

**ASSOCIATION OF  
AUTHORISING  
BODIES**



**RULES & REGULATIONS**

**2026 EDITION**

**CLASS 1**

**Citroen C1, Peugeot 107 & Toyota Aygo.**



*"The Association reserve the right to alter/amend the Rule Book as required, and that the Association has the right to review and amend any Class or Construction Rules at the end of each racing year."*

**VALID FROM JANUARY 2026  
UNTIL FURTHER NOTICE**

**ALL PREVIOUS EDITIONS ARE INVALID**

**NEW REGULATIONS ARE MARKED #**

**IT IS THE RESPONSIBILITY OF THE DRIVER/CONSTRUCTOR TO ENSURE THAT ALL VEHICLES CONFORM FULLY TO THE REGULATIONS AND RULES CONTAINED WITHIN THIS RULEBOOK**

**IF THE REGULATIONS AND RULES DO NOT STATE THAT "YOU CAN DO IT"  
THEN IT MUST BE PRESUMED THAT IT CANNOT BE DONE.**

## **CLASS 1** **Citroen C1, Peugeot 107 & Toyota Aygo**

**FOR GENERAL BASIC CONSTRUCTION RULES (i.e., Basic requirements for all class of saloon vehicle).  
SEE SEPARATE RULE BOOK –SALOONS - GENERAL**

**CLASS SPECIFIC CONSTRUCTION RULES**

**CLASS 1 – Citroen C1, Peugeot 107, Toyota Aygo**

INDEX	PAGE
CLASS SPECIFICATION	1
VEHICLE CONSTRUCTION RULES GENERAL	1
1 Engine & Transmission/Gearbox	1
2 Chassis/Body Shell	5
3 Windscreen Glass	6
4 Steering	6
5 Safety Harness	6
6 Seat	6
7 Fire Extinguisher	6
8 Identification	6
9 Electrical/Instruments	6
10 Fuel	7
11 Cooling Systems	7
12 Brakes	7
13 Wheels	7
14 Tyres	8
15 Exhaust	8
16 Safety Shields	8
17 Suspension	8
18 Protection	9
19 Ballast	9
20 Vehicle Check Sheets	9
 DRAWINGS	12
FIGURES	12

**VEHICLE CONSTRUCTION RULES - CLASS 1 – Citroen C1, Peugeot 107 & Toyota Aygo.****CLASS SPECIFICATION**

Must be a Front Wheel Drive Saloon of specified type and manufacture.

Specified Vehicles – “Right Hand Drive” and “Manual” and “Toyota Multi-Mode/Citroen SensorDrive/Peugeot 2-Tronic” versions only.

All other versions prohibited.

Specified vehicle.

Citroen C1 998cc 12V VVTi engine, 3 or 5 door bodyshells.

Excluding 1100cc, 1200cc, 1300cc and GT/GTi, Rally & Homologation model variants.

The Donor car must be of a build date manufactured after 1<sup>st</sup> June 2005 and before 1<sup>st</sup> January 2013.

The chassis-Vin number plate may be retained or removed.

Peugeot 107 998cc 12V VVTi engine 3 or 5 door bodyshells.

Excluding 1100cc, 1200cc, 1300cc and GT/GTi, Rally & Homologation model variants.

The Donor car must be of a build date manufactured after 1<sup>st</sup> June 2005 and before 1<sup>st</sup> January 2013.

The chassis-Vin number plate may be retained or removed.

Toyota Aygo 998cc 12V VVTi engine 3 or 5 door bodyshells.

Excluding 1100cc, 1200cc, 1300cc and GT/GTi, Rally & Homologation model variants.

The Donor car must be of a build date manufactured after 1<sup>st</sup> June 2005 and before 1<sup>st</sup> January 2013.

The chassis-Vin number plate may be retained or removed.

The above vehicles were produced as a collaboration between Citroen, Peugeot and Toyota. Whilst the majority of basic components are common, there are differences in certain items. Each vehicle must be wholly as originally manufactured. The mixing of components between each manufacturers model of vehicle prohibited.

NASA reserves the right to amend the above list of vehicles giving 12 months' notice regarding the addition or deletion of vehicles.

**VEHICLE CONSTRUCTION RULES - GENERAL**a). **STATEMENT of CONFORMITY.**

Only methods of construction and modifications as listed are permitted. Any further modifications, other than those permitted, are prohibited. Any modifications other than those listed within the Vehicle Construction Rules are specifically excluded.

i.e., If the rules do not “say” that a modification is permitted then it is not allowed.

## b). The vehicle Roll Cage must comply with the Roll Cage Construction Rules as shown in the Saloons General rules.

**1. ENGINE and TRANSMISSION/GEARBOX**

## 1.1 a). Standard production original manual transmission engine and gearbox components and certain NASA Scrutineers Committee permitted replacement engine/gearbox components only must be used and be correctly fitted.

## b). The modification or alteration or interchanging of any unspecified part or component of the specified vehicle manufacturer's engine &amp; gearbox is prohibited. This includes prohibition of using any standard production parts to alter its working design.

## c). All engine and gearbox mountings must be retained in their original positions, be of good order and be appropriate to that vehicle. Standard production originals and NASA Scrutineers Committee permitted replacement engine/gearbox/axle “mountings” only must be used. Modification to and or of such mountings prohibited. The conversion of “flexible type” mountings to “solid type” mountings prohibited.

## 1.2 Engine &amp; Bodyshell combinations.

Citroen C1 998cc 12V ( I3 ) VVTi engine 3 or 5 door bodyshells.

Excluding 1100cc, 1200cc & 1300cc model variants.

Note.

There are additional restricted and specific rules for this vehicle.

Any Citroen C1 998cc 12 valve manual transmission engine & gearbox may be used in any 2005 to 2013 year of Citroen C1 998cc 12v 3 or 5 door bodyshell. See Rule 1.20 for permitted gearbox & CWP combinations.

The Donor car must be of a build date manufactured after 1<sup>st</sup> June 2005 and before 1<sup>st</sup> January 2013.

The use of a complete post 1<sup>st</sup> January 2013 engine and or components or parts from a post 1<sup>st</sup> January 2013 engine is prohibited.

Peugeot 107 998cc 12V ( I3 ) VVTi engine 3 or 5 door bodyshells.

Excluding 1100cc, 1200cc & 1300cc model variants.

Note.

There are additional restricted and specific rules for this vehicle.

Any Peugeot 107 998cc 12 valve manual transmission engine & gearbox may be used in any 2005 to 2013 year of Peugeot 107 998cc 12v 3 or 5 door bodyshell. See Rule 1.20 for permitted gearbox & CWP combinations.

The Donor car must be of a build date manufactured after 1<sup>st</sup> Jun 2005 and before 1<sup>st</sup> January 2013.

The use of a complete post 1<sup>st</sup> January 2013 engine and or components or parts from a post 1<sup>st</sup> January 2013 engine is prohibited.

Toyota Aygo 998cc 12V ( I3 ) VVTi engine 3 or 5 door bodyshells.

Excluding 1100cc, 1200cc & 1300cc model variants.

Note.

There are additional restricted and specific rules for this vehicle.

Any Toyota Aygo 998cc 12 valve manual transmission engine & gearbox may be used in any 2005 to 2013 year of Toyota Aygo 998cc 12v 3 or 5 door bodyshell. See Rule 1.20 for permitted gearbox & CWP combinations.

The Donor car must be of a build date manufactured after 1<sup>st</sup> Jun 2005 and before 1<sup>st</sup> January 2013.

The use of a complete post 1<sup>st</sup> January 2013 engine and or components or parts from a post 1<sup>st</sup> January 2013 engine is prohibited.

**1.3 Crankshaft Stroke.**

The crankshaft stroke must remain as fitted to provide the original engine cubic capacity.

The crankshaft journals may be reground and or polished. The maximum permitted regrind is restricted to that for which standard replacement oversize bearings are readily available.

Note.

The use of a post 1<sup>st</sup> January 2013 engine crankshaft is prohibited.

**1.4 Engine Block.**

"Decking/Skimming/Re-facing" of engine block top surface prohibited.

Cylinder Bore.

Standard size pistons and liners only are permitted.

Standard size replacement pistons and liners only are permitted.

Note.

It is not permitted to overbore and or fit oversize standard replacement pistons and/or liners.

**1.5 Balancing.**

After market balancing or reconditioning balancing and lightening /polishing of any components is not permitted.

**1.6 Water pump. – As Standard Production.**

**1.7 Camshaft.**

Cam Lift See "Check Sheet".

Cam/Valve Timing See "Check Sheet".

**1.8 Ignition System.**

a). The original standard production Electronic Engine Management Control Unit (ECU) **must** be substituted by a NASA supplied ECU. The NASA ECU shall be obtained from the NASA Chief Scrutineer or other designated NASA official. When fitted the NASA ECU shall be connected to the original standard production correct engine and electrical system sensors. E.g., Engine RPM, Crankshaft, Camshaft sensors etc.

The adaptation of any other ECU, or sensors where they are fitted to other vehicle makes and/or models is prohibited.

Modification including disconnection and or removal and or sealing of any part of the ignition and or fuel system to prevent or enhance operation prohibited.

b). The standard production NASA Electronic Control Unit (ECU) and associated sensors and Diagnostic "reader"/"interrogator" "plug in" connections (OBD port) **must** remain in their original standard production locations and must work. i.e. Be capable of operating when connected.

Note.

An On-board diagnostic (OBD) port must operate as standard production and be readable at all times. No device may be connected/plugged into the OBD port that has to be removed and or unplugged to enable a diagnostic reader to be connected/plugged into it.

c). The NASA ECU shall be marked with identification showing the vehicle club prefix and vehicle number.

d). The placing of or use of devices, whether within the wiring system or elsewhere, to provide false information to the NASA ECU or any part of the fuel delivery control system is prohibited.

e). For original ECU's that are fitted with a vehicle immobiliser facility, the particular NASA ECU immobiliser function may be overridden or disconnected, provided no other function of the ECU is affected. ECU rewriting, remapping, chipping and or performance enhancing modification are not permitted.

NASA shall not be held responsible for the performance or damage of the above unit.

f). Ignition Leads & Spark Plugs – Free.

g). Standard production ignition coils must be retained.

h). Engine Rev Limit - "Rev Limiters" must operate at **6750** rpm maximum.

Note.

Competitors are strongly advised to ensure that their "rev limiters" are set below the stated maximum rpm as their own instrumentation at "Home", "Workshop" or elsewhere may provide a different reading to the NASA designated checking instruments. In the event of any discrepancy; the RPM reading as per the NASA designated instruments will be used as the datum. RPM readings found to be above the stated maximum will result in disqualification and a report for disciplinary action.

Note.

NASA reserves the right to:

i. Remove and or retain the ECU fitted to the competitor's vehicle and retain that unit for inspection.

ii. Remove the NASA ECU and substitute it for an alternative NASA supplied unit for a set time period. e.g., the duration of a race meeting or a stated number of races.

iii. Remove the ECU and substitute it for a unit as used by another competitor.

- iv. Place a “Scrutineers Seal” onto the ECU for a specified period of time chosen by the Chief Scrutineer.
- v. Connect a “reader” to read and or check ECU settings.
- vi. NASA shall not be held responsible for the performance or damage of the above unit.

1.9 Cylinder Head.

The cylinder head MUST be the correct type for the engine concerned.

- i. Reconditioning of the cylinder head and its associated components must be carried out in accordance with the original manufacturer's recommendations and accepted “reconditioning and repair” practice. Excessive removal of metal or reconditioning and or chamber radiusing that is carried out to the extreme will result in the components etc; being deemed as outside the Class regulations and thus illegal.
- ii. Cylinder Head Thickness - See “Check Sheet”.
- iii. Cleaning: -  
Cleaning up or smoothing by removing metal or polishing of the original standard production finish is not permitted  
Chemical, decarbonising fluid, “Ultrasonic” clean and or “Sodium Bicarbonate (Soda Blasting)” cleaning only permitted.

Inlet & Exhaust Ports

The inlet port and exhaust port surfaces, within the cylinder head, must remain as manufacturers original standard production finish and dimensions.

Note.

Replacement valve seats are not permitted.

Valve seat and valve head must remain as original manufacture. Reconditioning and or alterations from standard production finish are prohibited.

Valve Head Diameter

See Check Sheet.

Valve Guides.

A standard production OE reconditioned and or replacement type only is allowed.

‘K-lined’ valve guides not permitted.

Cylinder Head Gasket.

Standard replacement types only permitted.

Cylinder Head Cam Cover.

Standard replacement types only permitted.

The external surface only may be cleaned and polished and or have free decoration by painting or powder coating.

1.10 Air Box & Filter Box & Air Filter/Air Cleaner & Air Entry Ductwork.

The standard production air filter/cleaner “Manual” and or “Multi Mode” casing only is permitted.

The air filter/cleaner casing must be must be retained in its standard production form and fitted in its standard production location.

Modification of air filter/cleaner casing prohibited.

Air Entry Pipe/Ductwork.

The air intake/inlet pipe/ducts from the casing stub to its open-air entry orifices must be retained in its standard production form and location.

A “mesh” or “lattice” may be fitted at or near the open-air entry orifice minimise track debris entry.

Air Filter/Cleaner element type.

Free.

However, an air filter must be fitted and secured within the standard production air filter casing in the standard production location.

All the air must enter the air filter/cleaner casing via the standard production entry orifice and associated air inlet ducts only.

1.11 Engine Fuel System

The standard production engine fuel system shall be retained and remain in its standard production form.

Fuel Injection Unit/Throttle Body.

The standard production multiport Fuel Injection Unit/Injector/Throttle body must be retained in its standard production form.

Modifications to and or removal of any part of Fuel Injection Unit/Injector/Throttle body prohibited. The adaptation of any other systems, where they are fitted to other vehicle makes and/or models, including fitting of non-standard injector is prohibited.

The Fuel Injection Unit/Throttle body must be fitted with a throttle return spring of sufficient size, strength and movement such that the throttle closes once the ‘accelerator’ or ‘throttle’ pedal is released.

Fuel delivery control.

The standard production single “accelerator” or “Throttle” pedal, including “Accelerator/throttle cable” must be retained to control the operation of the fuel delivery system to the engine.

Note.

The accelerator cable/connection system must be sufficiently routed, shielded from any heat source, and lubricated to minimise the risk of seizure.

Fuel Sensors.

Fuel Sensors shall be retained and remain in their standard production form.

Inlet Manifold, Fuel Rail and Injectors.

The standard production inlet manifold, fuel rail, injectors and pulsation damper shall be retained and remain in standard production form, complete with standard production sensors and connecting electrical wiring. The disconnecting or bypassing or modification of the same is prohibited.

Fuel Pump & Regulator.

The original vehicle manufacturers fitted fuel pump and regulator may be retained or removed.

Permitted alternative replacement pump to original is Either Bosch 038 (Vauxhall 2.0l cavalier) Or a Sytec FP603 (3 Bar). Adjustable pressure type prohibited.

Permitted alternative fuel regulator to original is one that must be equal/equivalent to original with set fuel pressure no greater than original standard production fuel pressure settings.

Carbon/Charcoal Canister.

The original vehicle manufacturers fitted “Evaporative carbon/charcoal canister” may be retained or removed.

If removed remaining hose connections must be blanked off with metal.

**1.12 Engine Oil System.**

The standard production engine oil system shall be retained and remain in its standard production form with the exception of:

- a). The oil pick-up pipe may be repositioned and/or modified to function in the event of oil surge.
- b). The fitting of a sump oil baffle plate or plates permitted to minimise oil surge.
- c). Oil breather catch tank permitted.
- d). The fitting of an oil windage tray and or crankshaft scraper prohibited.

**1.13 Component Sealing.**

The engine must have, available at all times, provision for the fitting of at least one readily accessible scrutineer's wire seal/tag, such that the fitting of the wire seal/tag prevents access to internal engine components.

A minimum of two adjacent engine cylinder head retaining studs or bolts must have a single 1.2mm (1/16") diameter hole pre-drilled in each of them.

- i. Where the method of cylinder head retention is by means of stud and locking nut the hole must be located above a cylinder head retaining locknut but below the top surface of the stud. (See Fig 1a. & 1b.).
- ii. Where the method of cylinder head retention is by means of a bolt the hole must be located through two adjacent edges of the hexagon head of the bolt.
- iii. Where cylinder head retaining studs and bolts are inaccessible, then a single 2mm (1/16") diameter hole must be pre-drilled in two accessible parts or areas of the engine.

The engine cylinder head, cam-cover must have, available at all times, provision for the fitting of at least one readily accessible scrutineer's wire seal/tag, such that the fitting of the wire seal/tag prevents access to internal engine components.

A minimum of two adjacent bolts must have a single 1.2mm (1/16") diameter hole pre-drilled in each of them.

**1.14 Transmission/gearbox.**

- a). The standard production transmission/gearbox, drive-shafts, drive shaft vibration dampers and wheel hubs shall be retained in their standard production location and shall remain in their standard production form.
- b). Standard production originals and NASA Scrutineers Committee permitted replacement transmission/gearbox drive-shaft and wheel hub components only must be used.

**1.15 Gearbox/Transmission.**

The transmission or gearbox must remain as per the manufacturer's original specification, complete with all gears including reverse gear and speedometer drives retained.

The transmission or gearbox must be:

“Manual”

The Manual operating system must be as standard production including cables.

**Or**

Multi-Mode type (MMT) reference:

Toyota - Multi-Mode.

Citroen – SensorDrive.

Peugeot - 2-Tronic.

The MMT operating system must be as standard production including materials complete with transmission ECU, actuators, sensors and switches.

**a). Gear Selector mechanism.**

The standard production gear lever and gear selector system must be retained to control the operation of the transmission system “gear change” mechanism.

Steering wheel mounted or operated gear change devices are prohibited.

“Quick Shift” gear lever or gear selector devices are prohibited.

**b). Gear Ratios.**

See “Check Sheet”.

**c). Differential.**

The differential must be free revolving at all times.

**d). Differential Turning Torque.**

See “Check Sheet”.

**e). Crownwheel & Pinion (CWP) Ratio.**

As listed on the NASA Check Sheet.

Interchanging/Swapping of differential CWP ratios between gearboxes prohibited.

The correct differential CWP and ratio must be fitted in the correct gearbox.

**f). Constant Velocity (C.V.) Joints.**

The original standard production C.V. joints and flanges must be retained.

g). Oil Cooler - Transmission/gearbox.

Where a transmission/gearbox oil cooler is fitted as a standard production item it must be retained.

The fitting of a non-standard production or aftermarket type or fitting a cooler where one was not originally fitted is prohibited.

Junior drivers only.

The gear stick/lever may be extended rearwards from standard production to suit the stature and arm reach of a Junior Driver only.

Note.

Where a vehicle is to be driven by an adult competitor, any extensions fitted for a Junior competitor must be removed.

1.16 Transmission Location.

The transmission must be located such that it is connected to the engine as per original manufacturer's specification.

1.17 Clutch.

The 'Clutch' foot pedal and operating system must be as standard production including materials.

Standard production original and replacement clutch cover & plate only permitted.

The clutch cover plate may be balanced to the original manufacturer's standard only.

1.18 Engine Stabilisers.

The standard production engine stabilisers shall be retained in their standard production location and shall remain in their standard production form.

**2 CHASSIS BODYSHELL**

## 2.1 The bodyshell must be complete in its ENTIRETY, including all inner and outer wings, bonnet/engine cover, luggage compartment lid (boot/tailgate), doors, door pockets, rear seat bulkhead &amp; backrest panel, rear inner wheel arches, rear seat pan, rear parcel shelf, boot floor, battery box/tray, rear valance and seams fitted.

Note.i). Replacement panels.

Standard production or NASA permitted proprietary manufactured replacement body panels only to be used

The removal of any vehicle panel including engine cover/bonnet/luggage compartment lid/boot lid and replacement of the same with non-proprietary replacement metal panels is prohibited.

ii). Reinforcement of panels.

Reinforcement of panels is prohibited. Foam filling of panels is prohibited.

iii). Removal of bodyshell panels (Part of) and fixings.

Nil.

Removal of components or fixings on the body shell or its mechanicals is not permitted nor is the modification / relocation of same.

2.2 Vehicle Dimensions – Size and Weight – Restricted.i. Vehicle Wheelbase – See Check Sheet.ii. Vehicle Track. – See Check Sheet.iii. Vehicle Weight.

The total weight of the complete vehicle excluding driver at any time must be of an absolute minimum of 650Kg.

Note.

a. Vehicles may be subject to a minimum weight spot check, using any NASA designated corner weight scales, at any NASA designated time, frequency and location during a race meeting. This will be carried out by Scrutineers or other designated officiating persons.

b. Vehicles found below the absolute minimum weight of 670 Kg will be immediately disqualified from the race meeting concerned and the competitor(s) will be reported for disciplinary action.

c. Ballast – See Rule 19.1.

d. A refusal to comply with a request to weigh a vehicle will result in immediate disqualification from the race meeting concerned and the competitor will be reported for disciplinary action.

e. Competitors are strongly advised to ensure that their vehicles are above the absolute minimum weight as their own scales at "Home", "Workshop" or elsewhere may provide a different reading to the NASA designated scales. In the event of any discrepancy the weight as per the NASA designated scales will be used as the datum.

f. NASA reserves the right to amend and or revise the minimum weight at any time.

iv. Vehicle ride height.

Any car where the ride height is felt to be high or to low to enhance the cars performance will be ordered and required to alter its ride height in respect of safety. Failure to comply will result in disqualification and disciplinary action.

2.3 Rear passenger Compartment Doors.

The rear passenger's compartment doors (Near side and offside) and tailgate must remain as original. Removal of door tops (Window Frames) and or "skinning" prohibited.

2.4 Bonnet.

Removal or "skinning" of strengthening braces/ribs prohibited.

Bonnet hinges may be retained or removed.

2.5 Bumpers.

The original standard production front and rear bumpers must be retained complete and remain in the standard production location. Non-standard or aftermarket front and/or rear bumpers prohibited – See Note i.

The original bumper fixing brackets/tags may be retained or removed.

It is permitted to fit 2 replacement and or additional bumper support brackets, constructed of maximum of 25mm steel flat, 3mm thickness. Each with 8mm bolt fixings.

Note.

- i. The mixing of front and rear bumpers between the Citroen C1, Peugeot 107 and Toyota Aygo models of vehicle is not permitted
- ii. Failure to ensure that the bumper remains fitted during racing is a Black Flag (Race Disqualification) offence.

## 2.6 Rear Hatchback/Tailgate.

The 100% automotive glass glazed rear hatchback/tailgate must be removed.

As Saloons General - Roll Cage – Rule 17 - Safety Bar.

The original tailgate hinges may be retained or removed

## 2.7 Aerofoils/spoilers - Restricted.

The fitting and or use of aerofoils/spoilers is not permitted.

## 2.8 Towing Eye.

The original standard production towing eye must be removed.

- # However, a flexible/"strap" type towing eye must be fitted at the front and rear of the vehicle. Location/identifying label(s) may be fitted.

## 3. **WINDSCREEN / GLASS - As Saloons General.**

### 3.1 Glazed Rear Hatchback/Tailgate.

See Rule 2.6

## 4 **STEERING**

### 4.1 The steering system from the steering wheel to the front wheels must remain as originally fitted to the vehicle make and model by the original vehicle manufacturer.

Junior drivers only.

The location of the steering wheel may be extended rearwards from standard production to suit the stature and arm reach of a Junior Driver only.

Note.

The steering wheel must be no further forward than standard production.

Where a vehicle is to be driven by an adult competitor, any extensions fitted for a Junior competitor must be removed.

### 4.2 Steering Column – Restricted.

The steering column must be as standard production and of correct standard production material.

It is not permitted to shorten nor lengthen the original standard production steering column.

The standard production column mounting bracket may be retained or removed.

If bracket retained - The original bracket must be fitted with padding for protection of driver legs.

If bracket removed - The column must be mounted from the front roll cage cross bar. The column must be mounted such that it remains at the standard production height and location.

Note.

The steering wheel height/angle adjustment bracket/lever must be securely fixed in its chosen height/angle location by welding or secondary fastening.

Junior drivers only.

The location of the steering column may be amended from standard production to suit the stature and arm reach of a Junior Driver only.

Note.

Where a vehicle is to be driven by an adult competitor, any amendments carried out for a Junior competitor must be removed.

### 4.3 The standard production power steering system i.e., steering column, motor, rack and associated parts, must be retained as standard production.

Steering column mounted power steering units must be fitted with padding for protection of driver legs.

## 5 **SAFETY HARNESS - As Saloons General.**

## 6 **SEAT - As Saloons General.**

## 7 **FIRE EXTINGUISHER - As Saloons General.**

## 8 **IDENTIFICATION - As Saloons General.**

## 9 **ELECTRICAL / INSTRUMENTS**

### 9.1 Wiring Harness & Charging system.

The standard production battery charging system including alternator must be retained.

### 9.2 Instrumentation and Gauges

The speedometer and associated speedometer cable up to the external gearbox connection point may be retained or removed.

The use of an engine/fuel system "Rev limiter" and/or gear "Shift light" system prohibited.

9.3 **Battery type – Restricted.**  
 A single 12 Volt electrical battery of a maximum dimension size and weight that is equal or similar to the standard production item only must be used. Electrical capacity free.  
 N.B. Standard production “Battery tray” must be retained.  
 Battery location – as Saloons General Rule 9.8.

## 10 FUEL

10.1 **Fuel Pump.**  
 The original fuel pump may be retained or removed. See Rule 1.11 for permitted alternative pump.

10.2 **Fuel Regulator.**  
 Original Manufacturer Fuel-Regulator may be retained or removed. See Rule 1.11 for permitted alternative regulator.

## 11 COOLING SYSTEMS

11.1 The standard production cooling system shall be correct for the engine fitted, be in good working order and must be retained in its entirety and remain in its original standard production form.

11.2 **Radiator - Restricted.**  
 The water-cooling system radiator must remain in the original standard production location and position, and be as originally fitted to the vehicle make and model, by the original vehicle manufacturer.  
 Standard production replacement radiator only permitted. Bespoke or custom-made radiator prohibited.

11.3 **Secondary Expansion Tank.**  
 A secondary water-cooling system expansion tank may be fitted. Maximum capacity 1 Litre.

11.4 **Water pipes/Hoses.**  
 The standard production water pipes/hoses may be retained or replaced with equal pipes/hoses.  
 Water pipes/hoses must be of metal or proprietary flexible hose. Silicone hoses permitted.

11.5 **Oil Cooler/radiator type – restricted.**  
 Engine oil cooler/radiator prohibited.  
 Oil/water fluid to fluid cooler/heat exchanger prohibited.

## 12 BRAKES

12.1 Brake Hoses/pipes – As Saloons General.  
 For all components other than brake hoses/pipes, the standard production braking system must be retained, be correctly installed/fitted and be in good working order.  
 Standard production original and replacement brakes and brake components only permitted.  
 The ‘Brake’ foot pedal assembly must be of standard production materials.  
 Brakes may be subject to random spot checks of foot pedal operation whilst on the starting line.  
**Note.**

- The braking system must be as standard production for the vehicle used.
- The practice of “Thinning” or lightening brake discs or drums or other braking components by “Thinning” and or “Diameter reduction” and or “Grooving”, “Slotting” or “Drilling” and or other machining is prohibited.
- Non-standard replacement after-market brake drums prohibited.

12.2 **Handbrake.**  
 The original vehicle handbrake and or parking brake, including the cable and its associated components must be retained. The handbrake/parking brake components must remain as original manufacture and operate the rear wheels braking system only.  
 It must work sufficiently to prevent the vehicle from rolling. i.e., pushed or rocked by the inspecting scrutineer.  
 Conversion to a “Fly-Off” handbrake by repositioning standard handbrake components permitted.  
 The conversion of a cable system to hydraulic prohibited.

## 13 WHEELS

13.1 **Wheels – Restricted.**

- The wheels must be standard production or NASA permitted proprietary replacement wheel of a maximum of 5.5” (5.5J) width. Alloy wheels permitted. It is permitted to mix types (Steel/Alloy) of wheels on a vehicle.
- The diameter of the wheel must be as standard production - 14" diameter.
- All axles/hubs on the vehicle must be fitted with wheels that are of the same diameter. The use of different wheel diameter sizes on the offside and nearside and or the front and rear hubs/axles of the vehicle are prohibited.
- Offset/Inset is restricted. The wheel rim must not protrude more than 15mm beyond the original wheel arch.
- The use of wheel adaptors and or combined adaptor and spacer to fit wheels of a different PCD from standard is not permitted.
- “Beadlock” and/or Beadlock type and/or “split rim” type and/or “Billet” and or “Billet Type” wheels are prohibited.

13.2 **Wheel Spacers – Restricted.**  
 Thickness Size 3mm but on standard production manufacturer steel wheels only.  
 Fitting of spacers in conjunction with alloy wheels prohibited.

13.3 **Wheel Studs**  
 It is permitted to change the standard wheel studs to a longer in length steel type only to enable correct wheel fitment.  
 Excessive length types prohibited.

**14    TYRES****14.1    Tyre Size - Restricted.**

155/65 x 14.  
165/65 x 14.  
175/65 x 14.

**15    EXHAUSTS****15.1    Exhaust System – Restricted.**

The standard production original exhaust manifold and system must be retained in their entirety and remain in their original standard production location/position and form.

**Note.**

- a) "Single" silencer box replacement exhaust system permitted.
- b). The fitting and/or use of any non-standard production material or covering or coating or device that controls exhaust temperatures or affects exhaust scavenging is prohibited.
- c). Exhaust mounting rubbers may be modified to retain vehicle exhaust system.

**15.2    Lambda Sensor.**

The Exhaust Lambda (Oxygen) Sensors shall be retained in their standard production location and remain in their standard production form.

**15.3    Catalytic Converters.**

The Catalytic Converter is an integral part of the exhaust manifold and must be retained.

**15.4    The exhaust system must not protrude beyond the vehicle bodyline. The rear tailpipe may be shortened / cut, at any point after the standard production rearmost support bracket, to prevent it protruding beyond the vehicle bodyline. Shortening point is from 25mm after rear silencer box.****16    SAFETY SHIELDS****16.1    Sump Guard.**

Sump Guard prohibited.

**17    SUSPENSION****17.1    Suspension type is restricted.**

The original manufacturer's standard production suspension system must be retained.

"Concentric Strut Top" mountings prohibited.

**Note.**

Front suspension sub-frame and components including anti-roll bar must remain as standard production.  
Rear beam axle and trailing arm assembly/components must remain as standard production.

**17.2    Wheel Camber & Wheel Castor.**

It is not permitted to alter the camber / geometry of the suspension.

See Check Sheet.

**Note.**

Slight deviation from standard as a result of race track conditions are acceptable. Excessive deviation of the camber angle from standard prohibited.

**Wheel Alignment (Toe in/out). – Restricted.**

Slight deviation from standard as a result of race track conditions is acceptable. Excessive deviation from standard prohibited.

**17.3    Front and Rear Suspension Springs – Restricted.**

Standard production original and standard replacement suspension springs only are permitted.

It is permitted to shorten the permitted suspension springs to achieve an appropriate ride height following removal of interior trim – See rule 2.2iv.

"Concentric Strut Top" mountings prohibited.

**17.4    Suspension Dampers – Restricted.**

Standard production original and NASA specified/named standard replacement front and rear dampers that are of the oil and/or gas filled type only are permitted.

NASA Specified/named standard production replacement units: -

Those as manufactured by: "KYB – Excel/Ultra;" Monroe – Original/Reflex" only are permitted.

All other replacement types including: Bilstein', 'Spax' or Gmax or similar equivalent and or equal type units prohibited.

**17.5    Strut Brace – Restricted.**

A proprietary manufactured "Strut Brace" may be fitted transversely between the engine compartment suspension top turret housings.

**17.6    Vehicle ride height.**

Any car where the ride height is felt to be high or to low to enhance the cars performance will be ordered and required to alter its ride height in respect of safety. Failure to comply will result in disqualification and disciplinary action.

**18 PROTECTION****18.1 Rear Protection.**

Rear protection prohibited.

**18.2 Engine Component Protection.**

Prohibited.

**19 BALLAST****19.1 Ballast is not permitted. i.e., the fitting of and or use of ballast is prohibited.**

Note.

The use of over large or inappropriate components or structures may be deemed as ballast and prohibited.

**20 VEHICLE CHECK SHEETS – CLASS 1.****ALL VEHICLES.**

NASA reserves the right to designate the information reference source and the method of component checking and to revise the check sheet data at any time.

Note.

The 'Vehicle Check Sheet' data and other designated information source will be used in conjunction with the particular vehicle available technical information as a reference when checking the eligibility and legality of the vehicle and or any of its components.

Components used must be NASA Scrutineers Committee permitted "Standard production" or "Standard production replacement" items.

Components specifically manufactured for and or fitted to "Rally", "Homologation" "Motorsport", and "Competition" including low volume/number (e.g., less than 5,000) "Limited edition" and or "Special" type models or variants of vehicle by the original vehicle manufacturer or manufacturer appointed organisation or company are prohibited.

The replacing of any steel component with a modified steel or non-steel lightweight material component is prohibited.

In the event of any doubt a Scrutineer must be contacted for clarification before using the component concerned.

In order that an engine, engine ancillaries, and gearbox may be checked to ensure standard components have been used, given below are a set of dimensions and details.

All dimensions given, either maximum or minimum, include tolerances to cover all manufacturing deviations.

Any standard component checked will be within the dimensions given, hence any deviation at all above a maximum or below a minimum shows an ILLEGAL COMPONENT.

As all dimensions given include a tolerance for manufacturing deviations, where an engine is checked and found to have 10% of dimensions, to the absolute limit given, this unit will be deemed ILLEGAL.

The suspension dimensions have been given so that if it is felt a vehicle may be outside variations through normal wear and tear, a check may be carried out to ensure standard components have been used and correctly fitted.

DIMENSIONS AND DETAILS ARE GIVEN IN ORDER OF AN ENGINE STRIP and or VEHICLE CHECK.

**SPECIFIED VEHICLES.****VEHICLE CHECK SHEET - CLASS 1**

**Citroen C1 998cc 12V.**

**Peugeot 107 998cc 12V.**

**Toyota Aygo 998cc 12V.**

The C1, 107, and Aygo vehicles listed were produced by a single manufacturer as part of a collaboration of manufacturers. Therefore, a single set of data as follows applies to all 3 vehicles.

THE PURPOSE OF THE INFORMATION GIVEN IS ONLY TO CHECK THE LEGALITY OF THE VEHICLE, ENGINE, ENGINE ANCILLARIES, GEARBOX, SUSPENSION AND OTHER COMPONENTS.

**C1, 107, and Aygo - Vehicle Weight.**

Absolute minimum = **650Kg.**

**ENGINE:**

Engine type VVTi Codes - I3. 384F (CFA, CFB). 1KR-FE.

**CYLINDER HEAD.**

Head Thickness Minimum = 112.5mm.

**VALVE LIFT & VALVE TIMING.**

The following valve lift & valve timing combinations only are permitted. without all valve operating components.

**VALVE TIMING.**

Variable Valve Timing (VVT).

**VALVE GUIDES.**

A standard production OE or NASA permitted reconditioned and or replacement type only is permitted.

VALVE SPRINGS.

Valve Spring Free Length = 51.65mm.

VALVE HEAD DIAMETER.

Inlet valve head diameter (Max) = 27.65mm.

Exhaust valve head diameter (Max) = 23.75mm.

CAMSHAFTS

Standard production OE replacement camshafts only permitted. The Inlet and exhaust camshafts must each remain in the original standard production form and be complete with correct identifying methods and or markings.

The production or adaptation or modification of a camshaft to provide the standard valve timing and/or valve lift, but non-standard timing and/or valve lift at regular degrees of rotation is prohibited.

CAM LOBE HEIGHT

Maximum Inlet = As standard production.

Maximum Exhaust = As standard production.

ENGINE BLOCK

Check if top surface has been machined – “Decked”, Skimmed, Re-faced.

PISTONS.

Pistons to be as standard production original and replacement complete with identification marks.

Bore = 71/71.030mm.

Piston Diameter = 70.98mm.

No of Piston rings = 3.

The omission of any standard production piston ring is prohibited.

Piston tops/bowls must not be skimmed/modified.

Piston skirts must be not be modified or shortened.

CRANKSHAFT

Crankshaft Stroke = 84.00mm.

FUEL INJECTORS.

Fuel Injection Multiple Point = Bosch ME 7.9.5 EFI sequential multiport.

Injectors must be standard production and correct for engine.

Injectors from other models and or vehicles and or aftermarket modified types prohibited.

ECU

Must be in its original standard production form.

Check for ECU rewriting, remapping, chip replacement (chipping), re-soldering and or not standard production soldering, electrical path changes, removal and or re-fitting of component(s) and or other modification

REV LIMIT.

“Rev Limiters” must operate at standard production rpm maximum = **6750 rpm.**

AIR INTAKE DUCTS/AIR BOX.

Check for holes drilled and slits cut into air box & duct air intake system.

FLYWHEEL AND CLUTCH.

The starter ring gear must be the correct type for the flywheel used.

Standard production original and replacement clutch only permitted.

MAIN BEARINGS.

Standard production original and replacement types for the particular engine block used only permitted.

GEARING FULL STRIP CHECK.

During a full strip, given below are the numbers of teeth in gearbox.

5 speed gearboxes only permitted.

Manual Transmission.

C551 - 5 Speed.

	Input gear	Output gear
--	---------------	----------------

1st 3.545:1

2nd 1.913:1

3rd 1.310:1

4th 1.027:1

5th 0.850:1

Rev 3.214:1

Final Drive Ratio 3.550:1

Multi-Mode Transmission - Toyota Multi-Mode/Citroen SensorDrive/Peugeot 2-Tronic.  
C551A - 5 Speed.

	Input gear	Output gear
1st	3.545:1	
2nd	1.913:1	
3rd	1.310:1	
4th	1.027:1	
5th	0.850:1	
Rev	3.214:1	

Final Drive Ratio 3.550:1

Note

It is not permitted to change a gear cluster from "standard"  
The correct differential must be fitted in the correct gearbox.  
Interchanging of differentials prohibited.  
Use of other differentials prohibited.

DIFFERENTIAL TURNING TORQUE.

The differential must have a turning torque of a maximum of 3 lbf/ft (36 lbf/in) (4 Nm) at all times, when measured at the wheel hub. i.e., When the transmission is set to neutral and the nearside wheel and tyre raised off the ground whilst the offside wheel and tyre assembly remains on the ground, and vice-versa, then when a measuring device is applied onto the wheel hub nut the maximum turning torque of the differential and driveshaft assembly must not exceed the stated maximum regardless of the temperature of the unit.

BRAKES

Front Brake Disc - Solid: -Standard production diameter = 247mm +/-0.025mm.

Front Brake Disc - Solid: - Standard production thickness = 20.0mm Maximum. 18.0mm Minimum.

Rear Brake Drum - Standard production internal diameter = 200mm.

Rear Brake Disc - Standard production width = 30.0mm.

SUSPENSION.

Front Wheel Camber = -0° 47' +/- 0° 45'.

Rear Wheel Camber = -0° 56' \*-/ 0° 30' Max.

Front Spring Coil Diameter = As standard production.

Front Spring Wire Diameter = As standard production.

Rear Spring Coil Diameter = As standard production.

Rear Spring Wire Diameter = As standard production.

WHEELBASE.

2340mm

VEHICLE TRACK.

As manufacturers original specifications + 6.0mm. (3mm each side).

WHEELS

Check correct wheels fitted.

Diameter = 14" only.

Width = Size 14" x 5.5" maximum.

TYRES

Check correct tyres fitted.

Tyre size - 155/65 x 14.

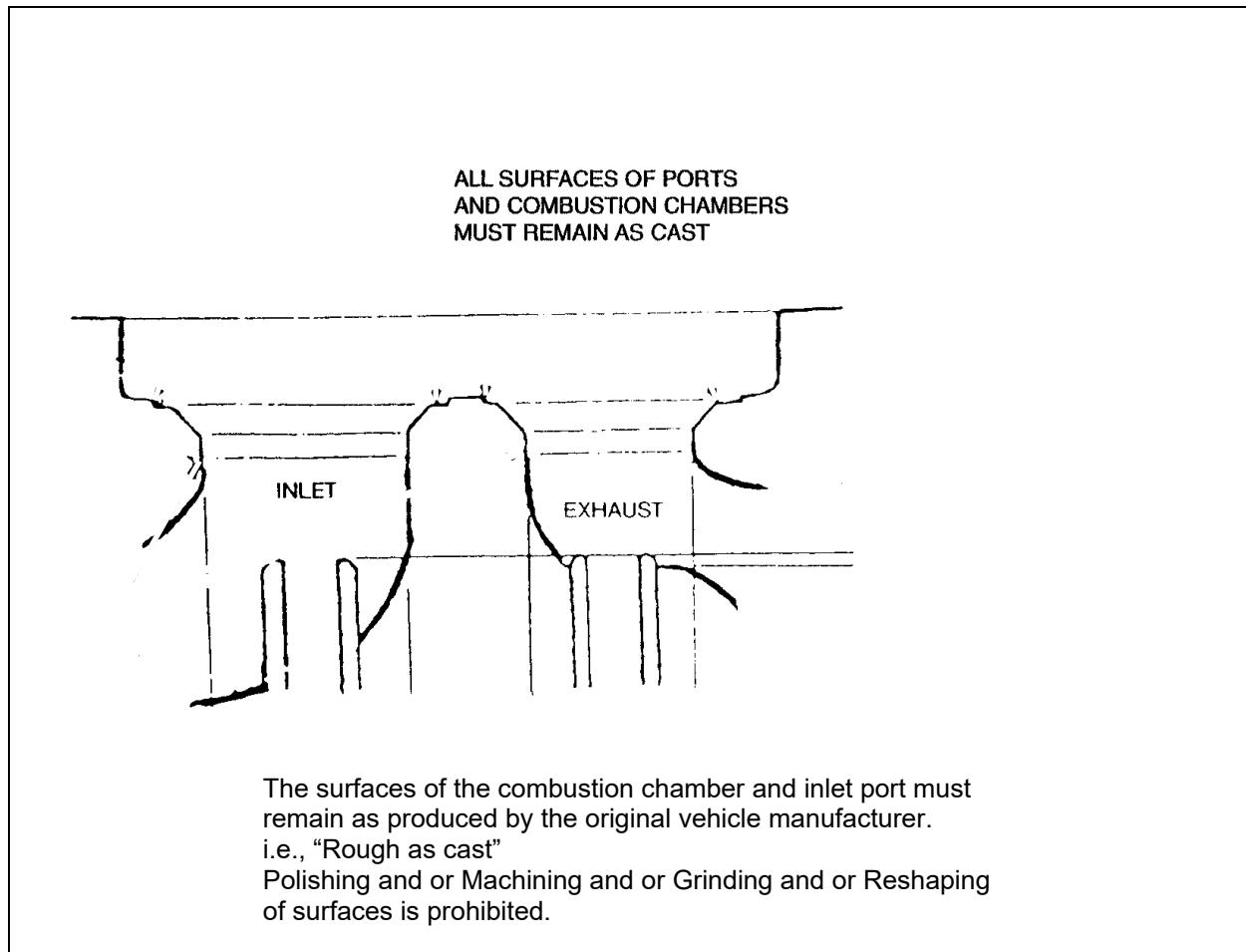
165/65 x 14.

175/65 x 14.

NASA reserves the right to amend the check sheet at any time.

## DRAWINGS

## DRAWING No. 1 CYLINDER HEAD INLET &amp; EXHAUST PORTS.



## FIGURES

FIGURE 1a – ENGINE SEALING – As Fig 12a – Saloons General.

FIGURE 1b – ENGINE SEALING - As Fig 12b – Saloons General.

**The construction rules in this book are intended for  
use by Autograss cars taking part in Autograss  
events as defined by the  
NATIONAL AUTOGRASS SPORT ASSOCIATION  
on a natural surface and are not necessarily  
considered safe for other forms of motor sport.**

**Drivers are advised that if they intend using their  
cars at events, other than events as defined by the  
NATIONAL AUTOGRASS SPORT ASSOCIATION  
They should ensure that their cars comply with the  
organiser's construction rules.**

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