



Chapter 19

Autotest

CHAPTER 19 AUTOTEST

This Chapter must be read in conjunction with [Chapters 1-11](#) as appropriate.

This Chapter is separated into the following appendices:

- [App. 1](#) Organisers Regulations
- [App. 2](#) Clerk of the Course Duties and Responsibilities
- [App. 3](#) Technical Regulations applying to all Events
- [App. 4](#) Autotests Specific Regulations
- [App. 5](#) Production Car Autotests Specific Regulations
- [App. 6](#) AutoSOLO Specific Regulations
- [App. 7](#) Competitor Regulations including Licensing
- [App. 8](#) Summary of Requirements
- [App. 9](#) Drawings

- 1.1. The **Clerk of the Course** specific duties at [App. 2](#) are in addition to the relevant provisions and the applicable responsibilities within **NCR Chapters 1 – 3** and [5](#).
- 1.2. **Competitors** must comply with [App. 3](#) and [App. 7](#) of this Chapter and the sub-discipline specific [Appendix \(4, 5 or 6\)](#) as well as all applicable elements of **NCR Ch.1, 2 and 6**.
- 1.3. The **Technical Regulations** at [App. 3](#) apply as current at the date of the **Event**.
- 1.4. A summary of key requirements appears at [App. 8](#).

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Appendix 1 - Organisers Regulations

1. General

- 1.1. Permits for the organisation of **Autotests, Production Car Autotests, AutoSOLOs and Evening Autotest/AutoSOLO** are issued at the sole discretion of the **ASN**.
- 1.2. A **Club** can only organise an **Autotest** or **AutoSOLO Event** up to and including **Clubman** status unless and until all necessary upgrading criteria for a higher status have been complied with. Permits for **Production Car Autotests** will only be issued at **Clubman** status.
- 1.3. For an **Autotest** or **AutoSOLO** to be considered for upgrading to **Interclub** status it must first be observed in the same format as a **Clubman Event** and have a minimum entry of 15 starters.
- 1.4. The **Supplementary Regulations** must in addition to any all other relevant requirement of the **NCR** specify:
 - a. Details of the tests (see examples at [Drawings 1 and 2](#)) or when these details will be notified to **Competitors**.
 - b. The number of runs per **Driver** and how these count towards the results.
 - c. The method of identifying **Vehicles**.
 - d. The method of timing and whether or not the timing apparatus is started by the **Vehicle** or by the starting **Signal**.
 - e. The starting **Signal**.
 - f. Whether carrying a **Passenger** will be allowed or not or will be compulsory.
 - g. The marking of the **Tests**.
 - h. The method of calculation of results with reference to [App.9 Penalty Tables](#).
 - i. Any specific provisions regarding discounting of worst scores in the calculation of results.
 - j. The method of resolving any tied scores.
 - k. If any car may be entered to compete for the same award more than twice but in any event in all cases must be driven by different **Drivers**.
- 1.5. Before the start of the **Competition Event** all **Vehicles** and **Competitors** including any permitted **Passengers** must be checked for eligibility to compete.

2. Test Layouts

- 2.1. The route must be made available to all **Drivers** before any test.
- 2.2. There must be no optional direction of travel except as specified in [Art.3.10](#) below.
- 2.3. Clarification of where and how a change of direction or spin turn may be made without incurring a penalty must be available on request to all **Competitors** before the start of any test.
- 2.4. Practising for tests is not permitted.
- 2.5. The start and finish of all tests must be in a forward direction.
- 2.6. All **Drivers** should have the opportunity to walk the course before competing. If not the tests must be arranged such that the whole of the course is visible to the **Driver** from the start line
- 2.7. Markers should be not less than 1m in height unless otherwise specified in the **Official Documents**.

2.8. **'All forwards' tests (except AutoSOLOs):**

- a. Where there are no stop astride penalty lines (other than the **Start** and **Stop** lines) **Competitors** must not be allowed or required to travel more than 50m without changing direction by:
 - i. Executing a turn of over 180° around a single marker; or
 - ii. Changing direction through a three-marker line either in slalom fashion or by completing a turn of between 90° and 180°; or
 - iii. Changing direction through a three-marker triangle whose base is at right angles to the original line of travel requiring Competitors to turn through 90° from the line of entry.
- b. Whichever of the above methods is used to change direction this will not preclude the inclusion of less severe slalom manoeuvre which produce turns of less than 90° being incorporated between the mandatory directional changes every 50m.
- c. All lines or pairs of adjacent markers forming part of any all-forward test must be a minimum of 3.5m and a maximum of 5m long or apart.
- d. See [App.9 Drawing 1](#) Example of a test showing all of the above elements in use.

3. **Test Procedures**

- 3.1. **Drivers** will be considered under **Starter's** orders when instructed by an **Official** to proceed to the **Start** line.
- 3.2. **Drivers** then failing to proceed may forfeit their run or may be penalised in accordance with [App.9 Penalty Tables](#)
- 3.3. A start will only be valid if made under the **Vehicle's** own power.
- 3.4. Timing will start when the leading wheel of the front axle crosses the **Start** line.
- 3.5. When a **Vehicle** is required to stop astride a line the line must be between its front and back axles and all the area of the tyres in contact with the ground must be seen to have crossed the full width of the line.
- 3.6. Similarly if a car is required to cross a line with all four wheels all tyre contact area must be seen to be clear of the line.
- 3.7. Timing at completion of a test must be based on the leading wheel (on the front axle) crossing the **Finish** line.
- 3.8. Penalties will be applied for failure to cross the line with both front wheels or alternatively if timed to a flying finish for crossing the baulk line.
- 3.9. In the event of **Competitors** performing a test incorrectly their times must still be recorded together with the appropriate penalties.
- 3.10. In any diagram illustrating a test the dimensions should be approximate and for guidance only. Indications of the direction of travel of the competing **Vehicles** when crossing a line or passing between markers must be shown unless specified otherwise (ignoring 'shunts' to avoid markers).
- 3.11. A maximum penalty (see [App.9 Penalty Tables](#).) shall be applied if a **Competitor** fails to follow the prescribed test route by passing the wrong side of one or more markers crosses with both leading wheels a marked test line in the wrong direction out of the prescribed sequence or too many/few times without correcting the mistakes by returning to the point where they deviated from the test diagram before crossing the test finish line unless otherwise specified in the **Official Documents**.
- 3.12. In changes of direction and spin turns either lock can be used (unless the test diagram specifically states otherwise). It is recommended for safety reasons that **Drivers** are on the 'inside' during spin turns.
- 3.13. **Clerks of the Course** wishing to define direction of travel between markers should include any necessary marked line(s).
- 3.14. In the event of a re-run caused by a timing failure the greater number of penalties incurred in either run will be added to the time taken in assessing the performance on that test.

3.15. Each test layout must be attempted at least twice or more if specified in the **Official Documents** with the exception of **Events** organised for cars of Periods A – D.

4. Marking

4.1. **Judges** must be appointed to each test to adjudicate on:

- a. False starts;
- b. Crossing/failing to cross marker lines;
- c. Touching markers and not following the correct route.

4.2. **Competitors** will be provided with a score card for the **Organisers** to record times and penalties at the completion of each test run.

4.3. Marks will be lost for time taken (if applicable) and for any infringements of the test instructions such as striking a marker or crossing a boundary line.

4.4. Each **Competitor's** worst score on any test layout may be discarded in arriving at the total penalties for the Event if specified in the **Official Documents**.

5. Results

5.1. **Competitors** will start with zero marks.

5.2. Performance will be assessed as in [App.9 Penalty Tables](#), unless otherwise specified in the **Official Documents**.

5.3. All **Class** awards must be calculated on the basis of penalty marks lost with the **Competitor** incurring the least penalty points being judged the winner.

5.4. To be classified as a finisher **Competitors** must complete not less than half of the tests and must hand in their score card to **Officials** within 15 minutes of all other **Competitors** completing the final test.

5.5. In the event of a tie the **Competitor** who was first to have the lesser penalty from the start will be adjudged the winner unless otherwise specified in the **Official Documents**.

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Appendix 2 - Clerk of the Course Duties and Responsibilities

- 1.1. The duties and responsibilities of the **Clerk of the Course** at Autotest, Production Car Autotest and AutoSOLO Events includes ensuring the following:
 - a. The maximum size for any timed **Test** site is 200m by 200m. The 200m applies to the overall length and width of the area on which the **Test** is conducted and not the actual distance covered by a **Vehicle** performing the **Test**;
 - b. At all timed **Tests**, all spectators and non-essential **Marshals** not protected by a solid barrier capable of stopping a car must be separated by rope or fencing at least 10m from the edge of the course and at least 20m from the **Finish Line**. Any space at the edge of the **Course** allowed for braking and changes of direction must not impinge on the above distances.
- 1.2. Every **Test** must have at least one person responsible for:
 - a. The general running of the **Test**;
 - b. Observing and recording penalties;
 - c. Recording the times taken;
 - d. Completing the score card with the addition of penalties;
 - e. Returning displaced markers to their original position.
- 1.3. **Judges of Fact** must be appointed to each **Test** site to adjudicate on excessive sound.
- 1.4. **Warning Notices** as required by [Ch.3 App.3](#) must be displayed.
- 1.5. Fire extinguishers (minimum 5kg total capacity in units of not less than 2kg) must be available at each **Test** site.
- 1.6. The **Organisers** must provide a **First Aid Kit**.
- 1.7. A **Medium Sized Spill Kit** must be available at each test site.

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Appendix 3 - Technical Regulations applying to all Events

1. General

- 1.1. **Classes** are free but the **Class** structure must be stated in the **Official Documents**.
- 1.2. Any entered **Vehicle** must be a Car for vehicle tax purposes and currently registered and taxed unless otherwise specified in the **Official Documents**.
- 1.3. Whilst on the **Public Highway Vehicles** must comply with all Statutory Regulations as to Construction and Use.
- 1.4. Hybrid, Electric and Battery-powered and Light Goods Vehicles may compete in appropriate **Classes** subject to the **Official Documents**.
- 1.5. Production cars whose original wheelbase is less than that specified in [Ch.7 App.2 Art.22.6](#) are permitted.
- 1.6. Every **Production Car Autotest Vehicle** must have been in series production and on general catalogued sale and available from stock through normal retail dealer outlets in the UK. It is the **Competitor's** responsibility to demonstrate this conformity.
- 1.7. A summary of Key Requirements is at [App. 8](#).
- 1.8. **Competing Vehicles** must comply with the following:
 - a. Body (including Aerodynamics):
 - i. Body shape must conform to the original silhouette of the production **Vehicle** and retain the original layout of engine and transmission;
 - ii. Bumpers can be removed and wheel arch extensions added;
 - iii. An effective windscreen or Aero-type screen must be fitted;
 - iv. Any areas of window opening or transparent material originally specified as part of the vehicle to provide **Driver** visibility must remain consistent with the original specified dimensions and position. No additional areas may be added. If a **Vehicle** is equipped with any such additional areas they must be rendered opaque before the vehicle is allowed to compete;
 - v. **Vehicles** not complying with the above will be classified as **Specials**.
 - b. Engine must comply with [Ch.7 App.2 Art.8](#).
 - c. Silencing must comply with silencing levels in [Ch.7 App.8 Art.2](#).
 - d. Safety: all open **Vehicles** and **Specials** are recommended to fit safety roll-over bars to at least [Ch.7 App.3 Art.22](#).
 - e. The following parts of [Ch.7](#) remain unmodified by this section: Chassis; Seating; Suspension; Brakes; Steering; Tyres; Cooling; Oil Systems; Fuel Systems; Electrical Systems; Weight/Ballast; Exhausts; Silencing.
 - f. All **Vehicles** should carry a **Small Spill Kit** complying with [Ch.7 App.2 Art.22.15](#).
 - g. Tyres from [Ch.8 App.4 Lists 1B or 1C](#) are not permitted.

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Appendix 4 - Autotests Specific Regulations

1. Passengers

- 1.1. **Passengers** are not allowed on **Autotests** on any **Timed Tests**.

2. Unlicensed Drivers and Minimum Ages

- 2.1. Entries may be accepted from **Drivers** who are aged 15 years and over and are at least 135cm in height (subject to any medical or disability exemption) who do not have a valid, full RTA **Licence** subject to the following:

- a. Except where provided for in [Art.2.1.b](#), the **Vehicle** must by definition be a '**Touring Car**';
b. With the **ASN**'s written permission and where the **Official Documents** permit, the use of by definition production '**Sports Cars**' are permitted provided they are fitted with safety roll-over bars to at least the specification in [Ch.7 App.3 Art.22](#), and the roof erected or hard top fitted.
c. Engine capacity must not exceed 1400cc
d. Forced induction is not permitted.

- 2.2. It is recommended that a separate non-competitive test is provided in the itinerary so that novice **Drivers** without a valid, full RTA **Licence** can familiarise themselves with their **Vehicle** and its controls without penalty and to be observed to the satisfaction of the **Clerk of the Course** or another **Senior Official** before the **Competition** starts.

- 2.2.1. In the event that a separate non-competitive test is not provided, novice **Drivers** must demonstrate that the provisions of [Art.2.2](#) are satisfied (including observation by the **Clerk of the Course** or another **Senior Official**) before proceeding into and utilising the competitive test.

3. Test Layouts

- 3.1. **Vehicles** must not be allowed to travel more than 100m (between manoeuvres) without having to stop astride a penalty line and reverse or drive clear of the line or manoeuvre in a garage or box.
- 3.2. **Competitors** must either stop astride a penalty line or make a change of direction of at least 90° at a distance of not more than 25m before the finish line.
- 3.3. Any 'garage' used in an **Autotest** must have a minimum length of 6m and a minimum width of 3.5m.
- 3.4. When **Competitors** are required to perform a 180° turn in a box, the size of the box should be sufficient to contain a circle of 16m diameter.
- 3.5. All lines or pairs of adjacent markers forming part of any test must be a minimum of 3.5m long or apart.

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Appendix 5 - Production Car Autotests Specific Regulations

1. General

- 1.1. The **Official Documents** for an **Event** will state whether cabriolet / **Sports Cars** will compete with the hood erected or a hardtop fitted, or not.
- 1.2. Every **Production Car Autotest ('PCA') Vehicle** must have been in series production and on general catalogued sale and available from stock through normal retail dealer outlets in the UK.

2. Passengers

- 2.1. A **Passenger** must be carried in all **Timed Tests**.
- 2.2. The **Passenger** must occupy the seat alongside the **Driver** and, except where competing in a **Period Defined Vehicle (Non-Rally)** (both historic and non-historic **Vehicles**) Categories A-F, wear a properly fastened and approved seat belt at all times during the test.
- 2.3. No other **Passenger** is allowed.
- 2.4. The **Passenger** in a **Touring Car**, or a cabriolet/**Sports Car** with the hood erected or a hardtop fitted, must be aged 12 years or over and be at least 135cm in height (subject to any medical or disability exemption)
- 2.5. The **Passenger** in a cabriolet/**Sports Car** without the hood erected or hardtop fitted must be aged 16 years or over and be at least 135cm in height (subject to any medical or disability exemption)

3. Unlicensed Drivers and Minimum Ages

- 3.1. Entries may be accepted from **Drivers** who are aged 13 years and over and are at least 135cm in height (subject to any medical or disability exemption) who do not have a valid, full RTA **Licence**, subject to the following:
 - a. Except where provided for in [Art.3.1.b](#), the **Vehicle** must by definition be a '**Touring Car**';
 - b. With Motorsport UK's written permission and where the **Official Documents** permit, the use of by definition production '**Sports Cars**' are permitted provided they are fitted with safety roll-over bars to at least the specification in [Ch.7 App.3 Art.22](#), and the roof erected or hard top fitted.
 - c. The **Vehicle** engine capacity must not exceed 2000cc including forced induction;
 - d. The **Passenger** must be carried who holds a valid, full RTA **Licence** and be experienced in **Autotests** or **AutoSOLOs**.
- 3.2. It is recommended that a separate non-competitive test is provided in the itinerary so that novice **Drivers** without a valid, full RTA **Licence** can familiarise themselves with their **Vehicle** and its controls without penalty and to be observed to the satisfaction of the **Clerk of the Course** or another **Senior Official** before the **Competition** starts.
 - 3.2.1. In the event that a separate non-competitive test is not provided, **Drivers** must demonstrate that the provisions of [Art.3.2](#) are satisfied (including observation by the **Clerk of the Course** or another **Senior Official**) before proceeding into and utilising the competitive test.

4. Test Layouts

- 4.1. All lines, and pairs of adjacent markers, forming part of any test must be a minimum of 3.5m long or apart.
- 4.2. Any 'garage' must have a minimum length of 6m and a minimum width of 3.5m.
- 4.3. When **Competitors** are required to perform a 180° turn in a box, the size of the box must be sufficient to contain a circle of 16m diameter.

- 4.4. Each test must be designed so that a **Competitor** is not expected to engage reverse gear more than four times (ignoring manoeuvres to correct mistakes).
- 4.5. '**All forwards**' tests: [App.1 Art.2.8](#) applies.

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Appendix 6 - AutoSOLO Specific Regulations

1. General

- 1.1. The **Official Documents** for an **Event** will state whether cabriolet/**Sports Cars** will compete with the hood erected or hardtop fitted or not.

2. Technical Regulations

- 2.1. Every **AutoSOLO** car must have been driven to the **Event** must be currently registered (no trade plates) taxed insured and where appropriate in possession of a valid MOT

3. Passengers

- 3.1. A **Passenger** may be carried on any **Timed Tests**.
- 3.2. The **Official Documents** for an **Event** will specify whether the **Driver** can elect to carry a **Passenger** or not. If carried the **Passenger** must occupy the seat alongside the **Driver**.
- 3.3. One Passenger may be carried in each competing car to assist in giving directions to the Driver. Once the Event has started the number of occupants of the car must not be varied.
- 3.4. The **Driver** and where carried the **Passenger** must wear a properly fastened and approved seat belt at all times during the test except where competing in a **Period Defined Vehicle (Non-Rally)** (both historic and non-historic) Categories A-F.
- 3.5. No other **Passenger** is allowed.
- 3.6. The **Passenger** in a **Touring Car** or a cabriolet/**Sports Car** with the hood erected or a hardtop fitted must be aged 12 years or over and be at least 135cm in height (subject to any medical or disability exemption).
- 3.7. The **Passenger** in a cabriolet/**Sports Car** without the hood erected or hardtop fitted must be aged 16 years or over and be at least 135cm in height (subject to any medical or disability exemption).

4. Unlicensed Drivers and Minimum Ages

- 4.1. Entries may be accepted from **Drivers** who are aged 13 years and over and are at least 135cm in height (subject to any medical or disability exemption) who do not have a valid full RTA **Licence** subject to the following:
 - a. Except where provided for in [Art.4.1.b](#), the **Vehicle** must by definition be a '**Touring Car**';
 - b. With the **ASN**'s written permission and where the **Official Documents** permit, the use of by definition production '**Sports Cars**' are permitted provided they are fitted with safety roll-over bars to at least the specification in [Ch.7 App.3 Art.22](#), and the roof erected or hard top fitted.
 - c. The **Vehicle** engine capacity must not exceed 2000cc including forced induction
 - d. The **Passenger** must be carried who holds a valid full RTA licence and be experienced in **Autotests** or **AutoSOLOs**.
- 4.2. It is recommended that a separate non-competitive test is provided in the itinerary so that novice **Drivers** without a valid, full RTA **Licence** can familiarise themselves with their **Vehicle** and its controls without penalty and to be observed to the satisfaction of the **Clerk of the Course** or another **Senior Official** before the **Competition** starts.
 - 4.2.1. In the event that a separate non-competitive test is not provided, **Drivers** must demonstrate that the provisions of [Art.4.2](#) are satisfied (including observation by the **Clerk of the Course** or another **Senior Official**) before proceeding into and utilising the competitive test.

5. Test Layouts

- 5.1. Only sealed surfaces can be used for **AutoSOLO** tests which must be run in an all-forwards direction.
- 5.2. The course must consist of a series of gates slaloms and turns of at least 90° every 60m.
- 5.3. The maximum spacing of cones in a slalom along the line of the test is 20m.
- 5.4. Turns of over 90° must be on a minimum radius of 5m.
- 5.5. All lines or pairs of adjacent markers forming part of any test must be a minimum of 3.5m and a maximum of 5m long or apart.
- 5.6. A typical test is illustrated in [App.9 Drawing 2](#).

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Appendix 7 - Competitor Regulations including Licensing

1. Licences

- 1.1. **Drivers** and where applicable **Passengers** must produce a valid **Club** membership card and **Competition Licence** (see [Ch.6 Annexe A](#)).
- 1.2. **Competitors** must declare on their entry form if they hold a valid full RTA **Licence**.
- 1.3. **Competitors** holding a valid full RTA licence may use any **Vehicle** allowed by the **Official Documents** including **Technical Regulations**.
- 1.4. **Passengers** under 18 years old will not be considered as **Competitors** for the purpose of **Club** membership.

2. Instructions to Competitors

- 2.1. Before the start cars and **Competitors** (including any **Passengers**) must be checked for eligibility.
- 2.2. Any **Competitor** not reporting as instructed may be fined penalised disqualified or forfeit their starting position.
- 2.3. Except where competing in **Period Defined Vehicles (Non-Rally)** (both historic and non-historic) Categories A-F it is recommended that drivers wear as a minimum a lap belt on any timed test.
- 2.4. A **Vehicle** may not be **Entered** to compete for the same award more than twice unless otherwise specified in the **Official Documents** and in all circumstances it must be driven by different **Drivers**.

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Appendix 8 - Summary of Requirements

A Summary of Key Requirements

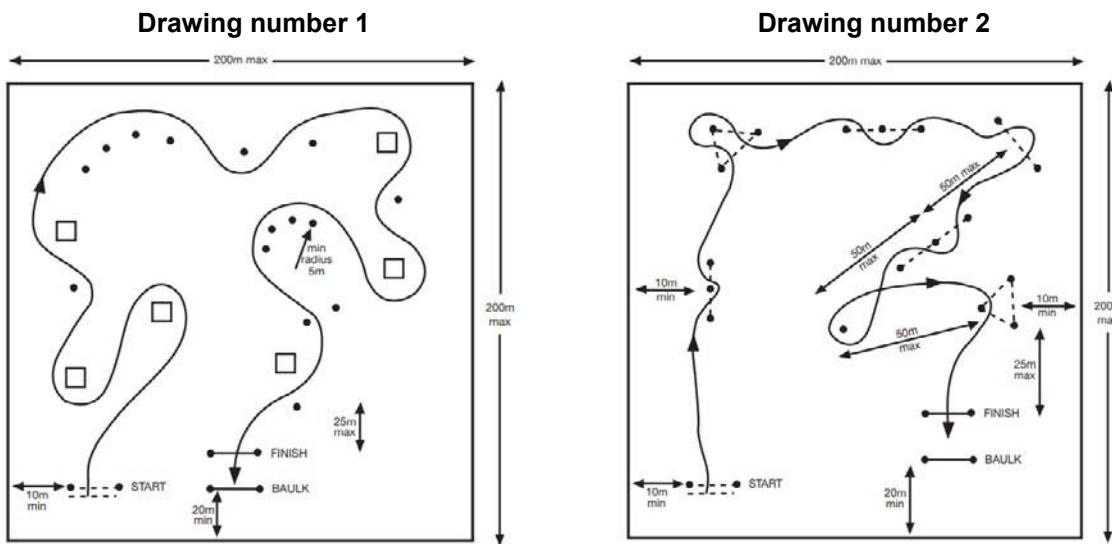
	Autotest with Reversing 200m x 200m	Autotest all Forwards 200m x 200m	Production Car Autotests 200m x 200m	“Common Rules” Test Area for Autotest 200m x 200m	AutoSOLO 200m x 200m
Maximum Test Area					
Surface	Free	Free	Free	Free	Sealed
Cone height “should” be	1m	1m	1m	1m	1m
Gate width	3.5m min	3.5m min – 5m max	3.5m min	3.5m – 5m	3.5m min – 5m max
Maximum distance before manoeuvres	100m	50m	50m	50m max	60m
Reverse gear engagements	Free	Should be none!	4 max	“None”	Should be none!
Turns over 90°	Free	Free	Free	Free	min 5m radius
180° turn in box	16m dia min	16m dia min	16m dia min	16m dia min	min 5m radius (10m Ø)
“Garage” size (minimum)	6m x 3.5m	N/A	6m x 3.5m	N/A	N/A
Slalom spacing					20m max
Technical					
MOT	No – if Official Documents state not needed	No – if Official Documents state not needed	No – if Official Documents state not needed		Yes
Tax	No – if SR state not needed	No – if SR state not needed	No – if SR state not needed		Yes
Minimum age driver	15	15	13		13
Maximum cc	1400*	1400*	Touring car – 2000cc* inc forced induction		Touring car – 2000cc* inc forced induction
Passenger allowed	No	No	Mandatory – Must have Full RTA Licence and Autotest experience if driver does not		Subject to Official Documents
Minimum age passenger	None allowed	None allowed	Closed Car = 12 Open Car = 16 If driver has Full RTA Licence and Autotest experience		Closed Car = 12 Open Car = 16 If driver has Full RTA licence and Autotest experience
Type of car – young driver	Touring car	Touring car	Touring car		Touring car
Battery powered and light commercial vehicles	Subject to Official Documents	Subject to Official Documents	Subject to Official Documents		Subject to Official Documents
Must be driven to event	No	No	No		Yes

Note: Chapter 7 Technical Regulations applies in addition to App.3 of this Chapter.

*** Unlimited when Driver holds a Full RTA Licence.**

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Appendix 9 - Drawings



Penalty Table

PENALTY TABLE		Marks lost		
		AutoSOLO	Autotest	PCA
(a)	Each minute late in reporting at the start or a restart	5	5*	5*
(b)	Not attempting or being ready to attempt a test when instructed to do so	20*	20*	20*
(c)	Not performing a test correctly, other than in (d) or (e) or not completing the test or making a false start	20*	20*	20*
(d)	Striking any barrier, wall or marker or crossing the boundary of a test (per mistake)	5	5	5
(e)	Failing to cross or stop at any line or specified position as required in a test (per mistake)	5	5	5
(f)	Every second (and fraction) taken to complete test	1 and fraction	1 and fraction	1 and fraction

*Plus the lowest by any **Competitor** in the class making an attempt correctly on that run. The maximum penalty (including time) for any test cannot exceed penalty (b) or (c) above. All unless otherwise specified in the **Official Documents**