



## **Sporting and Technical Regulations 2020**

**1. SPORTING REGULATIONS - GENERAL**

**1.1. Title & Jurisdiction:**

The 2020 MSV Trackday Trophy is organised and administered by **MotorSport Vision Racing** in accordance with the General Regulations of the Royal Automobile Club Motor Sports Association (incorporating the provisions of the International Sporting Code of the FIA) and these Series Regulations.

Series Permit: RS2020/060

Race Status: Interclub

**1.2. Officials:**

1.2.1. Series Co-ordinator: Stuart Garland

1.2.2. Series Scrutineer: Graham Bahr

1.2.3. Deputy Series Scrutineer: Nigel Thorne

1.2.4. MSVT Technical Assistants: Stuart Garland, Sophie Johnston

1.2.5. Series Stewards: Greg Masters, Bill Shewan, Mike Dixon,

Any three of the above may reach a decision.

1.2.6. Clerk of the Course: Barry Morris

**1.3. Competitor Eligibility:**

1.3.1 Entrants must:

- (a) be fully paid up valid membership card holding members of MSVR and
- (b) be Registered for the Series and
- (c) be in possession of a valid Motorsport UK Entrants Licence.

1.3.2 Drivers and Entrant/Drivers must:

- a) Be current Members of MSVR and
- b) be Registered for the series and
- c) be in possession of valid Competition (Racing) Nat B status Licence, as a *minimum* or
- d) A professional driver, in possession of a valid Licence (featuring an E.U. flag) and medical, issued by the ASN of a member country of the European Union, or comparable country. ((H)26.2.1. applies)
- e) \*If participation in the Series requires absence from education a driver, in full time school education is required to have the approval of their head teacher and a letter stating such approval from their school in order to fulfil registration for the Series. A driver shall not take time out of their education to participate in motor sport without the prior written approval of their education establishment.

1.3.3. All necessary documentation must be presented for checking at all rounds when signing-on.

1.3.4 Membership of MSVR is free on entry into an event.

1.4. **Registration:**

1.4.1. All teams must register to compete in the series online at:

<https://raceregister.motorsportvision.co.uk/>

1.4.2. The Registration Fee is £150 - payable via the MSV Trackday Trophy website.

1.4.3. Registrations will be accepted from 6<sup>th</sup> January 2020 until the closing date for entries to the final round.

1.5. **Rounds:**

The **MSV Trackday Trophy** will be held over multiple races at a selection of 2018 MSVR race meetings. Full details and a race calendar can be found at [www.trackdaytrophy.co.uk](http://www.trackdaytrophy.co.uk).

1.6 Scoring – Track Day Trophy is a Series of standalone races

1.7 **Awards**

1.7.1 Awards will be provided by MSV

1.7.2 Per round, trophies to: 1<sup>st</sup> 2<sup>nd</sup> and 3<sup>rd</sup> in class.

1.7.3 Bonuses:

The Series Organising Club will endeavour to obtain sponsored awards or bonuses during the series and reserves the right to introduce same at any time without any obligation to distribute such awards retrospectively.

1.7.4 Presentations:

Winners Caps and Trophies are to be provided for presentation at the end of each race or at an end of the meeting presentation ceremony. Prize money and bonuses, if any, shall be posted to the Entrants within 10 days of the results of each round being declared final.

1.7.5 Entertainment Tax Liability:

In accordance with current government legislation, MSV Racing is legally obliged to withhold tax at the basic rate on all payments to non-UK resident sportsmen/women.

That is, those persons who do not have a normal permanent residence in the UK. The UK does not include the Isle of Man, Channel Islands or Eire. This means that, as the organiser, MSV Racing is required to deduct tax at the current rate applicable from any such payments they may make to non-UK residents.

Under certain circumstances, it may be possible for competitors to enter into an agreement with the Inland Revenue to limit the tax withheld. Any application for such an arrangement must be made in writing and not later than 30 days before the payment is due.

For further information contact:- The Inland Revenue, Foreign Entertainers Unit, Centre for Non-Residents, St John's House, Merton Road, Merseyside L69 9BB.  
Tel: 0151 472 6488 F 0151 472 6483.

1.7.6 Title to all Trophies:

In the event of any Provisional Results being revised after any provisional presentations and such revisions affect the distribution of any awards the Competitors concerned must return such awards to the Series Coordinator in good condition within 7 days.

**1.8 Team Radios**

1.8.1 In the interest of safety, team radios are permitted (Motorsport UK Regulation Q8.1.10). The transmission of technical data and information related to the performance of the driver and or car however, is prohibited.

1.8.2 The driver/team will at all times comply with the terms and conditions specified from time to time by Ofcom and other official bodies (e.g. an airport authority) for the use of their frequency. (Motorsport UK Regulation Q8.1.10)

**2 SERIES EVENT MEETINGS & RACE PROCEDURES**

2.1.1 Competitors are responsible for sending in correct and complete entries with the correct entry fee prior to the closing date for entries before each event.

2.1.2 Incorrect or incomplete entries (Including Driver to be Nominated Entries) are to be held in abeyance until they are complete and correct and the date of receipt for acceptance of entry purposes shall be the date on which the Meeting Organiser receives the missing or corrected information or fee.

2.1.3 Any withdrawal or Entry or Driver/Car changes made after acceptance of any entry must be notified to the Meeting Organisers in writing. D25.1.12. applied

2.1.4 The Entry Fee for each event shall be specified in the SRs and on the entry form.

2.1.5 Reserves will be listed in the Final List of Entries published with Final Instructions or in a Bulletin; all reserves will practice and replace withdrawn or retired entries in Reserve Number order irrespective of class. If any Reserves are given Grid Places prior to issue of the first Grid Sheets for any round the times set in practice shall determine their grid positions. If Reserves are given Grid Places after publication of the Grid Sheet and prior to cars collecting in the Official "Assembly Areas" they will be placed at the rear of the Grid and will be started WITHOUT any time delay. Otherwise they will be held in the pit-lane and be released to start the race after the last car to take the start has passed the start line or pit-lane exit, whichever is the later. Such approval to start MUST be obtained from the Clerk of the Course.

**2.1.6 Cancellations and refunds**

- If a race entry is withdrawn, no refunds will be offered. However, if a withdrawal is received by the Series Organiser 14 days prior to the race, a credit will be offered towards the next race. This credit is also available to be used towards other MSV

## 2020 MSV Trackday Trophy Sporting & Technical Regulations

products. In any case, a £20 administration charge will be incurred. Withdrawals made within 14 days of a particular race will not be subject to any credit being offered.

- No refunds or credits can be offered for Trackday Trophy registration packs.
- MSVR may cancel, postpone or alter any Date(s) or Track Time of the Event(s) in accordance with the requirements of any Governing Body and whether for reasons of Force Majeure or otherwise. In the case of cancellation or postponement, MSV shall notify the competitor of any such cancellation or postponement as soon as reasonably practicable. MSVR reserve the right to reduce Track Time during the course of the event, whether for reasons of Force Majeure or otherwise, without any repayment to the competitor.

### 2.2 Briefings:

MSVR will notify Competitors of the times and locations for all briefings in the Final Instructions for the meetings. Competitors must attend all briefings.

### 2.3 QUALIFICATION PRACTICE:

2.3.1 Should any Practice session be disrupted the Clerk of the Course shall not be obliged to resume or re-run the session; the decision of the Clerk of the Course shall be final.

2.3.2 Each driver shall complete a minimum of 3 laps in the car to be raced, and in the correct session, in order to qualify (Motorsport UK Regulations Q4.5).

### 2.4 Races:

Should any race be disrupted the Clerk of the Course shall not be obliged to resume or rerun the race ((Q)5.4.) (1.6.4. above applies)

2.4.1 The minimum scheduled distance shall be 45 minutes whenever practicable but should any race distance be reduced at the discretion of the Clerk of the Course or Stewards of the Meeting it shall still count as a full and valid race.

2.4.2 Each car will make a mandatory pit stop which must be a minimum of two minutes in length. This will be timed from the entrance of the pit lane to the exit of the pit lane. These points will be indicated by boards in the pit lane indicating the start of the pit lane speed limit and the end of the pit lane speed limit.

The mandatory pit stop must be between 15 & 30 minutes after the start.

2.4.3 In all cases seat belts must not be loosened or unfastened before the car comes to a complete stop and must be securely fastened before the car moves off.

2.4.4 Failure to make a pit stop during the Pit Stop Window will result in a Stop & Go penalty. Failure to make a mandatory pit stop will result in exclusion from the race results.

2.4.5 Cars which require mechanical assistance to re-join the circuit will, at the sole discretion of the Clerk of the Course, be permitted to re-join the race. Cars pushed by hand by the marshals will be permitted to continue.

2.5 **Starts:**

2.5.1 All race start countdowns are to have a minimum elapsed period of 3 minutes from the time all cars are released to form up on the grid to the start of the race.

2.5.2 The minimum Countdown procedures/audible warnings sequence shall be:-

Standing Start

Start Procedure: In normal circumstances there will not be a green flag/formation lap. The organisers may vary the start procedures at any point prior to a race by issuing a series bulletin

1. There will be a minimum elapsed period of 3 minutes from cars being released from the Assembly Area to the start of the race;

2. A 'one minute' board will be shown on the start line; engines should be started at this stage. A '30 second' board will be displayed followed by a '5 second' board;

3. Approximately 5 seconds after this board is withdrawn the red lights will be switched on; after between 2 seconds and 7 seconds they will be switched off to start the race.

**Any change in the above procedure will be detailed in Final Instructions, by bulletin or by drivers briefing.**

2.5.3 The use of tyre heating/heat retention devices, tyre treatments and compounds is prohibited.

2.5.4 Any cars removed from the grid after the 1 minute stage shall be held in the pit-lane and may start the race after the last car to take the start from the grid has passed the start-line or pit-lane exit, whichever is the later.

2.5.5 Any drivers unable to start are required to indicate their situation as per Motorsport UK Regulation Q 12.13.2.

2.5.6 In the event of any starting lights failure the Starter will revert to use of the National Flag.

2.6 **SESSION RED FLAG**

Should the need arise to stop any race or practice, RED LIGHTS will be switched on at the Startline and RED FLAGS will be displayed at the Startline and at all Marshals Signalling Points around the Circuit.

This is the signal for all drivers to cease circulating at racing speeds, to slow to a safe and reasonable pace and to return to the pit lane, during practice, and to the starting grid area, during a race, unless otherwise directed by officials.

Cars may not enter the Pits unless directed to do so. Work on cars already in the Pits must cease when a race is stopped.

**2.7 Pits, Paddock & Pit-lane Safety:**

2.7.1 Pits & Paddock: Entrants must ensure that the Motorsport UK, Circuit Management and Organising Club Safety Regulations are complied with at all times. The onus shall be on all drivers to ensure safe working practices are adhered to (in line with the event supplementary regulations) both in the pit lane and paddock during the course of the race weekend.

2.7.2 Pit-lane: The outer lane or lanes are to be kept unobstructed to allow safe passage of cars at all times. The onus shall be on all Drivers to take all due care and drive at minimum speeds in pit lanes.

2.7.3 Refuelling: May only be carried out in accordance with the Motorsport UK General Regulations, Circuit Management Regulations and the SRs or Final Instructions issued for each Circuit/Meeting. Refuelling is not permitted during qualifying or the race.

2.7.4 Speed Limit: Pit Lane Speed Limit will be 60 km/h

**2.8 Race finishes:**

After taking the Chequered Flag drivers are required to:

- I. progressively and safely slow down
- II. remain behind any competitors ahead of them,
- III. return to the Pit Lane Entrance/Paddock Entrance as instructed,
- IV. comply with any directions given by Marshals or Officials
- V. keep their helmets on and harnesses done up while on the circuit or in the pitlane.

2.8.1 Parc Ferme: After each qualifying session and race the vehicles must be presented directly for scrutineering. Any area deemed by the licensed Eligibility Scrutineer and/or his nominated representative will be subject to Parc Ferme conditions with no exceptions. This will include the track from the track to the finish line to the scrutineering area, the waiting area in front as well as the track from the scrutineering area to the Parc Ferme, but all areas may be used as necessary. Team personnel must not enter Parc Ferme unless invited by the Series Eligibility/Safety Scrutineer.

**2.9 Results:**

All Practice Timesheets, Grids, Race Results are to be deemed PROVISIONAL until all vehicles are released by Scrutineers after Post Practice/Race Scrutineering and/or after completion of any Judicial or Technical Procedures. (Motorsport UK regulation D26.3)

**2.10 Timing Modules**

2.10.1 All competitors will be required to fit Electronic Self Identification Modules to their cars for the purposes of accurate timing. It will be the responsibility of the competitor to fit these in the car in the position and manner specified. The Modules must be in place and functioning correctly for all qualifying practice sessions and races. The setting and servicing of these items must only be carried out by properly authorised Motorsport UK licensed Timekeepers. Timing Modules are available to hire from MSV. Competitors will be charged for replacement of the Modules due to damage or loss.

## 2020 MSV Trackday Trophy Sporting & Technical Regulations

2.10.2 Competitors may not place electronic timing equipment within five metres of the official Start, Finish or any other official timing lines at any event or test session/day. Any such equipment placed within these zones will be removed.

2.11 Intentionally left blank.

### 2.12 **Operation of Safety Car**

The Safety Car will be brought into operation and run in accordance with Section Q, Appendix 2 of the Motorsport UK General Regulations.

### 2.13 **ONBOARD CAMERAS**

2.13.1 Competitors must fit cameras that should capture an image that provides a “drivers eye” view that should include the steering wheel, dashboard and a view of the circuit ahead with a field of vision approximately 100 degrees.

2.13.2 The choice of system is free but playback must be possible at the event by regular means such as a laptop.

2.13.3 Where no judicial process has been instigated the competitor may not review the footage until the protest time (see Motorsport UK Regulation C5.2.1) has elapsed without the express permission of the Clerk of the Course.

2.13.4 In the event that no images are available upon request (other than due to a proven defect with the equipment), sanctions may be applied in accordance with Motorsport UK Regulation C2.1.1. The burden of proof to establish the cause of such failure shall lie with the competitor. The Clerk of the Course may also refer the matter of lack of recorded images to the Stewards of the Meeting for further sanctions.

2.13.5 All rights including copyright in relation to footage captured by on board cameras, no matter that the camera is owned by the competitor, will belong to the Organiser and/or Venue Owner/Operator and may not be shared or otherwise used for broadcast or commercial purposes or on social networking sites, forums or any other internet media without permission of the Organiser and/or venue owner/operator.

2.13.6 Where it is necessary for the Clerk of the Course to review footage after an event that such footage should normally be reviewed within a period of 7 days of the event.

2.13.7 Any breach of camera regulations should be subject to penalties provided for in Motorsport UK regulation C2.1.1 with an option to report any matters to the Series Stewards.

2.13.8 In the event of judicial action, all relevant on board footage must be retained until the time period for all judicial matters has elapsed. The competitor is responsible for carrying and fitting an alternative memory card should one be needed whilst this activity is completed.

## 3. SPECIFIC SERIES REGULATIONS

### 3.1 **MSVT Novice Class**

3.1.1 All MSVT Novice classed cars must fall under 175bhp/ton

3.1.2 All entries must be eligible to display an Motorsport UK novice racing sticker and therefore each team must consist of at least one novice racing driver (competed in less than 6 races before). This does not preclude more experienced teams from



entering as long as one driver is classified as a novice.

3.1.3 Cars with sequential gearboxes (eg: any vehicle without a H-pattern box) are not permitted to compete in the Novice Class.

3.1.4 All cars must conform to the technical regulations covered from point 5 in this document

#### **4 SPECIFIC SERIES PENALTIES:**

In accordance with Section C of the current Motorsport UK Yearbook and these regulations.

##### **4.1 Infringements of Technical Regulations:**

4.1.1 Arising from post practice Scrutineering or Judicial Action:

Minimum Penalty: The provisions of Motorsport UK Regulations: C 3.3.

4.1.2 Arising from post race Scrutineering or Judicial Action:

Minimum Penalty: The provisions of Motorsport UK Regulations: C 3.5.1 – C 3.5.2

For infringements deemed to be of a more serious nature the Clerk of the Course and/or Stewards of the Meeting are to invoke the provisions of Regulation C 3.5.1 (c).

##### **4.2 Additional specific series penalties:**

4.2.1 In order to maintain standards of conduct, the series coordinator will monitor all officials / observers reports of adverse behaviour at race meetings. If any individual is included on such reports during competition the series coordinator will notify the organisers who will issue a warning letter that his / her driving behaviour is to be specifically observed at future race meetings. Adverse second such report during this period of observation may result in a formal warning being issued. Further reports may be referred to the Series Stewards for consideration of further sanctions including but not limited to possible refusal of further race entries or other sanctions as seen fit.

4.2.2 The Clerk of the Course may impose a Stop & Go or Drive Through penalty for infringements of the regulations in accordance with Motorsport UK Regulation Q 12.6 (a.-h.).

4.2.3 The Clerk of the Course may impose a grid position penalty for the next race or races of the Series for infringements of the regulations.

4.2.4 The Clerk of the Course may impose such penalties as appropriate according to the powers granted to him in G 5.3

#### **5 TECHNICAL REGULATIONS**

##### **5.1 Introduction:**

The following technical regulations are set out in accordance with Motorsport UK specified format and it should be clearly understood that if the following texts do not

## 2020 MSV Trackday Trophy Sporting & Technical Regulations

clearly state that you can do something you should seek clarification from the series organisers prior to making any changes.

The organisers reserve the right to modify these series regulations as appropriate to ensure close competitive racing at all times.

Exceptions to the Technical Regulations may be made providing they are:

- Approved by the series organisers and scrutineers in advance.
- In keeping with the spirit of the series (modifications made during the course of the season that give a significant performance advantage at a high financial cost will almost certainly be illegal).

If your vehicle does not conform to a specific regulation, please email [regs@msv.com](mailto:regs@msv.com) prior to the closing date for race entries with a detailed description of the part of your vehicle in question. Please include photos and any other information that might be relevant so that we can review your entry accordingly.

In any case, all Motorsport UK safety requirements must be adhered to as specified in the blue book.

### 5.2 **Description:**

The MSVT Trackday Trophy is for Competitors participating in Production and Production based Saloon, Hatchback and Sports cars.

Vehicles of commercial type, such as a van/pick-up which were initially intended solely for commercial or goods carrying, are also permitted to take part in the series.

Four Wheel Drive is not permitted.

The responsibility to prove eligibility is that of the entrant at all times. The series organisers in conjunction with the Series Scrutineer shall determine matters as to the eligibility and the implementation which may involve photographing any part of the vehicle and performing electrical diagnostics at the scrutineers discretion.

Guest entries will only be confirmed 2 weeks prior to a race weekend. Entries may be made before this time however should a grid be full with cars complying with regulations, guest entries will be removed from the grid and placed as a reserve. For avoidance of doubt, if multiple guest entries are received prior to this time, guest entries will be removed from the grid in reverse order of booking.

Guest cars will be classified in the overall results (not by class), but not be awarded trophies.

Guest cars must also fully comply with section 5.2 of these regulations.

All entries are at the discretion of the Series Organisers.

### 5.3 **Classes**

Cars will run in four classes based on power to weight ratio of the vehicle, with an additional class for Novice Open Class. The class structure will be as follows but may be subject to change depending on entries.

## 2020 MSV Trackday Trophy Sporting & Technical Regulations

Class B: 151 – 175 bhp/tonne  
Class C: 126 – 150 bhp/tonne  
Class D: Up to 125 bhp/tonne

Novice Open Class up to 175 bhp/tonne – additional specific regulations 3.2

Guest Class: Any other Production and Production based Saloon, Hatchback and Sports car that the organisers have given permission to join the Series or single events.

All vehicles entering the series must be power tested prior to their first event by Total Track Ltd who run the MINI CHALLENGE Championship. The test will measure power at the hubs.

Tests will be scheduled at 3 pre-season power testing days at 3 MSV circuits and on the Friday before a selection of race meetings. The dates for these will be communicated to competitors by MSV. The cost of these power tests will be £99 inc VAT. Repeat tests will also be charged at £99 inc VAT.

If you are unable to attend a scheduled power testing day, you may arrange a test at Total Track's premises as detailed below. These tests will be charged at £149 inc VAT. Repeat tests will also be charged at £149 inc VAT.

Testing at Total Track's premises must be pre-booked by email, if competitors arrive unannounced they will be turned away.

Total Track Ltd  
Unit 1 Roy Humphrey Estate  
A140 Norwich-Ipswich Road  
Eye  
Suffolk  
IP23 8AW

E-mail: [dyno@minichallenge.co.uk](mailto:dyno@minichallenge.co.uk)  
Tel: 01379 870 099

You must provide MSVT with the "Performance Certificate" prior to your first race meeting and must provide a revised certificate should you make any changes to your powertrain package.

The operator of the power testing equipment (Total Track) shall be a judge of fact under the event regulations.

Following Qualifying and Race sessions, the operating area for the power test, will be treated as parc ferme and will be subject to parc ferme conditions. For the avoidance of doubt, this includes the route from the pit lane or parc ferme to the power testing area/location, and route back from the power testing area/location to the main parc ferme area/location.

**Power testing procedure (procedure to be the same at Total Track Ltd premises or at each event at circuit):**

1. Car owner/operator will be asked to confirm all coolant, oil and fuel levels are correct and fine before fitting car to Dynapack. Car will be fitted using 4 or 5 stud wheel adaptors. Cars running Single hub nuts & wheels will need to contact Total Track Ltd to confirm suitable fitting attachment is available for testing before bringing the car to test. An additional charge will be made to cover cost of adaptor.
2. Car will be run until normal coolant operating temperature is reached and oil temperature (where measured) is minimum 50 Deg C
3. Car must run with bonnet or engine covers down as per how it would be on track
4. Power run settings will be as follows
  - Car must be tested in a gear that exceeds 150KPH before the test finishes based on theoretical gearing calculations. A default gear of one below top will be used as a default.
  - Hold between 2750 and 3250RPM for 4 seconds to stabilize the dyno and engine load
  - Power will be tested to the rev limiter
  - The power run test will be set at an acceleration rate of 500RPM per second e.g. 3000rpm to 8000rpm will be approximately 10 second test
  - The car will be tested 3 times to provide a heat soaked condition for real world measuring. The highest power reading will be used to calculate the power to weight ratio for calibration tests, whereas post race/qualification the middle reading will be used.
  - Should the power testers deem in necessary, additional power runs may be completed. Additional runs will be conducted at the testers discretion
  - Application of a tolerance of 2% to reflect real world conditions will be at the pure discretion of the Meeting Organisers and Total Track Dyno operators.
5. Car will be allowed to cool down until owner/operator is satisfied that the engine can be shut off.

Once the car has been tested the driver/team will sign the “dyno agreement form” confirming that they agree the test has been conducted per these regulations, before the car is released from the testing area. Failure to do this may result in further testing of the vehicle, of the vehicle being impounded by the Clerk of the Course or the Eligibility Scrutineer for further interrogation, including but not limited to external testing by the dynapack UK distributor.

Where the conclusion of the further interrogation/power testing confirms non-compliance, the entrant shall be responsible for all costs and fees arising from the interrogation/power testing procedure

**Dynapack Dyno Calibration:**

The Total Track Ltd dyno will be serviced, maintained and calibrated in accordance with Manufacturers specifications. Accuracy of torque/power measurement to be maintained within the 0.5% accuracy tolerance allowed.

The correction factor for all dyno tests will be "SAE adaptive".

PLEASE NOTE: All vehicles must be tested between 1<sup>st</sup> February 2020 and the day prior to the last race meeting. Any dyno reports conducted before this time will not be valid for the 2020 season.

All vehicles must be fitted with a rev limiter.

All vehicles must be under the maximum power to weight ratio as specified by MSV. The organisers reserve the right to alter a competitor's class (based on performance). In any case, a competitor will be informed of the class change prior to the race. Should Total Track be unable to conduct power tests for a prolonged period, (or in the case of force majeure), the organisers reserve the right to allow power testing at AET Motorsport, Beckbridge Rd, Normanton WF6 1TE. This may only take place with prior written consent from the championship organisers.

PLEASE NOTE: At some rounds, competitor's vehicles may be weighed and tested for their power output at the hubs.

#### 5.4 **Presentation**

Cars must be presented to a high standard. Unpainted panels, unrepaired damage or cars not achieving a satisfactory level of preparation and presentation, as judged by the series scrutineer, may receive a warning and may ultimately result in exclusion.

Presentation for a vehicle for scrutineering is a declaration by the entrant that the vehicle is eligible for that event and fully complies with the series regulations.

#### 5.5 **Safety Requirements:**

The following Articles of Motorsport UK Blue Book 'Section K Competitors: Safety' regulations are highlighted as being applicable (but not to the exclusion of any other) Motorsport UK General Regulations that automatically apply – see 5.1.2 above):

K 1.2.1 & K 1.2.2 , – ROPS (Roll over protection systems) general safety specifications

K 1.2.3, - ROPS, compulsory diagonal bar

K 1.3.5 – ROPS, optional reinforcement

K 2.1.2 - K 2.1.4 - Seat belts, 4, 5 and 6 point harnesses

K 3.1 - Fire extinguisher, Appendix 1, Table 3 , references (3.1.2 a) &/or (3.1.2 b) apply

K 5.1 & K 5.2, - Red warning light

K 6, - Fuel tanks & fillers

K 8 , - External circuit breaker (see also G120 & 121)

K 9 – Race Overalls (in particular, K 9.1.1)

K 10 – Crash helmets

K 13, - Head restraints

A link to the 2020 Motorsport UK Competitors & Officials Yearbook can be found here: <https://www.motorsportuk.org/News-Publications/Publications/Yearbook>

#### 5.5.1 **Safety Harnesses**

In order to maintain the integrity of the harness system in the event of an accident, it is recommended that these should be a minimum of five-point attachment, in accordance with Q 19.14.2.

## **5.5.2 Seats**

It is strongly recommended that seats have side wings or side head restraints to take into account lateral forces.

## **5.6 General Technical Requirements & Exceptions**

All vehicles must comply with the relevant sections of the 2020 Motorsport UK Yearbook Section J and Section Q (Tech Regs) up to and including Q 19.16

5.6.1 Competitors registering in this Series do so in the full knowledge that the organisers reserve the right to require the Series Scrutineer to carry out, record and enforce eligibility checks which may include the sealing of component(s) for subsequent checking. The costs of such checking shall be borne by the series organisers but the organisers shall not be liable for the costs of stripping or reassembly or rebuilding of vehicles after the checks have been carried out.

5.6.2 Advertising on vehicles is subject to requirements set out in Motorsport UK Yearbook Q 19.2.2 and H 28 & H 29 in particular. For the avoidance of doubt, use of the side windows of the vehicle for advertising is strictly prohibited.

5.6.3 All vehicles must comply with Motorsport UK General Technical Regulations and the relevant parts of the Motorsport UK Yearbook except where specified below.

5.6.4 Vehicles must be fitted with at least two externally mounted rear view mirrors.

5.6.5 Engines may be sealed at any time by a Licensed Eligibility Scrutineer and only by written permission in advance from the series organisers or series Eligibility Scrutineer may seals be broken.

5.6.6 The Car Specification elements of the Series Registration documents must be fully completed and will form part of a declaration of the cars suitability to align with this series. This document should be with the car when presented for scrutineering.

5.6.7 If a workshop manual or manufacturers specification sheet specifically for the model being raced is not available, then a manual for the standard version of the vehicle with any other relevant supplementary information to prove the authenticity of the up rated model would be acceptable. The onus is on the entrant to prove eligibility of the model.

## **5.7 Chassis:**

5.7.1 Chassis and chassis members must remain as originally manufactured and lightening or reducing of chassis or chassis member strength is prohibited save that the spare wheel well may be removed for the sole purpose of the fitting of a fuel tank in the boot area. A steel plate of at least the thickness of the metal removed must cover any remaining aperture.

5.7.2 Addition of material to strengthen the chassis and seam welding is permitted.

5.7.3 Minimum ground clearance is 40mm excluding exhaust systems.

5.7.4 All cars must retain the standard floor pan.

**5.8 Bodywork:**

5.8.1 Bodywork must be complete and standard in shape and silhouette, material and thickness on all exterior surfaces except that bonnets, doors, boots and spoilers may be replaced with lightweight replicas and any non metallic panel may be replaced with a fibreglass replica. In the case of a hatchback the hatch may be fibreglass.

5.8.2 Aerodynamic devices are permitted, providing that they comply with the provisions set out in Appendix J of the Motorsport UK Yearbook (particularly J5.20.10 & J5.20.11) in terms of fixed rear wings, rear diffusers and front splitters only. It is implicit that these devices must be approved by the scrutineers. Active aero/DRS systems are not permitted.

5.8.3 A "roof scoop" may be allowed for the purpose of ventilation for the habitable.

5.8.4 Modifications to the silhouette may be permitted subject to all of the following conditions:

Such modifications are:

- Fitted for safety or efficiency (for example to aid cooling of either the interior cabin or engine bay without a significant performance advantage)
- Approved by the series organisers and scrutineers in advance.
- In keeping with the spirit of the series (modifications that give a significant performance advantage at a high financial cost will almost certainly be illegal or outlawed in future regulations).

5.8.5 Headlights can be removed but must be replaced with blanking plates in order to retain the existing, exterior shell of the vehicle. All modifications must also comply with the regulations relating to presentation. Any replacement panels must be securely fixed.

5.8.6 The removal of exterior decorative strips and bumper overrides is permitted. Reworking or modification to exterior bodywork is prohibited but any part of the arch/wing pressing folded into the wheel arch may be deformed, but not removed, to give clearance to the tyres. Any item below the centreline of the wheel must not project beyond a line drawn at 45 degrees to the horizontal and tangential to the bodywork (not including overrides).

5.8.7 All internal panels and subassemblies must remain as originally manufactured, save that interior door cards may be removed or replaced subject to meeting Motorsport UK requirements. Strengthening is permitted. Battery trays and their supports may be removed.

**5.9 Interior:**

a. These regulations require the retention of the dashboard. In the habitable, floor carpets, under felt, sound deadening, headlining, front and rear parcel shelves, centre consoles, the front passenger and rear seats and trim in the boot/luggage compartment may be removed.

## 2020 MSV Trackday Trophy Sporting & Technical Regulations

b. Instrumentation is free, however a working and accurate tachometer (rev counter) must be fitted.

c. All windows are free. However, competitors must provide a method for ventilating their vehicle.

d. Driver's seat is free subject to Motorsport UK requirements and the driver must be located entirely to one side of the centre line of the car.

e. Heaters and interior ventilation systems may be removed. Adequate ventilation must be provided in order to facilitate windscreen demisting.

5.9.1 The original boot and bonnet hinges and fasteners may be removed and are free but the original bonnet and boot shut lines must be as in production.

### **5.10 Engine:**

5.10.1 All entries must be powered by a production car engine originally available through normal commercial channels of a car manufacturer in quantities of not less than 1000 units within 12 consecutive months that is fitted in the original location with a rev limiter.

5.10.2 Induction - air filter and air filter box may be removed and air ducting/trunking is free provided it does not extend beyond the periphery of the bodywork. Anti surge pipes are permitted as also are return pipes from the carburettor/injection system.

Forced induction is only permitted on engines which were originally supplied as forced induction by the manufacturer. Turbochargers, superchargers and related components may be sealed by scrutineers, where this has been the case seals may not be broken without permission in writing by the Championship Organisers. Damaged, missing or broken seals, may cause a component to be judged non compliant.

Forced induction vehicles are subject to the correct penalty ballast being applied. For vehicles under 2000cc, 30kg penalty ballast must be applied. This shall increase by 20kg for every 500cc over and above 2000cc i.e. - Up to 2000cc = 30kg, 2001-2500cc = 50kg, 2501-3000cc = 70kg, etc.

Forced induction penalty ballast must not be included in the weight declared for class eligibility and cannot be absorbed within the mass of the vehicle. All ballast must be clearly labelled, securely fitted by at least four M8 bolts in the passenger foot well or passenger seat position and be visible for inspection at any time – (References Motorsport UK Yearbook Regulations J. 5.15.1 – 5.15.4).

Boost pressure must not be adjustable from within the habitable nor be adjustable remotely. Regulations dictate that it shall be the standard production or homologated component and must not be modified save for the fitting of a 360 degree thrust bearing to improve reliability. The organisers reserve the right to introduce or modify requirements for forced induction engines.

5.10.3 Oil coolers and additional water radiators are permitted provided they are located within the periphery of the bodywork.

5.10.4 The exhaust system is free subject to Motorsport UK requirements.

5.10.5 Inlet and exhaust manifolds are free.



## 2020 MSV Trackday Trophy Sporting & Technical Regulations

- 5.10.6 It is permissible to remove metal from original cylinder blocks and heads.
- 5.10.7 Fuel pumps and fuel tanks are free subject to Motorsport UK requirements.
- 5.10.8 All other engine components are free.
- 5.10.9 Engine Sealing: Wire or paint may be used. To allow for scrutineers wire seals, every installed engine must have 1/16" holes drilled in readily accessible locations:  
A - Sump: Cross drilled through two adjacent retaining screws or studs.  
B - Rocker/cam cover: Cross drilled through two adjacent retaining screws or studs.  
C – Gearbox: Cross drilled through two adjacent retaining screws or studs
- Damaged, missing or broken seals, may cause a component to be judged non compliant
- 5.10.10 Engines may be sealed from the car's first event. Thereafter the seals must be in place at all times. If a seal needs to be removed for any reason, the entrant must inform the series scrutineer who will then re-seal at the first opportunity.
- 5.10.11 The organisers reserve the right to request a competitor to carry out a rolling road analysis of the vehicle at a rolling road specified by the race organisers at the competitor's expense.
- 5.10.12 Vehicles that have variable engine mapping or boost controls (turbo or supercharged vehicles) are only permitted to use the settings the vehicle was set to when tested for the mandatory pre-season dyno run. Controls within the cabin which can affect engine output/performance (whether in operation or not) are prohibited. For the avoidance of doubt series regulations cover all practice, qualifying and race sessions at all times during the entire race event - References Section (J. 3.1.3.)
- 5.10.13 Modification or exchange of the engine, gearbox or any component; or the breaking of any engine or gearbox seal, is prohibited. If for any reason the Modification or exchange of the engine, gearbox or any component; or the breaking of any engine or gearbox seal is required, pre-authorized by the organisers and/or eligibility scrutineer must be requested formally in writing prior to work being started and confirmed on completion with a new eligibility power graph for that vehicle.
- 5.10.14 Water/Methanol injection is prohibited in all forms.
- 5.11 Fuel:**
- 5.11.1 All fuels listed in Motorsport UK competitor's yearbook 2020 as pump fuel are acceptable subject to a 100ron maximum octane rating.
- 5.11.2 The organisers reserve the right to request fuel for sampling at any point during an event weekend.
- 5.11.3 Where the conclusion of the fuel testing procedure confirms non-compliance the entrant shall be responsible for all costs and fees arising from the testing procedure. Motorsport UK Yearbook Section D 34.6
- 5.12 Suspension:**

5.12.1 Modification to the suspension is subject to the following conditions:

The spring and damper configuration and all of the original mounting points must be retained and used in the operation of the suspension except that coil over dampers may be used with adjustable spring platforms.

5.12.2 Dampers are free providing they are mounted on the original mounting points.

5.12.3 Anti roll bars and their mountings and shape and material are free providing they fit directly on to the original body/chassis mounting points and the mobile suspension units. No other additional suspension components are permitted.

**5.13 Transmission:**

5.13.1 Transmission is free subject to Motorsport UK requirements.

5.13.2 Cars with sequential gearboxes (eg: any vehicle without an H-pattern box) will remain in their relevant class based on power-to-weight, but must carry a "sequential box penalty ballast" of 30kg. Sequential gear box penalty ballast must not be included in the weight declared for class eligibility. All ballast must be clearly labelled, securely fitted by at least four M8 bolts in the passenger foot well or passenger seat position and be visible for inspection at any time – (References section J. 5.15.1 – 5.15.4).

**5.14 Electrical:**

5.14.1 Electrical equipment is free provided that a generator, battery and starter are fitted and in full working order at all times.

5.14.2 High intensity rear light and windscreen wiper to Motorsport UK requirements must be fitted and in full working order.

5.14.3 The presence of an aftermarket ECU must be highlighted to the Series Organisers at the point of annual Registration (or immediately upon the items introduction), along with manufacturer details and model numbers. If present, the competitor must provide a laptop and cable to allow the eligibility scrutineer access into the files within the ECU. Failure to provide access into an aftermarket ECU at the request of the eligibility scrutineer may result in exclusion.

5.14.4 ECU's are not permitted to hold multiple maps or multiple engine modes, and must retain the unmodified settings that the vehicle was set to when tested for the mandatory pre-season dyno run.

5.14.5 No ECU or other engine control system, may be adjustable from within the habitable, nor automatically whilst the vehicle is in motion, nor be adjustable remotely via any source.

5.14.6 All ECU's are subject to interrogation at the request of the eligibility scrutineers.

**5.15 Brakes:**

5.15.1 Brake systems are free save that carbon or ceramic disks and ABS systems are prohibited unless fitted in production, in which case they must be to production

specification. Ducting for the purpose of cooling brakes or removing dust is permitted provided it is not visible outside the car, serves no other purpose and if beneath the car, does not project beyond a line drawn at 45 degrees to the horizontal and tangential to the bodywork (not including overriders). Modification or removal of brake back plates is permitted.

- 5.15.2 Brake lights must be operational and operated only by the brake pedal without a delay. The high intensity rear light must not be operated by the brake pedal.

**5.16 Wheels and Tyres:**

**5.16.1 Wheels:**

Wheel size and material is free. Centre locking wheels and their hubs are prohibited.

**5.16.2 Tyres**

Tyres must be from list 1a,1b or 1c from Motorsport UK list of eligible tyres, with the exception of motorsport class wets and full slick tyres which are not permitted.

Changing or swapping wheels/tyres is not permitted during qualifying or the race except in the case of force majeure (puncture, obvious damage).

**5.17 Weights:**

- 5.17.1 Weight is defined as the whole vehicle, including all consumables and fluids, at the end of each race entered, including the driver in full racing kit. The declared weight figure for eligibility must not include any success ballast or penalty ballast issued for forced induction, sequential gearbox or non conformance.

Penalty ballast cannot be absorbed within the mass of the vehicle, this ballast must be clearly labelled and be visible for inspection at any time – (References Motorsport UK Yearbook Regulations J. 5.15.1 – 5.15.4).

- 5.17.2 There is a minimum weight of 600kg at all times during competition. This includes the driver, normally seated with racing overalls and helmet. Cars under this minimum weight will only be permitted as guest entries at the discretion of the organisers.
- 5.17.3 The organisers reserve the right to increase or decrease minimum weight for eligible cars as appropriate.
- 5.17.4 These are true minimum weights with no tolerance and all cars must comply at all times. Ballast is permitted to achieve these minimum weights but weight may only be removed within the limits of the modifications detailed within these regulations.
- 5.17.5 Ballast must be securely attached within the vehicle and attachment bolts predrilled for the purpose of attaching scrutineers wire seals. The total weight of ballast carried, must be declared in the scrutineering log book and be in position at all times during practice and racing.
- 5.17.6 A maximum of 80kg ballast is permitted in the cars. For cars that have sequential gear boxes/forced induction, the mandatory sequential gear box and forced induction penalty ballast may be in addition to this.

5.17.7 All cars must comply with these weight limits irrespective of the year of manufacture and any other series regulations or waivers.

5.17.8 The organisers reserve the right to add success ballast to any vehicle seen to have an uncompetitive advantage over the rest of the field.

**5.18 Numbers and Series Decals:**

5.18.1 Race Numbers must comply with Motorsport UK Regulation Q11.4: 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

For vehicles with no rear side windows only; rear side numbers in compliance with Motorsport UK Regulation Q11.4 may be replaced with door numbers in compliance with Motorsport UK Regulation J4.1.

In addition, the windscreen of all cars 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.

5.18.2 All vehicles must display the series advertising material associated with a Series sponsor as required by the series. These stickers will be provided in your Registration Pack and replacements can be purchased at each round if required.

MSVT sticker on both sides of the vehicle  
MSVT Trackday Championship sticker on both sides of the vehicle  
MSVT Trackday Trophy sticker on both sides of the vehicle  
Alex Reade Motorsport visor strip on the front windscreen of the vehicle  
Class sticker on the rear of the vehicle and two on the front (one reversed)  
MSVR Sticker on both sides of the vehicle  
Dodo Juice, and Moores Motors sticker on both sides of the vehicle

5.18.3 Competition numbers will be obtained at the competitor's expense. One full set of championship decals will be supplied by MSVT. Replacement stickers are available at the cost of £1 per individual sponsor sticker.

5.18.4 Front and rear windows may be covered with championship or personal sponsor livery to a maximum depth of 250mm from the top of the window measured from the centre-line of the vehicle and must also comply with Q19.2.2. Where championship front or rear window decals are specified in 5.18.2, competitors may not additionally display personal sponsor decals in the position specified. The championship organisers reserve the right to supply and specify a championship front or rear screen strip at any time and this will require the removal of any existing personal sponsor decals in these positions.

Further sponsors may be added at a later date.

**6 APPENDICES:**

**6.1 Race Organising Contacts:**

Series Co-ordinator: Stuart Garland Email: [trackdaytrophy@msv.com](mailto:trackdaytrophy@msv.com)

Series Scrutineer: Nigel Thorne and Graham Bahr Email: [regs@msv.com](mailto:regs@msv.com)

**6.2 Commercial Undertakings:**

None

**6.3 Agreed Waivers:**

None.

**6.4 Log Books:**

A central logbook will be held by the eligibility scrutineer where specific eligibility infringements will be recorded and a copy issued to the entrant at scrutineering.