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| REFERENCE | BT_2013_X98CUP_12_UK |
| DATE | 2013 October 12th |
| SUBJECT | Evolution for the Eurocup Clio Barcelona meeting |

Please find a list of updates / evolutions for the Barcelona meeting

1) Turbo air exchanger cooling

To cool the turbo air exchanger more efficiently, a specific water spraying kit has been developed. 1 kit per car will be available for free to the Renault Sport Spare parts truck in Barcelona. The kit includes the following parts:

| Parts | | Reference | Coeff |
|---|------------------------------------|----------------|---------------|
| Turbo air exchanger duct area | Spraying nozzle 0,5mm | 82 01 489 621 | 4 |
| | filter support 200µ | 82 01 489 625 | 4 |
| | Sliding filter holder ring Ø8 | 82 01 489 627 | 4 |
| | T union Ø8 | 82 01 489 628 | 1 |
| | Black hose Ø8 - 3m | 82 01 489 629 | 1 |
| | union FØ6/FØ8 | 82 01 489 633 | 1 |
| | Black hose Ø6 - 1m | 82 01 489 634 | 1 |
| | water pump | 77 11 167 643 | 1 |
| | Fan / pump power supply loom | 82 01 489 635 | 1 |
| | Water tank assembly | water tank 12L | 82 01 489 638 |
| water tank exit union MØ3/4 FØ3/8 | | 82 01 489 640 | 1 |
| water tank exit union MØ3/8 FØ1/8 | | 82 01 489 669 | 1 |
| Anti drain union Ø6 | | 82 01 494 305 | 1 |
| stainless steel clamp 8/10 + shim | | 82 01 489 641 | 4 |
| | Foam | 00 00 066 760 | 1 |
| | Aluminium support 427 x164 x 30 mm | 82 01 489 642 | 1 |
| Fastening kit for the tank + support clamps | screw TRCC6 x 16 | / | 4 |
| | screw TRCC6x30 | / | 2 |
| | Washer Ø6 | / | 2 |
| | Locknut M6 | / | 6 |
| | Washer Ø8 | / | 4 |
| | Aluminium spacer | / | 4 |
| Pump fastening kit | CHC M5x30 | 77 11 154 769 | 4 |
| | Washer Ø6 | 77 11 156 927 | 4 |
| | Nut M5 | 77 03 034 263 | 4 |
| | BH screw M5-20 | 77 11 154 862 | 4 |
| | Nut M5 | 77 03 034 263 | 4 |

You must respect the following instructions to fit the kit:

1.1 Turbo air exchanger duct area

| Parts | Reference | Coeff |
|-------------------------------|---------------|-------|
| Spraying nozzle 0,5mm | 82 01 489 621 | 4 |
| filter support 200µ | 82 01 489 625 | 4 |
| Sliding filter holder ring Ø8 | 82 01 489 627 | 4 |
| T union Ø8 | 82 01 489 628 | 1 |
| Black hose Ø8 - 3m | 82 01 489 629 | 1 |



Spray assembly (x4):

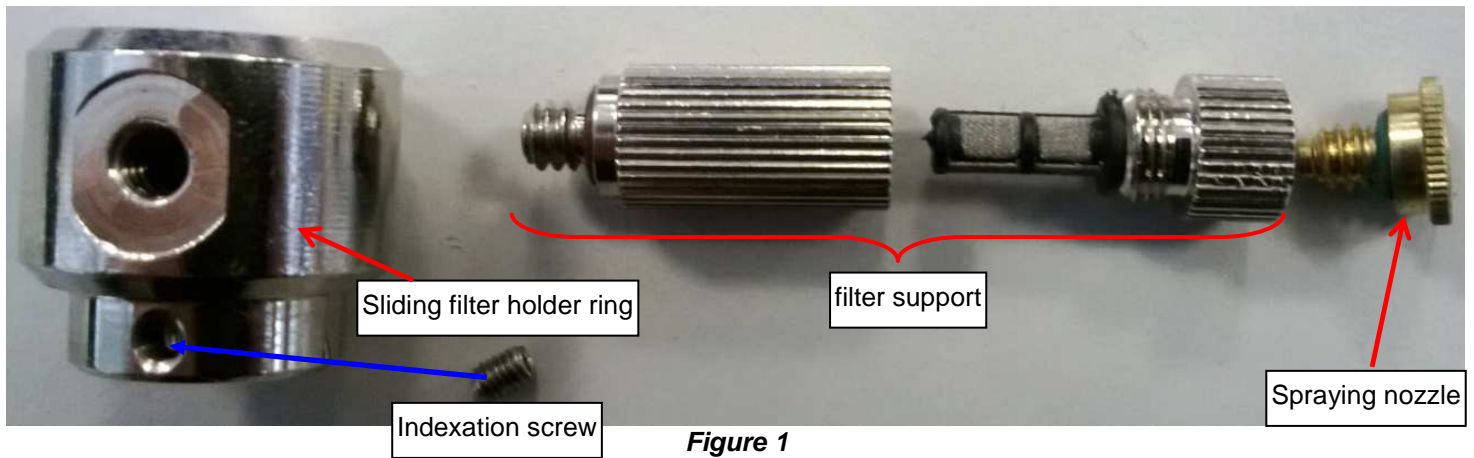


Figure 1

Remove the duct and fit the spraying kit on it :

- a- Drill 2 holes Ø12mm on the duct upper area (fig 2) to allow the 2 upper spray assemblies fitting (fig 1)
- b- Drill 2 holes Ø9mm vertically to the holes drilled in a- (fig 3) to allow the hose path
- c- Cut 86cm of black hose Ø8mm (82 01 489 629)
- d- Slide the 4 spray assemblies to obtain the spraying ring of the figure 4
- e- Drill a Ø16mm hole (fig 2) to fit the T union (82 01 489 628)
- f- Use tyraps® (represented in green below) to fit the hoses and the T union to the duct

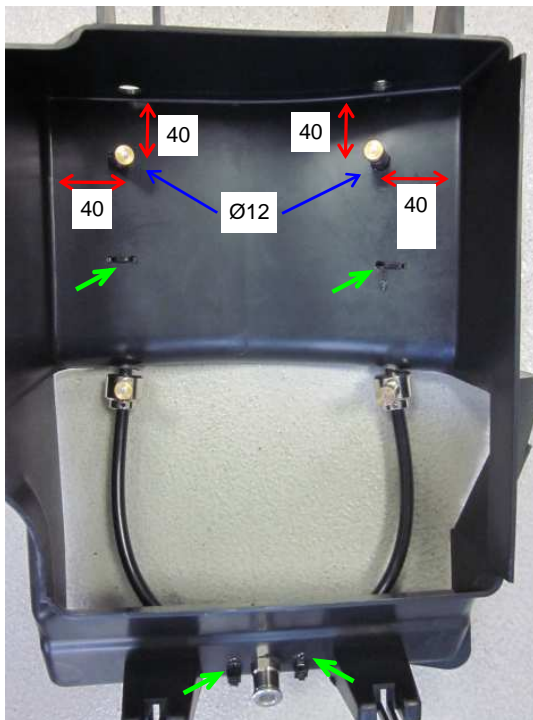


Figure 2
View from Turbo air exchanger side

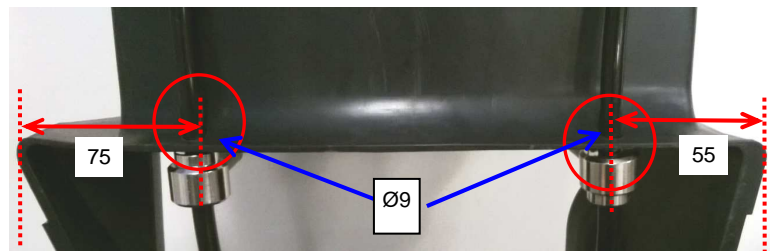


Figure 3



Figure 4
Face view

Once the black hose ring and the sliding filter holder are definitely fitted:

- Slightly tighten the small indexation screws (to fix the position of the sliding filter holder along the hose)
- Unscrew the 4 filters supports from the 4 sliding filter holders (fig 1)
- Drill a Ø2.0mm hole in each black hoses through the sliding filter holder (remove the plastic chips)

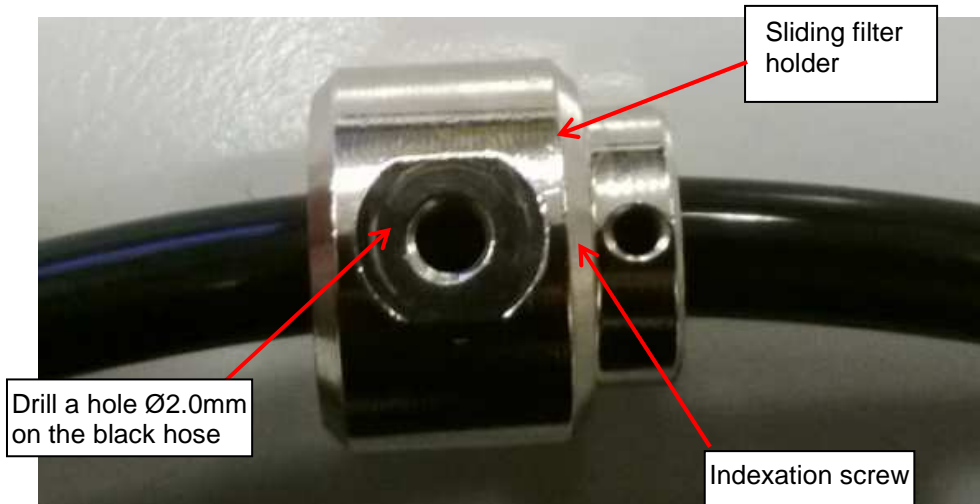


Figure 5

CAUTION:

Once the Ø2.0mm hole is done, it is still possible to adjust the angular position of the sliding filter holder but it will not be possible to slide it along the black hose.

That's why it's necessary to be 100% sure of the 4 sliding filter holder position before drilling any hole

NOTE:

A prototype assembly of the Turbo air duct equipped with the spraying kit will be visible at the Renault Spare parts truck.

1.2 Water tank and pump fitting

| Parts | | Reference | Coeff |
|---|------------------------------------|---------------|-------|
| | union FØ6/FØ8 | 82 01 489 633 | 1 |
| | Black hose Ø6 - 1m | 82 01 489 634 | 1 |
| | water pump | 77 11 167 643 | 1 |
| Water tank assembly | water tank 12L | 82 01 489 638 | 1 |
| | water tank exit union MØ3/4 FØ3/8 | 82 01 489 640 | 1 |
| | water tank exit union MØ3/8 FØ1/8 | 82 01 489 669 | 1 |
| | Anti drain union Ø6 | 82 01 494 305 | 1 |
| | stainless steel clamp 8/10 + shim | 82 01 489 641 | 4 |
| | Aluminium support 427 x164 x 30 mm | 82 01 489 642 | 1 |
| | Foam | 00 00 066 760 | 1 |
| Fastening kit for the tank + support clamps | screw TRCC6 x 16 | / | 4 |
| | screw TRCC6x30 | / | 2 |
| | Washer Ø6 | / | 2 |
| | Locknut M6 | / | 6 |
| | Washer Ø8 | / | 4 |
| | Aluminium spacer | / | 4 |
| Pump fastening kit | CHC M5x30 | 77 11 154 769 | 4 |
| | Washer Ø6 | 77 11 156 927 | 4 |
| | Nut M5 | 77 03 034 263 | 4 |
| Aluminium support fastening | | | |
| | BH screw M5-20 | 77 11 154 862 | 4 |
| | Nut M5 | 77 03 034 263 | 4 |

The water tank and the pump have to be fitted on the passenger side as indicated in figure 8, using the drilling jig available from the Renault Sport spare parts truck.

This jig will define the exact position of the holes to drill on the chassis (fig 6/6bis and 7)

NOTE : You have to drill 4 holes Ø5mm for the aluminium water tank support fitting. For the 2 holes situated on the driver's side, and as this area consists in 2 spaced steel sheets, it is necessary to drill a Ø16mm hole from under the car into the lowest sheet to allow the nut tightening on the first steel sheet only.



Figure 6 : Water tank aluminium support holes (Ø5mm), view from top



Figure 6bis :
View from under the car : 2 holes Ø16mm concentric with the 2 Ø5mm

For the pump fitting, 4 holes Ø5mm have to be drilled, respecting the drilling jig

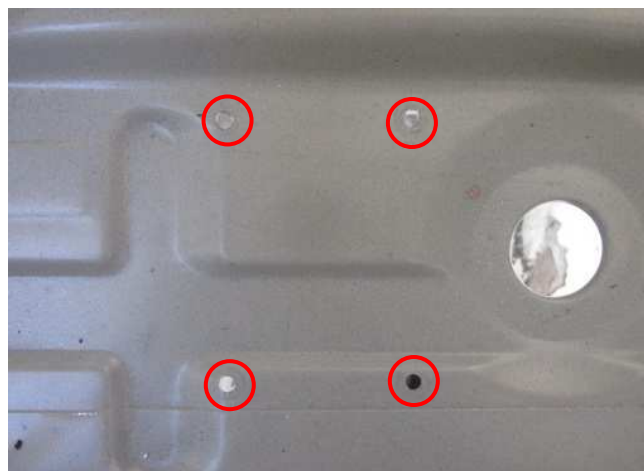


Figure 7: water pump support holes (Ø5mm), view from top

Then fit the tank and pump as indicated below using the fastening kit listed on page 3

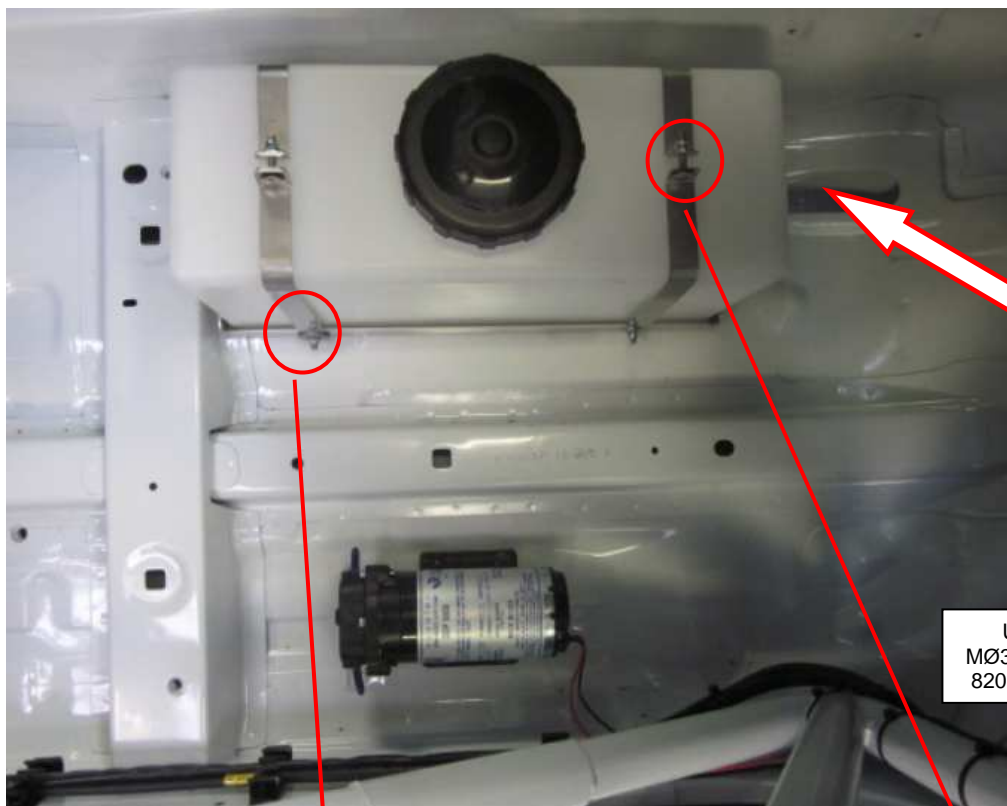
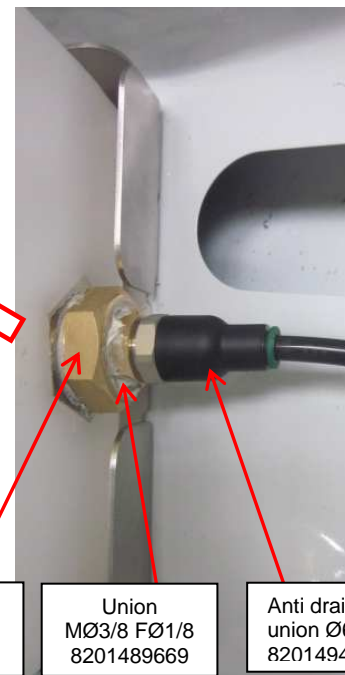
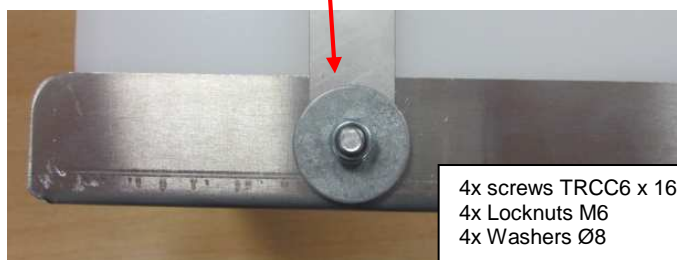


Figure 8



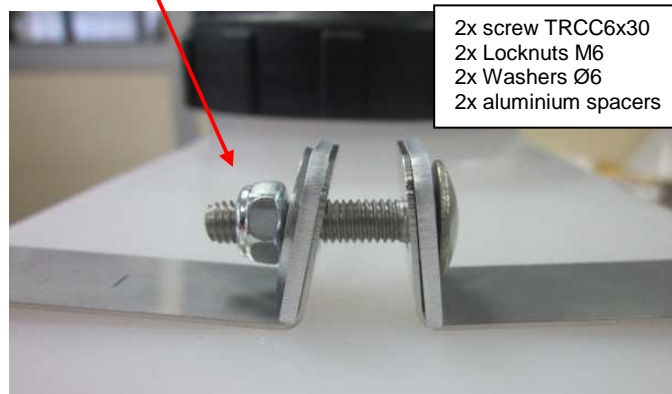
- Union MØ3/4 FØ3/8 8201489640
- Union MØ3/8 FØ1/8 8201489669
- Anti drain union Ø6 8201494305

Figure 9



- 4x screws TRCC6 x 16
- 4x Locknuts M6
- 4x Washers Ø8

Figure 10 : Clamp lower fitting to the aluminium support (x4)



- 2x screw TRCC6x30
- 2x Locknuts M6
- 2x Washers Ø6
- 2x aluminium spacers

Figure 10 : clamp upper fitting on the tank (x2)

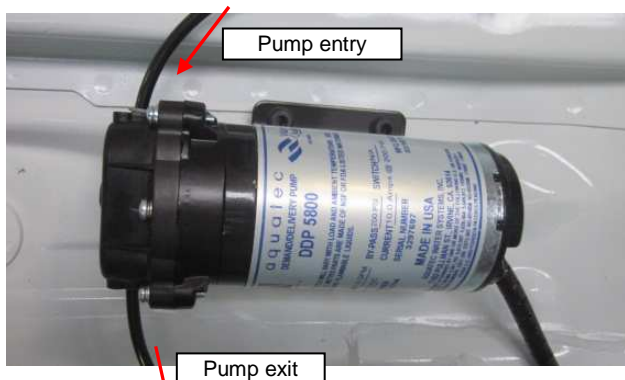


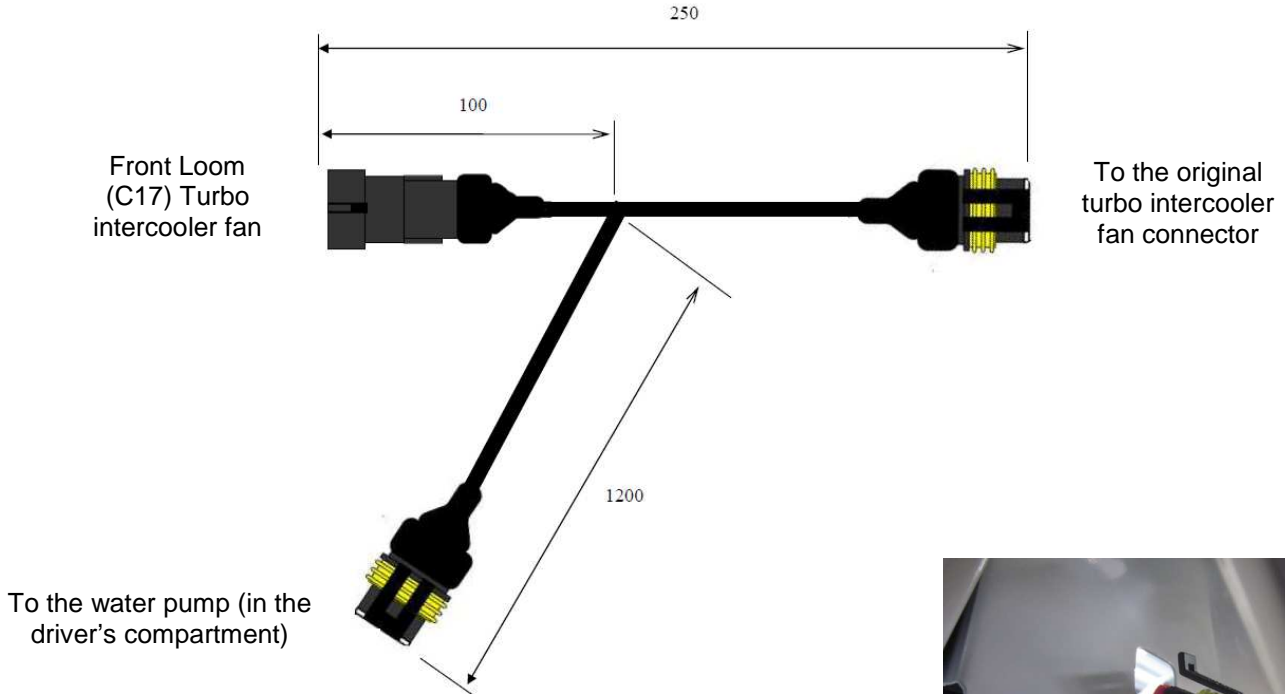
Figure 11 : pump and hoses

Join the anti drain union Ø6 (fig 9) to the pump entry (check the arrow indicated on it) and cut the Black hose Ø6 (ref 8201489634) at the right dimension

Plug the remaining length of the black hose Ø6 to the pump exit and then fit the union FØ6/FØ8 (82 01 489 633) at the extremity (fig 13)

1.3 Power supply loom (82 01 489 635) and hose

This loom must be plugged to the front loom connector originally used to supply directly the Turbo air exchanger fan.



NOTE: The fan and the water spraying will always work simultaneously

Fit the 1200mm extremity along the chassis in the engine compartment and through the engine bulkhead near the engine loom connector (fig 8)



Figure 12



Figure 13

The remaining black hose Ø8 (3m – 86cm, see 1.1) as to be plugged to the union FØ6/FØ8 (82 01 489 633) fitted in 1.2 through the engine bulkhead

Black hose Ø8
(82 01 489 629)

Power supply loom
(82 01 489 635)



Power supply loom
(82 01 489 635)



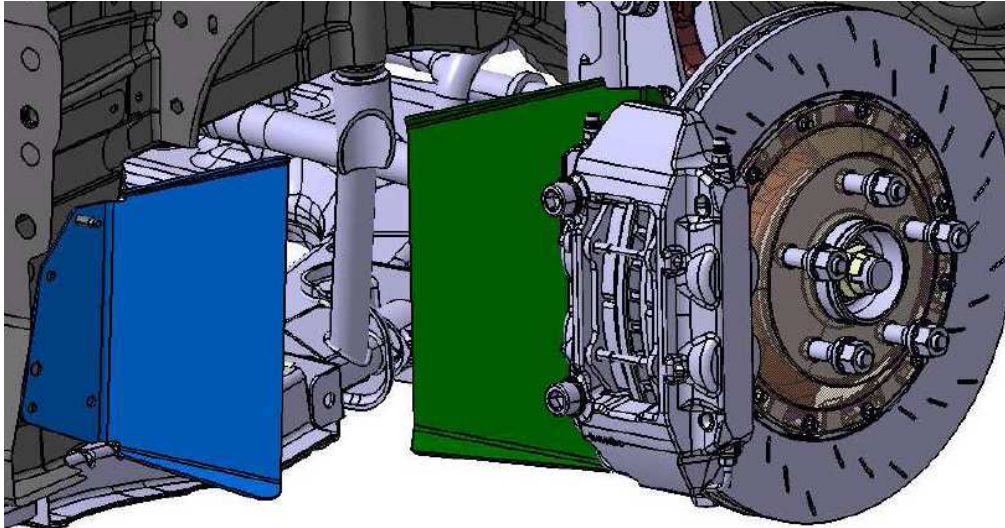
T union Ø8
(82 01 489 628)

Black hose Ø8
(82 01 489 629)



REMARK: For an efficient spraying, we strongly advise you to clean regularly the filter and to use demineralised water

2) Font brake cooling



The temporary brake cooling kit introduced 2 weeks ago for the Paul Ricard meeting (Technical Bulletin n°11) will be maintained for the 2 last EURO CUP meetings (Barcelona and Motorland).

Please find the references of this kit below:

- 1 x Right hand side chassis air deflector : 8201495322
- 1 x Left hand side chassis air deflector : 8201495321
- 2 x Calliper air deflector : 8201495320
- 1 x HC screw M8-20 : 7711166396
- 2 x washers Ø8X18 : 7711156945
- 1 x screw M6 : 7703033083
- 1 x anchor nut M6 : 7711156941
- 1 x screw M6-20 : 7703002155

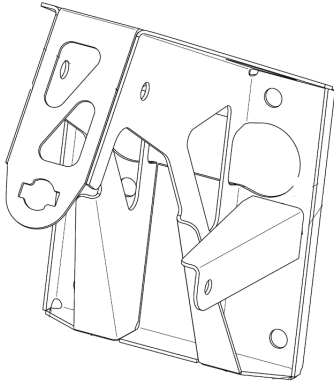
NOTE:

This cooling kit was offered for all the EURO CUP Cars present in Paul Ricard but it will have to be bought directly to Renault Sport spare parts truck from now if required.

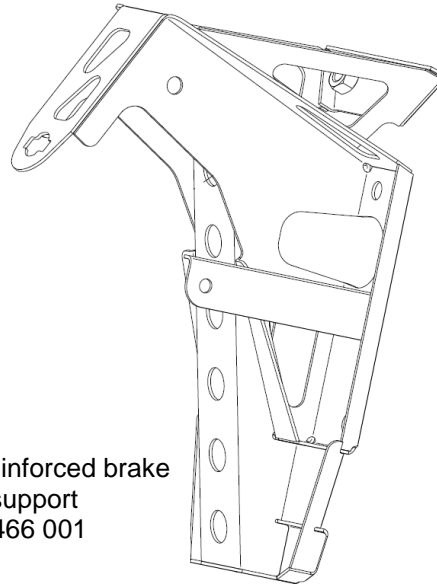
We remind you that this kit is **mandatory.**

3) Brake Pedal support

To improve the stiffness of the assembly, a new reinforced brake pedal support has been designed and is now fitted on every brand new car manufactured in Renault Sport Workshop.



Current brake
pedal support
82 01 412 926



New reinforced brake
pedal support
82 01 466 001

The fastening kit is exactly the same as the old one but it is necessary to add the following elements:

- 2 x HC screw M8-20 ref 7711166396
- 2 x Anchor nuts (Rivkle) M8 ref 7711160808
- 2 x washer M8 ref 7711156918

This new brake pedal support will be:

- Available from the Eurocup Clio Barcelona meeting next week directly to the Renault Sport spare parts truck
- Offered **free of charge for every exchange with the current version (82 01 412 926).**

For any information about the exchange, you must contact Anthony CHEVALIER: anthony.chevalier@renault.com

Regulations:

This new reinforced support will be allowed but not mandatory for the EURO CUP Clio meeting of Barcelona but will be mandatory for the last meeting of Motorland.

4) Electronic devices updates

5.1 ECU

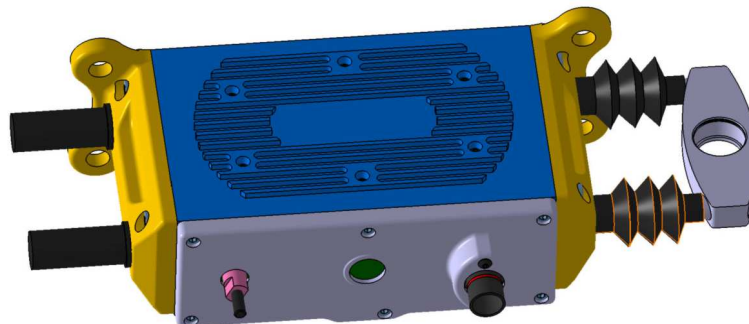
The definitive ECU calibration has been validated in Paul Ricard therefore all the ECU must be reprogrammed. This operation will be performed by a Renault Sport technician directly in the car (no need to remove the ECU). The original ECU sticker will be replaced by the following one (evo 2013.2):



CAUTION : The non presence of this sticker is a technical non conformity.

5.2 XAP actuator

A software update (v3) will be deployed on all actuators. This operation will be performed by a Renault Sport technician directly in the car (no need to remove the actuator).



5) Switch panel

For reliability reasons, we ask you to add a grower washer to tighten the switch panel fitting screws (1) and (2). These 2 washers will be available directly to the Renault sport spare parts truck in Barcelona

