hood must not be replaced with plastic or other composite or fiber materials.

Removing of moldings is allowed.

Buffers must be attached during all race, their mountings is not regulated, with condition, that during run they stay in place.

Placing of body bottom shields is not regulated.

Vehicles must have at least one a functioning windshield wiper on pilot's side

Vehicle has to be equipped with salon rear view mirror. Body outside mirrors are not regulated. Their form is not regulated.

It is forbidden to reconstruct side skirts and floor panels, and also roof pillars.

### **13.2 Windows and window restraints**

Window and window restraints is a must. Side and back window front and rear lights and side view mirrors have to be covered with transparent, non-colored safety film to avoid glass splitting in case of crash. Film thickness must not be over 100 microns. Windshield has to be multilayer (triplex style)

Tinting of front side window and windshield is not allowed, except for industrial tinting, where light transmittance is not less than 75% -5% for the windshield and 70%-5% for rear side windows, with permissible error of 5%.

Only rear window tinting is allowed.

During the run, side windows can be opened only 5cm.

During the run sunroof must be closed completely.

### **13.3 Cabin**

Removing of passenger and back seat(s) is allowed.

Removing of all isolating materials, sound isolation, interior panels and carpet is allowed.

Can be 0.8mm steel, 1mm fiberglass, or 2mm other fireproof material.

Electrical window mechanism is not regulated.

Versions with left-hand drive and right-hand drive are allowed, with condition, that the original car and the modified car are mechanically equivalent, the parts and functions remain as intended by the manufacturer.

All controllers must be supplied by the manufacturer.

Steering wheel is not regulated, but it has to be round, closed-type.

### **13.4 Control panel**

Control panel (middle console) is a must.

**Gauges** are not regulated. However, their installation must be secure, without any risks.

## **P.14 – ELECTRICAL EQUIPMENT**

**14.1 Wires** - All wire harness, that are located close to exhaust or turbocharger has to be secured with heat resistant, fireproof material or firewall should be used. Other wire harness is not regulated, unless they match original

### **14.2 Battery**

Battery type, manufacturer and capacity is not regulated. It must be possible to start the engine at any time using battery inside the car. Each battery should be securely mounted and covered, to avoid short circuit or leakage. It is not allowed to fasten battery in other place, that is different from the original.

**14.3. Alternator** - Is not regulated.

**14.4 Lighting** - Lightning devices must stay, they have to function during whole race, except fog lights, number plate lights and turn signals.

**14.5 Fuse** - Electrical circuits might be modified with extra fuses. Fuse box might be removed or moved to different location.

#### **P.15 - FUEL SYSTEM**

**15.1 FUEL CELL** Electrical fuel pumps must stop if engine shut off.

Original fuel cell cannot be replaced by sports type fuel cell.

#### **P.16 - TOW STRAP**

The front and rear side of the car must be equipped with towing straps. They have to be clearly visible or indicated with symbol (arrow) in yellow, red or orange colors. Towing straps must be attached into vehicle dimensions.

Tow design is free, the inner minimum diameter is 50mm and it can stand at least 5000N tensile load.

#### **P.17 - REAR AXEL**

Cars that are industrially manufactured with AWD are allowed to rebuild to RWD, taking into account conditions in p.9.1 -9.2 and 13.1. Each case is decided by scrutineer of the race.

#### **P.18 - EXTERIOR**

Car must be free of any visible visual, and constructional damages (rust, hardly deformed body parts, hardly cracked glass in direct field of vision etc.) that may in any way affect the safety of the race or cause negative impression about the race.

Each car must be equipped with starting number and signs (advertisements) regulated with race Regulation, provided by organizer of the competition.

It is not allowed to stick up door, hood, and side panel etc. contact points.

#### **P.19 – CONCLUSION**

Improvements or corrections for uncertain situation in technical regulations may be added. They are confirmed in writing by LAF Drift Commission consulting with drift working group, two weeks before they entry into force.

Driver is responsible for his vehicle to match with these requirements

In case of uncertain questions, it is recommended to consult with LAF Drift Commission technical Scrutineer.

#### **P.20 - LANGUAGE**

In case of disagreements version of these rules in Latvian language is determinant.

**About issues that are not mentioned in technical regulations on the race day, decides technical judge and commissioner of the competition, taking safety as primary. Decisions about changes for security reasons during the season are taken by Drift Commission.**