

2CVPARTS.com CHAMPIONSHIP 2010

1. SPORTING REGULATIONS - GENERAL

1.1 Title & Jurisdiction:

The 2CVPARTS.com CHAMPIONSHIP 2010 is organised and administered by the BARC in accordance with the General Regulations of the Royal Automobile Club Motor Sports Association (incorporating the provisions of the International Sporting Code of the FIA) and these Championship Regulations.

MSA Championship Permit No: **CHR2010 / 037**

Race Status: **National B**

MSA Championship Grade: **C**

1.2 Officials:

1.2.1	Co-ordinator:	Nicola Bush	BARC
1.2.2	Drivers Rep:	Phil Myatt	2CV R C
1.2.3	Licensed Eligibility Scrutineer:	Neil White	BARC
1.2.4	Championship Stewards:	Dale Wells Rick Smith Bill Coombs Robin Knight	BARC BARC BARC 750 MC

Any three of the above may reach a decision

1.3 Competitor Eligibility:

- 1.3.1 Entrants where applicable must be in possession of a valid 2010 MSA Entrants Licence.
- 1.3.2 Drivers must be fully paid up valid 'racing membership' card holding members of the BARC, be Registered for the Championship and be in possession of a valid MSA Competition (Racing) National B Licence or higher.
- 1.3.3 At the discretion of the organisers guest drivers may compete in a race forming a round of this Championship under whatever conditions they deem to be appropriate, but may NOT score points towards the Championship.
- 1.3.4 All necessary documentation must be presented for checking at all rounds when signing-on.

1.4 Registration:

- 1.4.1 All drivers must register as competitors for the championship by returning the attached Registration Form to the Co-ordinator at the BARC prior to the Final Closing date for the first round being entered. Championship points will only be awarded to competitors who have fully complied with this regulation.
- 1.4.2 Alternatively, competitors may register 'on line' by visiting the BARC website at www.barc.net. When registering on line competitors should NOT complete and submit the paper version of the registration form (section 7).
- 1.4.3 There is no Fee for Registration
- 1.4.4 Registrations will be accepted from 1st January 2010 (or when on line registrations go 'live') until further notice.
- 1.4.5 Registration numbers will be the permanent Competition numbers for the Championship. Each registered driver will be allocated a permanent number for the season by the Championship Co-ordinator and these will be issued strictly on receipt of a fully completed registration form and registration fee.

1.5 Championship Rounds:

The **2CVParts.com CHAMPIONSHIP 2010** will be contested over 9 Rounds (5 Events) as follows:

Round:	Date:	Circuit	Organising Club	Format
1 / 2	03 April 2010	Cadwell Park	BARC	2 x 25mins
3 / 4	16 May 2010	Mallory Park	BARC	2 x 25mins
5 / 6	29 & 31 May 2010	Oulton Park	BARC	2 x 25mins
7 / 8	03-04 July 2010	Croft	BARC	2 x 25mins
9	20-22 August 2010	Snetterton	BARC	1 x 24hrs

1.5.1 In accordance with MSA Regulation D11.1. the organisers reserve the right to amend the published list of dates and rounds, in which case, all registered competitors will be informed of the amendments by Official Bulletins posted to the address specified on the Official Registration Form.

1.6 Scoring:

1.6.1 Drivers competing in two cars in an event must nominate their points scoring car prior to qualifying. If no car is nominated, the first car driven will be counted.

1.6.2 Points will be awarded to Competitors listed as classified finishers in the Final Results as follows:-

100, 90, 80, 75, 70, 65, 60, 55, 50, 45, 40, 35, 30, 25, 20, plus **10** for all other finishers,
Plus **5** points for pole position and **3** points for fastest lap.

Points for pole position and fastest race lap shall be awarded to the competitor setting the relevant time.

1.6.3 Drivers who share a car at a meeting other than the 24 hour event shall score the total of their own points AND the points of the driver whom they share the car with.

1.6.4 The totals from all qualifying rounds run will determine final championship points and positions.

1.6.5 Ties will be allowed with the exception of first place in the Championship which shall be resolved using the formula in Regulation Q3.4. of the MSA Yearbook.

1.7 Awards:

1.7.1 All awards are to be provided by the BARC

1.7.2 Per Round: Commemorative Awards to Winner, 2nd and 3rd.

1.7.3 Championship: Trophy to overall winner

Any driver failing to attend the BARC Championship prize-giving at the end of season (date and venue to be announced in the BARC Startline Magazine) may not be eligible to receive any prizes which may have otherwise have been presented at this function. Such prizes may be withheld and not be represented to any other driver.

1.7.4 Bonuses: None

1.7.5 Presentations:

Awards are to be provided for presentation at the end of each race or at an end of the meeting presentation ceremony. Prize money and bonuses shall be posted to the Entrants within 28 days of the results being declared final after each round.

1.7.6 Entertainment Tax Liability. Not applicable.

1.7.7 Title to all Trophies:

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

2. SPORTING REGULATIONS - JUDICIAL PROCEDURES

- 2.1 Rounds:** In accordance with Section C of the 2010 MSA Yearbook and these Regulations.
- 2.2 Championship:** In accordance with Section C of the 2010 MSA Yearbook and these Regulations.

3. SPORTING REGULATIONS - CHAMPIONSHIP RACE MEETINGS & RACE PROCEDURES

3.1 Entries:

- 3.1.1 Competitors are responsible for sending in correct and complete entries with the correct entry fees prior to the entry closing dates which shall be 20 days before each round.
- 3.1.2 **Race entries will initially be collated by the Championship Representative through the Classic 2CV Racing Club before being passed en-bloc to the BARC who will accept entries in accordance with these regulations and those of the MSA. Entries will be collated on a pre-payment scheme to a maximum of 25 pre-paid entries for the championship. Any entries taken over and above this 25 will be on a race-by-race basis only and will be taken in strict chronological order of receipt, up to the maximum grid size for each race meeting in question. In addition, a maximum of two reserves may be taken. Reserves are allowed to practice but will not be allowed to race unless an accepted (non reserve) competitor drops out. These reserves will be the last entries accepted.**
- 3.1.3 **For each event except the 24 hour Event, there may be a maximum of two drivers per car who may enter.**
- 3.1.4 Incorrect or incomplete entries (Including Driver to be Nominated Entries) are to be held in abeyance until they are complete and correct and the date of receipt shall be the date on which the Secretary of the Meeting receives the missing or corrected information or fee.
- 3.1.5 Any withdrawal of Entry or Driver/Car changes made after acceptance of any entry must be notified to the Secretary of the Meeting in writing. If Driver/Vehicle changes are made after publication of Entry Lists with Final Instructions the Competitor concerned must apply for approval of acceptance by the Stewards of the Meeting **BEFORE** signing-on.

3.2 Briefings:

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

3.3 Qualifying:

- 3.3.1 The minimum period of qualifying to be provided is to be as specified in the MSA Regulations in respect of the circuit lengths. Should any qualifying session be disrupted the Clerk of the Course shall not be obliged to resume or re-run the session to achieve the championship criteria and the decision of the Clerk of the Course shall be final.
- 3.3.2 For each event except the 24 Hour Event there shall be two 15 minute qualifying sessions, run consecutively, and split by 5 minutes. For a shared car each driver should complete one session.
- 3.3.3 Each qualifying session provides the qualifying time, and therefore the grid position for, each race

3.4 Qualification Criteria:

- 3.4.1 Each driver should complete a minimum of 3 laps qualifying in the car to be raced and in the correct session in order to qualify for selection and order of precedence as set out in the MSA Regulation Q4.5. The Clerk of the Course and / or Stewards of the Meeting shall have the right to exclude any driver whose qualifying times or driving are considered to be unsatisfactory - as per MSA Regulation Q4.5.

3.5 Races:

- 3.5.1 The standard minimum scheduled distance for each sprint race (i.e. not the 24 Hour Event) shall be **25 minutes** but should any race distance be reduced at the discretion of the Clerk of the Course or Stewards of the Meeting it shall still count as full points scoring round. Each driver must complete one race. There will be no driver change-over.
- 3.5.2 All races will run an 'open' pit lane, with a green light shown at the pit exit, unless under Safety Car conditions.
- 3.5.3 Meeting Organisers may impose Stop / Go Penalties for infringement of pit lane or driver change regulations during the 24 Hour Event.

3.6 Starts:

- 3.6.1 All race start countdowns are to have a minimum elapsed period of 5 minutes from the time all cars are released to form up on the grid to the start of the Green flag Lap(s) in the formation as specified on the Track Licence for each circuit.
- 3.6.2 The Countdown procedures/audible warnings sequence shall be: **Standing Starts:-**
1 minute to start of Green Flag/Pace lap - Start engines/Clear Grid.
30 seconds - Visible and audible warning for start of Green Flag/Pace Lap.
- 3.6.3 Where possible, the 24 Hour Event will be started using a **Rolling Start**
- 3.6.4 The use of tyre heating/heat retention devices, tyre treatments and compounds is prohibited.
- 3.6.5 Any cars removed from the grid after the 3 minute stage or driven into pits on Green Flag lap shall be held in the pit lane and may start the race after the last car to take the start from the grid has passed the startline or pitlane exit. whichever is the later.
- 3.6.6 Any drivers unable to start the Green Flag/Pace lap or start are required to indicate their situation as per MSA Regulation Q12.13.2 and any drivers unable to maintain grid positions on the Green Flag Lap to the extent that ALL other cars are ahead of them, may complete the Green Flag lap but **MUST** remain at the rear of the last row of the grid but ahead of any cars to be started with a time delay.
- 3.6.7 Excessive weaving to warm-up tyres - using more than 50% of the track width, and falling back in order to accelerate and practice starts, is prohibited.
- 3.6.8 A five second board will be used to indicate that the grid is complete. The red lights will be switched on five seconds after the board is withdrawn.

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

3.7 Practice / Race Stops:

- 3.7.1 Should the need arise to stop any **practice or qualifying** session, RED LIGHTS will be switched on at the Startline and RED FLAGS will be displayed at the Startline and at all Marshals Signalling Points around the Circuit.
- This is the signal for all drivers to cease circulating at racing speeds, to slow to a safe and reasonable pace and to return to the **pit lane**.
- 3.7.2 Should the need arise to stop any **race**, RED LIGHTS will be switched on at the Startline and RED FLAGS will be displayed at the Startline and at all Marshals Signalling Points around the Circuit.

This is the signal for all drivers to cease circulating at racing speeds, to slow to a safe and reasonable pace and to return to the **starting grid** which will automatically become a Parc Fermé area.

Cars should not enter the Pits unless directed to do so or unless repairs are necessary. Work on cars already in the Pits must cease when a race is stopped and may only continue under the control of Scrutineers. Cars which are in the pitlane or who enter the pit lane may **ONLY** re-start from the pit lane (not the grid) after all other cars have re-started. Non runners at the time of the stoppage (which have been recovered) can re-start from the pit lane behind those referred to above.

3.7.3 Case A - Less than two laps completed by Race Leader

The race will be null and void. The race will re-start from the original grid positions. Competitors unable to take the re-start may be replaced by nominated reserves who will start from the pit lane in reserve number order and in front of any other pit lane starter. Gaps on the grid should not be closed up. The length of the re-started race will be determined by the Clerk of the Course.

3.7.4 Case B - More than two laps completed by Race Leader but less than 75% of Race Distance:

The race will restart from a grid set out by the finishing order of part one (as per Q5.4.3). The final result of the race will be the finishing order of part two. The length of the re-started race will be determined by the Clerk of the Course.

3.7.5 If the leader has completed more than 75% of the race distance or duration it shall not usually be re-started (as per Q5.4.3). If not re-started the results will be based on the order of crossing the finish line at one lap less than at the time of first showing the Red Flag. Only cars which are under their own power at the showing of the Red Flag will be classified.

3.8 Re-Scrutiny:

All vehicles reported involved in contact incidents during races or practice must be re-presented to the Scrutineers before continuing in the races or practice.

3.9 Pits & Pitlane Safety:

3.9.1 Pits: Entrants must ensure that the MSA, Circuit Management and Organising Club Safety Regulations are complied with at all times.

3.9.2 Pitlane: The outer lane or lanes are to be kept unobstructed to allow safe passage of cars at all times. The onus shall be on all Drivers to take all due care and drive at minimum speeds in pit lanes. Cars may only use 1st or 2nd gear whilst moving in the pit lane. A car in 2nd gear will be deemed to be compliant with pit lane speed restrictions. During a race the pit lane exit will have a green light unless the race is stopped.

3.9.3 Refuelling: May only be carried out in accordance with the MSA Regulations Q13, Circuit Management Regulations and the SR's or Final Instructions issued for each Circuit/Meeting.

3.10 Race Finishes:

After taking the Chequered Flag drivers are required to: Progressively and safely slow down, remain behind any competitors ahead of them, return to the Pit Lane Entrance/Paddock Entrance as instructed, comply with any directions given by Marshals or Officials and to keep the helmets on and harnesses done up while on the circuit or in the pit lane.

3.11 Results:

All Practice Timesheets, Grids, Race Results are to be deemed **PROVISIONAL** until all vehicles are released by SCRUTINEERS after Post Practice/Race Scrutineering and/or after completion of any Judicial or Technical Procedures.

3.12 Timing Modules:

3.12.1 All competitors will be required to fit an Electronic Self Identification Module (Transponder) to their cars (Q12.2.1) for the purposes of accurate timing. Holders for these and detailed fitting instructions will be issued with the transponders and it will be the responsibility of the competitor to fit these in the car in the position and manner specified. The Modules must be in place and functioning correctly for all Championship qualifying practice sessions and races. The setting and servicing of these items must only be carried out by properly authorised MSA licensed Timekeepers. Competitors will be charged by the timing company for replacement of the Modules due to misuse or loss at any time during the season.

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

3.12.3 Please refer to MSA Regulation Q8.1.10.(b). No lap timer shall be able to transmit data from the pits to the car other than the lap time.

3.13 Safety Car:

- 3.13.1 The Clerk of the Course reserves the right to introduce a Safety Car at any time during a race until such time as the race leader has completed 75% of the scheduled race distance. Special arrangements will apply in the case of the 24 Hour event.
- 3.13.2 The Safety Car will be used in accordance with the regulations as laid down in the MSA Regulations (**Section Q, Appendix 2**).
- 3.13.3 The Clerk of the Course may impose a Drive Through Penalty (as per **Q12.6**) or retrospective time penalty upon any Competitor or team who he considers has gained an unfair advantage whether inadvertently or not from a breach of these Safety Car Regulations. If in the opinion of the Clerk of the Course during the event that one Competitor breaches these Safety Car Regulations for the benefit of another Competitor then both may be penalised.

4. CHAMPIONSHIP RACE PENALTIES:

4.1 Infringements of Technical Regulations:

- 4.1.1 Arising from post practice Scrutineering or Judicial Action:
Minimum Penalty: The provisions of MSA Regulations: C3.3.
- 4.1.2 Arising from post race Scrutineering or Judicial Action:
Minimum Penalty: The provisions of MSA Regulations: C3.5.1. (a) and (b).
For infringements deemed to be of a more serious nature the Clerk of the Course and/or Stewards of the Meeting are to invoke the provisions of Regulation C3.5.1. (c)
- 4.1.3 Additional specific championship penalties: At the discretion of the Championship Stewards.

4.2 Infringements of non-technical MSA Regulations and the Sporting Regulations issued for the Championship:

As per 2010 MSA Judicial Procedure Regulations.

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5. TECHNICAL REGULATIONS

5.1 Introduction:

The following Technical Regulations are set out in accordance with the MSA specified format and it should be clearly understood that if the following texts do not clearly specify that you can do it you should work on the principle that you can not. For the purposes of these regulations, modification means any change in the design, material, shape, dimension and / or surface finish of any component except for basic manufacturing processes, normal wear and published service or repair procedures. 'Standard' is as defined in Citroen manuals MAN108161 and MAN 308162

5.2 General Description:

The 2CVPARTS.com CHAMPIONSHIP 2010 is for Competitors participating in standard production post 1970 Citroen 2CV6 saloon vehicles.

The Championship was conceived as a low cost form of motorsport. It is intended to be a racing formula to develop the continued use and enjoyment of the 2CV and where driving skills and car control are of paramount importance and where technical development takes a secondary place.

5.3 Safety Requirements:

The following Articles of MSA Appendix K Safety Criteria Regulations will apply: K1, K1.2.1, K1.3.1. - 4, K5, K6, K8, K9, K10, K13, & K14.

A plumbed in fire extinguisher that complies with MSA Regulations is mandatory (Q19.14.7.).

Wooden rimmed steering wheels are not permitted.

Also the following will apply:

A steel roll cage complying with the MSA Blue Book shall be installed. A rigid roof of sheet metal (minimum 1.5mm steel or 3mm aluminium) shall be fitted to the roll cage. The roof must cover the whole perimeter defined by the four main tubes at roof level. It may be fitted either by being carefully welded to the main tubes, or by being bolted to substantial brackets welded to the main roll cage tubes. The roll cage shall be fitted with door bars to both sides of the car at hip level. Cross bars of the same material / cross section as the roll cage or solid rectangular bar of at least 5mm x 50mm shall be fitted across the car between the front feet and the rear feet of the cage. The bars are to be attached to the roll cage feet by good quality welds. The padding of any dangerous points of the rollbars is recommended in order to prevent injury.

Rear harness mountings are to be mounted either on the rear cross member of the roll cage or on the body floor through the saddle above the fuel tank. (in accordance with section K – drawing number FIA 253-42 – MSA Yearbook) not using the standard points in the inner wing.

FIA homologated seat belts are mandatory (Q19.14.2). Particular attention should be given to seat belt angles and anchorage. See FIA 253-42.

5.4 General Technical Requirements And Exceptions:

The car shall be of sound construction, in good mechanical condition and well maintained in accordance with MSA General Technical Regulations (Sections J & Q) as appropriate. It shall be presented in good order. All inspection areas e.g. engine gearbox, suspension components, etc. shall be in a clean condition. Particular attention should be paid to the integrity of the internal chassis members.

Cars shall have a minimum weight of 655kg, inclusive of driver upon completion of practice and racing.

All cars will have a championship log book. These will be filled in and updated throughout the year. Defects need to be rectified on a timescale to be agreed with the Scrutineer.

5.5 Chassis:

A standard Citroen UK Market 2CV6 or Dyane chassis (Citroen part No 75519116) or Classic 2CV Racing Club aftermarket racing Frome, or aftermarket racing s.l.c. chassis or subject to final approval of the organisers 2CV City chassis obtained through Whitwell motorsport shall be used.

No part of the interior which is an integral part of the chassis/floor pan shall be removed or modified. Strengthening of the chassis arms and good quality patch repairs is permissible.

The removable cross member above the petrol tank shall be fitted unmodified.

5.6 Bodywork:

5.6.1 Modifications Permitted

5.6.1.1 General

The bodyshell shall be all standard steel 2CV6 mounted on the chassis in its original position and by the manufacturer's original method. Both right and left hand drive models are permissible. With the exception of the "A" panels and rear wings all panels shall be mounted in their original position by the manufacturer's original method. All doors shall be fitted with original anti-burst locks, which shall be kept unlocked during any practice or competition. Each rear door locking lever shall be held in the unlocked position by means of a spring. 3 rear view mirrors shall be fitted as a minimum (1 interior and 2 exterior). The exterior mirrors shall be standard unmodified 2CV door mirror assemblies fitted in the manufacturers intended position.

5.6.1.2 Interior

The front bulkhead shall be modified to comply with the requirements of the MSA Blue Book. The main necessity is to seal the openings bringing hot air into the passenger compartment via the heating system. These openings may be sealed by removing the metal ducting in position and securely fixing metal or GRP plates over the openings. Other small gaps (e.g. around handbrake lever) shall also be sealed.

All interior trim, fittings, courtesy light and passenger seats may be removed.

The fitting of additional instrumentation and associated switches and wiring is permitted.

The handbrake mechanism may be relocated to the floor near the drivers seat.

5.6.1.3 Exterior

It is permissible to alter the "A" panels by cutting away or perforating the recessed dished area to provide greater cooling for the engine bay (The "A" panels are those panels which fit between the rear top edge of the front wing and the bonnet).

The front inner wings may have material removed (see illustration B)

Alternative methods of fastening shall be permitted for the "A" panels and rear wings to aid quick removal. They shall be fixed in the manufacturer's intended position.

Mudflaps may be removed.

Bumpers must be removed.

The roof must be made of metal and must be firmly affixed to the bodyshell.

The bonnet must be secured by leather straps, rubber hooks or spring clips. It is recommended that the original catch at the bottom of the bonnet be removed.

The windscreen shall be of HPR laminated glass.

The side and rear windows may be of toughened glass, clear acrylic (perspex) or polycarbonate sheet of at least 4mm substance.

Effective means of ventilation, as per MSA J5.2.9, by means of an openable vent flap, or drivers window to have a ventilation hole (100cm²) or be openable as original design

It is permissible to perforate the bonnet below the air inlet opening (where the number plate is normally mounted) with up to 4 no. holes each having a maximum diameter of 75mm

A Classic 2CV Racing Club spoiler kit must be fitted and maintained in accordance with the instructions supplied with the kit. The use of fibreglass wings and bonnets is allowed. Particular attention should be given to the provisions of 5.6.2.1.

5.6.1.4 Silhouette

The standard roof must be removed and be replaced with a metal roof which must be securely fixed to the bodyshell and follow the original roofline. The front leading edge may be extended to fit behind the top part of the windscreen sealing rubber.

5.6.1.5 Ground Clearance must comply with the requirements of the MSA Yearbook. For the purposes of this regulation the shock absorbers and exhaust are considered to be part of the car and are subject to the same ground clearance (40 mm minimum)

5.6.2 Modifications Prohibited

5.6.2.1 General: It shall be the intention, at all times, to preserve a standard external appearance to the cars.

5.6.2.2 Interior: No part of the interior which is an integral part of the bodywork may be removed or modified.

5.6.2.3 Exterior Bumpers must be removed. Overriders must not be fitted.

No panel may be cut, drilled or in any other way modified to save weight other than those detailed in 5.6.1
All mirrors shall provide a view to the rear of the car and shall not be adjusted to provide an aerodynamic advantage

5.6.2.4 Silhouette The original silhouette must be maintained except in the areas covered by 5.6.1.3 and 5.6.1.4 of these regulations.

5.7 Engine:

The engine shall be a standard 2 cylinder horizontally opposed air cooled Citroen unit not exceeding 602cc with an external oil filter, fitted as a standard production item to any Citroen "A" series car. The following technical parameters will be used to define the word standard in the case of protest, and will be observed during pre and post race scrutineering.

- Bore - 74.00mm (maximum)
- Stroke - 70.00mm (maximum)
- Top of barrel to top of barrel 395.50mm (with NO undersize tolerance)
- Valve head diameter
- Inlet not greater than 40.00mm
- Exhaust not greater than 34.00mm
- Valve stem diameter - Inlet 8.00mm - Exhaust 8.50mm - The valve stem is defined for the purposes of these regulations as the part of the valve that is in top 20mm of the valve guide when the valve is closed.
- The minimum overall valve length measurement (with no undersize tolerance):
Inlet 88.00mm - Exhaust 86.45mm
- Piston Rings - Two compression, one oil control. The compression rings shall be of one piece construction. Total seal piston rings are not permissible

A Classic 2CV Racing Club camshaft, supplied through the approved supplier, must be used. This may be either a reground standard camshaft or a new camshaft ground from a blank. Timing is free.

The fitting of a vernier adjustable gear wheel is allowed. Modification of the crankcase to allow cam timing adjustment insitu is allowed

The standard 602cc crankshaft may be rebuilt for the purposes of bearing replacement and repair to journals. Any alteration not directly attributable to the re-use, disassembly, reassembly and subsequent rebalancing of a crankshaft is forbidden. It is not permitted to reprofile or alter the surface finish of the crankshaft or connecting rods in a manner which would improve windage or stress relief.

Two standard types of flywheel are permissible. The heavy (early) type flywheel shall only be used in conjunction with a coil spring clutch. The lighter (later) type flywheel shall only be used in conjunction with a diaphragm type clutch. It is permissible to lighten either standard flywheel by machining.

It is permissible to use any type of clutch drive plate.

It is compulsory that the crank case halves have a bolt with a hole drilled across its diameter fitted, capable of having a scrutineers wire seal fitted, see illustration F.

Any club approved piston used must have the original compression ratio marks clearly visible on the crown. Note for clarity, the Argentinian pistons do not have a compression ratio mark.

Method for repeatable measurement of barrel dimension:

Step 1: Ensure plates and barrel surfaces are clean

Step 2: Fit plates and tubes with nuts finger tight

Step 3: Starting with the top front nut , followed by the top rear nut and finally the bottom nut, tighten to 5 lb.ft.

Step 4: Follow the above sequence, tightening to ten (10) lb.ft.

Step 5: The rectangular bar of measurement 395.00 should be inserted then a feeler gauge of 0.5mm must pass between the end of the bar and the plate.

5.7.1 Permitted Modifications

It is permissible to machine the barrels to obtain the dimension detailed on illustration D.

It is permissible to machine the crankcase halves to obtain the dimension detailed on illustration D

Both removal and/or addition of material in the induction and exhaust ports is permitted.

It is permissible to remove material from the valve seats. The valve face angles shall remain standard (120 deg inlet, 90 deg exhaust).

It is permissible to remove material from the valve guides.

It is permissible to alter the profile of the valve head, but the valve seat angles must remain std (120 deg inlet, 90 degree exhaust).

Any machining of the cylinder head or the barrel must be at 90 degrees to the bore and any machining must be continuous over the whole of the plane of the mating surface of the barrel. It is not permissible to machine a step into either mating surface.

It is permissible to machine the cylinder head mating surface (with the barrel) to reduce the volume of the cylinder head. The minimum cylinder head volume shall be 57.0 cubic centimetres with inlet and exhaust valves and spark plug fitted. When checking the volume the cylinder head shall be fitted with a spark plug of recognised make and type for the Citroen 2CV, using one standard plug washer.

It is permissible to fit spacers between the barrel and cylinder head to increase the cylinder head volume. The spacers shall have a minimum internal diameter of 74.0mm \pm 0.25mm.

It is permissible to fit spacers between the barrel and crankcase to increase either the cylinder head volume or the barrel to barrel dimension.

If both dimensions are to be changed, more than one spacer must be fitted.

Any spacer fitted under the barrel, to alter the cylinder head volume, must be removed from the barrel prior to the barrel dimension being measured.

The scrutineer will fit a spacer of equal thickness to the spacer removed from beneath the barrel to the cylinder head prior to the head volume being measured.

If spacers are fitted, their use must be declared before the engine is stripped at the request of the eligibility scrutineer, to check compliance with the regulations.

The profile at the valve end of the rocker is free. The ratio between the rocker shaft and the pushrod cup must remain standard.

It is permissible to plug the oilway in the front of the camshaft, to prevent oil pushing out the nose of the cam.

It is permissible to fit flexible crankcase to cylinder head oil feed pipes.

5.7.2 Prohibited Modifications

With the exception of the items detailed in 5.(7).1 it is expressly forbidden to machine, mill, grind, polish, weld, modify or otherwise adapt parts to achieve the stated parameters, or for any other reason, including surface finishing.

It is expressly forbidden to fit parts from 425 or 435cc "A" series engines irrespective of whether or not they fit without modification.

5.7.3 Location

The engine shall be located in the manufacturer's original position by the manufacturer's intended method. Tilting of the engine is permitted using a spacer or spacers beneath one front engine mount.

5.7.4 Cooling Systems

The engine cooling system (with the exception of the exhaust heat exchangers) shall remain as standard. If fitted it is permissible to cut off the brake duct spigots and dyane induction spigot and also plate the holes. A standard 2CV fan guard shall be bolted to the engine cowling in the manufacturer's intended position. It is permissible to fit spacers up to 12mm long to move the guard away from the cowling. A standard fan assembly shall be fitted using the manufacturer's intended method. It is permissible to remove material from the fan blades. The fan shall rotate at crankshaft speed at all times. Standard fan backings may be strengthened by plating and welding. It is permissible to repair/modify the oil feed/return legs on a standard oil cooler. The oil cooler must remain in its standard intended position.

5.7.5 Induction Systems

Only one carburettor shall be fitted. This must be one of the following Solex or Weber downdraft carburettors.

1)Solex Single Choke Model - venturi size - 28mm

2)Solex Twin Choke Models - venturi sizes - 21/24mm or 18/26mm These Solex carburettors shall be mounted in the manufacturer's intended position on an unmodified production manifold, except it is permissible to enlarge the manifold mounting holes to facilitate fitment. It is not permissible to cut and reweld the manifold. It is permissible to reject the carburettor, provided that in so doing the alloy body of the carburettor is not modified or altered internally or externally. The choke flap and its associated shaft may be removed. The choke cable may be omitted. It is permissible to remove one of the floats. The vehicle shall be fitted with an effective air filter. Any type, style, size or shape of air filter is permissible provided the airways are less than 1mm in diameter. It is permissible to tilt the carburettor, by machining at an angle, the spacer that is fitted between the carburettor and the intake manifold. It is also permissible to fit two spacers.

It is not permissible to modify any other component to facilitate fitment and it must not protrude beyond the bodywork of the car. Mechanical assistance to induction is permitted using the standard take off points (brake duct spigots and Dyane induction spigot). It is permissible to reduce the length of the spigots. Moving the spigot positions or fabricating new spigots is not permitted.

It is permissible to remove the existing breather tube from the second choke and blank off the hole (from the inside) allowing the float chamber to vent via the existing choke spindle hole, or top of carburettor. It is permissible to redirect the fuel feed from one float chamber to the other as on early twin choke carburettors.

3)Weber Twin Choke 32/35 DMTL specification as supplied in club approved kit, (to include mandatory air filter and exchange inlet manifold. No modifications to the installation shall be permitted, also no air feed systems shall be used either from the engine cowling or any other source.

5.7.6 Exhaust Systems

Any type of exhaust system may be fitted provided that the original manifold is retained. The only permissible modification to the manifold assembly is that the exhaust balancer/anti-icing tubes may be removed and plugged. The exhaust gases shall be expelled behind the mid point of the wheelbase of the vehicle. The exhaust system shall comply with Section J5.16. of the MSA Blue Book. The hot spot pipes on the manifold may be removed and plugged.

5.7.7 Ignition Systems

The manufacturer's ignition system must be retained. It is permissible to reset the ignition points within their normal range of adjustment. Electronic ignition is not permitted other than the Classic 2CV Racing Club Lumination system specified below.

It is permissible to fit a Classic 2CV Racing Club Lumenition electronic ignition as supplied by the Classic 2CV Racing Club.

The Eligibility Scrutineer retains the right to exchange the control unit for another held by the him during any event.

It is permissible to modify or remove the ignition advance weights to enable the ignition cam to be locked in position. It is permissible to fit a Classic 2CV Racing Club supplied 'Luminition' chopper which fits directly on to the cam without the need for points advance weights. Any HT lead is permitted. Any 14mm commercially available spark plug is permitted. Either the standard coil or an alternative approved by the Classic 2CV Racing Club and obtained through their authorised supplier may be used. The coil can be mounted in any position.

5.7.8 Fuel Delivery Systems

The manufacturer's fuel delivery system shall be retained unmodified.

It is permissible to install an in-line fuel filter

It is permissible to replace the standard fuel line with an alternative type or material of the same internal diameter. The use of alternative fuel pumps or pressure regulation equipment is prohibited.

It is permissible to modify the filler cap to comply with 5.14.4. of these Technical Regulations.

5.8 Suspensions:

5.8.1. Permitted Modifications

The fitting of a Citroen Ami 8 / Super front anti-roll bar (maximum diameter 15mm) is permitted. Ami 8, Ami Super or modified 2CV swinging arm end plates are permitted. The anti-roll bar, if fitted must be mounted vertically in the standard position by the standard method.

It is permissible to alter the vehicle ride height beyond the manufacturer's recommended setting but only by adjustment of the suspension tie rods, modifying or substituting the internal components of the suspension cans or by inserting a 10mm steel spacer below the front axle mounting points. At least 5mm of threaded tie rod must remain within the knife edge eye and this must be secured with a locknut.

Any type or size of shock absorber may be fitted provided that the standard mounting points are used and the mounting points are not modified or altered in any way. A shock absorber must be fitted to each axle arm.

The front rubber bump stops may be removed. The original bump stops may be reduced in height, but alternative bump stops may not be fitted.

The rear rubber bump stops may be removed, modified or replaced. Standard, modified or alternative bump stops shall be mounted in the manufacturer's intended position. It is permissible to weld attachments to the rear suspension arms to modify the contact height of the bump stops.

It is permissible to modify or restore the king pin inclination by cutting off and rewelding the ends on the suspension arms. Particular attention should be paid to the standard of welding.

It is permissible to fit an upper spherical bearing to the top of the hub, to provide additional support to the existing kingpin. A bracket may be fitted to the top hub attachments and welded to the steering lever arm, this may form a strengthening web along its length, and a further bracket to the suspension arm at the other. Particular attention shall be paid to alignment and the standard of welding.

The camber on the front wheels is Free

Standard spring tubes must be fitted (see illustration E). It is permissible to cut open the spring tubes and substitute or modify the internal components. Spring tubes with modified or alternative internal components shall have the standard ends welded back on in the manufacturer's intended position.

It is permissible to modify or alter the camber on the rear wheels

The camber on the rear wheels is Free

It is permissible to strengthen the rear suspension arms.

It is permissible to install stops to prevent the rear suspension arms dropping when the rear of the car is jacked off the ground to change wheels.

It is permissible to replace the rubber doughnuts and solidly mount the spring cans.

5.8.2. Prohibited Modifications

It is not permissible to alter the length, diameter or mounting position of the spring tubes.

The tie rods must remain standard Citroen A series or Ami Super items.

The tie rod mountings must remain as standard

5.8.3. Wheelbase/Track

The suspension system shall be standard production Citroen 2CV6 utilising telescopic shock absorbers.

5.9 Transmissions:

The transmission (i.e. clutch, gearbox, drive shafts) must be housed (in the case of clutch and geartrain) within a standard Citroen alloy gearbox and bellhousing mounted behind the engine in the manufacturer's intended position. There shall be four forward and one reverse gear, all of which shall be in a fully operable condition.

Only the use of 2CV6 gearboxes is permitted as detailed in 3 below.

5.9.1. Permitted Modifications

It is permissible to extend the gear change lever to allow 4th and reverse gears to be engaged whilst strapped in the driving position.

The gearchange must remain in the manufacturers intended position.

The two slots in the rear gearbox mounting may be closed (e.g. with welded washers).

The geartrain from a drum braked gearbox may be transferred to a disc braked gearbox, provided that the geartrain complies with 3 below.

It is permissible to strengthen the gear change linkage and substitute an alternative assembly for the standard rubber bushes, this must be mounted in the manufacturers original and unmodified position.

5.9.2. Prohibited Modifications

It is not permissible to intermix ratios.

5.9.3. Transmission and Drive Ratios

1st	5.202	(19/25 X 14/31 X 14/25	= 0.0465)
2nd	2.656	(19/25 X 23/26 X 14/25	= 0.3764)
3rd	1.785	(14/25	= 0.5600)
4th	1.315	(19/25	= 0.7600)
Rev as first gear		Final Drive	4.125 (8/33)

5.10 Electrics:

The standard 2CV electrical system shall be retained. It is permissible to modify or replace the wiring loom. The fitting of additional instrumentation and switches is also permitted.

5.10.1. Exterior lighting

It is permissible to modify the vertical members of the lighting bar to aid quick removal. A horizontal support bar of 15mm max dia and 1mm wall thickness may be fitted to aid fitting and removal. Rear lights and brake lights shall be operable. A high level rear brake light must be fitted in the rear window. It is permissible to use replica plastic headlamp and indicator lenses that have been approved by the Eligibility Scrutineer. Rear indicators must be fitted and working. A 5 watt telltale shall be fitted and working on the instrument panel. It is permissible to fit additional rear indicators to the bootlid.

5.10.2. Rear Fog Light A rear fog light shall be fitted.

5.10.3. Batteries The 12 volt battery may be of any size or shape provided it is fitted in the standard position on the bulkhead. The battery and voltage regulator must be firmly secured.

5.10.4. Generators A functioning alternator or dynamo must be fitted. It is permissible to fit a switch in the field circuit wiring. The alternator pulley guard shall have a 25mm diameter hole cut in it to facilitate easy checking of the belt tension. The alternator belt shall always be kept at the manufacturer's recommended tension.

5.10.5. Windscreen Wipers It is permissible to remove one windscreen wiper arm and blade. It is permissible to modify the windscreen wiper mechanism, retaining the standard motor, to allow single blade operation. An operable windscreen washing system shall be fitted

5.11 Brakes:

5.11.1. Permitted Modifications

Brake pad/lining material is free from restriction. If fitted, front brake discs must be at least 4mm thick.

5.11.2. It is permissible to replace the brake pipes with flexible pipes.

5.11.3 Prohibited Modifications

The braking system shall be a standard Citroen 2CV6 drum/drum or disc/drum system which must operate on all four wheels. The handbrake must operate on both front wheels simultaneously using the original levers on the calipers by the use of cables onto any type of locking ratchet fitted inside the car. It must be possible for the driver to operate it while strapped and seated in the normal driving position.

5.12 Wheels / Steering:

5.12.1. Permitted Modifications

A universal steering joint shall be fitted at the base of the steering column.

It is permissible to use any track rod adjuster that uses the existing threaded ends of the track rods and the track rod end housing

It is permitted to reinforce the track rods by sleeving.

It is permissible to fit an additional clamp on the track rod adjuster sleeves and weld the pivot arms to the hub assemblies.

It is permitted to fit a non-standard steering wheel.

5.12.2. Prohibited Modifications: Wheel spacers are not permitted.

5.12.3. Construction and Materials: Only steel wheels shall be permitted

5.12.4. Dimensions: The wheels shall be standard production 4J x 15 steel items from the Citroen A series range, or from the Citroen Ami Super.

5.13 Tyres:

5.13.1. Specifications

The only permitted size is, 135 X 15. Remoulds are prohibited.

All tyres shall have a tread depth of at least 1.00mm across 75% of the tread when the car is presented at pre-race scrutineering and in the forming up area before racing.

5.13.2. Nominated Manufacturer

All tyres used in practice and competition shall be Toyo 310 All Tyres shall be of a production compound.

5.14 Fuel Tank / Fuel:

5.14.1. Types: The fuel tank shall be a Citroen 2CV6 standard production item (metal or plastic) with a maximum capacity of 25 litres. It is permissible to fit a vent to the fuel filler neck to enable compliance with MSA Regulation K14.1.2 but, alternative sender units or modifications to the tank are not permitted.

5.14.2. Locations: The fuel tank shall be located in the manufacturer's intended position between the chassis arms at the rear of the vehicle.

5.14.3. Fuel: Standard pump fuel shall be used as defined as petrol in the Terminology Section of the MSA Blue Book.

5.14.4. Filler Cap: A filler cap shall be fitted that complies with Section K14.1.2. of the MSA Blue Book.

5.15 Silencing:

Specification: All cars must comply with Section J5.17. of the MSA Blue Book. It is the competitor's responsibility to ensure that the exhaust system meets the required silencing standards for the competitions for which it is entered.

5.16 Numbers and Championship Decals:

5.16.1. Positions

To be eligible to score points in this Championship all vehicles must carry a BARC Shield on each side in an unobscured position when viewed from a direct side elevation (assuming decals are available at the meeting signing-on). Failure to have these in place at scrutineering will render the car ineligible.

Race numbers backgrounds shall be located, unmodified and in the intended orientation on the front doors and bonnet as required by Section J of the MSA Blue Book.

Competitors shall be required to locate, unmodified and in the intended orientation the decals of the Classic 2CV Racing Club, any Championship sponsor and associates on the cars, in positions to be notified.

5.16.2. Suppliers

Race number backgrounds for the front doors shall be provided to competitors through the Classic 2CV Racing Club.

5.16.3. Driver Identification

All competitors should display their name in both rear passenger windows of the car using white vinyl lettering. Preferred typeface is Arial, first letter uppercase, at least 5cm high, following letters to be lowercase.

6. APPENDICES:

6.1 Race Organising Clubs & Contacts.

- BARC: British Automobile Racing Club,
Thrupton Circuit, Andover Hampshire. SP11 8PN.
Tel: 01264 882200 Fax: 01264 882233
E-mail: competitions@barc.net
- Championship
Co-ordinator Nicola Bush
British Automobile Racing Club,
Thrupton Circuit, Andover Hampshire. SP11 8PN.
Tel: 01264 882209 Fax: 01264 882233
E-mail: nbush@barc.net
- Drivers Rep: Philip Myatt, Daisy Bank, Blurton Road, Barlaston, Stoke on Trent
Staffordshire ST12 9BA
Tel: 01782 373477
- Classic 2CV Club: Paul Robertson, Highway House, Bunkers Hill, Elkersley, Retford Notts
01777 838019.
- Eligibility Scrutineer: Neil White, 8 Wembley Road, Canton, Cardiff CF5 1NG
Tel: 02920 394780
Do not telephone after 22.00 hrs.

6.2 Drawings (1):

Illustration A - Deleted

Illustration B

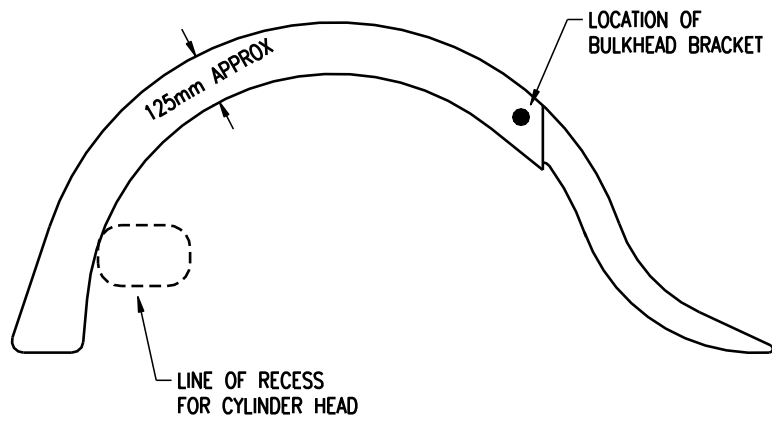


Illustration C - Deleted

Illustration D

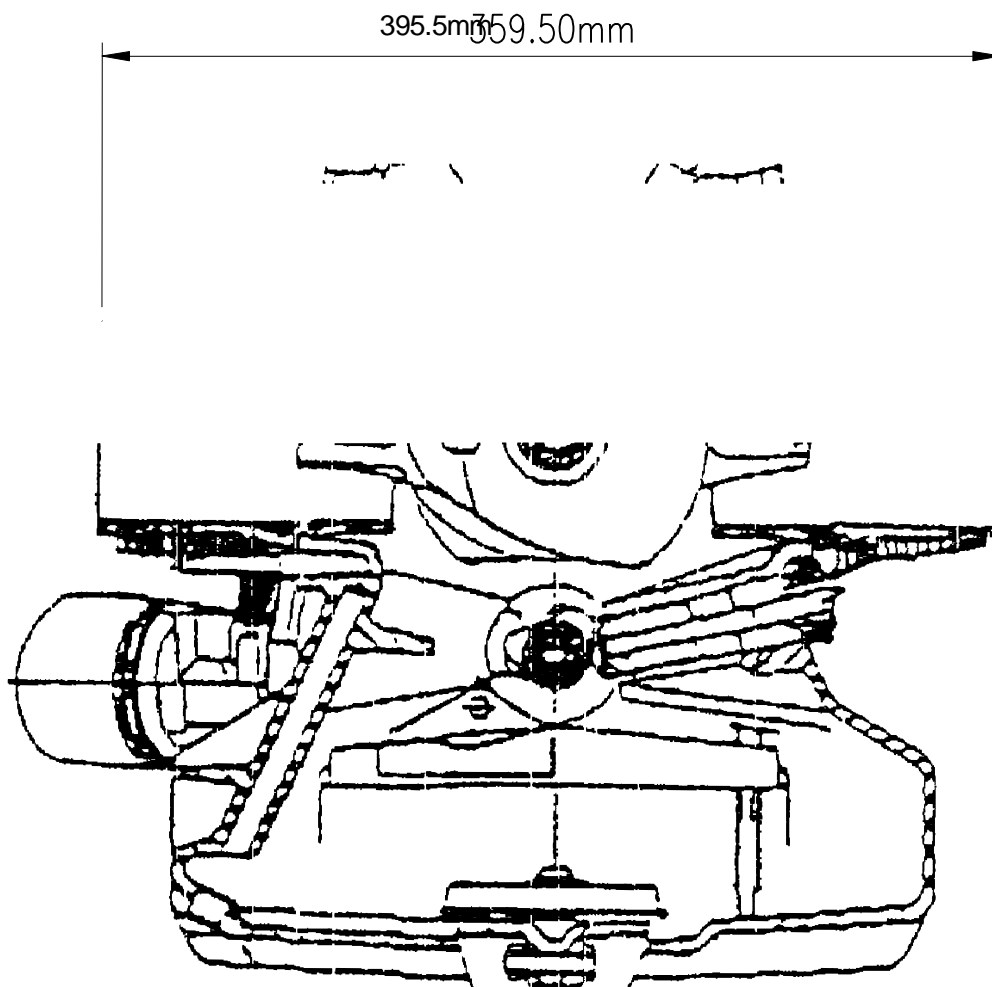
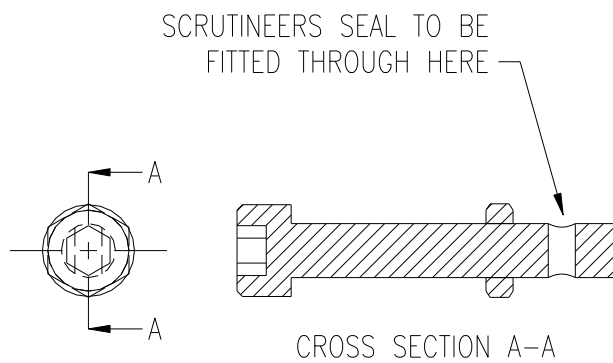
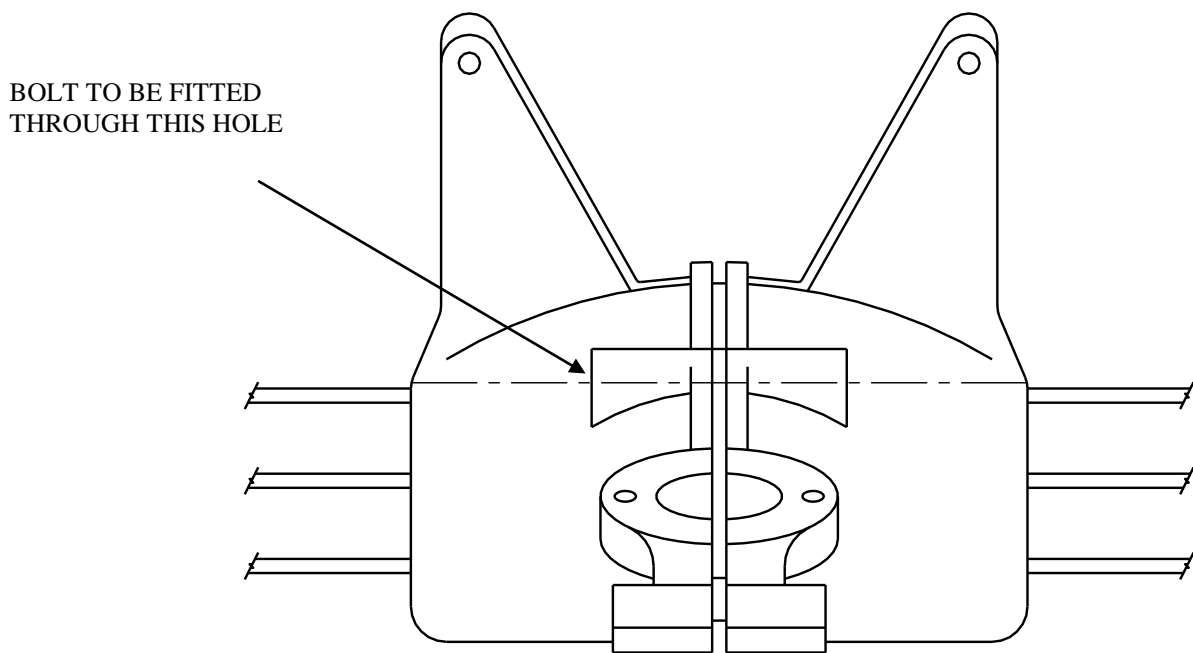


Illustration E



Illustration F



6.3 COMMERCIAL UNDERTAKINGS:

- 6.3.1 In addition to article 1.3.2 above all drivers must also be fully paid up "racing membership" card holding members of the Classic 2CV Racing Club.
- 6.3.2 In addition to article 1.3.3 above membership of the Classic 2CV Racing Club even if that membership is only "day membership" is one of the conditions applied to being considered for being put forward as a guest driver.
- 6.3.3 The Technical Committee of the Classic 2CV Racing Club, will from time to time, visually inspect competitors cars and it is a mandatory requirement that competitors facilitate such inspections. This Technical Committee may also advise the Eligibility Scrutineer on such matters which may potentially contravene these regulations. As a result if the Eligibility Scrutineer feels that the regulations have been breached then he may request ballast to be carried until compliance is achieved.
- 6.3.4 The Classic 2CV Racing Club reserve the right to measure the profile of any camshaft and compare it to a reference camshaft/profile retained by the 2CV Technical Secretary. The details of the findings of any such check will be distributed to the Technical Secretary, Competitor and Scrutineer as well as the information being retained by the Classic 2CV Racing Club.
- 6.3.5 **Championship Graphics**
The Classic 2CV Racing Club have the authority to designate areas of bodywork on all cars registered for or competing in rounds of this Championship as the 'property of the Classic 2CV Racing Club'. These areas which are designated are to be available to the Club for the display of graphics supplied by the Club appertaining to sponsorship of the Club for the Championship or specific races. These areas are:
- i) An area on the front of the bonnet above the grille
 - ii) The area below the A panels (car body)
 - iii) A part of the front doors including above and below the number backgrounds
 - iv) Front windscreen
 - v) No advertising is permitted on rear screen / side windows as per MSA G101.
 - vi) Front spoiler.
 - vii) Area of bodyshell above both side doors, size to be advised.
- An illustration showing all areas for championship graphics will be supplied with the 2010 Classic 2CV Racing Club membership package and failure to display designated graphics will contravene these regulations.

2CV PARTS.COM CHAMPIONSHIP 2010

7. REGISTRATION FORM

Please complete in capital letters

NAME OF DRIVER: _____

ADDRESS: _____

_____ POSTCODE: _____

TEL(DAY): _____ (EVE): _____

E MAIL ADDRESS: _____

AGE: _____ DATE OF BIRTH: _____

NATIONALITY: _____

COMPETITION LICENCE No: _____ GRADE: _____

BARC MEMBERSHIP No: (Compulsory) _____ Expiry: _____

2CV CLUB MEMBERSHIP: _____ (Compulsory)

NAME OF ENTRANT: _____

ADDRESS: _____
(if different from above)

_____ POSTCODE: _____

TEL(DAY): _____ (EVE): _____

ALL CORRESPONDENCE SHOULD BE SENT TO: DRIVER ENTRANT

CAR: CITROEN MODEL: 2 CV CC: 602

COMPETITION NUMBER: -----

**NOTE: Nos 1 - 44 will be allocated by the BARC based on 2008 Championship position
New members will be allocated a number between 45 - 98**

PLEASE COMPLETE REVERSE OF FORM

SIGNATURE OF ENTRANT: _____
(if different from Driver)

SIGNATURE OF DRIVER: _____

PREVIOUS RACING EXPERIENCE OF DRIVER: _____

TO BE COMPLETED BY ALL APPLICANTS:

I wish to register for the **2CV PARTS.COM CHAMPIONSHIP 2010** and I declare that the information given above is correct. I understand that should the above information change in any way I will confirm details in writing to the BARC as detailed below.

SIGNED: _____ DATE: _____

ONCE FULLY COMPLETED THIS FORM SHOULD BE RETURNED TO:

The British Automobile Racing Club, Thruxton Circuit, Andover, Hampshire. SP11 8PN.

PRIOR TO THE FIRST RACE ENTERED

FOR OFFICIAL USE ONLY

REGISTRATION FEE - FREE

DATE RECEIVED:.....

DATE REGISTRATION CARD SENT:.....

COMPETITION NUMBER ALLOCATED:.....