



# Autocross Rallycross Off Road Racing

## **Chapter 16 Autocross, Rallycross and Off-Road Racing**

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## CHAPTER 16 AUTOCROSS AND RALLYCROSS

1. This Chapter must be read in conjunction with **Chapters 1 – 11**.
2. This Chapter is split into **PART A (Autocross)** and **PART B (Rallycross)** and **PART C (Off Road Racing)**.
3. The following Appendices comprise **PART A Autocross**:
  - App.1 Organisers Regulations
  - App.2 Medical and Rescue
  - App.3 Results
  - App.4 Competitors Regulations
  - App.5 Technical Regulation for Autocross and Clubcross
4. The following Appendices comprise **PART B Rallycross**:
  - App.6 Organisers Regulations
  - App.7 Medical and Rescue
  - App.8 Competitors Regulations
  - App.9 Technical Regulations
  - App.10 Rallycross Spaceframe Technical Regulations
  - App.11 Spaceframe Drawings
5. The following Appendix comprise **PART C Off Road Racing**
  - App.12 Off Road Racing Specific Regulations

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART A AUTOCROSS

#### APPENDIX 1

##### Organisers Regulations

1. **Permits** for **Autocross** and **Clubcross Events** are issued at the sole discretion of the **ASN** and are subject to prior approval of the **Track** details.
2. A **Club** will only be allowed to organise an **Autocross Event** of up to **Interclub** status unless the **ASN** has specifically approved an application for higher status.
3. A **Club** will only be allowed to organise a **Clubcross Event** if in possession of a **Clubman** grade Permit.

##### Track Criteria

4. The requirement for a **Track Licence** will be waived, subject to approval of the **Track Plan** for the proposed **Course**.
5. The **Track Plan** must be submitted to the **ASN** for approval with the **Permit** application and must be on a sheet A4 scale or larger. It must include:
  - a. Name of the **Organising Club**, date of **Event** and name of **Venue**.
  - b. Length of **Course** (per lap).
  - c. Length of longest straight.
  - d. Position of the **Start / Finish Line** and direction of travel.
  - e. Minimum width of **Course**.
  - f. Position of paddock and spectator **Enclosures** and their distances from the **Course**.
  - g. Type of fencing surrounding **Enclosures** (a post and rope fence is the minimum Permitted).
  - h. Position and type of protective barriers.
  - i. Distance from the **Course** to all boundary lines.
  - j. Types of boundaries (ie hedge, fence, wire; if wire: mesh, plain or barbed).
  - k. Type of **Course** markers.
  - l. Number of Judges required to ensure that all **Course** markers can be overseen by a **Judge**.
  - m. Siting of **Timekeeper, Flag Marshals**, fire, emergency and first aid equipment and ambulance.
  - n. Number of **Vehicles** proposed to start consecutively (see [Arts.39 – 46 below](#)).

##### Course Layout

6. The **Course** should not include any straight exceeding 200m long, and all straights must be followed by a corner of at least 90°, off-setting the **Course** from its original line by at least twice the width of the **Track**.
7. The **Start Line** should be not less than 100m from the first corner.
8. The **Finish Line** should be situated so as not to allow competing **Vehicles** to be driven in a straight line from the **Course** to the paddock. Bales must protect the spectator and paddock areas where the entrance to the paddock is less than 30m from spectator **Enclosures**.
9. The paddock and any spectator **Enclosures** should not be less than 30m from the **Course** where there is no

barrier designed to halt a competing **Vehicle** travelling between these **Enclosures** and the **Course**.

- a. Where there is a barrier, the distance should not be less than 25m all the way round corners, and 20m alongside straights.
  - b. The minimum acceptable barrier will be two rows of straw bales or equivalent, placed approximately half way between the **Course** and the **Enclosures**.
  - c. The rows of bales must be approximately 3m apart and if each row is not continuous, any gaps must not exceed the length of a bale.
10. Any **Vehicles** parked in an **Enclosure** must be at least 10m from the front of the **Enclosure**.
11. Any natural hazards, such as trees, ditches and fences must not be less than 20m from the **Course** or in the case of any strand or barbed wire fence not less than 30m from the **Course** (though where hazards on the inside of the **Course** are protected by straw bales or the equivalent a 10m clearance from the **Track** is sufficient).
12. Straw bales must not be used as **Course** markers.
13. **Clubcross Courses** must comply with [Arts.7 - 12 of this Chapter](#) and the following:
- a. The maximum length must not exceed 800 metres.
  - b. The maximum length of any straight must not exceed 100m and all straights must be followed by a corner of at least 90° off setting the **Course** from its original line by at least twice the width of the **Course**.

#### Organisation

14. The **Course** must be defined by penalty markers placed on both sides of the **Track**.
15. The number of penalty markers must be kept to the minimum necessary to ensure that **Vehicles** keep to the **Course**.
16. All penalty markers must be supervised by a **Judge of Fact** who must be in a safe location.
17. Other markers can also be used to show the outline of the **Course** but the penalty markers must be at least twice the height and of a different colour to any other markers.
18. There must be an adequate supply of spare markers and sufficient **Officials** to ensure that any marker that is displaced is immediately reinstated.
19. The **Course** must not be changed once practice has commenced except as instructed by **Stewards** to improve safety.
20. Any such change should be made at an appropriate time when all **Competitors** will have an equal number of runs on the modified **Course**.
21. **Competitors** must be informed of any such change and given the opportunity to inspect and comment upon the modifications.
22. Only a visual communication system is mandatory.
23. At each corner of the **Course**, there should be at least one **Flag Marshal** as well as one **Fire Marshal** with an extinguisher to cope with a petrol or electrical fire.
24. In the paddock at least one 9kg dry powder or equivalent extinguisher, one fire resistant blanket and a pair of fire-resistant gloves should be available.
25. A **Small Spill Kit** must be available in the paddock area.

26. Only red **flags** will be issued to **Marshals** for signalling purposes.
27. If a heat is stopped by a red **Signal** it must be re-run.
28. Any **Vehicle** which had not started or which had retired from that heat may not take part in the rerun.
29. The appropriate local hospital authorities must be notified of the date and time of an **Event**, including **Practice**.
30. **ASN Timekeepers** and **Scrutineers** appropriate to the grade of the **Event** must be appointed.
31. It is strongly recommended that a breakdown vehicle capable of lifting at least two wheels of a competing **Vehicle** off the ground is in attendance.
32. **Clubcross Events** must not be timed to less than one second.
33. Timing should be by handheld watches and the appointment of an **ASN-licensed Timekeeper** is recommended.

#### **Practice and Starts**

34. All **Competitors** must be allowed three practice laps except where they are required to walk the **Course** before competitive runs begin (or are allowed to drive over it at noncompetitive speeds) when only two practice laps will be allowed.
35. The **Official Documents** must specify the starting **Signal**, the method of timing and when timing commences.
36. **Vehicles** will be started in groups from a standing start with engines running.
37. The **Finish Line** must be clearly indicated.
38. All **Clubcross Competitors** will be given the opportunity to walk the **Course** prior to competing but no practice runs will be allowed, with all runs counting towards the **Competition**.

#### **Number of Starters**

39. If the **Course** is less than 10m wide a maximum of two **Vehicles** can be started consecutively. The second **Vehicle** is started when the first has a lead of not less than 200m (or one-third of a lap, whichever is the lesser).
40. If the **Course** is less than 10m wide but over 600m long three **Vehicles** can run consecutively so long as they are started not less than 200m apart.
41. If the **Course** is less than 10m wide at any point but over 600m long two **Vehicles** can be started simultaneously and a second pair started when the slower **Vehicle** of the first pair is at least 300m from the **Start Line**.
42. If the **Course** is not less than 14m wide at any point and over 1200m long two **Vehicles** can be started simultaneously and a second pair started when the slower **Vehicle** of the first pair is at least 300m from the **Start Line**. A third pair can be started when the slower **Vehicle** of the second pair is at least 200m from the **Start Line**.
43. If the **Course** is not less than 15m wide at any point and over 600m long then a maximum of four **Vehicles** may be started simultaneously unless specific approval has first been given by the ASN.
44. The starting of **Vehicles** consecutively at 200m intervals is subject to there being reasonable visibility. Where visibility may be impaired **Vehicles** should be started at greater intervals or singly so that there is no possibility of overtaking.

45. In the interests of accurate timekeeping, and because of the difficulty of correctly lining up vehicles on a soft surface vehicle-actuated starts are not permitted on non-metalled surfaces.
46. Only one **Vehicle** may run at a time in **Clubcross Events**.

#### **Team Relays**

47. In **Autocross** relay **Events** where **Vehicles** of more than one team are on the **Course** all **Vehicles** other than the first to start must be located in a safe position on the inside of the **Course** with their **Drivers** aboard.
48. Any **Vehicle** finishing except the last **Vehicle** of a team must do so by crossing a special line adjacent to but outside the **Course** proper. The **Vehicle** must then stop at a specified location and the **Driver** remain aboard until instructed by an **Official** to remove the **Vehicle** to the **Paddock**.
49. As soon as the front wheels of a finishing **Vehicle** cross this special line an **Official** will indicate with a green **flag** that the next team **Vehicle** can proceed. All **Drivers** joining the **Course** must do so with due regard to other **Competitors** already on the **Course**.

#### **Awards**

50. The maximum value of awards or benefits accrued to any **Competitor** in an **Event** must not exceed the following:
  - a. **Clubman** and **Interclub**: £250
  - b. **National** and **International**: No limit.

#### **Scrutineering**

51. No **Vehicle** may be driven in the **Event** until it has been approved by an **ASN-Licensed Scrutineer** at the **Event**.
52. If after approval any **Vehicle** is dismantled or modified or is involved in an accident in a way which may affect its safety or eligibility or any aerodynamic device is added or removed it must be represented for approval. The **Entrant** is responsible for seeking fresh approval.
53. Any **Vehicle** involved in an incident from which it is unable to proceed must not be touched by anybody other than Officials without the specific approval of the **Clerk of the Course**. The **Driver** concerned may not drive again without the approval of the Medical Officer in Charge.
54. **Clubcross Vehicles** must be scrutineered for basic safety preferably by an **ASN-licensed Scrutineer**.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART A AUTOCROSS

#### APPENDIX 2

##### Medical and Rescue Requirements

This Appendix should be read in conjunction with [Chapter 11 Emergency and Medical Services](#).

1. The minimum course requirements are for one Doctor or **ASN**-registered Paramedic and one ambulance to be in attendance.
2. Ambulances should be equipped with basic resuscitation equipment and if possible a **Casualty Immobiliser** for handling patients over difficult terrain. This essential equipment should not have to be taken from any rescue vehicles which must remain at all times fully operational on the **Course**.
3. The ambulances must only be used in connection with casualties arising from the **Competition**.
4. The Organisers in conjunction with the **Chief Medical Officer** of the **Event** must ensure that during both **Practice** sessions and **Competition** adequate first-aid staff are in attendance (eg St John's or St Andrew Ambulance, Red Cross etc).
5. **Clerks of the Course** must have under their control either a licensed **Rescue Vehicle** or at least one emergency vehicle equipped with the following:
  - Bolt cutters
  - Pipe cutters capable of severing chassis tubes
  - Tin snips
  - Hacksaws complete with a quantity of blades
  - Pad saw complete with a quantity of blades
  - Spanners
  - Fire resistant blanket
  - Industrial gloves.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART A AUTOCROSS

#### APPENDIX 3

##### Results

##### Results – Autocross

1. To be classified as a finisher in a **Competition** a **Competitor** must complete at least one timed run.
2. Each **Driver** will be given two runs in the same **Vehicle** in each **Class** entered the faster run to count unless the **Official Documents** specify otherwise.
3. The **Competitor** who completes the **Course** fastest will be judged the winner.
4. Only an equal number of runs for all **Competitors** in the same **Class** will be counted. In the event of a tie between two or more **Competitors** the results of the next fastest run recorded by the **Competitors** concerned will be compared and so on.
5. If through their own error **Drivers** fail to record a time they are not entitled to a re-run.
6. In other circumstances (eg baulking) a re-run may be granted by the **Clerk of the Course** who may order that any penalties incurred in the initial run are applied to the re-run.
7. A **Competitor's** time will be valid only if:
  - a. All four wheels of the **Vehicle** are on the **Course** when it crosses the **Finish Line**
  - b. The run is made in the correct period for the appropriate **Class** and no more than the appropriate number of timed runs has been made
  - c. The **Competitor** has correctly complied with any starting **Signal**
  - d. The **Vehicle** completes the correct **Course** without outside assistance.
8. Where the boundaries of a **Course** are defined by penalty markers (see [App.1 Arts.14 – 18 to this Chapter](#)), the following penalties will apply:
  - a. If a **Vehicle** strikes a penalty marker five seconds is added to the **Vehicle's** time for each marker touched
  - b. If all four wheels of a **Vehicle** cross a straight line between any two markers no time is recorded and in addition the **Vehicle** must stop and not proceed until instructed to do so by an **Official**. Failure to stop may be deemed as driving in a manner incompatible with general safety (a breach of [Chapter 2 App.1 Art.18](#)).

##### Results – Clubcross

9. **Competitors** will be given the opportunity of a minimum of two runs the aggregate time of which will count for the results.
10. If more than two runs are permitted the worst time will be ignored and the aggregate of the remaining runs will count for the results.
11. The maximum number of runs must not exceed six.
12. All **Competitors** must have the opportunity to complete the same number of runs to count towards the results.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART A AUTOCROSS

#### APPENDIX 4

##### Competitors Regulations

1. **Vehicles** must be presented for scrutineering and **Practice** at the times specified in the **Official Documents** with any previous **Scrutineering Labels** removed.
2. **Classes** must be specified in the **Official Documents**.
3. Any **Competitor** not reporting as instructed may be fined, **Disqualified** or may forfeit any claim to a favourable starting position.
4. **Vehicles** being used must comply as follows:
  - a. In **Autocross** with **Technical Regulations Arts.1 – 45 of App.5 to this Chapter**.
  - b. In **Clubcross** with **Art.86 of App.5 to this Chapter**.
  - c. In **Junior Autocross** with **Arts.1 – 18 and 87 of App.5 to this Chapter**.

##### Signing On

5. When signing on a **Competition Licence** valid for the **Event** must be produced (see **Annex A Chart 2 Chapter 6**).
6. For **Competitors** under the age of 18 years a **PG Entrant Licence** is required **Chapter 6 App.3 Art.21** applies
7. **Competitors** must declare on their entry forms whether or not they have ever held a valid RTA licence.
8. **Competitors** aged 16 and above who have never held a valid RTA Licence must produce proof of having competed as a **Driver** in three **Minicross** or **Clubcross Events** or three other **ASN-Permitted Events** (such as **Kart Racing, Autotests, Production Car Trials**, etc), or show proof of having completed an approved driving course at a **Race** or **Rally School** recognised by the **ASN**.
9. **Competitors** having reached the year of their 14th birthday and above can compete in **Minicross** (grid size to be a maximum of four **Vehicles**) and **Clubcross**. In the case of **Minicross** new **Competitors** will have to drive observed laps prior to **Practice**. In the case of **Clubcross** they must drive observed laps prior to the **Competition** in order to satisfy the **Clerk of the Course** that they are competent to take part. Observed laps are not required if the **Competitor** can provide the **Clerk of the Course** with proof of having competed as a **Driver** in three other **ASN-Permitted Events**.
10. **Competitors** having reached the year of their 14th birthday and above may compete in **Junior Autocross** and may continue until the end of the year of their 17th birthday.
11. Grid size to be a maximum of four **Vehicles**. and may not include any **Class** other than **Juniors**.
12. New **Competitors** will have to drive observed laps prior to the **Competition** in order to satisfy the **Clerk of the Course** that they are competent to take part, subject to the following:
  - a. **Vehicles** will start singly and run over three laps.
  - b. No **Passengers** are permitted in the **Vehicle**.
  - c. Observed laps are not required if the **Competitor** can provide the **Clerk of the Course** with proof of having competed as a **Driver** in three other **ASN Permitted Events**.

### Drivers

13. The following items must be produced by **Drivers** for inspection and approval at Scrutineering and be worn throughout the Competition, properly fastened and positioned:
14. A crash helmet meeting all current regulations, which fits properly, is in a serviceable condition and bears an ASN approval sticker ([Chapter 9 Arts.22 - 40](#)).
15. Goggles or visor of splinter proof material (unless in a closed car with a full-size windscreen).
16. Flame-resistant overalls covering arms, legs and torso up to the neck. The use of a flame-resistant balaclava, socks, shoes and underwear is strongly recommended ([Chapter 9 Arts.11 – 21](#)).
17. Complete gloves (not mitts or gloves with open backs). The use of flame-resistant gloves is strongly recommended.
18. An FIA approved FHR device, fitted in accordance with FIA regulations, is recommended.
19. Only the **Driver** may be in a vehicle during the Competition or practice.
20. In Autocross and Clubcross events, the same **Vehicle** may compete for the same award, however it must be driven by different Drivers.
21. **Vehicles** will be identified by Competition Numbers allocated by the Organisers and displayed as specified in the Technical Regulations (J.4). The colour may be varied for different categories.

### Licence Upgrading Criteria

22. **Autocross:** See [Annex A Chart 2 Chapter 6](#).

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART A AUTOCROSS

#### APPENDIX 5

##### Technical Regulations

###### Autocross and Clubcross Vehicles

1. **Racing Cars** are prohibited.

###### Body

2. If one bumper is removed then both must be along with all supports.
3. Reinforcing the front apron is not permitted.
4. Any undertray must be provided with drainage holes to prevent accumulation of liquids.

###### Wheels

5. At the start of each heat or **Race, Vehicles** must be fitted with mudflaps behind all four wheels extending to a minimum of 38mm either side of the tyre tread and to a maximum of 76mm above the ground.
6. All nuts securing roadwheels (except centre-lock types) must be made of steel and in thread contact over a minimum length of  $1\frac{1}{2}$  bolt / stud diameters.
7. Extended or composite wheel bolts/studs are prohibited.
8. The use of safety wheel nuts, to prevent wheels pulling over standard nuts, is strongly recommended.

###### Oil Systems

9. Any oil tank located outside the chassis or main structure of a **Vehicle** must be covered with a protective coating (eg GRP)

###### Fuel Systems

10. These should be equipped with an effective method of stopping fuel supply which can be operated by the **Driver** when seated normally with seat belt secured.

###### Electrical Systems

11. **Vehicles** should be equipped with an ignition cut-off switch having a clearly marked and positive ON-OFF position which can be operated by the **Driver** when normally seated with seat belt secured. It must also isolate electric fuel pumps.
12. Any forward-facing lamps of more than 32 sq cm surface area must be adequately protected against glass breakage.

###### Safety

13. Closed **Vehicles** must have a means of access on either side of the **Passenger** compartment which can be operated from inside or outside. Access must be sufficient to remove an occupant without interference from any door locking devices.

14. They must have an operating windscreen wiper and washer system.
15. The following parts of **Chapter 7** remain unmodified: **Chassis**, Seating, Suspension, Steering, Cooling, Weight / Ballast, Exhausts, Protecting Bulkheads.
16. Any single seat Special and non-centre seated Production based Vehicle without windows must be fitted with either arm restraints to SFI standard 3.3 or on the driver's side (both sides for a single seat Special) one-piece protection net(s) affixed securely on the inside of the safety cage using a quick release system situated on the upper part.
17. The use of "clip" fixings is recommended.
18. The fixings of the net on the lower part must not be removable without the use of tools. These nets must be to SFI standard 27.1 or have the following characteristics:
  - Minimum width of the strips: 19 mm
  - Minimum size of the meshes: 25 x 25 mm
  - Maximum size of the meshes: 60 x 60 mm
 and when viewed from the side must reach from the centre of the steering wheel to the rearmost point of the seat on the side concerned and must protect the window opening to the centre of the steering wheel.

#### Miscellaneous

19. **Vehicles** must be fitted with at least one mirror of minimum surface area 50 sq cm securely mounted to give a clear view to the rear. The edges of the mirror must be protected by a suitable cover to help prevent injury in event of an accident.
20. Where advertising is allowed on windcreens this must not obscure the **Driver's** vision nor reduce the minimum unobstructed vertical height to less than 250mm.
21. **Vehicles** must be presented at **Scrutineering** with all steering mechanisms, suspension linkages and flexible brake lines in a clean condition.
22. Four-wheel steering is permitted unless the **Official Documents** state to the contrary.

#### Autocross Vehicles

23. **Categories** and **Classes** are free but must be stated in the **Official Documents**. The following **Classes** are recommended and where used must comply with **Arts. 24 to 79 below**. Capacity splits must be specified in the **Official Documents**
  - A Economy – "standard" production saloon cars
  - B **Rally Vehicles**
  - C All other **Vehicles** based on production **Vehicles**
  - D Specials and all four-wheel drive **Vehicles**
24. **Vehicles** which have never been homologated but which comply with the **Arts.25 and 26 below** are eligible for **Class B**.
25. **Category 1**. Those that have been homologated in Groups 'A' or 'N' of the FIA Appendix 'J', or Groups 1, 2, 3 or 4 of the 1981 FIA Appendix 'J', Non homologated **Series Production Cars** or **Specialist Rally Cars**
  - a. A **Specialist Rally Car** is a **Vehicle** of which at least 20 examples are manufactured within a consecutive twelve month period and is fitted with a **Series Production Car Engine** or **Specialist Competition Engine**.

- b. Modifications are free within the **ASN Vehicle Regulations**.
  - c. The **Vehicle** must be in the configuration as supplied by the manufacturer, with the engine (any **Series Production Car Engine** or **Specialist Competition Engine**) in the original location.
  - d. **Vehicles** must retain the original number of and location of driven wheels, Front Wheel Drive (FWD), Rear Wheel Drive (RWD) or Four Wheel Drive (4WD), except where a 4WD **Vehicle** other than a **Specialist Rally Car** is converted to Two Wheel Drive (2WD) without structural alteration.
26. **Category 2.** Any **Vehicle** not complying with [Arts.25.a – d above](#) that may be authorised for use at the discretion of the **ASN** including **Vehicles** homologated and remaining fully compliant with **FIA R/GT** regulations.
- a. Such authorisation will only be granted for **Vehicles** which retain the original manufacturer's **Chassis** / bodywork / unitary construction.
  - b. Substitution by a space frame **Chassis** will not be accepted.
  - c. Original manufacturer's bodywork must be utilised.
  - d. Any modifications homologated by the **FIA** may be incorporated.
  - e. Replica copies of manufacturers homologated body parts / aerodynamic devices will not be accepted.
  - f. Manufacturers of very low volume numbers of **Vehicles** will be able to apply for baseline specification registration prior to sale to individual customers.
  - g. The conversion of front wheel drive **Vehicles** to rear wheel drive (or four wheel drive) or of rear wheel drive **Vehicles** to four wheel drive is permitted subject to the bodyshell construction alterations from the bulkhead rearwards being limited to those detailed in FIA Art.279.10.3.10 and shown in FIA Appendix J Drawings 279-1 and 279-2. Additionally where rear wheel drive **Vehicles** are converted to four wheel drive the bodyshell forward of the front bulkhead may be modified solely to allow fitment of front driveshafts.
  - h. All materials added must be ferrous and must also be welded to the **Chassis** / bodywork / unitary construction.
  - i. Doors and windscreen must remain in the manufacturer's original material.
  - j. Cars must be fitted with an engine in compliance with [Arts.26.k – t below](#).
  - k. Production Car Engines:**
    - i. Petrol engines with a maximum of six cylinders, forced induction up to 2000cc with a 34mm restrictor or up to 2500cc with a 32mm restrictor, and diesel engines with forced induction up to 2500cc with a 37mm restrictor.
    - ii. Naturally aspirated with a maximum of six cylinders, and more than 2 valves per cylinder – up to 3000cc.
    - iii. Naturally aspirated with a maximum of six cylinders, and a maximum of 2 valves per cylinder – up to 3500cc
    - iv. Rover V8 pushrod engines up to 4000cc, utilising the original Rover head castings, and limited to either a maximum of 4 carburettor chokes or a single throttle body and the original plenum chamber.
  - l. Metro 6R4 2500cc and 2800cc (Single Plenum) engines complying with MSA Specification, exclusive to 6R4s.

- m. **Specialist Competition Engines:**
    - i. Naturally aspirated.
    - ii. No more than four cylinders.
    - iii. No more than four valves per cylinder.
    - iv. Maximum capacity of 2,500cc.
  - n. Production Car Engines with a maximum of 2 rotors.
    - i. Rotary engine equivalence 1.7. Forced induction rotary engines equivalence  $(1.7. \times 1.7.) = 2.89$ .
    - j. Rotary engines will be considered equivalent to 4 valves per cylinder petrol engines in respect of the maximum engine capacity including the application of equivalency factor (a) above.
  - o. Forced Induction engines must be fitted with a restrictor at a maximum of 50mm from the extremes of the compressor blades. The restrictor orifice to be to the dimensions currently in force in FIA Appendix 'J'. Where there are two forms of forced induction fitted, the restrictor must not exceed the appropriate FIA Appendix 'J' dimensions. Provision must be made for fitting seals to the unit(s). A fee of £3.00 is payable for the sealing of turbo chargers.
  - p. With the exception of cars accepted under [Art.26.a - j](#) a **Vehicle** may be fitted with a different engine, not exceeding 25% increase of the capacity of the model, when it was supplied as original equipment by its manufacturer.
  - q. The engine capacity of FIA R/GT cars complying with this [Art.26.a - j](#) shall be limited to the current FIA Regulations.
  - r. Engine Oil Systems – Unless equipped with a closed loop system, a Catch tank of at least a one litre capacity to be incorporated in the oil breather system.
  - s. If forced induction is used the turbo / super charger must comply with [Art.26.o above](#).
  - t. The **Vehicle** may not be used in competition until the **Competition Car Log Book / Vehicle Passport** has been validated by the **ASN** and returned to the **Vehicle** owner.
27. Except for **Classes A** and **B** modifications are free within **Vehicle Regulations**.
28. **Class A Vehicles** must comply with the following requirements:
- a. The complete body shell, doors, boot or tailgate must be in production material, with no modification or lightening. Windscreens must comply with [Art.60 - 65 below](#).
  - b. No torque biasing, locked differentials or traction control devices are permitted.
  - c. Interior trim and lights may be removed but standard dashboards must be retained. Additional instruments may be fitted.
  - d. All seats apart from the **Driver's** may be removed but the specification of the **Driver's** seat may be changed.
  - e. Wheel sizes are free.
  - f. Wheel spacers are not permitted.
  - g. Suspension operation must be as manufacturer's specification.
  - h. No four-wheel drive system is permitted.
  - i. The engine block (which may be bored out) must be standard for the model of **Vehicle** with standard inlet and exhaust manifold. There can be a maximum of two chokes unless the **Vehicle** is fitted as standard with more than two chokes. Fuel injection is permitted if standard on the model.

- j. A roll-over bar or roll cage may be fitted.
  - k. The manufacturer's original gearbox and axle with all internals as originally supplied for that model of **Vehicle** must be retained and in their original positions.
  - l. **Vehicles** need not be taxed or insured
29. **Class B** requirements are detailed in [Art.30 below](#).
30. **Road Rally Cars** must be taxed and comply with [Arts.31 - 70](#). **Stage Rally Cars** must comply with [Art.25](#) and [Art.26](#) and [Arts.72 - 82](#). Stage cars need not be taxed but for either a Road or Stage Rally Car, a current MoT, where appropriate, must be produced if applicable. Any forward-facing lights must comply with [Art.12](#). Tyres must comply with [Art.97](#).

### **Road Rally Cars**

31. The **Vehicle** must be currently registered and taxed as a Private Car and comply with all statutory regulations as to the Construction and Use regulations (especially regarding brakes lighting tyres warning devices rear view mirrors silencers speedometers wings and windscreens).
32. In this section the term MODEL refers to all variants of the same family of cars. In addition to complying with [Chapter 7 \(Competitors Vehicles and Vehicle Safety Equipment\)](#) and to the extent relevant [Chapter 8 \(Fuel and Tyres and Testing\)](#). All **Vehicles** competing in **Road Rallies** must comply with the appropriate part of the following:

### **Body**

33. Bodywork must represent the manufacturer's original profile and may include any optional extras available directly from the manufacturer.
34. Bumpers must be fitted.
35. Paintwork must be one colour or manufacturer's original colour scheme. No primer is to be visible.
36. **Vehicles** must not have wheel arch extensions unless fitted by the manufacturer as a standard item to the body shape.
37. All major internal trim as fitted to the body type by its original manufacturer when offering it for sale must be retained. Major internal trim includes headlining, inside door panels (which may be replaced with representative material) for all doors and / or rear side panels alongside the rear seat (for a 2 door car), carpets and rear seats. It does not include parcel shelves, boot carpet or boot side trims.
38. Front seats may be improved or replaced.
39. The trim including the rear seat may be cut to allow the fitting of a safety cage.
40. If equipped with a non-standard fuel tank it must be separated from the **Driver / Passenger** compartment by a protective bulkhead of non-flammable material preventing the passage of fluid or flame.
41. Full harness seat belts may be fitted.
42. Guards may be fitted beneath the vehicle to provide protection from damage.

### **Engines and Transmissions**

43. **Vehicle** engines must have:
- a. A maximum of four cylinders.
  - b. A maximum of two carburettor chokes (two single or one double).

- c. A maximum of one camshaft per bank of cylinders.
44. Engines with more than one camshaft per bank of cylinders may be used providing that:
- a. Any replacement engine comprises a block and cylinder head from the same engine family.
  - b. they were originally fitted with fuel injection and
  - c. that the fuel injection system complete with inlet manifold and throttle body is retained unmodified except as permitted in [Art.45.c below](#).
45. In respect of **Art. 14 above** it is permitted to make the following modifications to effect installation:
- a. Alternative engine mountings, sump pan and exhaust manifolds.
  - b. Relocation of ancillaries such as alternators and steering pumps.
  - c. To change the orientation of the otherwise unmodified inlet manifold.
46. For diesel and petrol engines under 1500cc actual capacity forced induction is permitted providing that the complete original induction system is retained unmodified other than the replacement of the air filter element.
47. Fuel injection may be fitted where it was standard equipment by the manufacturer for that engine type and where the original plenum chamber and throttle body is retained for that engine type.
48. A standard Wankel unit will be considered as three cylinders. Twin Wankel units are prohibited.
49. Engines must comply with the silencing **Noise** levels and have induction air filter elements fitted that ensure the vehicle complies with noise regulations.
50. Only H shift pattern manual transmissions are permitted. The gear lever must remain the only means of changing gear unless an alternative method was originally fitted by the vehicle manufacturer as standard. Automatic transmissions are permitted provided that they are in their original configuration as fitted by the manufacturer to that specific **Vehicle** model.
51. The number and location of the driven wheels must remain as original to the model of **Vehicle**.

#### **Wheels and Tyres**

52. Wheels and tyre sizes are free but must fit within the standard unmodified wheel arch.
53. **Vehicles** must be fitted with tyres that are always legal for use on the **Public Highway**.
54. Tyres must comply with [Chapter 8 App.4 Arts.12 – 16](#).
55. **Vehicles** must have all spare wheels securely fastened in position and must not be fitted with spiked or studded tyres or any non-skid attachments, other than chains if permitted by the **Official Documents**.

#### **Electrical Systems**

56. **Vehicles** must have a maximum of four forward facing beams as well as side and indicator lights, unless further restrictions are specified in the **Official Documents**.
57. Light pods are not permitted.
58. A headlamp must provide the main beam and dipped beam functions.
59. An auxiliary lamp provides a beam other than that provided by the headlamp. With the exception of **Vehicles** built before 31st December 1946 the maximum width of the lamp body of any auxiliary lamp must not exceed 222mm.
60. A headlamp may consist of a single reflector with a dual filament bulb, or separate reflectors each with

single filament bulbs providing the functions of main beam and dipped beam separately. This will be considered as equivalent to a single dual filament headlamp unit. Lamp units comprising two reflectors where one is fitted with a dual filament bulb will be considered as a combined headlamp and auxiliary lamp. In this instance therefore no additional auxiliary lamps may be fitted.

61. Auxiliary lamps unless fitted as standard equipment using gas discharge or LED technology are not permitted and gas discharge or LED headlamp units may not be retro fitted.
62. Auxiliary lights must not be used in neutral sections except in poor visibility as permitted by law.
63. Where more than four beams are fitted as standard, only four may be used and the remainder must be rendered unusable for the duration of the event.
64. Vehicles must have all lights fitted and used according to motor vehicle lighting regulations.
65. External navigational or **Marshal** lights are not permitted.
66. For **Events** taking place wholly between half an hour before sunrise and half an hour after sunset [Arts.56](#), [63](#), and [65](#) do not apply.

#### **Miscellaneous**

67. **Vehicles** may not use racing style numbers, nor have any advertising except for event sponsor decals which must be incorporated within the rally plate.
68. They should be equipped with an effective method of stopping fuel supply, operable by the **Driver** when normally seated (the ignition switch would normally cover this requirement) and must use **Pump Fuel** as defined in [Chapter 1 App.1](#).
69. Brakes are free but must comply with Construction and Use Regulations. A hydraulic handbrake is permitted where a functioning mechanical system is also present. The hydraulic handbrake lever shall operate in an arc not exceeding 50 degrees from the horizontal.
70. **Vehicles** must display registration plates in compliance with the current Road Vehicles (Display of Registration Marks) Regulations

#### **Stage Rally Cars**

71. **Stage Rally Cars** must comply with [Arts.25 - 26](#) and the following:
72. **Stage Rally Cars** with a CCLB / VP issued before 1st January 2009, and which complied with H265 or H266 of the 2008 regulations, must comply with [Arts.29.a – p. below](#) from 1st January 2012. CCLBs / VPs for these vehicles remain valid until such time as the vehicle requires a full re-inspection following rebuilding, but may be returned to Motorsport UK for updating ownership, colour and other minor details:
  - a. All cars must comply with [Chapter 7](#) of these regulations, and all statutory regulations concerning the construction and use of vehicles. In addition **Vehicles** must:
  - b. Be currently registered and taxed as a private car, unless specific event regulations relax the requirement for taxation, by virtue of the entire event taking place wholly on private property.
  - c. Have registration documents and, where a car is required by law to have a certificate, a valid MOT Certificate where appropriate. These documents must be produced at scrutineering for all events, irrespective of whether or not part of the event takes place on the Public Highway.
  - d. Have a valid **ASN Competition Car Log Book/Vehicle Passport** that must be produced at

- scrutineering ([Chapter 7 App.1](#) and [App.12](#)).
- e. Display registration plates in compliance with the current Road Vehicles (Display of Registration Marks) Regulations.
  - f. All **Vehicles** must carry a small spill kit complying with [Chapter 7 App.2 Art.85](#).
  - g. Have a bulkhead between any fuel tank and filler and driver/passenger compartment sufficient to prevent the passage of flame or liquid. Where a fuel tank constitutes part of a bulkhead between passenger and luggage compartment, an additional bulkhead must be fitted. Additional fuel tank protection may be required.
  - h. Glass sunroofs are not permitted. Sunroofs may be of a non-shattering solid rigid material other than glass. Any sunroof must be firmly secured in the closed position. The sunroof aperture may be closed by solid material permanently fitted in place.
  - i. Windscreens to be of laminated type only.
  - j. Where advertising is allowed on windscreens it must not obscure the driver's vision nor cover more than one third of the depth of the visual area of the windscreen.
  - k. Towing eyes of adequate strength and size must be fitted to, or carried for fitting to, the front and rear of the vehicle. They must be painted a distinctive and contrasting colour
  - l. Forced Induction engines must be fitted with a restrictor at a maximum of 50mm from the extremes of the compressor blades. The restrictor orifice to be to the dimensions currently in force in FIA Appendix 'J'. Where there are two forms of forced induction fitted, the restrictor must not exceed the appropriate FIA Appendix 'J' dimensions. Provision must be made for fitting seals to the unit(s). A fee of £3.00 is payable for the sealing of turbo chargers.
  - m. Not be fitted with spiked or studded tyres or any non-skid attachments, other than chains if permitted in the **Official Documents**.
  - n. Braking systems may be modified including fitment of uprated components, conversion of drum brakes to disc brakes and use of alternative friction materials.
  - o. If the filler cap is of the quick release type or where the vehicle has been fitted with a non-standard filler, be fitted with a recessed fuel filler cap.
  - p. There are restrictions concerning the use of auxiliary lights which are detailed in the sporting regulations.
73. Have, as a minimum, a ROPS complying with [Chapter 7 App.3](#), [Chapter 7 App.13 Diagram 14](#) or [15](#) and longitudinal door bars complying with Chapter 7 App.3 Arts42 – 45 (side sections Chapter 7 App.13 Diagram 18). For **Vehicles** not issued with a **Vehicle Passport** or **Competition Car Log Book** prior to 1st January 2019 – and of a make and model with a conception date post 31.12.2005 – the following additional members are mandatory:
- a. Roof Reinforcement complying with [Chapter 7 App.3 Art.46](#) and [Chapter 7 App.13 Diagram 19 a., b., c., or d.](#)
  - b. Windscreen Pillar Reinforcement complying with [Chapter 7 App.3 Art.49 – 50](#) on each side if [Chapter 7 App.13 Diagram 69](#) dimension "A" is greater than 200mm.
74. Be equipped with an internal switch that is capable of isolating all electrical circuits and completely

stopping the engine. The operating switch must be positioned so that it can be operated by the driver and the co-driver when normally seated with seat belts fastened.

75. Be equipped with an external circuit breaker complying with [Chapter 7 App.5 Arts.13 – 18](#).
76. Have currently FIA Homologated seat belts complying with [Chapter 7 App.7 Art.31](#), [Art.32](#) or [Art.33](#) (four, five or six point).
77. Be equipped with fire extinguishers complying with [Chapter 7 App. 6 Arts.1 – 15](#), [Arts.18 - 26](#) and [27 - 29](#). The driver and co-driver must each be able to activate the extinguisher when normally seated with seat belts fastened.
78. Be fitted with front seats that were **FIA** homologated to **FIA** Standard 8855-1999, 8862-2009 or 8855-2001 at the time of manufacture (but excluding seats for which the FIA homologation was withdrawn) complying with [Chapter 7 App.7 Art.8](#). For **National Events FIA** homologated seats manufactured to FIA Standard 8855-1999 or 8855-2001 may be used for up to two years beyond the expiration of the original homologation label validity. FIA homologated seats manufactured to FIA Standard 8862- 2009 may be used until 31st December of the year stated on the label.
79. Have substantial underbody protection covering any area of a fuel tank exposed to running damage.
80. Be equipped with high-intensity horns that can be operated by the driver and the co-driver.
81. If a camera is carried, the fitting must be specifically approved by a **Scrutineer**.
82. Belt cutter(s) must be carried on board at all times. Both driver and co-driver must be able to reach a belt cutter when seated with their harness fastened.

#### **Body (including Aerodynamics)**

83. Cars must be fitted with a laminated glass or polycarbonate windscreen or have a 2.5cm matrix wire mesh fitted over the whole of the windscreen aperture. If fitted with a glass or polycarbonate windscreen, the **Vehicle** must have an operative wiper / washer system. Where windscreens are removed, rear windows must also be removed. For open **Vehicles**, approved goggles / visors must be worn at all times.
84. If fitted with non-standard or lightened doors **Vehicles** must have an internal horizontal safety bar across each door aperture below the line of the window and at a suitable height to protect the **Driver**. This must not be integral with the door.
85. Any cover over the **Passenger's** compartment alongside the **Driver** must be made of foldable material except where the **Driver / Passenger** compartment is separated by a stress-bearing solid **Chassis** member as part of the original design.
86. With the exception of **Vehicles** in **Class D** any **Vehicle's** silhouette viewed inside elevation must remain unaltered above the wheel hub centres of the original **Vehicle** except for the engine bonnet / cover the shape of which can be altered.
87. In **Class C** the following are permitted to reduce weight:
  - a. One-piece lightweight bonnet wing assemblies, providing adequate bracing is provided to replace lost strength
  - b. Lightweight engine bonnet covers, boot lids and doors
  - c. All non-stress-bearing internal components may be removed
88. Cars more extensively lightened than indicated above must be fitted with full roll-over bars to requirements

of [Chapter 7 App.3 Arts.66 - 85](#).

### Engine

89. See [Chapter 7 Appendix 2 Arts.32 – 34](#).

### Brakes

90. Brakes must comply with Statutory Requirements as to the **Construction of Motor Vehicles**.
91. If there is no mechanical system available for braking on at least two wheels, two hydraulic systems are required so that in event of failure of one braking can be maintained on at least two wheels.
92. **Vehicles** constructed after 1930 must have brakes on all wheels.
93. When tested immediately prior to an **Event** the braking system on all **Vehicles** must work without impairing the **Driver's** control.
94. It must be possible under all conditions, running or stationary, for 25% minimum braking effort to be applied by the **Driver** through the braking system to each axle.
95. Brake balance adjusters must not be available for adjustment during running if they contravene [Art.94 above](#).

### Wheels

96. Any spare wheel must be securely fastened in position (a spare need not be carried unless specified in the **Official Documents**).

### Tyres

97. Only tyres for use on the **Public Highway** by **Vehicles** or light commercial **Vehicles** are permitted. Slicks or any tyres that have been wholly or partly hand-cut are not allowed unless the **Official Documents** state otherwise.

### Transmission

98. If fitted with front wheel drive, **Vehicles** must have an effective differential action between the driving wheels. Reverse gear is optional in **Autocross Specials (Class D)**.

### Oil Systems

99. In rear-engined **Vehicle** no part of the oil tank may be located to the rear of the gearbox casing.

### Electrical Systems

100. It is permitted to remove all lamps. **Vehicles** in **Classes C & D** and all other **Vehicles** where the standard rear lights are removed or not functional must be equipped with two rear red warning lights with a minimum of 21W (or LED equivalent) each and an illuminated area of 60 sq cm. These must work with or replace the **Vehicle** brake light system at all times, must be between 600mm and 1500mm above the ground and must be clearly visible from behind. The fitting of generators is optional.

### Silencing

101. **Vehicles** must comply with silencing levels in [Chapter 7 Appendix 8 Arts. 9 – 15](#).

## Safety

102. Safety Criteria, [Chapter 7 App.7 Art.30](#) three point and [Chapter 7 Art.6 Arts. 5 - 6](#) (not necessarily plumbed in) are mandatory. [Chapter 7 App.3 Arts.66 - 85](#), [Chapter 7 App.7 Art.31](#) and [Chapter 7 App.5 Arts. 13 - 18](#) are strongly recommended.

## Clubcross Vehicles

103. Only the following categories of **Vehicle** are allowed to compete in **Clubcross Events**. They must comply with the following:
- a. **Category 'A' Economy "Standard" Production Saloons.** Cars must comply with [Art. 28 above](#) and the following:
    - i. Maximum engine capacity: 2000cc
    - ii. Forced Induction is prohibited
    - iii. Four Wheel Drive is prohibited
    - iv. Tyres must comply with [Art.103.e. below](#).
  - b. **Category 'B' Road Saloon Cars:**
    - i. Maximum engine capacity: 2000cc
    - ii. Forced Induction is prohibited
    - iii. Four Wheel Drive is prohibited
    - iv. Tyres must comply with [Art.103.e. below](#).
  - c. **Category 'C' Minicross Cars:**
    - i. Cars must comply with Minicross Regulations
    - ii. Tyres must comply with [Art.103.e. below](#).
  - d. **Category 'D' Stock Hatch Cars:**
    - i. **Vehicles** must comply with Stock **Rallycross Hatch Rallycross Regulations**
    - ii. Maximum engine capacity 1600cc
    - iii. Tyres must comply with [Art.103.e. below](#).
  - e. Only highway pattern tyres are permitted (ie not off-road, on / off-road or winter pattern).

## Junior Autocross Vehicles

104. The only category of **Vehicle** permitted in Junior Autocross Events are those complying with the following:
- a. The engine must be naturally aspirated and must not have a capacity exceeding 1400cc.
  - b. Must be production **Vehicles**, front or rear wheel drive with standard unmodified engine in original position.
  - c. Must run induction systems, inlet manifolds and exhaust systems which are standard to the **Vehicle**.
  - d. Performance air filters and exhaust back boxes are permitted, but turbochargers or superchargers are not.
  - e. The dashboard is to remain as standard and in the original position, additional instruments may be fitted. All other interior trim may be removed. The **Driver's** seat must be a **Competition Seat** compatible with the requirements of [Art.104.k below](#).
  - f. Wheels are free.

- g. Suspension is free but must use standard pick up points and locations.
- h. Standard gearbox and differential applicable to the **Vehicle** must be used.
- i. Modification or relocation of the petrol tank is free.
- j. The silhouette of the **Vehicle** must not be altered.
- k. Seat belts fitted in accordance with [Chapter 7 App.7 Art.31](#). Four point (currently **FIA** homologated and with four separate fixing points) as a minimum are mandatory.
- l. Must have no body kits, space framing or alterations, fibreglass or alloy panels to make the **Vehicle** lighter.
- m. The windscreen may be of either laminated glass or plastic of the required thickness. No apertures will be permitted in windscreens. If fitted with a glass or plastic windscreen ([Chapter 7 App.2 Arts.77 - 78](#)), the **Vehicle** must have an operative wiper / washer system. It is permitted to replace all other windows with plastic of the required thickness.
- n. [Chapter 7 App.3 Arts 66 - 80](#), [Chapter 7 App.14 Diagram 14 or 15](#) is mandatory.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART B RALLYCROSS

#### APPENDIX 6

##### Organisers Regulations

##### Permits for Rallycross

1. **Permits for Rallycross Events** are issued at the sole discretion of the **ASN**. **Venues** must have a valid **Track Licence** for **Rallycross**.
2. A **Club** will only be allowed to organise **Events** of up to **Interclub** status unless the **ASN** has specifically approved an application for higher status.
3. The **Clerk of the Course** for a **Rallycross Event** must hold a valid **ASN Licence**.
4. For **Interclub** and above status **Permitted Events** only, for venues authorised by the issued **Track Licence** to include **Joker Laps**, the **Joker Lap** may be used. Two **Judges of Fact** to be appointed to oversee its use.
5. In each qualifying heat and final, one of the laps must be the **Joker Lap**.

##### Joker Lap

6. Characteristics:
  - a. Length: must be such that the time needed to cover a lap is at least 2 seconds longer than the best lap time achieved by a **Super Car**.
  - b. Width: minimum 10 m, maximum 12 m.
  - c. The entry and the exit cannot be on the racing line.
  - d. Safety protection to separate the two roads must be in place. At the exit it must be possible for the **Vehicles** to be driving at the same speed as on the traditional **Circuit**.
  - e. A **Marshal Post** will be put in place if judged necessary for safety reasons.
7. The **Driver** must enter or leave the **Joker Lap** section in such a way that does not constitute a danger or hinder other **Drivers**. At the exit of the **Joker Lap** section the **Vehicles** on the main track have priority.
8. Those **Drivers** who do not take the **Joker Lap**:
  - a. In a **Heat** will receive a time penalty of 30 seconds. The penalty for **Drivers** who take it more than once will be decided by the **Clerk of the Course**.
  - b. In a **Final** or who take it more than once will be classified last in that **Final** before the non-starters. If this concerns more than one **Driver** they will be classified in the order of their respective positions on the starting grid before the non-starters.

##### Scrutineering

9. No **Vehicle** may be driven in the **Event** until it has been approved by an **ASN Scrutineer** at the **Event**.
10. **Vehicles** must be presented for scrutineering at the time specified in the **Official Documents** with any previous **Scrutineering Labels** removed.
11. Any Competitor not reporting as instructed may be fined, disqualified or may forfeit any claim to a favourable starting position.

12. **Classes** must be specified in the **Official Documents**.
13. **Vehicles** being used must comply with **Technical Regulations** in [App.9 Arts.1 – 8](#) and [App.9 Art.54.c](#).
14. If after approval any **Vehicle** is dismantled or modified or is involved in an incident, in a way which may affect its safety or eligibility or any aerodynamic device is added or removed it must be represented for approval. The **Entrant** is responsible for seeking fresh approval.
15. Any **Vehicle** involved in an incident from which it is unable to proceed must not be touched by anybody other than **Officials** without the specific approval of the **Clerk of the Course**. The **Driver** concerned may not drive again without the approval of the **Medical Officer** in charge.

#### **Drivers**

16. Only the **Driver** may be in a **Vehicle** during the **Competition** or **Practice**.
17. **Rallycross Drivers** must conform to the **Medical Requirements** specified in [Chapter 6](#).
18. **Vehicles** will be identified by **Competition Numbers** allocated by the **Organisers** and displayed as specified in the **Technical Regulations** J.4 or in line with the following:
  - a. The **Organisers** may, in addition to the number format provided in [Chapter 7 App.10](#), also permit **Competition Numbers** to be moved to the rear side windows (above the **Drivers'** name) on the **Vehicle** in which case.
  - b. The numbers for each rear side window shall be:
    - i. a minimum of 200mm high
    - ii. with a stroke width of at least 20mm
    - iii. coloured reflective yellow.
  - c. In addition the windscreen of these **Vehicles** must display the **Competition Number** positioned on the upper area of the **Passenger's** side of the windscreen as follows:
    - i. the numerals must be at least 150mm high
    - ii. be in the same colour and font as those displayed on the rear side windows
    - iii. be placed no closer than 50mm from the lower edge of the windscreen "sun-strip" and 50mm from the side edge of the windscreen.

The colour may be varied for different **Categories**.

19. **ASN** or **FIA Competition Car Log Books (CCLB) / Vehicle Passports** are required at all **Rallycross Events**. Any **ASN Competition Car Log Book** issued prior to 31st December 2016 will become invalid on 1st January 2022. All **Vehicles** will need to obtain a new **Vehicle Passport** valid for the 2022 season.
20. **Vehicles** will be permitted to carry radio transmitters or receivers where the **Official Documents** or Championship regulations allow, and only for the following:
  - a. for **National** and above status **Permitted Events**
  - b. for any **Junior Category** only a non-transmitting radio receiver tuned to the frequency of a single transmitting device which is under the direct and sole control of the **Clerk of the Course** is permitted. The system is to be used solely for providing **Competitors** with instructions or warnings issued by the **Clerk of the Course**.

Where required Ofcom licences must be in place.

## Medical and Rescue Requirements

21. The minimum **Course** requirements (including at **Practice**) are as follows:
  - a. **Rallycross**: one **Doctor** or **ASN-Licensed Paramedic**, one ambulance and one licensed **Rescue Unit** crewed in accordance with [Chapter 11 Art.20](#).
  - b. **Minicross**: one **Doctor** or **ASN-Licensed Paramedic**, one ambulance and either one licensed **Rescue Unit** with licensed crew, or one emergency vehicle equipped as in 30.
  - c. Where **Minicross** is organised within a **Rallycross Event**, the medical and rescue requirements stipulated for **Rallycross** also apply to the **Minicross Competition** within that **Event**.
  - d. Ambulances should be equipped with basic resuscitation equipment and if possible a **Casualty Immobiliser** for handling patients over difficult terrain. This essential equipment should not have to be taken from any rescue vehicles which must remain at all times fully operational on the **Course**. The ambulances must only be used in connection with casualties arising from the **Competition**.
  - e. The **Organisers** in conjunction with the **Chief Medical Officer** must ensure that during both **Practice** sessions and **Competition** adequate first aid staff are in attendance (eg St John or St Andrew Ambulance, Red Cross etc).

## Practice and Starts

22. All Competitors must be allowed three practice laps.
23. Any **Driver** who has not previously competed over the **Course** within the preceding four weeks must complete at least one observed practice lap in the **Vehicle** to be raced.
24. The **Official Documents** must specify: the starting signal; the timing method; when timing commences; and the method of allocating starting positions.
25. **Vehicles** will be started from a standing start, with the engines running, and the Finish line must be clearly indicated.
26. The spinning of wheels (tyre cleaning) before the start is only permitted in the designated area clearly defined on the Track licence and should be under supervision of the start Marshals. It cannot be performed when a Marshal or any other person is standing in front or or behind the Vehicle.
27. **Judges of Fact** may be appointed to adjudicate on:
  - a. False starts.
  - b. Not following correct course, or touching a marker.
  - c. Baulking or contact.
  - d. Noise.

## Signals

28. **Signals** may be used as appropriate in accordance with [Art.30](#) and [31 below](#).
29. A **Yellow Signal** gives warning of an incident and prohibits overtaking until the incident is passed.
30. **Officials' Signals** will be conveyed to **Drivers** and may be displayed either by flags and or by an appropriately coloured light panel to which the **Competitor** number may be attached.
31. A 'static flag' may be replaced by a coloured light **Signal** and a 'waved flag' may be replaced by a flashing coloured light **Signal**:

- a. Red / Green lights or **National Flag: Race** start.
  - b. Yellow – 'Waved': Danger slow down sufficiently to ensure that full control of the **Vehicle** can be retained. No overtaking.
  - c. Red: Immediately cease driving at racing speed and proceed slowly without overtaking and with maximum caution to pits or start line obeying **Marshal's** instructions and or Light Signals and being prepared to stop should the **Track** be blocked.
  - d. Black and White Rectangular split diagonally and displayed with the **Competitor's** number: A warning to the **Driver** that their driving conduct is suspect and they may be shown a black **Signal** on further reports.
  - e. Black displayed with the **Competitor's** number: The **Driver** must stop at their pit on the next lap of receiving the **Signal** and report to the **Clerk of the Course**. A penalty of **Disqualification** may be enforced by display of the **Black Signal**.
  - f. Black and White Chequered - End of **Race** or **Practice**.
32. Any race can be stopped at the sole discretion of the **Clerk of the Course** by 'waving' the **Red Signal** at the **Start / Finish Line**. **Competitors** will be warned that the race has been stopped by the simultaneous 'waving' of the **Red Signal** at all **Flag Marshalling Posts**.
33. Re-runs will only be permitted at the discretion of the **Clerk of the Course** and:
- a. when a **Red Signal** has been shown during a **Heat** or **Final**; and / or
  - b. when the end-of-race **Signal** is displayed inadvertently or otherwise before the leading **Vehicle** completes the scheduled number of laps.
34. Only the participants in the first start are entitled to participate in the re-run and must occupy the same place as for the previous start. In this case any possible warnings or penalties will however apply for the re-run.
35. Where a **Driver** in a **Heat** or **Final** causes a re-run the **Driver** concerned may be **Disqualified** from the results.
36. All other incidents will be treated as "**Force Majeure**".
37. If a **Heat** or **Final** is stopped by a **Red Signal** and subsequently restarted any **Driver** who started in the original **Heat** or **Final** but who is not able to start in the re-run will be classified in front of any **Drivers** who did not start at all.
38. If not restarted the result will be based on the order of crossing the **Finish Line** at one lap less than at the time of the first showing of the **Red Signal**.
39. No work may be carried out on the grid unless on grounds of safety and only with the approval of the **Scrutineer**.
40. The **Clerk of the Course** may order that the duration of the second part or re-run of any race shall be of a shorter distance than originally scheduled or may be abandoned altogether.
41. If no **Vehicles** are running under their own power the **Clerk of the Course** may order the end of race **Signal** to be displayed. The results will be declared on the relative positions of **Vehicles** at the time they last crossed the **Finish Line** under their own power.
42. Any race stopped before the leader has completed one lap will be declared a "No Contest" and available **Vehicles** will restart from their original grid positions.

## Track Regulations

43. Any driver intending to leave the course shall signal their intention in good time and shall satisfy themselves that it is safe to do so.
44. The driver of any car leaving the course because of being unable to maintain racing speed should signal the intention to do so in good time and is responsible for ensuring that the manoeuvre is carried out safely and as near as possible to a point of exit
45. Overtaking according to the circumstances may be carried out either on the right or on the left. In response to each attempted overtaking manoeuvre no more than one change of direction to defend a position is permitted.
- I. Any **Driver** moving back towards the racing line having earlier defended their position off-line should leave at least one **Vehicle** width between their own **Vehicle** and the edge of the **Track** on the approach to the corner.
  - II. Manoeuvres liable to hinder other **Drivers** such as deliberate crowding of a **Vehicle** beyond the edge of the **Track** or any other abnormal change of direction are strictly prohibited.
  - III. Any **Driver** who appears guilty of any of the above offences may be reported to the **Clerk of the Course**.
46. Should a **Vehicle** leave the **Track** for any reason and without prejudice to [Art.47 below](#) the **Driver** may re-join. However this may only be done when it is safe to do so and without gaining any advantage.
47. Causing a collision, repetition of serious mistakes or the appearance of a lack of control over the car (such as leaving the track) will be reported to the **Clerk of the Course** and may entail the imposition of penalties up to and including the **Disqualification** of any **Driver** concerned.
48. It is not permitted to drive any **Vehicle** unnecessarily slowly, erratically or in a manner deemed to be potentially dangerous to other **Drivers** at any time.
49. Breaches of [Art.50.a](#) may be reported and / or determined only by:
- a. A duly appointed **Judge of Fact** and/or
  - b. **Senior Officials** through the use of suitable equipment under the control of the **Organisers**.
50. **Track** regulations as detailed in [Arts.43 - 49 above](#), as appropriate, apply to **Rallycross** and **Off Road Racing** in addition to the following specific elements in respect of **Rallycross Tracks**:
- a. **Drivers** must use the **Track** at all times and may not leave the **Track** without a justifiable reason:
  - b. The white lines, tyre stacks, marker poles or other devices identified by the **Clerk of the Course** during the briefing defining the track edges are considered to be part of the **Track**.
  - c. The **Clerk of the Course** will identify during the **Drivers Briefing** and in written form the specific areas to be judged.
  - d. A **Driver** will be judged to have left the **Track** if two wheels of the **Vehicle** go beyond the outer edge of any kerb, the white line or **Track** markers or should the **Vehicle** pass behind or substantially move any physical marker where there is no kerb.
  - e. Pushing or other contact resulting in a lasting advantage is strictly prohibited.
51. Breaches of [Art.50.d above](#) may be penalised following a report by a **Judge of Fact** using the following scale of penalties over the course of the **Event** and notified by issue of a **Clerks Decision** in each instance which will detail where the breach occurred:
- 1st breach – no penalty

2nd breach - warning

3rd breach – 5 second penalty added to session time

4th breach – 10 second penalty added to session time

5th breach – **Disqualification**

52. No competing **Vehicle** shall be driven in the reverse direction of the **Track** except for the minimum distance to remove it from an unexpected situation and then only under **Official** supervision.

### **Results**

53. \*The **Official Documents** will specify the method by which a winner is decided.

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## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART B RALLYCROSS

#### APPENDIX 7

##### Medical and Rescue Requirements

This Appendix should be read in conjunction with [Chapter 11 Emergency and Medical Services](#).

1. The minimum course requirements are for one Doctor or **ASN**-registered Paramedic and one ambulance to be in attendance.
2. Ambulances should be equipped with basic resuscitation equipment and if possible a **Casualty Immobiliser** for handling patients over difficult terrain. This essential equipment should not have to be taken from any rescue vehicles which must remain at all times fully operational on the **Course**.
3. The ambulances must only be used in connection with casualties arising from the **Competition**.
4. The Organisers in conjunction with the **Chief Medical Officer** of the **Event** must ensure that during both **Practice** sessions and **Competition** adequate first-aid staff are in attendance (eg St John's or St Andrew Ambulance, Red Cross etc).
5. **Clerks of the Course** must have under their control either a licensed **Rescue Vehicle** or at least one emergency vehicle equipped with the following:
  - Bolt cutters
  - Pipe cutters capable of severing chassis tubes
  - Tin snips
  - Hacksaws complete with a quantity of blades
  - Pad saw complete with a quantity of blades
  - Spanners
  - Fire resistant blanket
  - Industrial gloves.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART B RALLYCROSS

#### APPENDIX 8

##### Competitors Regulations

###### Signing On

1. When signing on a **Competition Licence** valid for the **Event** must be produced (see Table in [Chapter 6](#)).
2. **Competitors** must declare on their entry forms whether or not they have ever held a valid RTA licence.
3. **Competitors** aged 16 and above who have never held a valid RTA Licence must produce proof of having competed as a **Driver** in three **Minicross** or **Clubcross Events**, or three other **ASN-Permitted Events** (such as **Kart Racing, Autotests, Production Car Trials**, etc), or show proof of having completed an approved driving course at a **Race** or **Rally School** recognised by the **ASN**.
4. **Competitors** having reached the year of their 14th birthday may compete in Junior Rallycross and may continue until 31st December of the year of their 17th birthday:
  - a. For **Junior Rallycross** maximum grid size to be as per **Track Licence**.
  - b. New **Competitors** will have to drive observed laps prior to the **Competition** in order to satisfy the **Clerk of the Course** that they are competent to take part. **Vehicles** will start singly and run over three laps. Observed laps are not required if the **Competitor** can provide the **Clerk of the Course** with proof of having competed as a **Driver** in three other **ASN-Permitted Events** or having successfully completed an approved driving course at a **Race** or **Rally School** recognised by the **ASN**.
5. Any **Driver** competing in a **Vehicle** of 0.34bhp / kg or higher (excluding driver weight) and measured at the driven wheels must be the holder of an **RS National Licence** as a minimum.

###### Licence Upgrading Criteria

6. **Rallycross**: See [Chapter 6 App.8](#).

###### Scrutineering

7. **Vehicles** must be presented for scrutineering and practice at the times specified in the **Official Documents** with any previous **Scrutineering Labels** removed. **Classes** must be specified in the **Official Documents**. Any **Competitor** not reporting as instructed may be fined, **Disqualified** or may forfeit any claim to a favourable starting position.
8. **Vehicles** being used must comply with **Technical Regulations [Appendix 9 to this Chapter](#)**.
9. If after approval any **Vehicle** is dismantled or modified or is involved in an accident in a way which may affect its safety or eligibility or any aerodynamic device is added or removed it must be represented for approval. The **Entrant** is responsible for seeking fresh approval.
10. Any **Vehicle** involved in an incident from which it is unable to proceed must not be touched by anybody other than **Officials** without the specific approval of the **Clerk of the Course**. The **Driver** concerned may not drive again without the approval of the **Medical Officer** in charge.

###### Drivers

11. Any **Driver** who has not previously competed over the **Course** within the preceding four weeks must complete at least one observed practice lap in the **Vehicle** to be raced. Only the **Driver** may be in a **Vehicle** during the **Competition** or **Practice**.
12. **Rallycross Drivers** must conform to the **Medical Requirements** specified in **Chapter 6**.
13. **Vehicles** will be identified by **Competition Numbers** allocated by the **Organisers** and displayed as specified in the **Technical Regulations (Chapter 7 App.10)** or in line with the following:
  - a. The numbers shall be in position before the vehicle is presented for scrutiny and will be subject to approval as to position, legibility and size. Modifications may be required as a result of observations during **Practice**.
  - b. **Competition Numbers** must be covered at all times when driving on the **Public Highway**.
  - c. The **Chief Timekeeper** may decline to record the performance of any **Vehicle** whose **Competition Numbers** are not readily apparent to the lap recorders.
  - d. On any **Vehicle** driven by a person who has not received six car race signatures on their Interclub Licence, there shall be on the back of the **Vehicle** a yellow square, 7in x 7in, with a black diagonal cross, with strokes 6in long and 1in wide.
  - e. The **Organisers** may, in addition to the number format provided in **Chapter 7 App.10**, also permit **Competition Numbers** to be moved to the rear side windows (above the **Drivers'** name) on the **Vehicle** in which case.
  - f. The numbers for each rear side window shall be:
    - i. a minimum of 200mm high
    - ii. with a stroke width of at least 20mm
    - iii. coloured reflective yellow.
  - g. In addition the windscreen of these **Vehicles** must display the **Competition Number** positioned on the upper area of the **Passenger's** side of the windscreen as follows:
    - i. the numerals must be at least 150mm high
    - ii. be in the same colour and font as those displayed on the rear side windows
    - iii. be placed no closer than 50mm from the lower edge of the windscreen "sun-strip" and 50mm from the side edge of the windscreen.

The colour may be varied for different **Categories**.

14. The following items must be produced by **Drivers** for inspection and approval at **Scrutineering** and be worn throughout the **Competition** properly fastened and positioned:
15. A crash helmet meeting all current regulations, which fits properly, is in a serviceable condition and bears an **ASN** approval sticker (see **Arts.22 – 40 of Chapter 9**).
16. Goggles or visor of splinter proof material (unless in a closed car with a full-size windscreen).
17. Flame-resistant overalls covering arms, legs and torso up to the neck. The use of a flame resistant balaclava, socks, shoes and underwear is strongly recommended (**Arts.11 – 21 of Chapter 9**).
18. Complete gloves (not mitts or gloves with open backs). The use of flame-resistant gloves is strongly recommended.
19. An **FIA** approved FHR device fitted in accordance with **FIA** regulations is mandatory.

20. **Vehicles** will be permitted to carry radio transmitters or receivers where the **Official Documents** or **Championship Regulations** allow and only for the following.
- a. for **National** and above status **Permitted Events**
  - b. for any **Junior Category** only a non-transmitting radio receiver tuned to the frequency of a single transmitting device which is under the direct and sole control of the **Clerk of the Course** is permitted. The system is to be used solely for providing **Competitors** with instructions or warnings issued by the **Clerk of the Course**.
21. Where required Ofcom licences must be in place.

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## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART B RALLYCROSS

#### APPENDIX 9

##### Technical Regulations

##### Rallycross Vehicles

1. **Racing Cars** are prohibited.
2. **Vehicles** will be classified as detailed in the **Official Documents**. They must be of rigid construction and comply with the regulations below. They must have been homologated in Group N, A or B of **FIA Appendix J** or in groups 1, 2, 3 or 4 of 1981 **FIA Appendix J** (although homologation may have lapsed) or commercial vehicles specifically approved by the **ASN**.
3. **Vehicles** complying with current **FIA Appendix J Article 279** regulations, in their entirety, are also permitted, even where homologation may have lapsed.
4. \*Mass-produced non-homologated **Vehicles** may be accepted for events up to **National** level.
5. **Rallycross Vehicles** in compliance with **Chapter 16, Appendix 10 Part B** and issued the **Rallycross Space Frame Vehicle Identity Form (RXVIF)**. The **Vehicle** may not be used in **Competition** until the **Vehicle Identity Form** has been validated by the **ASN** and returned to the **Vehicle** owner.
6. **Rallycross Vehicles** of mixed construction being part **Spaceframe**, part Unitary Construction or other, issued with a **Competition Car Log Book / Vehicle Passport** prior to 31st December 2016 and complying with specific regulations approved by the **ASN**.
7. **Rallycross Spaceframe Vehicles** issued with a **Competition Car Log Book / Vehicle Passport** prior to 31st December 2016 complying with **Championship Technical Regulations** approved by the **ASN (Art.46)** applies.
8. **Rallycross** electric **Vehicles** specifically approved by the **ASN**. Additional safety training and requirements will be an integral element of the application and approval.

##### **Body (including Aerodynamics)**

9. The **Vehicle** must have a bulkhead separating the cockpit from the engine compartment. It must retain its original material and location compared to the standard car. Installing components up against or passing through this bulkhead is permitted providing nothing protrudes into the cockpit more than 200mm (as measured perpendicularly to the bulkhead). This will be measured at the point of intrusion, and parallel to the ground. If the protrusion includes the engine, the cam / valve cover may not extend further back than the forward most point of the windscreen aperture when viewed directly from above. For **Scrutineering** purposes a 13mm diameter hole must be drilled at the forward most point of the screen aperture.
10. Bumpers and supports if fitted must both be as originally fitted to the mass-produced vehicle. No reinforcing of bumpers or supports is permitted. If one bumper is removed, then both must be along with all supports.
11. Reinforcing the front apron is not permitted.
12. Any undertray must be provided with drainage holes to prevent accumulation of liquids.
13. The windscreen must be of either laminated glass or polycarbonate of the required thickness. No apertures will be permitted in windscreens. If fitted with a glass or polycarbonate windscreen the **Vehicle** must have an operative wiper/ washer system. All **Drivers** must wear approved goggles or visors, unless the **Vehicle** is fitted

with a polycarbonate windscreen. A wire mesh stone guard adequately fitted to the bodywork and with a minimum matrix of 1in is permitted with any type of windscreen.

14. When viewed from above wheels must be covered by rigid material at all times. The outside shape of the original coachwork must be retained except around the wings.
15. Openings may be made in the bonnet or boot lid for ventilation providing they do not make mechanical components visible.
16. The **Bodywork** must be of the vehicle manufacturers specifications and minimum thickness with the exception of airboxes, radiators, front wings, rear wings / rear quarter panels and removable parts and panels, which may be of alternative materials. Seam welding, and localised gussets/ reinforcement is permitted.

#### **Engine**

17. The engine may be modified but the block must be from a mass-produced engine and must have the same number of cylinders as the original mass-produced engine for that **Vehicle**.
18. **Specialist Competition Engines** as defined in [Chapter 1 App.1 \(Nomenclature and Definitions\)](#) are also permitted.
19. The engine must be located within the original engine compartment.
20. Twin engine configurations are not permitted unless mass produced in that form.

#### **Oil Systems**

21. Oil systems must have catch tanks fitted.
22. Any oil tank located outside the chassis or main structure of a **Vehicle** must be covered with a protective coating (eg GRP)

#### **Fuel Systems**

23. These should be equipped with an effective method of stopping fuel supply which can be operated by the Driver when seated normally with seat belt secured.

#### **Transmission**

24. Transmissions can be modified.
25. The clutch and its control are free but automatic operation of the clutch is prohibited unless fitted by the manufacturer to that body style. The clutch must be operated by the **Driver's** feet, unless an alternative method of operation is fitted by the manufacturer to that body style. Modification for disabled **Drivers** permitted in accordance with [Chapter 7 App.2 Art.3](#).
26. The final drive assembly, differentials, propshafts and driveshafts are free. Electronically-controlled systems are prohibited.
27. \*The **Official Documents** may require four-wheel drive **Vehicles** to be subject to some form of handicap (not necessarily a delayed start).

#### **Electrical Systems**

28. **Vehicles** should be equipped with an ignition cut-off switch, having a clearly marked and positive ON-OFF position, which can be operated by the **Driver** when normally seated with seat belt secured. It must also isolate electric fuel pumps.
29. Any forward-facing lamps of more than 32 sq cm surface area must be adequately protected against glass

breakage.

30. All lights may be removed but all **Vehicles** must be equipped with two rear red warning lights to be used in fog, with a minimum of 15W each and an illuminated area of 60 sq cm. These must work with or replace the car brake light system at all times, must be between 1150mm and 1500mm above the ground and must be clearly visible from behind.
31. Generators are optional but a self-starter system must be operable at all times.

#### **Brakes**

32. Brakes may be modified but an effective handbrake is obligatory. The handbrake may be modified for fly-off operation.
33. There must be at least two hydraulic systems so that if one fails braking is maintained on at least two wheels (not on the same side).
34. The braking system on all **Vehicles** must work without impairing the **Driver's** control when tested immediately prior to an **Event**. It must be possible under all conditions, running or stationary, for 25% minimum braking effort to be applied by the **Driver** through the braking system to each axle.
35. Brake balance adjusters must not be capable of adjustment during running if they contravene [Art.34 above](#).
36. Anti-lock devices are prohibited but brake discs are free subject to being made of ferrous material.

#### **Wheels**

37. At the start of each **Heat** or **Race**, **Vehicles** must be fitted with mudflaps behind all four wheels extending to a minimum of 38mm either side of the tyre tread and to a maximum of 76mm above the ground.
38. All nuts securing roadwheels (except centre-lock types) must be made of steel and in thread contact over a minimum length of 1½bolt / stud diameters.
39. Extended or composite wheel bolts / studs are prohibited. The use of safety wheel nuts to prevent wheels pulling over standard nuts is strongly recommended.
40. Maximum wheel width on all **Vehicles** is 250mm (wheel width = flange + rim + tyre).

#### **Silencing**

41. **Vehicles** must comply with silencing levels in [Chapter 7 App.8 Arts.9 – 15](#).

#### **Safety**

42. Closed **Vehicles** must have a means of access on either side of the **Passenger** compartment which can be operated from inside or outside. Access must be sufficient to remove an occupant without interference from any door locking devices. They must have an operating windscreen wiper and washer system.
43. **Vehicles** must comply with safety criteria in:
  - a. [Chapter 7 App.3 Arts.69 - 82](#), [Chapter 7 App.13 Diagrams 14, 15](#) or [17](#) with door bars as shown in [Diagram 18](#) mandatory.
  - b. With the exception of Lotus Elise / Exige derivatives and Vauxhall VX220 the door bars on the driver's side must be in accordance with [Chapter 7 App.13 Diagram 21.g, 21.h](#) or [21.j](#).
  - c. Harness: [Chapter 7 App.7 Art.33](#) as a minimum.
  - d. Fire extinguisher: [Chapter 7 App. 6 Arts.1 – 15](#) or [Arts.18 - 26](#) minimum.
  - e. [Chapter 7 App.5 Arts19- 22](#)

f. [Chapter 7 App.5 Arts.13 – 18](#)

g. [Chapter 7 App.7 Art.26 - 27](#)

#### Miscellaneous

44. The following parts of [Chapter 7](#) remain unmodified: **Chassis**, Suspension, Steering, Cooling, Weight/Ballast, Exhausts.
45. Active suspension, and any system which allows control of the spring flexibility, shock absorption or trim height when the car is moving, is prohibited unless fitted by the manufacturer to that body style.
46. **ASN** or **FIA Competition Car Log Books / Vehicle Passports** are required at all **Rallycross Events**. Any **ASN Competition Car Log Book** issued prior to 31st December 2016 became invalid on 1st January 2022 and will require a newly issued Vehicle Passport.
47. **Vehicles** must be fitted with at least one mirror of minimum surface area 50sq cm securely mounted to give a clear view to the rear. The edges of the mirror must be protected by a suitable cover to help prevent injury in event of an accident.
48. Where advertising is allowed on windscreens, this must not obscure the **Driver's** vision nor reduce the minimum unobstructed vertical height to less than 250mm.
49. **Vehicles** must be presented at **Scrutineering** with all steering mechanisms, suspension linkages and flexible brake lines in a clean condition.
50. Four-wheel steering is permitted unless **Official Documents** state to the contrary.
51. **Seats**. Be fitted with a driver's seat **FIA Homologated** and mounted in accordance with [Chapter 7 App.7 Art.8 – 24](#).
52. For **National Events** **FIA** homologated seats manufactured to **FIA Standard 8855-1999** may be used for up to two years beyond the expiration of the original homologation label validity. **FIA** homologated seats manufactured to **FIA Standard 8862-2009** or **8855-2021** may be used until 31st December of the year stated on the label.
53. The heating of tyres or their treatment by any chemical substance is prohibited. For the avoidance of doubt, no method of abnormally raising the temperature of tyres / wheels above the natural ambient temperature is allowed.
54. **Vehicles** must have:
  - a. Internal bonnet locks removed and external positive locking fasteners fitted.
  - b. Steering column locks rendered inoperative.
  - c. Towing eyes of adequate strength and size fitted front and rear. These should be painted a contrasting bright colour.

#### Junior Rallycross Vehicles

55. The only **Category** of **Vehicle** permitted in **Junior Rallycross Events**, other than **Vehicles** complying with the **MDA Junior Minicross Regulations** (as approved by the **ASN**), are those complying with the following:
  - a. Be a **Series Production Car**, front or rear wheel drive complying with the provisions of [Chapter 7](#) and [Arts.1 – 54](#).
  - b. Be specifically authorised by the **ASN** by issue of a **Junior Rallycross Competition Car Log Book**. The **Vehicle** may not be used in **Competition** until the **Junior Rallycross Competition Car Log Book** has been validated by the **ASN** and returned to the **Vehicle** owner.

- c. The engine must be naturally aspirated and must not have a capacity exceeding 1400cc.
- d. The cylinder head and block must remain as originally supplied by the **Manufacturer** as a **Standard Part** for that model.
- e. Where the **Vehicle** is fitted as standard with an ECU then that ECU must remain fitted and as specified by the **Championship Regulations**.
- f. The engine cooling system must remain standard to the **Vehicle**.
- g. Induction systems, inlet manifolds and exhaust systems must remain standard to the **Vehicle**.
- h. Performance air filters and exhaust back boxes are permitted.
- i. At any time the **ASN** may impose further restrictions to limit engine performance.
- j. The silhouette of the **Vehicle** must not be altered.
- k. The bodyshell must be of the vehicle manufacturers specifications and minimum thickness with the exception of rear wings / rear quarter panels and removable parts and panels, which may be of alternative materials. Seam welding, and localised gussets / reinforcement is permitted.
- l. The dashboard is to remain as standard, in the original position and the standard instruments retained and operable.
- m. All other interior trim must be removed including carpets, roof lining and passenger seats. Interior door panels may be replaced with an alternate non-flammable material.
- n. All window glass to be replaced with polycarbonate, [Chapter 7 App.2 Art.78 applies](#).
- o. Glass sunroofs are not permitted. Sunroofs may be of a non-shattering solid rigid material other than glass. Any sunroof must be firmly secured in the closed position. The sunroof aperture may be closed by solid metallic material permanently fitted in place.
- p. An interior rear view mirror must be fitted to the **Vehicle**.
- q. All **Vehicles** must have substantial underbody protection covering any area of both the fuel tank and engine sump exposed to running damage.
- r. The handbrake system is to remain as standard.
- s. The fitting of mud flaps of a flexible material of 4mm minimum thickness behind each wheel extending to a minimum of 40mm each side of the tyre tread and to within 80mm of the ground when the car is unoccupied is mandatory
- t. Wheels must be of the standard production size and material applicable to the vehicle.
- u. The steering column is to remain as standard but the steering column locks must be rendered inoperative. The steering wheel and mounting hub are free.
- v. Standard production gearbox and differential applicable to the **Vehicle** must be used.
- w. The original method of suspension operation must be retained and utilise the mounting points as provided by the manufacturer. Shock absorbers and coil springs may be updated and adjustable.

### Safety

- 56. In addition to the requirements of [Arts.42 – 43 above](#) and [Chapter 7 Apps.3 and App.6](#):
  - a. Double longitudinal door bars must be fitted to the drivers side of the roll cage in accordance with [Chapter 7 App.13 Diagram 21.g, 21.h, 21.j](#).
  - b. Fire Extinguisher: must be plumbed-in in accordance with [Chapter 7 App.6 Arts.1 - 15](#) minimum.

### Historic Rallycross

57. **ASN** has created the Regulations for Historic Rallycross so that **Historic Cars** may be used for **Competitions** under a set of rules that seek to preserve the specification of their period and prevent modifications of performance and behaviour which could arise through the application of modern technology.
58. **Historic Competition** is not simply another formula in which to acquire trophies, it is a discipline apart, in which one of the essential ingredients is a devotion to the cars and to their history. Historic Motor Sport enables the active celebration of the History of the Motor Car.
59. Historic Rallycross vehicles must comply with the regulations below and Rallycross Vehicle Technical regulations (**Arts.1 - 54**) with the exception of Engine (**Arts.17 - 20**).

#### **Cars Eligible**

60. Must have been Homologated or be a model commercially available before 31st December 1991.
61. A validated Historic Rallycross Vehicle Identity Form (HRXVIF) must be obtained from the **ASN** and presented at scrutineering. This will be the definitive document for the technical specification of the vehicle for which it has been issued. The HRXVIF will remain valid for a period of 10 years from the date of issue or such time as the registered owner of the vehicle changes if earlier.
62. **Vehicles** manufactured after the appropriate date may be permitted, providing that documentary evidence is submitted to the Motorsport UK with the identity form to show that the specific car (not model) is of the same specification as one manufactured within the specified period. This evidence will include any technical documentation supplied by the manufacturer, documents relative to the vehicle, and any other details from reliable and authenticated sources as may be available. On receipt of satisfactory evidence the **ASN** will issue an **Historic Rallycross Vehicle Identity Form** which must be presented at scrutineering.

#### **Permitted Modifications**

63. Only period modifications used in **Rallycross** on the particular make and model of **Vehicle** are permitted.
64. They should be detailed on the **Historic Rallycross Vehicle Identity Form** and duly ratified by the **ASN**.
65. In all cases the onus of proving a modification as being period rests with the Competitor who must submit the required documentary evidence.
66. Exceptionally the **ASN** may grant a dispensation to use non-original parts, parts from a different model, or parts from a later period, provided that the use of these parts does not confer an advantage in either performance or reliability. The **ASN** will consider written requests from **Competitors** who are unable to source vital components.

#### **Engine**

67. The engine is free but the block must be from a **Series Production** or **FIA** homologated engine and must have the same number of cylinders as the original engine for that model. The engine must be located within the original engine compartment. Twin engine configurations are not permitted unless homologated in that form.
68. Standard Wankel units are considered as three cylinders, twin Wankel units as six cylinders.
69. Be equipped with a positive method of throttle closing in event of linkage failure, by means of an external spring to each throttle spindle.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS AND OFF-ROAD RACING

### PART B RALLYCROSS

#### APPENDIX 10

##### Rallycross Spaceframe Technical Regulations

These regulations are mandatory for all **Spaceframe Vehicles**.

All vehicles must comply with **Chapter 7**, Rallycross Vehicles [Appendix 8 Arts.1 - 54](#) unless where specified below:

##### General Technical Requirements and Exceptions

1. The use of magnesium or titanium alloy is not permitted, with the exception of titanium sheets which may only be used for heat shields.
2. All **Spaceframe Vehicles** must have an identification number stamped into a plate measuring 80mm x 20mm which must be welded to the centre of the underside of the main 'B' hoop.

##### Safety Requirements

3. As a minimum:
  - a. **ROPS** door bars to [Chapter 7 App.13 Diagram 21.a](#) or [21.g](#) or [h](#) are mandatory, on driver and passenger side.
  - b. Where the door bar elements of the **ROPS** cross, a reinforcement for the bend or junction must be fitted in all four angles. This reinforcement must be made from bent sheet metal with a U shape the thickness of which must not be less than 1.0 mm. The ends of this gusset (point E) must be situated at a distance from the top of the angle (point S) of between 2 to 4 times the outer diameter of the biggest of the tubes joined. [Appendix 11 Diagram 6](#). A cut-out is permitted at the top of the angle but its radius (R) must be no greater than 1.5 times the outer diameter of the biggest of the tubes joined. The flat sides of the gusset may have a hole, the diameter of which must not be greater than the outer diameter of the biggest of the tubes joined.
  - c. A currently **FIA** homologated competition seat with appropriate mountings is mandatory in accordance with [Chapter 7 App.7 Arts.8 - 24](#).
  - d. All **Vehicles** must be fitted with an extinguisher system plumbed-in for discharge into both the engine compartment and the cockpit ([Chapter 7 App.6 Arts.1 - 15](#)).

##### Chassis and Bodywork

4. The **Vehicle** must have the Silhouette of a **Series Production Car** of a closed type.
5. The wheelbase will be as per the Series Production Car specification with a tolerance of  $\pm 0.5\%$ . The vehicle width of the Series Production Car must be retained with a maximum permitted increase of 100mm.
6. The minimum elements of the **Spaceframe** are shown in [App.11 Diagram 3](#).
7. The Drivers door must be of steel construction.
8. No element of the **ROPS** may pass through the space normally used for the front passenger; to allow driver extraction from either side of the car.
9. The floor frame is an integral part of the structure and the 'A' and 'B' main hoops must attach to it. The floor

frame must be constructed from either minimum 50mm x 2mm square box section or minimum 50mm x 2mm diameter tube material in accordance with [Chapter 7 App.3 Arts.60 – 62](#). The floor must be made of either minimum 10mm composite, 1mm steel or 2mm aluminium alloy to be fixed to the top of the floor frame as defined in [App.11 Diagram 2](#).

10. The forward most part of the **Spaceframe** must be at least 100mm behind the forward most part of the front bumper ([App.11 Diagram 5](#))
11. The rear most part of the **Spaceframe** must be at least 100mm forward the rear most part of the rear bumper ([App.11 Diagram 5](#)).
12. The roof must be of either minimum 10mm composite, 1mm steel or 2mm alloy to be fixed to the top of the upper surface to protect the driver as defined in [App.11 Diagram 3](#).

#### **Main cage**

13. The bulkheads ([Chapter 7 App.2 Arts.6 - 9](#)) must extend across the full width of the **Spaceframe**.
14. Bulkheads must be made of minimum 1mm steel and be welded to the **Spaceframe**.
15. For front bulkheads [App.9 Art.9 of this Chapter](#) applies.
16. No part of the rear bulkhead must be further forward than the rearmost part of the driver's seat.
17. Cars with a front engine location must be constructed so that the rearmost part of the engine is at least 25mm in front of the front bulkhead.
18. In rear-engine cars the bulkhead must extend vertically to at least the same height as the highest part of the engine. From this point a polycarbonate window, minimum thickness 5mm may complete it, extending to the full height of the interior space as well as a horizontal cover extending to the rearmost part of the interior space ([Chapter 7 App.2 Arts.10 – 11](#)).
19. In either case the full bulkhead must completely isolate the driver from the engine compartment.
20. A similar bulkhead must isolate the engine and exhaust system from the fuel tank ([Chapter 7 App.2 Arts.6 – 9](#))
21. No part of the engine may protrude through either the front or rear bulkheads ([Chapter 7 App.2 Arts.10 – 11](#)).
22. Power Transmission System / Flywheel Protection
23. The transmission tunnel frame will be fabricated from steel tubing with minimum dimensions of 25mm x 2mm ([App.11 Diagram 4](#)).
24. This frame to be reinforced (on the drivers' side and top of tunnel), at the rear of the gearbox and at the clutch/flywheel area, for a minimum distance of 200mm (centre lines based on the front propshaft flange and 25mm rearward from the gearbox to engine mounting face) using minimum 2.6mm steel extensively welded to the inside of the frame. Using the same centre line for 300mm minimum 1.2mm steel will be extensively welded to the outside of the tunnel. The remainder of the tunnel may be covered by minimum 1mm steel or minimum 1.5mm aluminium.
25. Front wheel drive, the front bulkhead must be reinforced where the flywheel and drive shafts are directly in line with the driver.

#### **Aerodynamic Devices**

26. Must not exceed the overall limits of the original bodywork dimensions ([Chapter 7 App.2 Arts.15 – 19](#)).
27. Must not be wider than the widest part of the car's bodywork or higher than the highest part of the roof.
28. Within these restrictions their design is free

#### **Body panels**

29. Door hinges must be of adequate strength.
30. Body material is free subject to [Art.1](#) and [Art.7 above](#).

#### **Engine**

31. [App.9 Arts.17](#) and [19](#) apply.
32. Forced Induction engines must be fitted with a restrictor in compliance with **FIA Appendix J, Article 279, Article 3.7.**

#### **Suspension and Steering**

33. The operating method and the design of the suspension system are free.
34. Suspension parts may not be attached to the **Spaceframe** at those elements making up the major components of the **ROPS** i.e. main/front hoop and main braces.
35. The springing medium must not consist solely of bolts located through flexible bushes or mountings but may be of fluid type.
36. There must be movement of the wheels to give suspension in excess of any flexibility in the attachments.
37. Chromium plating of steel suspension members is prohibited.
38. All suspension members must be made of homogeneous metallic material.
39. All vehicles must be fitted with a steering column of a collapsible type.

#### **Fuel Tank / Fuel**

40. Fuel Systems must comply with [Chapter 7 App.4.](#)
41. No part of the fuel tank to be located less than 300mm from the bodyshell in both lateral and longitudinal directions, and must be outside the driver's compartment, and be separated from the driver's compartment by a metal firewall or container, both of which must be flameproof and liquid-proof.
42. Fuel fillers passing through the cockpit must be isolated and fitted with non-return valves at the fuel tank.

#### **Exhaust and Silencing**

43. The orifices of the exhaust pipes must be between 100mm and 450mm above the ground.
44. Exhaust gas may only exit at the end of the exhaust system.
45. All exhaust gasses including wastegate outlet must pass through the main exhaust system.
46. No part of the chassis may be used to evacuate exhaust gases.

#### **Weights**

47. The weight of the car is measured with the driver on board wearing their full racing apparel, and with the fluids remaining at the moment at which the measurement is taken.
48. The minimum weight must be:
  - 4 Wheel Drive 1300kg
  - 2 Wheel Drive 900kg.

## CHAPTER 16 AUTOCROSS AND RALLYCROSS

### PART C OFF ROAD RACING

#### APPENDIX 12

##### Off-Road Racing Specific Regulations

This Appendix must be read in conjunction with [PART A](#) and [PART B](#) of this Chapter.

##### Off-Road Racing

1. Off-Road Racing, which includes Cross Car ([Art.11 below](#)) and similar **Events** can only take place on a circuit complying with **ASN Regulations**.
2. The maximum number of **Vehicles** that can start a **Race** is limited to 12.
3. **Events** must comply with the provision for **Rallycross** particularly in relation to medical requirements.
4. Vehicle regulations must be laid down by the organising Clubs and approved by the **ASN**.
5. Competitors must comply with [Chapters 6, 14](#) and [15](#) and with the **Official Documents** issued for the **Event**.
6. **Vehicles** must remain in the **Paddock** when not competing.
7. **Vehicles** must not be driven in the **Paddock** or at any other time off the **Track** at a speed in excess of 5mph.
8. **Vehicles** must not be driven into the spectators' **Enclosure** at any time without the express permission of the **Clerk of the Course**.
9. Any **Driver** who has not previously competed over the course within the preceding four weeks must complete at least one observed practice lap in the vehicle to be raced.
10. For **Venues** authorised by the issued **Track licence (Rallycross)** to include **Joker Laps**, the **Joker Lap** may be used. **Judge(s) of Fact** must be appointed to oversee its use, [PART B App.6 Arts.5 – 6](#) apply.
11. **Cross Car (XC)** and **Cross Car Junior (XC Jnr.)** are rear engine 4 wheeled (2 wheel rear drive) single seater **Vehicles** with a multitubular **Spaceframe Chassis** which must have a safety cage as an integral part of the **Chassis**. The **ASN** have adopted the FIA technical regulation guidelines and these are available upon request.
  - a. **XC – Cross Car**. A **Competitor** may participate from their 16th birthday. The minimum **Vehicle** weight will be 400kg with a recommended vehicle power of 130hp.
  - b. **XC Jnr. – Cross Car**. A category reserved for **Drivers** having reached the year of their 14th birthday and who may continue until 31st December of the year of their 16th birthday. The **Vehicle** power will be no greater than 75hp with a minimum vehicle weight of 385kg