



**TECHNICAL REGULATIONS**

**OPEN CATEGORY SWR21**



## **S1 OPEN SSV**

### **S1.1 DEFINITION**

Side by Side Vehicle: A single motorised ground vehicle with mechanical propulsion on the ground, with 4 wheels, driven by their own means and whose propulsion and steering are controlled by a driver on board the car and approved for use on the road.

- These vehicles must have 2 seats and must comply with the International Convention on Road Traffic regarding lighting. The vehicles are 4- or 2-wheel drive only.
- SSVs must comply with Appendix J 2018/2019 - Articles 286 or 286a.
- The speed limit in the Selective Sector is 130 km/h.
- Vehicles in the SSV-O category must have a range of 250 km. For safety reasons, an additional 10% range is required.
- All safety equipment must be, as a minimum, in conformity with Article 283 - Appendix J 2018/2019.
- All SSVs with a national homologation form (FFSA type) will be accepted to participate in the Silk Way Rally 2021, subject to the following points S1.2, S1.3, S1.4

### **S1.2 DRIVER AND CO-DRIVER EQUIPMENT (FIA CONFORMITY)**

Each competitor must be equipped with:

- FIA approved open or closed helmet (with full front protection strongly recommended for open helmets): FIA technical lists N° 25, 33, 41, 49 and 69
- Compulsory Hans; FIA approved - FIA Technical Lists N° 29 and 36
- Sticker with name/first name and blood type.
- FIA approved fireproof suit 8856-2000 minimum
- Fireproof underwear, socks, shoes, and balaclava approved to FIA 8856-2000 minimum and for the driver a pair of gloves approved to FIA 8856-2000
- Flexible water bag, minimum capacity of 3 litres.

This equipment will be checked at the time of the verifications and every morning before the start.

### **S1.3 VEHICLE**

All mechanical parts of the vehicle must be in perfect condition and will be checked by a technical commissaire. All vehicles that do not comply will be refused the start.

Each vehicle must be equipped with:

- Roll cage with a car or motorbike federation homologation form duly completed and validated by the latter.
- A liquid and flame proof partition made of steel or aluminium (minimum thickness 2 mm) or composite material (minimum thickness 5 mm) is compulsory behind the seats and must be in contact with the main roll bar of the safety frame.
- The air flange, as defined in Article 286a-7.13.2, is not mandatory.
- Protective netting for side windows (upper part fixed to the chassis) or opening with netting



- A rigid roof over the occupants of the vehicle, at the top of the arch of the protective structure; the material used may be fibreglass, aluminium or steel sheet (minimum thickness 1.5 mm), welded-bolted to the safety structure with metal clips. It is forbidden to pierce the tubes of the vehicle frame.
- Circuit breaker, accessible by the driver and co-driver and an external pull cord
- 2 manual fire extinguishers (minimum 2 kg) to FIA standards, firmly fixed or 1 manual and 1 automatic fire extinguisher. The new FIA 8865-2015 fire extinguishers are recommended but not mandatory.
- 2 towing rings (1 front, 1 rear) or straps
- Fuel tank(s) capable of running 250 km + 10%. Any change or modification of the standard tank of the vehicle, will imply the installation of an FIA approved tank - Appendix J 2021, Article 283 -14; maximum capacity 130 litres.
- Road Book holder (if roll is preferred to booklet)
- UNIK 2 GPS installation
- Installation of the tracking system provided by the organisation
- 5 litre water tank, rigidly attached to the vehicle
- 2 stickers with name/first name, blood group and flag of the nationality of the driver and co-driver on each side of the vehicle
- Belt cutters (1 per occupant)
- 1 shovel
- Towing strap
- Spare wheel: 1 minimum and 2 maximums
- It is absolutely forbidden to place the spare wheel(s) on the roof of the vehicle (only allowed on one side or at the rear, fixed by safety straps)
- Mud flaps. They must comply with article 283-19 of annex J 2018/2019
- Exhaust must not be downwards facing, it must be inside the perimeter of the chassis or bodywork, maximum height 1m

#### **S1.4 AUTONOMY**

- a) The SSV-O vehicles entered must have a minimum range of 250 km of selective sector. For safety reasons, an additional autonomy of 10% is required.
- b) Each competitor is responsible for calculating his or her autonomy and may not under any circumstances turn against the organization if his or her vehicle does not manage to cover the minimum distances, whatever the nature of the terrain.
- c) For the SSV-O, a refueling station will be set up by the organization approximately every 250 km of each selective sector.

See cross country rally 2021 sport regulation Art.55: refueling procedures



## **A.1 OPEN AUTO**

### **A1.1 DEFINITION**

THE SILK WAY RALLY 2021 is open to all cars complying with the following regulations:

- Appendix J FIA 2020 - Article 283 for OPEN vehicles and not complying with Articles 284 and 285 in force.
- T1-O, Score -O and T2-O

The speed in the Selective Sector is limited to 180 km/h.

The FIA fuel sampling system is not compulsory for the whole OPEN Group.

### **A1.2 DRIVER AND CO-DRIVER EQUIPMENT (FIA COMPLIANT)**

Each competitor must be equipped with:

- 1 FIA approved open or closed helmet: FIA technical lists N° 25, 33, 41, 49 and 69
- Compulsory FIA approved Hans, FIA technical lists N° 29 and 36
- Sticker with name/first name and blood type
- FIA approved flame retardant suit, minimum standard 8856-2000
- Fireproof underwear, socks, shoes, and balaclava approved to FIA 8856-2000 minimum and for the driver a pair of gloves approved to FIA 8856-2000
- Flexible water bag, minimum capacity of 3 litres.

This equipment will be checked at the time of the verifications and every morning before the start.

### **A1.3 VEHICLES**

Vehicles must comply with the following conditions:

- Harnesses in accordance with FIA standard 8853/2016 and 8853-98 (list N°24)
- Bucket seats approved according to FIA standard
- 2 homologated 2 kg powder manual extinguishers or 1 2 kg powder manual extinguisher and 1 automatic extinguisher according to the FFSA technical regulations. The new FIA 8865-2015 fire extinguishers (List N°52) are recommended but not compulsory.
- 2 exterior mirrors
- 2 towing rings (1 front, 1 rear)
- The windscreen must be made of laminated glass.
- Tanks must be of the FT3 type for petrol vehicles. For diesel vehicles, they must be manufactured by an approved manufacturer and stamped by him. NB: the filling must be outside the passenger compartment. The ducts, pipes, fixings, and venting must comply with the FIA technical regulations for off-road vehicles.
- Rear lighting equipment in accordance with the FIA Motor Vehicle Special Regulations
- 2 spare wheels
- 2 sand removal plates

Safety hoops: the hoops must comply with FIA regulations (appendix J 2020, articles 283.8 for cars) i.e.: diameter 50 mm, - thickness min. 2 mm, or diameter 45 mm, thickness 2.5 mm; materials steel or cold drawn carbon without welding; bolts size min. 8 and ISO standard 8.8



self-locking and lock washers. Anchor points and structures. (Only the crossbar at the foot of the windscreen is not compulsory)

#### A1.4 RANGE

Vehicles in the OPEN AUTO category must have a range of 600 km. For safety reasons, an additional 10% range is required.

#### A1.5 T1-OPEN

##### Flange

Vehicles in the T1-O category must be equipped with an air flange of the diameter defined below:

<b>PETROL ENGINE</b>	<b>Ø</b>
Prototype	32
Standard	37
Cylinder over 5400 cm <sup>3</sup> (4x4)	37
Cylinder over 5400 cm <sup>3</sup> (4x2)	38
<b>SUPERCHARGED DIESEL ENGINE</b>	<b>Ø</b>
Prototype	35
Standard single stage turbo	39
Standard double stage turbo	38

#### MINIMUM WEIGHT

<b>NORMALLY ASPIRATED ENGINES AND SUPERCHARGED DIESEL ENGINES</b>			
<b>Over cm<sup>3</sup></b>	<b>Up to and including cm<sup>3</sup></b>	<b>4 x 4</b>	<b>4 x 2</b>
2000	2250	1400	1280
2250	2500	1475	1310
2500	2750	1475	1340
2750	3000	1550	1370
3000	3250	1550	1400
3250	3500	1625	1430
3500	3750	1625	1460
3750	4000	1700	1490
4000	4250	1700	1580
4250	4500	1775	1580
4500	4750	1775	1580
4750	5000	1850	1580
5000	5250	1850	1580
5250	5500	1925	1580
5500	5750	1925	1580
5750	7000	2000	1580



## **A1.6 SCORE-OPEN**

A vehicle complying with the "Score" regulations may be accepted in Group T1-O, provided that the competitor provides proof that his vehicle is recognised by the "SCORE International" organisation. The vehicle must be fitted with a safety inspection seal in accordance with Article GT2 of the rules governed by this organisation and comply with Articles A1.5 and A1.6 of these rules.

## **A1.7 T2-OPEN**

A T2 vehicle whose homologation has expired, and which conforms to the FIA regulations Article 284 - 2020 and Annex IV of the RALLY ALL-TERRAIN SPORTS REGULATIONS 2021. The vehicle must be fitted with a flange as defined below.

### **Flange T2-O**

#### **Atmospheric petrol engine**

All naturally aspirated petrol engines must be fitted with an air flange.

For the sole purpose of attaching this regulation flange, it is permitted to modify the pipe between the filter housing and the throttle valve.

The flange may only be removed with tools.

The air intake system must be fitted with an air flange with a minimum length of 3 mm and a maximum internal diameter (d) of:

- 32 mm for cars up to 4000 cm<sup>3</sup>
- 35 mm for cars up to 6000 cm<sup>3</sup>
- 38 mm for cars above 6000 cm<sup>3</sup>

#### **Supercharger diesel engine**

All supercharged diesel engines must have a flange attached to the compressor housing.

All air required to feed the engine must pass through this flange.

The maximum internal diameter (d) of the flange is:

- 39 mm for engines up to 5000 cm<sup>3</sup>
- 43 mm for engines above 5000 cm<sup>3</sup> and up to 6000 cm<sup>3</sup>
- 46 mm for engines above 6000 cm<sup>3</sup>



## **C1 OPEN TRUCK**

### **C.1 DEFINITION**

Any T5 truck meeting the criteria set out in the DAKAR 2021 Regulations and its appendices, which has

Any T5 truck that meets the criteria set out in the DAKAR 2021 Regulations and its appendices, that has received a validated A.S.O. homologation and whose components are freely available in the trade, is eligible.

A registration certificate for road use is compulsory; the annual inspection must be in order or the start will be refused.

The presentation of the original current ASO homologation booklet or the FIA technical passport is compulsory.

No copy will be accepted on pain of refusal to start.

In the selective sector, the maximum speed allowed for the TRUCK-OPEN category is 140km/h.

### **C.2 DRIVER AND CO-DRIVER EQUIPMENT (FIA COMPLIANT)**

Each competitor must be equipped with:

- 1 FIA approved open or closed helmet: FIA technical lists N° 25, 33, 41, 49 and 69
- Compulsory FIA approved Hans: FIA technical lists N° 29 and 36
- Sticker with name/first name and blood group
- Fireproof suit approved by FIA standard 8856-2000 at least
- Fireproof underwear, socks, shoes, and balaclava approved to FIA standard 8856-2000 as a minimum and for the driver a pair of gloves approved to FIA standard 8856-2000
- Flexible water bag, minimum capacity of 3 litres.

This equipment will be checked at the time of the verifications and every morning before the start.

## **E1. ALTERNATIVE ENERGIES**

Electric, Hybrid, Hydrogen, Natural Gas

All requests for alternative energy vehicles will be examined by the organisation in order to allow their participation in the Silk Way Rally 2021



## **SAFETY REQUIREMENTS FOR ALL OPEN CATEGORY VEHICLES**

### **Survival equipment**

For safety reasons, the crew must have the following equipment in their vehicle

- A water reserve of 5 litres per person
- A survival ration (provided by the organiser)
- A towing strap of at least 10 metres
- A torch, a distress mirror, a lighter
- An aluminium sheet (2m x 1m approx.), used as a thermal blanket
- 1 flashlight or hand-held red light of the smoke type
- Tracking system
- A 1.5 L Camel bike or equivalent per person.
- 1 belt cutter per person, accessible from a seated position with harness attached.
- A GSM phone

### **Medical Equipment**

Each crew must have a small first aid kit including

- Eye drops
- An analgesic
- An anti-diarrhoeal
- Oily dressings,
- Sterile compresses,
- Two bandages,
- Plasters
- Skin disinfectant