Chapter 17 Trials

App.1 Organisers Regulations
App.2 Competitors Regulations
App.3 Classic Reliability Trials Formula
App.4 Car Trials Formula
App.5 National Trials Car Formula
App.6 Historic Sporting Trials Car Formula
App.7 Charts and Drawings
CHAPTER 17 TRIALS

General

1. This Chapter must be read in conjunction as applicable with the following Chapters and which form the Trials 'Yearbook':
   1: General Governance
   2: Judicial Organisers
   4: Championships
   5: Officials
   6: Competitor Licensing
   7: Competitors Vehicles and Vehicle Safety Equipment
   8: Permitted Tyres and Fuel Testing
   9: Competitor Personal Safety Equipment
   10: Circuits and Venues
   11: Emergency Medical and Services

2. The format of this Chapter is identical to all Chapters. Each Chapter is supported by numbered Appendices with all elements variously separated and or grouped to provide a logical flow to the texts.

3. In the published texts there will be hyperlinks in blue font to other Chapters but not initially to Appendices.

4. All Chapters and all Appendices (to all Chapters) are numbered commencing at 1. Where applicable a numbered paragraph may be / is further divided by either alphabet sub-paras (i.e: a, b etc) or sub-numbered (i.e: i ,ii, etc).

5. This Chapter comprises:
   App. 1 Organisers Regulations
   App. 2 Competitors Regulations
   App. 3 Classic Reliability Trials Formula
   App. 4 Car Trials Formula
   App. 5 National Trials Car Formula
   App. 6 Historic Sporting Trials Car Formula
   App. 7 Charts and Drawings
CHAPTER 17 TRIALS

APPENDIX 1

General Organisers Regulations

Note: * indicates that additional information must be provided in the Official Documents for the Event.

1. A Regulation in italics indicates that the Regulation may not apply if so stated in the Official Documents for the Event.
2. A Permit for the organisation of a Trial is issued at the sole discretion of the ASN.
3. A Club will only be allowed to run Events up to Interclub status unless the ASN has specifically approved an application for National status.
4. Organisers intending to use any Forestry Commission property for Events must liaise with the ASN Forestry Liaison Officer at least 10 months before the Event.
5. No contact should be made with Forest District before receiving approval from the ASN or its appointed Forestry Liaison Officer.
6. Special attention should be paid to the following:
   a. Every practicable precaution must be taken to avoid depositing mud or soil on the Public Highway when leaving private property.
   b. Warning notices as required by Chapter 3 App 3 must be displayed.
7. The beginning and end of observed sections must be marked by signs.
8. The starts of sections should be reasonably flat and wide so that all Competitors can at least enter the section.
9. The layout of sections should ensure that areas can be marshalled by the minimum possible number of Officials.
10. Sections should be of a winding nature to place a premium on driving skill.
11. If possible alternative routes should be planned in case of a change of weather conditions and to provide varied routes within sections for different classes.
12. Metal rod markers should not be used.
13. Markers should be placed to avoid the likelihood of Competitors putting four wheels out between markers and where they are unlikely to be moved by bushes or branches.
14. Clearly visible sub-section numbers should have a minimum figure height of 50mm.
15. Sub-section markers should be closely grouped in areas of expected failure.
16. Organisers should be aware of the nearest hospital and the best route to get to it in case of incident.
17. When Competitors under 17 years of age are allowed to compete Organisers should note the information in Appendix 2 'Crew' and Chapter 6 regarding Minimum Ages.
18. No person under the age of 14 can act as a marshal or assistant marshal unless under the constant supervision of a marshal over 18 years old.
19. At single site Events a Medium sized Spill Kit must be available at each section or group of adjacent sections.
20. At Events which utilize the public highway each Vehicle must carry a Small Spill Kit as defined in Chapter 1 App 1.

Classic Reliability Trials

21. In addition to Arts 1 - 20 above Organisers of Classic Trials must:

2025 National Competition Rules Chapter 17 Appendix 1 General Organisers Regulations
20. Locate any Holding Controls so as to avoid public nuisance.
21. Draw to the attention of Competitors any sensitive areas in the vicinity of the route.
22. Brief all Marshals and ensure they are readily identified.
23. Appoint and brief a Chief Official who should be clearly identified for each observed section to ensure that the Trial is seen not to unduly inconvenience members of the public.
24. Ensure that the Chief Official has a working knowledge of the Rights of Use of the section.

22. *The Official Documents must specify the following which are additional to and take precedence over App. 2 Arts 5 – 35:*

- Any public roads which are to be part of the route.
- Any observed sections or tests on public roads.
- The method of detailing the route and any maps required.
- Any time schedule.
- The method of resolving ties.
- The boundaries of observed sections which must be indicated by natural hazards flags or posts.
- The start or re-start line in an observed section or test which may be varied for each Class.

23. Any signs displayed except during an observed section test or quiet zone will be considered as supplementary aid without mandatory authority unless otherwise specified in the Official Documents. The mandatory marking for quiet zones does not preclude the Competitor's responsibility to take necessary action should the sign not be in position.

24. Judges may be appointed to adjudicate on:

- Stopping at Stop and Give Way signs.
- Unauthorised use of auxiliary lights.
- Unauthorised possession of radio equipment.
- Contravention of Out of Bound areas.

25. Driving Standards Observers may be appointed to adjudicate on:

- Excessive vehicle sound (observed during the Event).
- Excessive speed.
- Driving in a manner likely to bring Motorsport into disrepute.
- Inconsiderate parking or waiting.

26. No private road must be used by Competitors unless specific permission to do so is given in the Road Book or Route Card.

27. Competitors must visit controls checks observed sections and tests in the order set out in the Road Book or Route Card unless otherwise specified.

28. Organisers should notify the appropriate Parish Councils.

29. Organisers should issue instructions on the sensible use of the roads, including:

- Closing of gates etc.
- Clearing of roads at end of sections.
- Following the 'Country Code' adding that that failure to observe the Code may lead to disciplinary action.
30. *The Organisers* may establish a check at any point to observe maintenance of a set speed time schedule or route provided the intention to do so is stated in the *Official Documents* and *Competitors* are given information to enable them to comply.

31. *Official Documents* and *Final Instructions to Competitors* in *Events* using Footpaths, Bridleways and Restricted Byways should include the following statement:

“This Event is routed along and/or across public rights of way. *Competitors* must exercise caution and reduce their speed accordingly near other path users. Be especially careful near horses. Slow down, stop and switch off your engine if necessary.”

32. The *Specific Regulations* should clearly state if the *Public Highway* is to be used. Any part of an *Event* that takes place on the *Public Highway* must comply with the Motor Vehicles (*Competitions and Trials*) *Regulations* and will require public relations work to be undertaken as specified in *Appendix 7 of this Chapter*.

33. Any time schedule on the *Public Highway* or any part of the route must not exceed:
   a. Motorways 60mph
   b. Trunk and A-roads 30mph
   c. B-roads 26\(\frac{2}{3}\) mph (daylight)
      20mph (darkness)
   d. All other roads 20mph (daylight)
      15mph (darkness)
   e. All heavily populated areas 15mph

34. When *Controls* are less than 20 miles apart (except start and finish controls where the length of the route is 35 miles or less) the time schedule on the public highway must not exceed an average speed of 15mph.

35. The *Route Card* must show both time and mileage between individual points so that changes in *Permitted* average speeds are apparent.

36. Any maps required by *Competitors* must be notified in the *Official Documents*.

37. Ensure the status of any *Tracks* along the route is verified and stated in the Route Book.

38. Where it is proposed to use or cross any *Footpath, Bridleway* or *Restricted Byway* the *Organiser* must:
   a. Obtain the agreement of the Landowner and the Highway Authority (unless the route is already on a road of higher status).
   b. Notify the Police (clarifying the nature of the *Event*).
   c. Notify the National Parks (if appropriate).
   d. Ensure a *Liaison Officer* is appointed to deal with the above matters and resolve any difficulties.

39. No oral instruction to *Competitors* during an *Event* will be valid if it affects any of the route or the time schedule or the layout or the performance of an observed section or test.

40. Any such instruction to vary the elements referred to at Art. 39 above must be displayed as an *Official Notice* or issued in writing to each *Competitor*.

41. Any *Competitor* driving at an excessive speed in a reckless manner or in a manner likely to bring Motor Sport into disrepute or convicted of any driving offence committed during an *Event* may be disqualified.

42. *Competitors* must declare in writing to the *Organisers* at the *Finish* whether during the *Competition* they have been involved in any incident or accident involving or causing damage to other persons or property.
43. Observed sections may not be more than a quarter of a mile long and no special time schedule may be applied from start to finish of a section more than 100yds long (an Observed Test).

44. The layout of sections should take account of the location of possible failure points.

45. *The Official Documents must specify the exact procedure to be followed on each section where there is a stop and Re-Start test. Unless the Official Documents specify otherwise a stop and Re-Start must take place at either a line to be stopped astride or in a designated zone within which at least two wheels must be placed. When the car as judged by a Marshal is completely at rest it must re-start in a forward direction only. Any rearward movement of the Vehicle will incur a penalty.

46. Sections should if possible be of sufficient width to allow a choice of route.

47. *Sub-section numbers should be placed on the right-hand side.

48. The Organisers of Events on a single site should have a First Aid Kit on-site at a clearly identified location.

49. Penalty marks will be incurred in accordance with App. 2 Art. 32.

50. Check Vehicles for sound before the Start or along the route. These checks should be manned by experienced Driving Standards Observers. Noisy Vehicles must be stopped if necessary and be reported to the Clerk of the Course.

Car Trials
In addition to Arts 1 - 20 above Organisers of Car Trials must:

51. *Wherever possible the use of road sections should be avoided. If road sections are used then Arts 22-27 and 30-40 apply.

52. *The entry in may be split into class groups of roughly equal number, which should start from different observed sections simultaneously.

53. The layout of sections should take account of the location of possible failure points and safe exit routes.

54. Sections should if possible be of sufficient width to allow a choice of route and at no point be less than 4m wide.

55. The use of trees or natural hazards as course boundaries should be avoided where possible.

56. Stakes should not be placed against trees.

57. It is recommended that sections be laid out using a minimum of 13 pairs of marker stakes of a minimum height of 1m and with colour coding to clearly identify each side of the route. (see diagram in App 7 Drawing 2). Additional markers may be used to clarify different routes for different classes or to clarify Art. 11

58. *If sub-section numbers are not placed on both sides of the route, they should be on the right-hand side, with the corresponding guide markers on the left-hand side.

59. Organisers may at any convenient time after the start of the Competition require Competitors in some or all Classes to increase or decrease the minimum permitted tyre pressure. This decision must be advised to Competitors in writing and sufficient time must be allowed for them to comply.

Sporting Trials
In addition to Arts 1 - 20 above Organisers of Sporting Trials must:

60. Road sections should not be used.

61. The entry in should be split into groups of equal number, which should start from different observed sections simultaneously.
63. The layout of sections should take account of the location of possible failure points and safe exit routes.
64. Sections should if possible be of sufficient width to allow a choice of route.
65. The use of trees or natural hazards as course boundaries should be avoided where possible.
66. Stakes should not be placed against trees.
67. It is recommended that sections be laid out using a minimum of 13 pairs of marker stakes of a minimum height of 1m and with colour coding to clearly identify each side of the route. (see diagram in Art 7 Drawing 2).
68. *If sub-section numbers are not placed on both sides of the route they should be on the right-hand side with the corresponding guide markers on the left-hand side.
69. There should be a First Aid Kit (including an eye bath) on-site at a clearly identified location.
70. Organisers may at any convenient time after the start of the competition require Competitors in some or all Classes to increase or decrease the minimum permitted tyre pressure. This decision must be advised to Competitors in writing and sufficient time must be allowed for them to comply.

Historic Sporting Trials
71. In addition to Arts 1 - 20 above Organisers of Historic Sporting Trials must:
72. *Wherever possible the use of road sections should be avoided. If road sections are used then Arts 22-27 and 30-40 apply.
73. *The entry in should be split into class groups of roughly equal number which should start from different observed sections simultaneously.
74. The layout of sections should take account of the location of possible failure points and safe exit routes.
75. Sections should if possible be of sufficient width to allow a choice of route.
76. The use of trees or natural hazards as Course boundaries should be avoided where possible.
77. Stakes should not be placed against trees.
78. It is recommended that sections be laid out using a minimum of 13 pairs of marker stakes of a minimum height of 1m and with colour coding to clearly identify each side of the route. (see diagram in App 7 Drawing 2).
79. *If sub-section numbers are not placed on both sides of the route, they should be on the right-hand side, with the corresponding guide markers on the left-hand side.
80. Organisers may at any convenient time after the start of the competition require Competitors in some or all Classes to increase or decrease the minimum permitted tyre pressure. This decision must be advised to Competitors in writing and sufficient time must be allowed for them to comply.
CHAPTER 17 TRIALS

APPENDIX 2

Competitors Regulations

Note: * indicates that additional information must be provided in the Official Documents for the Event.
A Regulation in italics indicates that the Regulation may not apply if so stated in the Official Documents for the Event.

Eligibility
1. *Competitors must report at the start and for scrutineering at the times stated in the Official Documents.
2. Any Competitor reporting late may be fined disqualified or may forfeit any claim to a favourable starting position.
3. At the Start each Competitor any Passengers and the Vehicle must all be checked for eligibility.
4. Drivers and Passengers must produce a valid Club Membership Card and Competition Licence as detailed in Chapter 6. Passengers under 18 years old will not be considered as Competitors for the purpose of Club Membership.

The Crew
5. The same Driver must drive throughout any Competition.
6. ‘Bouncing’ will be permitted only within the confines of the seating compartment and then only so long as no portion of either the Driver’s or Passenger’s body other than arms and hands is placed outside the sides of the car or behind the seat they are occupying.

Numbers
7. Competition Numbers will be issued at the Start and must be displayed on each car throughout the Competition.
8. Numbers will be allocated by the Organisers.
9. Competitors will start in numerical order.
10. Numbers must be removed at the Finish or if a Competitor retires.

Observed Sections and Route
11. Details of observed sections and tests (if any) must be issued at the Start and the onus of following the correct route will rest with the Competitor.
12. Any signs displayed other than in an observed section will be a supplementary aid without mandatory authority.
13. *There will be no time schedule to be maintained during the Event unless the Official Documents specify otherwise.
14. Competitors will proceed from point to point with as little delay as possible and any Competitor suspected of loitering may be ordered to proceed by an Official.
15. Competitors arriving at a test or an Observed Section more than 20 minutes after the preceding Competitor may be refused permission to attempt that test or observed section.
16. No unauthorised assistance is allowed and cars must complete the course under their own power.
17. No case of force majeure will be taken into consideration.
18. Before attempting an observed section Vehicles must be brought to rest with a leading front wheel hub vertically over the Start line as indicated by Officials and the Driver must not proceed until instructed to do so.
19. It is permissible to start the Vehicle when only one hub is on the line and the car is askew providing the other hub has not crossed the line.
20. *Competitors must attempt to negotiate observed sections non-stop unless the Official Documents specify otherwise.
21. Failure of a Vehicle to maintain unassisted forward motion in the direction of the Course will be regarded as failure to comply with this requirement.
22. The point of failure will be at a vertical line from the centre of the hub of the front wheel which is the furthest from the start of the section. See Appendix 7 Drawing number 2.
23. Observed sections may be divided into subsections. In such cases signs will indicate the beginning and end of the sub-sections.
24. A Vehicle will be deemed to have entered an observed section or subsection when a vertical line from the leading front wheel hub centre has passed any marker indicating the beginning of the section.
25. A Vehicle will be considered to have left an observed section or sub-section when a vertical line from the leading front wheel hub centre has passed any marker indicating the end of the section.
26. Failure to proceed for whatever reason from the starting position into an observed section when instructed to do so will be regarded as failure in that section.
27. *The start line will indicate the greatest penalty and the Finish line zero penalty.

Results

28. Judges may be appointed to adjudicate on:
   a. Conforming with the correct route on the course.
   b. Touching markers.
   c. Failure to proceed non-stop when required.
   d. Conformity with Arts 8 - 20 above.
   e. Noise.
   f. Time of arrival/departure at observed section test control or check.
   g. Unauthorised smoking.
   h. Unauthorised assistance or servicing.

29. Performances on any observed section or test may be ignored at the Organiser’s discretion even though there have been successful attempts to negotiate the section or test. If this discretion is exercised no performance on the section or the test in question will be taken into account when compiling the results. This discretion may be for a Class or a number of Classes.

30. Competitors start with zero marks.

31. *Penalty marks will be incurred as follows unless otherwise stated in the Official Documents:
Marks Lost

a. Each minute late in reporting at the start or re-start  
   5
b. Failing in observed section not divided into sub-sections  
   6
c. Failing in observed section not divided into sub-sections which includes a 
   stop and re-start type test  
   6
d. Failing in an observed section which is divided into sub-sections. 
   The penalty for failure will decrease in proportion to the number of 
   sub-sections negotiated non-stop  
   12
e. Failing in observed section which includes a stop and Re-Start type test. 
   The Penalty for failure will decrease according to the position of the test within 
   the section.  
   12
f. Not attempting or being ready to attempt an observed section sub-section or 
   test when instructed so to do.  
   12
g. Not complying with a reasonable instruction by an Official for which a Penalty is 
   not otherwise stipulated provided warning of the Penalty is given  
   12
h. Driver and/or Passengers not seated in accordance with Arts 6 above  
   12
i. Causing undue noise at any point  
   12
j. Breach of any statutory requirement concerning the use of a motor Vehicle during 
   the Event  
   12
k. For second offence under (i) or (j) Event Disqualification  

l. Varying ballast during Event (per offence)  
   50

Classic Trials

Eligibility

32. Competing Vehicles must comply with Appendix 3.

The Crew

33. Passengers must be properly seated i.e. both the Passenger and the seat back must be upright and facing 
   forward.

34. Where the Driver is over 17 years old and holds a full RTA Licence the Passenger must fulfil the minimum 
   age requirement below.
   Open or Convertible Vehicles  
   14
   Saloons or hardtop Vehicles  
   12

35. If Art 5 is varied entries may be accepted from Drivers aged 16 or from Drivers of 17 or over who do not hold 
   a full RTA Licence. In such cases the Driver must be accompanied by a Passenger who holds a full RTA 
   Licence and is experienced as a Driver of Classic Trials to the satisfaction of the Clerk of Course. Any such 
   Driver may only attempt sections wholly on private land.

36. Additionally the rear seats of saloon cars can be occupied by the number of people for whom they were 
   designed. Passengers who occupy the rear seats of the Vehicle must not be less than 2 years of age any child 
   under 12 years of age or 135cm in height must be seated using an approved ‘child restraint’.

37. Passengers aged between 2 and 12 years old will be signed on by their parent or guardian.
38. **Passengers** are not required to occupy the front seat where suitable rear seats are available unless the **Official Documents** state otherwise. However in Class 8 only one **Passenger** is allowed who must occupy the seat alongside the **Driver**.

39. Members of the crew at the Start cannot be varied during an **Event** except with Official approval.

**Observed Sections and Route**

40. *The **Official Documents** including the **Route Book** will specify whether sub-section signs are penalty markers as per **Arts 51 – 53.**

41. A **Competitor** will also be considered to have failed to negotiate an observed section non-stop if all four wheels are positioned outside the boundary of the course at the same time. The boundary is represented by a straight line drawn from course marker to course marker along the direction of the course, or by natural obstacles preventing such a straight line.

42. To be classified as a finisher a **Competitor** being the car and crew entered must have attempted at least 75% of the total number of observed sections and arrive at the **Finish** under its own power within 20 minutes of the time of arrival of the preceding **Vehicle**.

**Results**

43. *The **Competitor** incurring the least **Penalty** will be the winner and so on.

**Car Trials**

**Eligibility**

44. Competing **Vehicles** must comply with **Appendix 4** except that in **Clubman Events** the **Organisers** may state in the **Official Documents** that any or all of the following **Car Trials Technical Regulations** have been replaced by the equivalent **Classic Trials Regulations** at **Appendix 4 Arts. 12(a) - (d) and 16, 25 - 26 and 27(a) and 27(c).**

**The Crew**

45. During all **Observed Sections** and tests the seat alongside the **Driver** must be occupied.

46. If a **Passenger** is carried they must be properly seated i.e. both the **Passenger** and the seat back must be upright and facing forward and:

   a. Where the **Driver** is over 17 years old and holds a full RTA Licence the **Passenger** must be of at least 12 years of age.

   b. Entries may be accepted from **Drivers** aged 14 15 or 16 or from **Drivers** of 17 or over who do not hold a full RTA Licence. In such cases the **Driver** must be accompanied by a **Passenger** who holds a full RTA Licence and is experienced as a **Driver of Car Trials or Sporting Trials** to the satisfaction of the **Clerk of Course**.

47. Additionally the rear seats of saloon cars can be occupied by the number of people for whom they were designed. **Passengers** who occupy the rear seats of the **Vehicle** must not be less than 2 years of age any child under 12 years of age or 135cm in height must be seated using an approved 'child restraint'.

48. **Passengers** aged between 2 and 12 years old will be signed on by their parent or guardian.

49. Members of the crew at the **Start** cannot be varied during an **Event** except with Official approval.
Observed Sections
50. Unless the Official Documents state otherwise at some convenient break after approximately half the Observed Sections have been attempted the running order will be reversed within each Class. Competitors will remain in the correct running order unless instructed otherwise by an Official.
51. A Competitor will also be considered to have failed to negotiate an observed section non-stop if:
   a. Any part of their Vehicle or its occupants touch a marker.
   b. All four wheels are positioned outside the boundary of the Course at the same time. The boundary is represented by a straight line drawn from course marker to Course marker along the direction of the Course.
52. The point of failure will be considered to be that at which any marker is first struck or the point at which the boundary of the course is first crossed by all wheels of the competing Vehicle.
53. Should this point of failure coincide with the division between two sub-sections the marks lost will be those appropriate to failure in whichever of the two sub-sections provides the greater penalty.
54. All markers are deemed live and those markers that are not in the sequence being negotiated by the Competitor shall be considered as indicating the section’s boundary unless deemed otherwise on a particular section by the Clerk of the Course. In such cases the penalty recorded shall be that of the part of the section between gates and not necessarily the value of the marker touched.
55. To be classified as a finisher a Competitor must have attempted at least 75% of the sections and hand in their score card to the Secretary of the Event within 20 minutes of the preceding Competitor.

Results
56. *Each Competitor will be provided with a results card which must be produced on demand by Officials to mark at each section.
57. *In calculating Class positions the actual number of marks lost by each Competitor is the deciding factor. However where an overall best performance (irrespective of Class) is required an Index of Performance will be established for each Class by taking the average performance of the best 50% of finishers (or if there is an odd number of finishers the total plus one) in the respective Class.
58. To be classified as a finisher for index purposes only a Competitor must have attempted all sections. Competitors’ marks lost are then expressed as a percentage of this index.
59. In the Event that the best 50% of finishers (as defined in Art. 55 above) represents less than five Competitors then scores equivalent to that of the Class winner must be added to the results of the Class a sufficient number of times so that the average for the Class can be based on five scores.
60. In the Event of one or more Competitors finishing with a total score of zero for the whole Event then a notional penalty of one mark will be added to the total score of ALL finishers before calculating the Index of Performance.
61. Ties will be resolved by comparing the number of penalties lost by each Competitor on each section the winner being the Competitor who has the greater number of low penalties. Should this method not resolve the tie the Organisers may resort to the ‘furthest cleanest’ principle starting from Hill One.
Sporting Trials and Historic Sporting Trials

Eligibility

62. Cars must comply with Appendix 5 or 6 or 750MC Trials Formula as appropriate.

The Crew

63. During all Observed Sections and tests the seat alongside the Driver must be occupied by a Passenger who must be properly seated i.e. both the Passenger and the seat back must be upright and facing forward. The Passenger's hips must be located within the cockpit and on or in front of the rear axle line (Penalty as per Art 31-h).

64. Where the Driver is over 17 years old and holds a full RTA Licence the Passenger must be of at least 14 years of age.

65. Entries may be accepted from Drivers aged 16 or from Drivers of 17 or over who do not hold a full RTA Licence. These Drivers must be accompanied by a Passenger who holds a full RTA Licence and is experienced as a Driver in Sporting Trials.

66. Members of the crew at the Start cannot be varied during an Event except with Official approval.

Observed Sections

67. A Competitor will also be considered to have failed to negotiate an Observed Section non-stop if:
   a. Any part of their Vehicle or its occupants touch a marker.
   b. All four wheels are positioned outside the boundary of the course at the same time. The boundary is represented by a straight line drawn from Course marker to Course marker along the direction of the course.

68. The point of failure will be considered to be that at which any marker is first struck or the point at which the boundary of the Course is first crossed by all wheels of the competing Vehicle.

69. Should this point of failure coincide with the division between two sub-sections the marks lost will be those appropriate to failure in whichever of the two sub-sections provides the greater penalty.

70. All markers are deemed live and those markers that are not in the sequence being negotiated by the Competitor shall be considered as indicating the section's boundary unless deemed otherwise on a particular section by the Clerk of the Course. In such cases the Penalty recorded shall be that of the part of the section between gates and not necessarily the value of the marker touched.

71. To be classified as a finisher a Competitor must have attempted at least 75% of the sections and hand in their score card to the Event Secretary within 20 minutes of the preceding Competitor.

Results

72. *The Competitor incurring the least penalty will be the winner and so on.

73. *Each Competitor will be provided with a results card which must be produced to the Officials to mark at each section.

74. Ties will be resolved by comparing the number of penalties lost by each Competitor on each section the winner being the Competitor who has the greater number of low penalties. Should this method not resolve the tie the Organisers may resort to the ‘furthest cleanest’ principle starting from Hill One.
CHAPTER 17 TRIALS

APPENDIX 3

Technical Regulations – Classic Reliability Trial Vehicles

Note: (1) * indicates that additional information must be provided in the Official Documents

Note: (2) A Regulation in italics indicates a Regulation which may be amended in Official Documents.

Note: (3) This Appendix must be read in conjunction with App 2 and Chapter 7

1. Classic Reliability Trial Vehicles will be classified as follows unless otherwise stated in the Official Documents:

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Front-engined, front wheel drive production Vehicles (including those fitted with Torque Biasing/Limited Slip Differentials).</td>
</tr>
<tr>
<td>2</td>
<td>Production cars built prior to 1941, and the following: MG TC, Morgan 4-4 Series 1, HRG 1100 and 1500, and Ford models (upright models to 1959) E04A, E494A, E4930A/B, E93A, E493A, and 103E. Dellow Mk 1,2,3 &amp; Bucklers Mk 5&amp;6, Pre 1941 Cars holding a current VSCC Buff Form, Non-production cars built from pre-1941 components individually approved.</td>
</tr>
<tr>
<td>3</td>
<td>Front-engined, rear wheel drive, production saloons (except Vehicles in Class 6).</td>
</tr>
<tr>
<td>4</td>
<td>Rear-engined, rear wheel drive production saloons up to and including 1300cc (except Vehicles in Class 7).</td>
</tr>
<tr>
<td>5</td>
<td>(a) Front-engined production sports cars (except Vehicles in Classes 1, 6 and 90). (b) Vehicles in full HST Historic Class specification with fiddle brakes disabled (c) Non-production cars built mainly from pre-1941 components (except Vehicles approved for Class 2) individually approved. Such Vehicles may include some post war components including BMC A-Series engines up to 948cc, Reliant OHV engines, A Series Rear Axles, Ford 105E Series Back Axles, Tubular Frame Chassis. These Vehicles must have at least one operational European carburettor and run on tyres satisfying Art 38 (Crossplies). (d) Production cars eligible for Class 2, but running on radial tyres.</td>
</tr>
<tr>
<td>6</td>
<td>(a) Rear-engined, rear wheel drive production cars (except Vehicles in Class 4). (b) Front-engined production cars fitted with torque biasing differentials as standard equipment, or any other form of traction control as standard equipment, throughout that model range and unavailable without it from stock.</td>
</tr>
<tr>
<td>7</td>
<td>(a) Production cars modified beyond permitted limits. (b) Rear-engined production cars fitted with torque biasing differentials as standard equipment, or any other form of traction control as standard equipment, throughout that model range and unavailable without it from stock. (c) Front engine cars manufactured on a limited basis conforming to an accepted specification. Where modified beyond the accepted specification these cars will be classified in Class 8.</td>
</tr>
<tr>
<td>8</td>
<td>(a) Non production cars.</td>
</tr>
</tbody>
</table>
(b) Rear-engined cars (except Vehicles in Classes 4, 6, and 7).
(c) Front-engined cars manufactured on a limited basis (except those in Class 7)

Suzuki X90 Vehicles having the original engine block.

2. A current MOT certificate where appropriate must be produced at the Scrutineers’ request.

Safety
3. All Vehicles must comply with Construction and Use Regulations and be fitted with safety belts if appropriate. Where fitted seat belts must be worn on the Public Highway. Handheld fire extinguishers to a level of safety specified in Chapter 7 App 6 are mandatory and which are accessible to the crew (note a 1.75ltr minimum for AFFF or 2x1ltr AFFF or 2x1kg Powder is permitted).

Chassis / Body
4. Chassis/body structures must comply with definitions of a Sports or Touring car as applicable.
5. In particular Vehicles must:
   a. Be equipped with an effective windscreen or aero-type screen.
   b. The body overhang of non-production cars must not exceed one-fifth of the overall car length at the front and one-third at the rear. Overhang is measured from the line of the road wheel centres.
   c. For production cars any extensions must not exceed the overhang proportions of a non-production car. Any additional spare wheel carrier should be fitted as close as possible to the body and satisfy Arts 34 - 37. Production cars need not comply with Chapter 7 in respect of bonnets.
6. With the exception of cars of periods A to D all cars must be equipped on all wheels with mudguards which present no sharp edges and cover the complete wheel (flange+rim+tyre) around an arc of 120 degrees. This minimum coverage must:
   a. be achieved with a continuous surface of rigid material. The rear tyre must not be visible when viewed from above
   b. extend forward ahead of the axle line
   c. extend downward behind the wheel
   d. extend downward behind the driven wheel to a point no more than 150mm above the axle centre line.

7. Vehicles must be equipped with two fixed seats for Driver and Passenger the rearmost part of which must not be behind the rear wheel axis.
8. Chassis/body structures must comply with definitions of a Sports or Touring car as applicable.
9. Vehicles must:
   a. Retain their original wheelbase. Any alteration to the wheelbase of a production car (except in Class 2) will transfer the car to Class 8.
   b. Be equipped with the same number of seats as intended by the manufacturer.
   c. Have the forward and rearward bulkheads of the engine compartment in their original positions.
   d. Retain the engine cover boot lid and wings although the material may be changed.
10. The weight distribution of the Vehicle may be altered by the addition of Ballast.
11. The position of the battery spare wheel and fuel tank may be changed but any further modifications will cause the Vehicle to be reclassified to Class 7(a).
12. In **Classes 1** to 7 and 90 any **Ballast** tool or other boxes must be positioned within the body shell or the bumpers firmly secured and not visible protruding or varied during **Events** (see Art. 14 below).

13. A luggage box within the plan view of the car may be included in an accepted specification for a car in **Class 7(c)**.

14. The silhouette of **Vehicles** in **Classes 1** to 6 and 90 as seen from the side must be unaltered except for the engine cover, spare wheels and bumpers. Bumpers may be removed but if retained must be in the original manufacturer’s position.

15. In **Class 2 Vehicles** the chassis must be that of the original manufacturer for the **Vehicle** although a change in bodywork is permitted providing it is in keeping with the period.

16. To be eligible for **Class 7(a)** the chassis/floor pan of the original car (between wheel centres) must be retained.

**Engine**

17. The engine must comply with **Chapter 7** regarding positive throttle closure by external springs unless exempt due to the use of original standard manufacturer fitted electronic throttle control. If forced induction is used, the coefficient will be 1.4:1.

18. There are no restrictions on engine tuning providing the cylinder block is of the same manufacture and configuration as the original.

19. The make type and number of carburettors is unrestricted. Carburettors may be replaced with **Fuel Injection** systems.

20. The position of the engine mountings in the chassis may not be altered. Any further modifications will cause the **Vehicle** to be reclassified to **Class 7(a)**.

21. No part of the external exhaust system may be more than one metre above the ground.

**Brakes**

22. **Vehicles** must not have separate braking for individual driven wheels (fiddle brakes).

**Suspension**

23. Springs and shock absorbers may be changed and additional springs and shock absorbers fitted.


25. Except for **Classes 7(a)** and 8 the original springing system and spring mounting points must be retained in operational use eg leaf spring systems must retain at least the minimum number of leaves specified by the manufacturer and must not be replaced by coil or other springing systems.

**Wheels and Tyres**

26. Duplicated driving wheels are not Permitted unless specified in the **Official Documents**.

27. **Competitors** must carry a spare wheel and tyre as a replacement for one wheel on the **Vehicle**.

28. Wheels of up to the standard diameter must be used except for **Classes 5(c) 7(a)** and 8 where wheel diameter is free.

29. In **Class 8** the maximum tyre section must be 185mm.
30. In all **Classes 1** to 8 and 90 (except **Class 2**) the maximum permitted difference between front and rear tyres must be two sections.

31. No tyre may be narrower than that recommended by the car manufacturer.

32. Standard tyres must be used and all types of Grip and Town & Country block patterns are prohibited. Radial tyres with a maximum tread gap exceeding 8mm are prohibited. A tyre will be deemed to have a block gap not exceeding 8mm if when fitted to a rim and inflated to 25psi an 8mm round bar will stick in the gap when horizontal. Purely circumferential gaps may be ignored.

33. In all **Classes** spare wheels must be firmly secured by a permanent fixing.

34. Not more than two spare wheels may be carried externally and these must be fitted as close as possible to the bodywork (excluding bumpers).

35. No part of the spare wheel(s) may be mounted externally in front of the windscreen unless in the manufacturer's standard position or on the roof.

36. **Vehicles** with an external rear-mounted spare wheel in the manufacturer's standard position may add a second spare wheel mounted flush with the original wheel with no spacer.

37. The spare wheel(s) or mounting(s) may not extend rearwards more that 200mm from a vertical line passing through the rearmost part of the original bodywork (excluding bumpers) or more than 100mm beyond the rearmost part of the original bumper position for the model of **Vehicle** whichever creates the lesser protrusion. An alternative maximum dimension not exceeding 400mm may be included in an accepted specification for a car in **Class 7(c)**.

38. **Class 2 Vehicles** must use cross-ply tyres (which need not be listed in **Chapter 8 Lists 1 or 2** but which must not be of Grip Town & Country or Dual Purpose pattern).

**Transmission**

39. Be fitted with non-torque biasing differential in full and free operation between the driving wheels unless:
   a. A differential was not fitted by the manufacturer.
   b. The **Vehicle** is restricted to running in a nominated **Class** or **Formula**.

40. **Vehicles** must be two-wheel drive only

41. It is not permitted to change the gearbox or transaxle casing (except in **Class 7(a)** or **8**) or **Vehicles** running to an accepted specification.

42. Original gear ratios may be changed.

43. In **Classes 2** to 6 it is not permitted to fit limited slip torque biasing locked or lockable differentials other than as provided for in 6 and 7(b) as standard equipment.

44. The rear axle casing must not be modified except for cars in **Classes 7(a)** and 8 and those cars in **Classes 1** and 3 to 6 whose model and mark type was originally manufactured before 1955.

45. **Vehicles** may fit replacement differentials crown wheels and pinions provided the differential action remains free operating.

**Electrical Systems**

46. **Vehicles** must have a maximum of four forward facing beams in addition to side and indicator lights.

47. Auxiliary lights should not be used in non-competitive sections except in fog or falling snow as permitted by law.
48. All lights must be fitted and used in accordance with the Motor Vehicle Lighting Regulations.

Miscellaneous
49. Other than Chapter 7 and in the following sections there are no special requirements under Vehicle Regulations for: Chassis/Engines Suspension Brakes Steering Cooling Oil Systems Fuel Systems Electrical Systems Weight/Ballast Exhausts.
50. 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.
51. Any car which has been improved within the manufacturer’s specification for the range will be considered as a production car.
52. The fitting of a safety roll-over bar is recommended.
53. The fitting of sump chassis and exhaust under-body guards and proprietary tow bars is permitted.
54. The footbrake clutch and accelerator pedals must all be in their original positions.
55. Silencing of Vehicles must be to the levels specified in Chapter 7 with engines running at three quarters maximum rpm.
56. For Vehicles in Class 2 (pre-1941) any mechanical modification as permitted by Art 17 - 21 must be compatible with the period.
57. Rearward vision whilst properly seated within the confines of the Vehicle’s bodywork or ROPS must be possible. Vehicles with solid rear bulkheads or an obstructed view along the centreline of the longitudinal axis must be fitted with either external rear view mirrors or a reversing camera. Mirrors and/or cameras must be operational during competition.
58. Exhaust Catalytic Converters are required per Chapter 7 except where a Vehicle does not require a catalytic converter in accordance with UK Government legislation.
CHAPTER 17 TRIALS

APPENDIX 4

Technical Regulations – Car Trials Formula

Note: (1) * indicates that additional information must be provided in the Official Documents

Note: (2) A regulation in italics indicates a Regulation which may be amended in the Official Documents.

Note: (3) This Appendix must be read in conjunction with App 2 and Chapter 7

Classes:
1. *Classes are free but must be stated in the Official Documents. The following are suggested.
2. CLASS A FWD SERIES PRODUCTION CARS CARRYING NO BALLAST
   Standard front wheel drive cars first registered on or after 15 years prior to 1 January in the current year, carrying no Ballast and having no modifications except as follows:
   a. the fitting of under body protection weighing no more than 10kg (including fittings)
   b. the replacement of wheels in accordance with Art 16 below
   c. the replacement of tyres in accordance with Art 17 below

   Minimum tyre pressures on driven wheels:
   up to 1200 cc: 12 psi
   up to 1400 cc: 14 psi
   over 1400 cc: 16 psi

CLASS N NEW UNMODIFIED FWD SERIES PRODUCTION CARS CARRYING NO BALLAST
Standard front wheel drive cars first registered on or after 1 January 2009*, taxed for road use, carrying no ballast and having no modifications except as follows:
   a. the fitting of under-body protection weighing no more than 10kg (including fittings);
   b. the replacement of wheels in accordance with Art 16 below
   c. the replacement of tyres in accordance with Art 17 below

   Minimum tyre pressures on driven wheels:
   up to 1200 cc: 12 psi
   up to 1400 cc: 14 psi
   over 1400 cc: 16 psi

   * 2009 will be retained for the years 2024, 2025 & 2026 after which it will be reviewed.

3. CLASS B FWD SERIES PRODUCTION CARS
Permitted modifications in accordance with Arts 6 – 31 below. Minimum tyre pressures on driven wheels:
   up to 1200cc: 12 psi
   up to 1400cc: 14 psi
   over 1400cc: 16 psi
4. **CLASS C 1990 ONWARDS RWD SERIES PRODUCTION CARS AND SPORTS CARS**

Rear wheel drive Series Production Cars and Sports Cars first registered on or after 1 January 1990. Permitted modifications in accordance with Arts 6 – 31 below. Minimum tyre pressures on driven wheels:  
Front engined: 14 psi  
Mid/rear engined: 20 psi

5. **CLASS D SERIES PRODUCTION CARS NOT ELIGIBLE FOR ANY OTHER CLASS AND KIT CARS**

a. **RWD SERIES PRODUCTION CARS**

   Permitted modifications in accordance with Art 6 – 32. Minimum tyre pressures on driven wheels:  
   - FE Sports Cars up to 1800cc: 16 psi  
   - FE Saloon Cars up to 1800cc: 14 psi  
   - RE Cars up to 1000cc: 22 psi  
   - FE Sports Cars over 1800cc: 22 psi  
   - FE Saloon Cars over 1800cc: 20 psi  
   - RE Cars over 1000cc: 26 psi

b. **MODIFIED SERIES PRODUCTION CARS AND KIT CARS**

   Cars (not eligible for Classes A, B or C) complying with App 3 Art 1 Classes 1-6 and 7(b) and front engined Kit Cars modified beyond Car Trials Formula regulations and up to the limits specified in App 3 Art 1 Class 7(c), and with the ACTC approved specification readily available for inspection. App 3 Art 2 does not apply as MoT is not required when off road. The Car Trials Wheel and Tyres regulations Art 16 - 17 must be complied with. Minimum tyre pressures on driven wheels:  
   - FWD Cars: 16 psi  
   - FE Kits Cars: 24 psi  
   - FE RWD Cars: 22 psi  
   - RE Cars: 26 psi

**Compliance shall not extend to App 3 Art 26 or Art 16 below i.e. only wheels of the sizes detailed in their ACTC specification may be used. In all other cases of rule compliance Classic Reliability Trial Vehicles' regulations will prevail.**

**General**

6. *Any car fitted with a torque biasing differential or any other form of traction control as catalogued for that car may have tyre pressures set at 4psi above the specified Class pressure.*

7. Cars with an overall length of 166 inches and over in Classes A and B above may reduce tyre pressures by not more than 4 psi subject to an absolute minimum pressure of 10 psi.

8. Optional or alternative equipment as listed by the manufacturer may be fitted with the exception of gear and differential ratios.

9. Special tuning and competition catalogues etc. are not acceptable as manufacturer's handbooks.

**Safety**

10. **Vehicles** must comply with Construction and Use Regulations and be fitted with safety belts if appropriate. The following are recommended:
a. Safety roll-over bar to safety criteria Chapter 7 App. 3 Arts. 72 – 85.
b. The wearing of seat belts is optional.
c. Handheld fire extinguishers to safety criteria Chapter 7 App.6 (note a 1.75ltr minimum for AFFF or 2 x 1ltr AFFF or 2 x 1Kg Powder is permitted).

**Chassis/Body**

11. Vehicles should not have any chassis or body alterations except:
    a. In Classes B-D Bodywork ahead of and below the centre line of the front wheels and behind and below the centre line of the rear wheels may be removed. Panels to the front and rear of the centre line of the front and rear wheels respectively may be replaced by panels from any model in the same family of cars.
    b. In Classes B-D the weight distribution of the Vehicle may be altered by the addition of Ballast which must be positioned within the body shell or bumpers firmly secured and not visible or protruding.
    c. Ballast must not be varied during an Event.
    d. The fitting of sump chassis and exhaust under-body guards is permitted.
    e. External mirrors may be removed.

**Engine**

12. Engine tuning is permitted within the following limitations:
    a. The cylinder head and block must remain as originally supplied by the manufacturer as standard for that model.
    b. If the Class structure suggested in Arts. 1 – 5 above is used then except for Classes B and C the carburettors and inlet and exhaust manifolds must remain as originally supplied by the manufacturer as standard for that model.
    c. Fuel injection and/or forced induction are prohibited unless offered by the manufacturer as standard or optional equipment for that model. If forced induction is used, the coefficient will be 1.4:1
    d. Stroke of the crankshaft may not be altered.
    e. Cylinders may be re-bored to a maximum of +0.060in.

**Brakes**

13. Vehicles must not have separate braking of individual driven wheels (fiddle brakes) but it is permitted to increase the braking power of the Vehicle.

**Springs and Shock Absorbers**

14. Spring and shock absorber mounting points must be retained unaltered. In Classes B-D the springs and shock absorbers themselves may be changed and anti-roll bars and anti-tramp bars added.

**Wheel and Tyres**

15. Duplicated driving wheels are not permitted unless specified in the Official Documents.
16. It is permitted to replace standard wheels provided they can be fitted without altering the hubs or anything attached to them.
17. Tyre sizes and aspect ratios are free providing they are compatible with Construction and Use Regulations for the Vehicle concerned.
18. Use of the following tyres is prohibited:
a. those having any of the following patterns inscriptions or manufacturers’ designations: ‘All Seasons’ ‘Grip’ ‘Snow’ ‘Special Use’ ‘Town & Country’ ‘Mud & Snow’ ‘M+S’ ‘M.S.’ ‘M&S’ or the Three Peaks Mountain Snowflake symbol;

b. those constructed primarily for off-road use;

c. those having additional grooves intentionally cut into the tread pattern [post manufacture].

d. Goodyear All Weather Steel Radial Goodyear Vector Pirelli P7 Michelin XRN or Uniband Rally Steel.

19. Tyres with sidewall markings removed are prohibited in all Events unless they are correctly marked ‘Retread’ or ‘Remould’.

20. Spare wheels and tyres must only be carried in the same numbers and mounting position(s) as provided by the manufacturer.

21. On the driven wheels only use minimum tyre pressures as specified in the Official Documents.

**Transmission**

22. Be fitted with non-torque biasing differential in full and free operation between the driving wheels unless:
   a. A differential was not fitted by the manufacturer.
   b. The Vehicle is restricted to running in a nominated Class or Formula.

23. Vehicles must be two-wheel drive only unless the Official Documents allow four-wheel drive.

24. Four-wheel drive Vehicles operating in two-wheel drive mode are not eligible unless Permitted by the Official Documents.

25. If the Class structure suggested in Arts. 1 – 5 above is used then only gear and axle ratios as stated in the Official manufacturer’s datasheet for the model and year of manufacture can be used except for Vehicles in Class D(b)

26. Where components are changed to alter gear ratios as provided for above they must be readily interchangeable and from the same car manufacturer.

**Miscellaneous**

27. All Vehicles must:
   a. Have bumpers fitted when originally supplied for the Vehicle except Vehicles in Class D(b)
   b. Be allowed to use proprietary accessories available for the Vehicle
   c. Not use alloy or plastic panels unless fitted as original equipment

28. If the Class structure recommended in Arts. 1 – 5 above is used then rear seats must be fitted in the same way as originally supplied.

29. Battery powered Vehicles may compete in appropriate Classes.

30. Other than Chapter 7 and in the previous sections there are no special requirements under Vehicle Regulations for: Chassis/Engines Suspension Brakes Steering Cooling Oil Systems Fuel Systems Electrical Systems Weight/Ballast Exhausts.

31. Exhaust Catalytic Converters are required per Chapter 7 except where a Vehicle does not require a catalytic converter in accordance with UK Government legislation.
CHAPTER 17 TRIALS

APPENDIX 5

Regulations – National Trials Car Formula

Note: (1) * indicates that additional information must be provided in the Official Documents

Note: (2) A Regulation in italics indicates a Regulation which may be amended in the Official Documents for the Event.

Eligibility

1. The National Trials Car Formula involves four-wheel Vehicles complying with all Technical Regulations except:
   a. Chapter 7 App. 2 Arts. 11 – 15 and Arts. 75 -80.
   b. Period Vehicle Waivers.

2. Vehicles can be divided into two classes up to 850cc and over 850cc up to 1650cc.

3. Details of 750 Motor Club Trials Formula should be obtained from:
   750 Motor Club, Donington Park Circuit, Melbourne Road, Castle Donington, Derby, DE74 2BN
   Tel: 01332 814548.

Safety

4. An electrical cut out switch per Chapter 7 App. 5 Arts. 14 – 19 is mandatory. The switch must be located on the offside rear of the car and be rearward facing - see App. 7 Drawing 1.

Chassis

5. Chassis construction is free but permitted wheelbase and width dimensions are shown in the App. 7 Chart 1.

6. Vehicle engines must be located with the centre of the foremost original manufacturer's sparking plug orifice not more than one-fifth of the wheelbase behind the centre line of the front wheel hubs where the only operative water radiator is mounted in front of the engine or one-eighth if no radiator is fitted in front of the engine (tolerance 1cm).

Body

7. There is no requirement for a windscreen or aero-type screen.

8. The bodywork must be of adequate strength and proper construction to provide a compartment for Driver and Passenger. It must meet the following criteria:
   a. The front and rear overhangs must be as specified in App.7 Chart 1.
   b. It must be equipped with fixed seats for a Driver and one adult Passenger and have seat backs not less than 15.2cm measured from the uncompressed base seat cushions along the angle of the seat back.
   c. The rearmost portion of the seats (without cushions) at this 30.5cm height must not be behind a line through the vertical axis of the rear hubs.

9. All Passenger handles must be of rigid construction securely anchored and neither flexible nor adjustable.

10. No handle must be capable of touching the ground in the event of a roll-over and all handles must be sited so that in the event of the car hitting a solid object the handles are protected from contact with the object by the chassis.
11. Any handle forward of the centre line of the rear axle must be fixed in accordance with dimension E as
detailed in App.7 Chart 1.
12. Rear mudguards must be of adequate strength to protect Driver and Passenger from wheels and tyres.
13. Rear mudguards must cover the full length of the tyre in plan-view at the top of the wheel and must extend
outwards to within 5cm of the outside edge of the tyre wall.
14. Front mudguards must cover the full width of the tyre over an arc of 90° and extend rearward to not more
than 10° above the horizontal line through the front hub.

Engine
15. Vehicles must use a single four-stroke production car engine not exceeding 1650cc. The engine must comply
with Chapter 7 regarding positive throttle closure by external springs unless exempt due to the use of
original standard manufacturer fitted electronic throttle control. If forced induction is used, the coefficient
will be 1.4:1.
16. Modifications are free.

Suspension
17. Any form of suspension can be used. For minimum track front and rear details see App. 7 Chart 1.

Steering
18. Any form of connection from steering wheel to the front wheels is permitted.
19. The position of the two swivel axes must not vary whilst steering.
20. Four-wheel steering is not permitted.

Brakes
21. Vehicles must be fitted with operative and effective front and rear brakes.
22. Independent rear braking is permitted but no self- compensating controls are permitted on the rear brakes
which must be single leading-shoe drum brakes or disc brakes.

Wheels and Tyres
23. Duplicated driving wheels are not permitted
24. Wheel rims must not exceed a width of 11.43cm (4.5in) measured between the bead flanges nor a diameter
of 15inches for driven wheels.
25. Tyre security devices are permitted in the rims.
26. Wheels should not carry any chains spikes or non-skid attachments.
27. Tyres must be of a maximum size 165mm x 15inches on driven wheels and must be selected from Chapter 8
Tyre List 3.
28. Vehicles fitted with tyres that have previously been included in Tyre List 3 may compete for class awards
only and may not be included in the overall classification.
29. Vehicles must carry one spare only which must be a driving wheel as fitted on the car fitted with any listed
tyre. It is not permitted to add ballast to the spare wheel.
30. Motorcycle tyres on non-driven wheels are permitted.
31. Minimum tyre pressure 2psi.
Transmissions
32. **Vehicles** must be equipped with a differential gear which divides torque equally between the driving wheels.
33. **Vehicles** must not use any locked or lockable torque biasing or limited slip differentials or any other automatic device which is designed to achieve the same result.
34. Any clutch/torque converter attached to the engine flywheel must be bolted directly to the engine crankshaft.
35. Gearboxes and transmissions with a sequential shift are prohibited.

Weight
36. Free.

Miscellaneous
37. **Vehicles** can have a starter motor mounted on either engine block or clutch cover.
38. **Vehicles** must comply with the silencing levels specified in **Chapter 7 App.8**.
39. All measurements must be in accordance with these regulations when the car is unladen on a level horizontal surface.
40. Other than **Chapter 7** and in the previous Articles of this Appendix there are no special requirements under **Vehicle Regulations** for: Chassis/Engines Suspension Brakes Steering Cooling Oil Systems Fuel Systems Electrical Systems Weight/Ballast Exhausts.
CHAPTER 17 TRIALS

APPENDIX 6

Technical Regulations – Historic Sporting Trial Car Formula (HST)

Note: (1) * indicates that additional information must be provided in the Official Documents

General

1. **Vehicles** must be prepared in the spirit of the period. The term “period” refers to the Historic Class for cars manufactured between 1/1/1931-31/12/70 and for cars in the Post Historic Class those manufactured between 1/1/1971 – 31/12/1978.

2. The Organisers of a Historic Sporting Trials reserve the right to disqualify any car that has a specification, component or modification (other than permitted specification modifications) that would not have been used in period.

3. In all cases the onus of proving a specification, component or modification as being in period rests with the Competitor who must submit the required documentary evidence.

Eligibility

4. The Historic Sporting Trials Car Formula involves four-wheel **Vehicles** complying with all Chapter 7 Technical Regulations except:
   a. Chapter 7 App. 2 Arts. 11- 15 and 75 – 80
   b. Period Vehicle Waivers (E to G)

5. In the following **Regulations**:
   b. The term “period” refers to the Historic Class for cars manufactured between 1/1/1931-31/12/70 and for cars in the Post Historic Class those manufactured between 1/1/1971 – 31/12/1978.

Classes

6. **Vehicles** will be divided into two classes, Historic (1/1/1931 – 31/12/1970) and Post-Historic (1/1/1971 – 31/12/1978) according to their technical construction in the following regulations.

Chassis

7. Must be of period design, constructed of steel tube and complying with the wheelbase and track dimensions shown in Appendix 1 Chart 1.

8. **Vehicle** engines must be located with the centre of the foremost original manufacturer’s sparking plug orifice not more than one-fifth of the wheelbase behind the centre line of the front wheel hubs where the only operative water radiator is mounted in front of the engine or one-eighth if no radiator is fitted in front of the engine (tolerance 1cm).

Body

9. The **Chassis** must be covered by an open body of period design constructed from Aluminum, Steel or Fibreglass.

2025 National Competition Rules Chapter 17 Appendix 6 Historic Sporting Trial Car Formula
10. The bodywork must be of adequate strength and proper construction to provide a compartment for **Driver** and **Passenger**. It must meet the following criteria:
   a. The front and rear overhangs must be as specified in App.7 Chart 1.
   b. It must be equipped with fixed seats for a **Driver** and one adult **Passenger** and have seat backs not less than 30.5cm measured from the uncompressed base seat cushions along the angle of the seat back.
   c. The rearmost portion of the seats (without cushions) at this 30.5cm height must not be behind a line through the vertical axis of the rear hubs.
   d. All Passenger handles must be of rigid construction securely anchored and neither flexible nor adjustable.
   e. No handle must be capable of touching the ground in the event of a roll-over and all handles must be sited so that in the event of the car hitting a solid object the handles are protected from contact with the object by the chassis.
   f. Rear mudguards must be of adequate strength to protect **Driver** and **Passenger** from wheels and tyres.

**Engine**

11. Only the following engines are permitted in **Historic Class**:
   a. Ford Sidevalve.
   b. BMC A Series up to 948cc
   c. Austin 7
   d. Reliant 600/700/750 OHV
   e. Reliant 750 Sidevalve.
   f. Maximum of 60 thou overbore is permitted, the stoke must be standard and the camshaft and valves must be in original position.

12. **Post Historic Class** must use a period engine of up to 1650cc.

13. At least one period European Carburetor must be fitted and in operation

14. Forced induction is not permitted unless originally fitted to the vehicle.

15. Ignition systems must use a period distributor but the use of a contact breaker is not mandatory.

16. Ignition mapping or any form or engine management system is not permitted.

17. Electric Water Pumps and cooling fans are permitted.

18. The fitting of a generator is optional.

**Gearbox**

19. **Historic Class Vehicles** must be:
   a. Fitted with a gearbox from a series production car of period. the casing and gear ratios may not be modified other than the fitment of a Ford 100E input shaft to a Ford 8 gearbox.
   b. The gearbox must be bolted directly to the engine.

**Suspension**

20. **Historic Class Vehicles** must use transverse leaf front suspension unless the vehicle was manufactured in period using coil over dampers with the lower mountings on or close to the king pins. Otherwise **Vehicles** must be fitted with period leaf or coil spring systems.

21. Only steel bodied dampers are permitted.

22. Gas, remote reservoir or double adjustable dampers are not permitted.

2025 National Competition Rules Chapter 17 Appendix 6 Historic Sporting Trial Car Formula
23. Independent suspension is not permitted.

Front Axle

24. **Historic Class Vehicles** must be fitted with the front axle beam from an Austin 7 or Ford Sidevalve.

25. **Post Historic Class Vehicles** must be fitted with a steel front axle beam of period design.

Steering

26. Cars in the **Historic Class** must use a period steering box.

27. The position of the two swivel axles must not vary whilst steering.

28. Four-wheel steering is not permitted.

Rear Axle

29. **Vehicles** must use a live rear axle from a period series production car.

Transmission

30. **Vehicles** must be equipped with a differential gear which divides torque equally between the driving wheels.

31. **Vehicles** must not use any locked or lockable torque biasing or limited slip differentials or any other automatic device which is designed to achieve the same result.

32. Any clutch/torque converter attached to the engine flywheel must be bolted directly to the engine crankshaft.

33. Gearboxes and transmissions with a sequential shift are prohibited.

Brakes

34. Disc brakes are not permitted.

35. **Vehicles** must be fitted with operative and effective front and rear brakes.

36. Independent rear braking is permitted but no self-compensating controls are permitted on the rear brakes which must be single leading-shoe drum brakes.

Wheels and Tyres

37. Tyre security devices are permitted in the rims.

38. Wheels should not carry any chains, spikes or non-skid attachments.

39. **Vehicles** must carry one spare only which must be a driven wheel as fitted on the car fitted with any permitted tyre.

40. It is not permitted to add **Ballast** to the spare wheel.

41. Motorcycle tyres on non-driving wheels are permitted.

42. In **Historic Class** a control tyre specified in the **Official Documents** must be used on the driven wheels. Front wheels must bolt onto the brake/hub.

43. In **Post Historic** the rear wheels rims must not exceed a width of 11.43cm (4.5in) measured between the bead flanges nor a diameter of 15in.

44. Tyres must be of a maximum size 165mm x 15in on driving wheels and must be selected from **Chapter 8 Tyre List 3** or previous lists.

Weight

2025 National Competition Rules Chapter 17 Appendix 6 Historic Sporting Trial Car Formula
45. Free.

Miscellaneous
46. **Vehicles** can have a starter motor mounted on either engine block or clutch cover.
47. **Vehicles** must comply with the silencing levels specified in Chapter 7.
48. All measurements must be in accordance with these Regulations when the car is unladen on a level horizontal surface.
49. Fuel must be Gasoline / Petrol as defined in Chapter 1 App 1.
50. The lowest overall forward gear ratio is 23:1.
51. No Ballast may be carried.
## CHAPTER 17 TRIALS

### APPENDIX 7 Charts and Diagrams

### Chart 1

National Trials Car Formula dimensions (in mm) for Under and Over 850cc Classes.

<table>
<thead>
<tr>
<th>Class</th>
<th>Under 850cc</th>
<th>Over 850cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Minimum wheelbase</td>
<td>1905</td>
</tr>
<tr>
<td>B</td>
<td>Minimum front track measured on C/L of tyre's contact patch</td>
<td>1117</td>
</tr>
<tr>
<td>C</td>
<td>Minimum rear track measured on C/L of tyre's contact patch</td>
<td>1117</td>
</tr>
<tr>
<td>D</td>
<td>Minimum cockpit width</td>
<td>813</td>
</tr>
<tr>
<td>E</td>
<td>Minimum to Passenger handle</td>
<td>635</td>
</tr>
<tr>
<td>F</td>
<td>Maximum front axle to no. 1 plug (tolerance 10mm)</td>
<td>1/5 of wheelbase</td>
</tr>
<tr>
<td>G</td>
<td>Maximum rear overhang</td>
<td>1/3 of wheelbase</td>
</tr>
<tr>
<td>H</td>
<td>Minimum height side to seat</td>
<td>152</td>
</tr>
<tr>
<td>J</td>
<td>Minimum seat back height</td>
<td>305</td>
</tr>
<tr>
<td>K</td>
<td>Minimum front mudguard arc</td>
<td>90°</td>
</tr>
<tr>
<td>L</td>
<td>Maximum rear mudguard from tyre edge</td>
<td>51</td>
</tr>
</tbody>
</table>

**Note:** CD Radiator in front of engine, if water-cooled.

---

**NATIONAL TRIALS CAR FORMULA DIMENSIONS**

---

2025 National Competition Rules Chapter 17 Appendix 7 Charts and Diagrams
Diagram 1

Diagram illustrating the application of 6. The lower figures preceded by F indicate the correct penalties for a car stopping in the position shown.

Diagram 2

Location of Switch

Chart 2

PR Requirements

<table>
<thead>
<tr>
<th>Road Type</th>
<th>Time</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>White/UCR/Private</td>
<td>24 Hour</td>
<td>Letter to each householder within 50m and Personally visit and obtain signature from an adult member of any household within 100m of any Observed Section.</td>
</tr>
<tr>
<td>Yellow</td>
<td>22:00–7:00</td>
<td>A Public notice and Personally visit and obtain signature from an adult member of any household within 100m of any Observed Section.</td>
</tr>
<tr>
<td>A, B, Habitation Yellow</td>
<td>24 Hour 07:00-22:00</td>
<td></td>
</tr>
</tbody>
</table>