



# U.S.A. RECALL CAMPAIGN NO. 48

## Ferrari 355 and 355 F1

### RECALL CAMPAIGN OVERVIEW (cont.)

**PARTS INVOLVED:** The parts kit required for this repair is identified by the following part number:

**Fuel Divider Block kit part number: 70001495**

**LABOR:** Inspection of the fuel delivery system and replacement of the fuel divider block

#### 1995 - 1999 Model Year Ferrari 355 and 355 F1 Models

- Cost code.....24
- Campaign number .....48
- Component code .....140043
- Problem code .....01
- Labor Operation code.....29.0.90.159.0 (1.5 hrs)

**REIMBURSEMENT:** Upon receipt of a warranty claim via ModisCS

# TECHNICAL INSTRUCTIONS

## IMPORTANT WARNING ON VEHICLE SAFETY

RECALL CAMPAIGN NO. **48** – Fuel divider block replacement.

### IMPORTANT

This RECALL CAMPAIGN NO. **48**, refers only to F355 cars, which are equipped with a single fuel pump system.

### WARNING

This RECALL CAMPAIGN NO. **48**, can only be carried out after the following Recall campaign has been completed:

- Recall campaign No. **158 (580)** – March, 1998

Subject: Fuel supply pipes (cars with a single fuel pump system).

Cars that have **NOT** had Recall Campaign no. **158 (580)** completed **must have it performed** together with this Recall Campaign no. **48**.

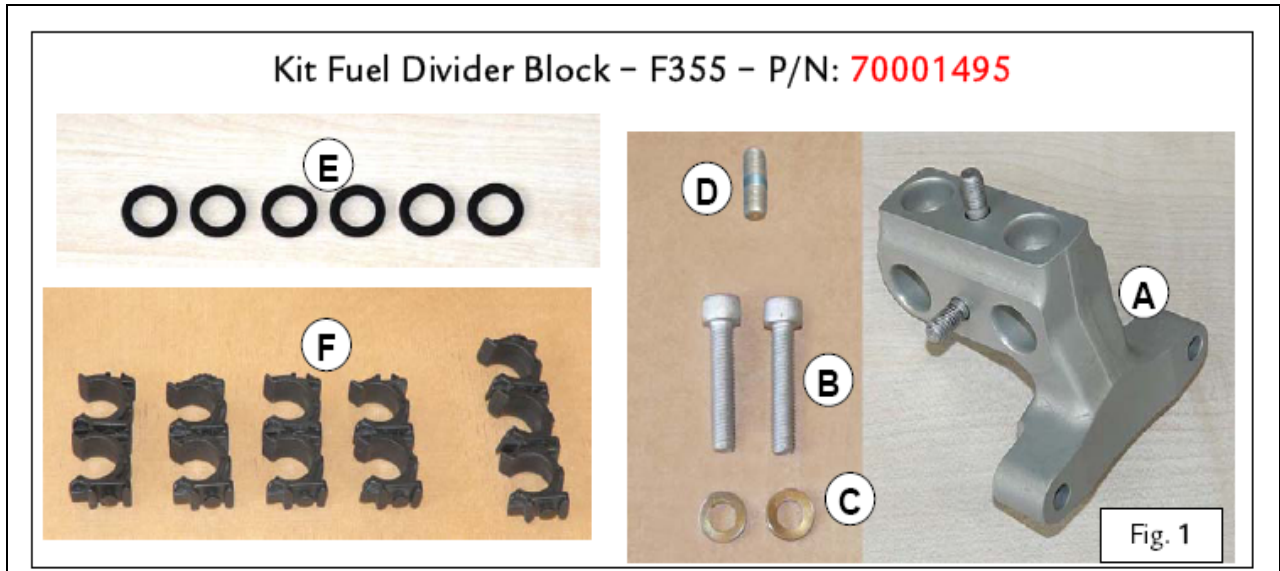
The defect involves the fuel line divider block located inside of the engine compartment. It has been determined that it is possible that independent automobile repair facilities may improperly install certain screw clamps that are located in close proximity to the fuel lines and that fasten the water sleeve to the thermostat connection (Fig. 2 / 2a - page 2). The improper installation of these screw clamps may damage the fuel supply pipes, which in turn could leak fluid into the engine compartment, causing smoke and, in some circumstances, a fire, rendering the vehicle inoperable and possibly resulting in a crash. For these reasons, Ferrari has decided to launch a Recall Campaign to install a new fuel divider block, which will serve to provide a greater distance between these screw clamps and the fuel lines.

**This Recall involves F355 / F355F1 vehicles starting with Assembly no. 19318, up to and including Assembly no. 33972** - The list of affected VIN numbers can be found on ModisCS.

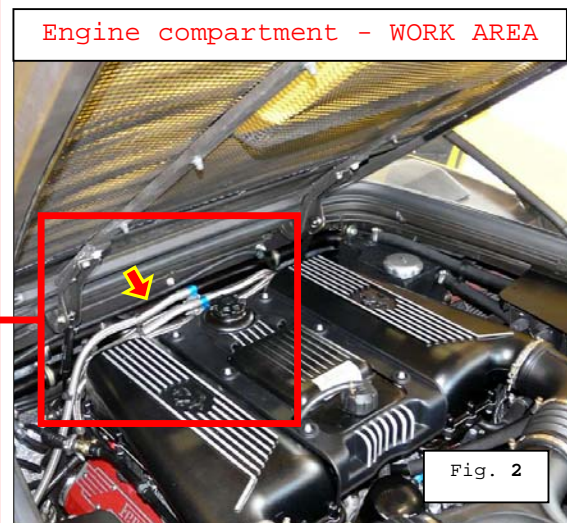
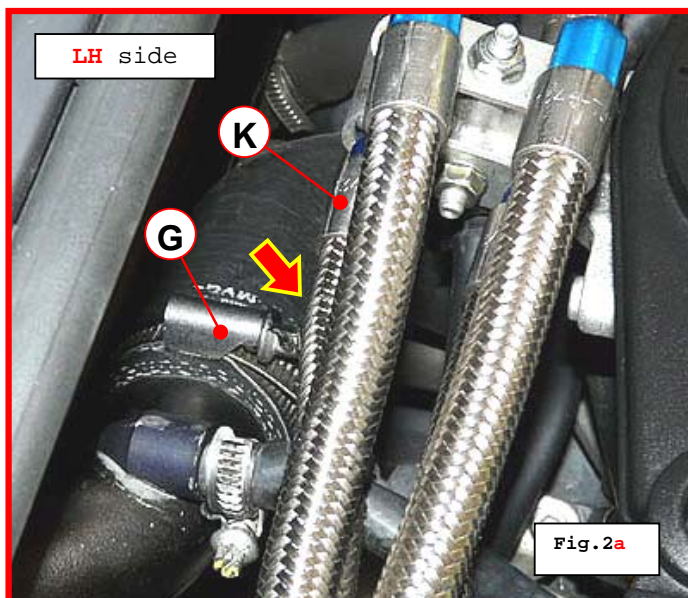
## 1. Subject of the recall campaign.

This **RECALL CAMPAIGN** involves the replacement of the fuel divider block Part. no. 165192 (Fig. 3 – page 3) or Part. no. 178937 (Fig. 3a – page 3), with a new “**Fuel Divider Block Kit – F355**” Part no. **70001495** - (Fig. 1), this kit consists of:

A) - Complete fuel divider block	Part. no. 258700	Qty. 1
B) - Divider block fastening screws	Part. no. 14305534	Qty. 2
C) - Conical washer	Part. no. 11197774	Qty. 2
D) - Stud bolt M5	Part. no. 11000824	Qty. 1
E) – O-Ring seals	Part. no. 127816	Qty. 6
F) - Clip	Part. no. 140727	Qty. 11



This service needs to be carried out in order to avoid a possible interference (red arrow – Fig. 2 / 2a) which might occur between the fuel delivery pipe (K) - Part. no. 171344 from the divider block to the LH injector rail, and screw clamp (G) - Part. no. 13000690 fastening the thermostat connection water sleeve (Fig. 2a).



**Interference of the clamp with the fuel line could possibly:**

- (i) – cause pipe (K) – (Fig. 2a – page 2) to rub through, and consequently cause fuel leakage, and possibly a fire.
- (ii) – cause the engine to malfunction.

The improper installation or the incorrect orientation of **screw clamp (G)** – (Fig. 2a – page 2), could possibly cause, over time, damage of the fuel delivery pipe.

It is therefore necessary to issue a **RECALL CAMPAIGN** to inform Clients to take their car to an authorized Ferrari Service Center to have this recall performed.

**1.1 Catalogue reference**

Parts catalog - F355 M 2.7  
Tab. 9 – Supply pump and pipes  
June 2000

Fig. 3

62

62	165192	Fuel divider	1
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Used from Assembly no. 19298  
up to Assembly No. 32118

Parts catalog - F355 / 355F1  
Tab. 10 – Supply pump and pipes  
June 2000

Fig. 3a

62

62	178937	Fuel divider	1
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Used from Assembly no. 32119  
up to Assembly No. 33974



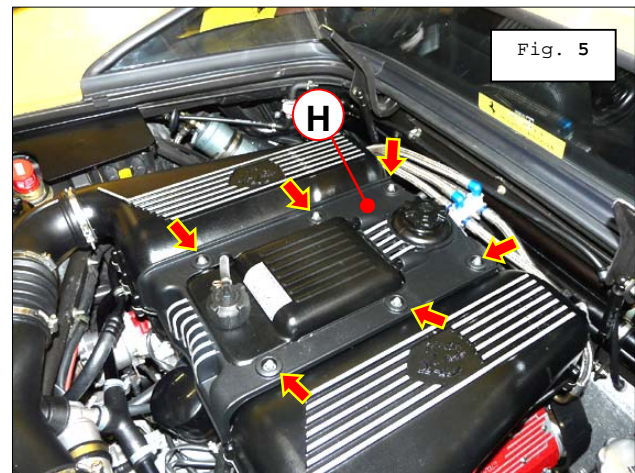
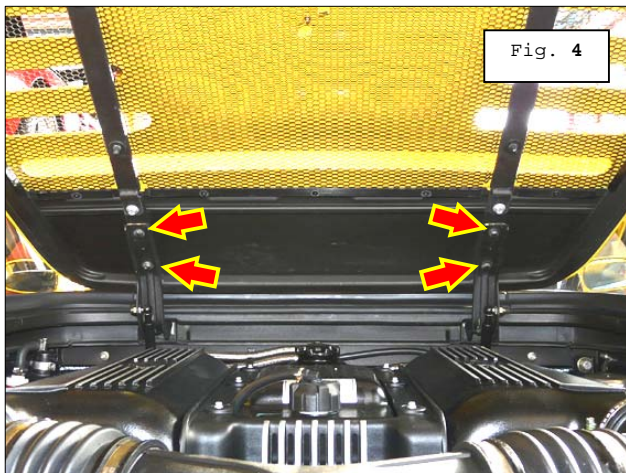
## 2. Procedures:

Before proceeding with this **RECALL CAMPAIGN**, read these instructions carefully and completely and ensure the engine is **cold**.

### - WARNING -

These instructions refer to the vehicle fuel supply system. Please adhere to all necessary personal and environmental precautions required for accident-prevention / antipollution legislation in force concerning the treatment of harmful substances.

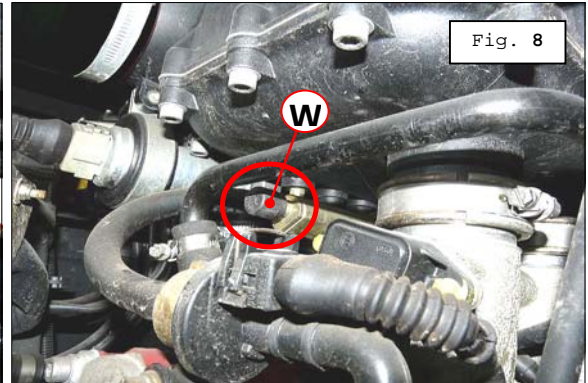
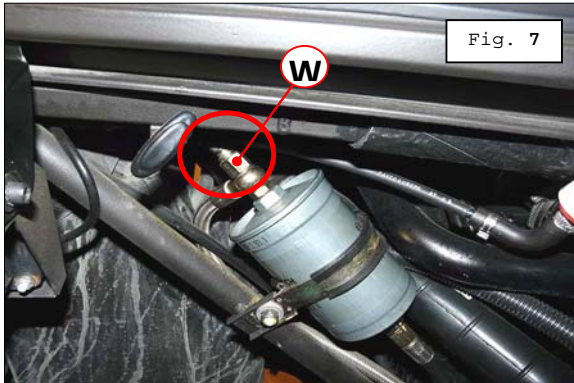
- 2.1 Switch the **battery master OFF** (as described in paragraph L6. of the Repair Manual).
- 2.2 Remove the **engine compartment lid**, by removing the **4 fastening screws** – (Fig. 4).
- 2.3 Remove the **front shield (H)** by removing the **6 nuts** which fasten it to the air supply manifolds – (Fig. 5).



- 2.4 Unscrew and remove the fuel filler cap to **release any pressure from the supply system**. Then, screw the cap back on – (Fig. 6).



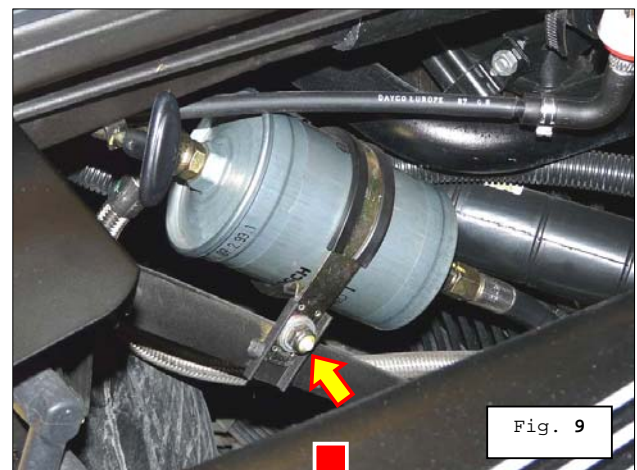
**2.5 To remove any residual pressure from the fuel system, locate one of the two system breather valves (W), one is on the fuel filter – (Fig. 7), and the other is on the rear of the injector rails (the easiest one to access is on the LH injector rail – Fig. 8).**



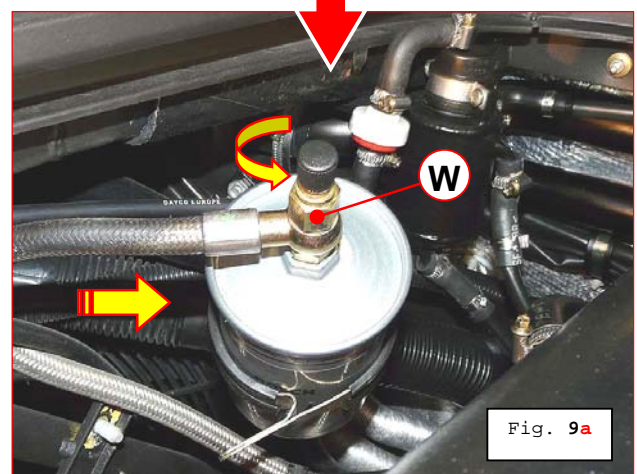
**NOTE:** - If accessing the breather valve (W) on the fuel filter – (Fig. 7), follow the procedures starting from point 2.6.

- If accessing the breather valve (W) on the injector rails (Fig. 8), follow the procedures starting from point 2.8.

**2.6 Remove the lock nut (yellow arrow – Fig. 9), from the bracket with fuel filter clamp**



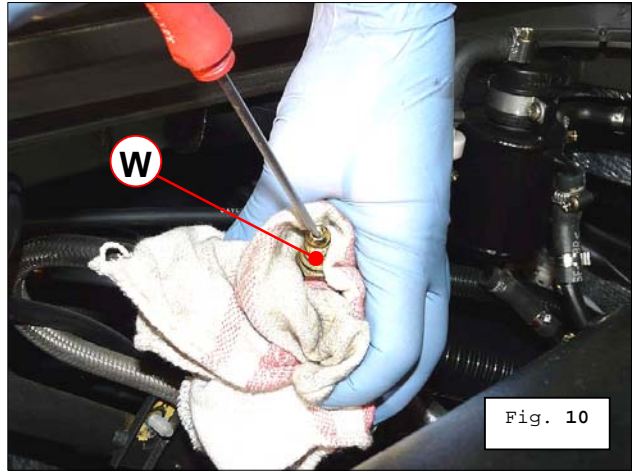
- Move the fuel filter back towards the engine - **unscrew and remove the plastic cap from the breather valve (W) – (Fig. 9a).**





- 2.7 Carefully, wrap the fuel filter in a shop towel then, using a screwdriver, **press gently** on the pin inside the breather valve (W), until all pressure has been released from the fuel system – (Fig. 10).

**NOTE:** A small amount of fuel will leak from the breather valve (W) during this operation; dry the work area carefully with compressed air.

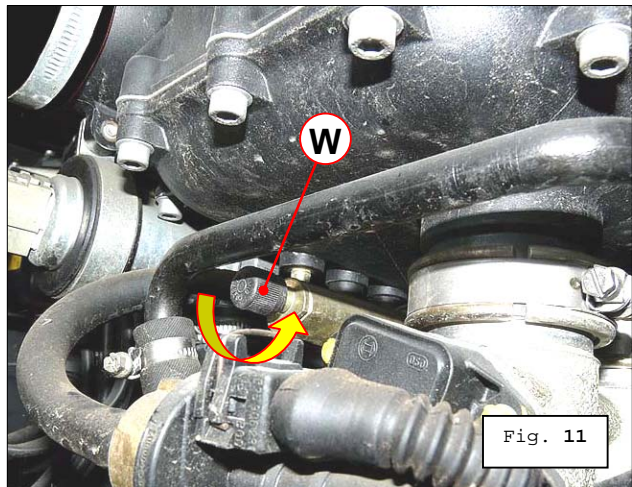


**NOTE:** Now proceed with point 2.9

- 2.8 If accessing the **breather valve (W)** on the **injector rails** (the **LH rail** is the easiest to access - Fig. 11), proceed as follows:

- **Unscrew and remove the plastic cap of the breather valve (W)** – (Fig. 11).

- **Provide adequate protection (shop towel, etc.) in the area below the valve, then using a screwdriver, press lightly on the pin inside the breather valve (W), until all pressure has been released from the fuel system - (e.g. see Fig. 10).**



**NOTE:** A small amount of fuel will leak from the breather valve (W) during this operation; carefully dry the area with compressed air.

**NOTE:** Now proceed with point 2.9.

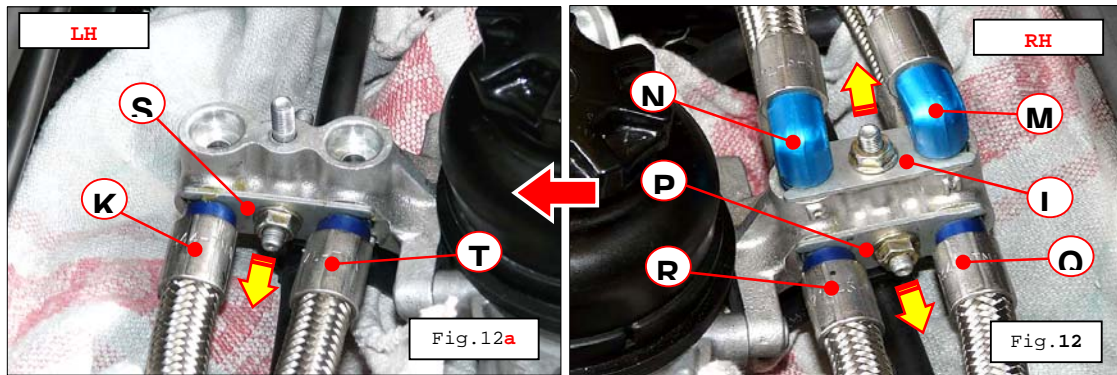
- 2.9 (\*) - Remove the fastening **nut** of the **plate (L)** retaining **pipe (M)** - fuel delivery from the filter to the divider block, and retaining **pipe (N)** - fuel return from divider block to fuel pump; take off **plate (L)** from the stud bolt, together with **pipes (M)** and **(N)** – (Fig. 12).
- 2.10 (\*) - Remove the fastening **nut** on plate **(P)** retaining **pipe (Q)** - fuel delivery from divider block to RH injector rail, and retaining **pipe (R)** - fuel return from RH pressure adjuster to divider block; remove **plate (P)** from the stud together with **pipes (Q)** and **(R)** – (Fig. 12).
- 2.11 (\*) - Remove the fastening **nut** on plate **(S)** retaining **pipe (K)** - fuel delivery from divider block to LH injector rail, and retaining **pipe (T)** - fuel return from LH pressure



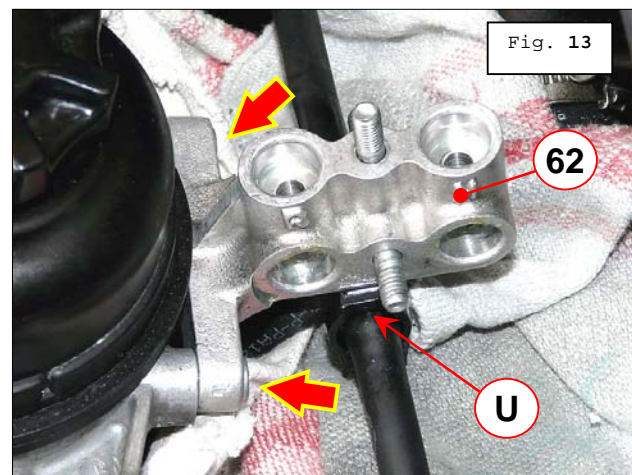
adjuster to divider block; remove **plate (S)** from the stud together with **pipes (K)** and **(T)** – (Fig. 12a).

(\* ) - **NOTE:** Take appropriate precaution (cloth / absorbent towel), to soak up any fuel that may drip from the pipes of the fuel supply system; carefully dry the work area with compressed air.

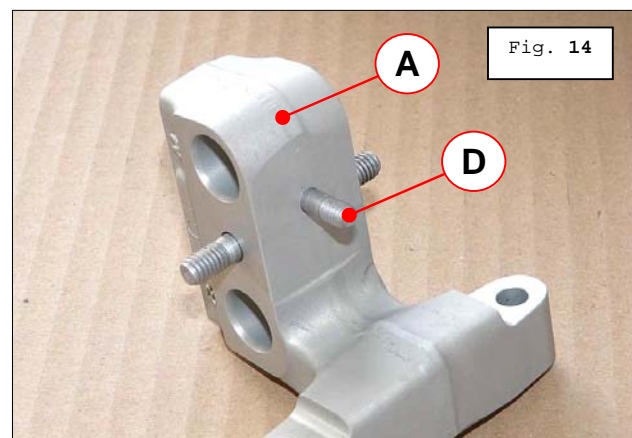
**IMPORTANT:** Carefully inspect all of the fuel lines to be sure there are no abrasions, cracks or any signs of wear. If any signs of wear, cracks or abrasions are found, replace the affected fuel line.



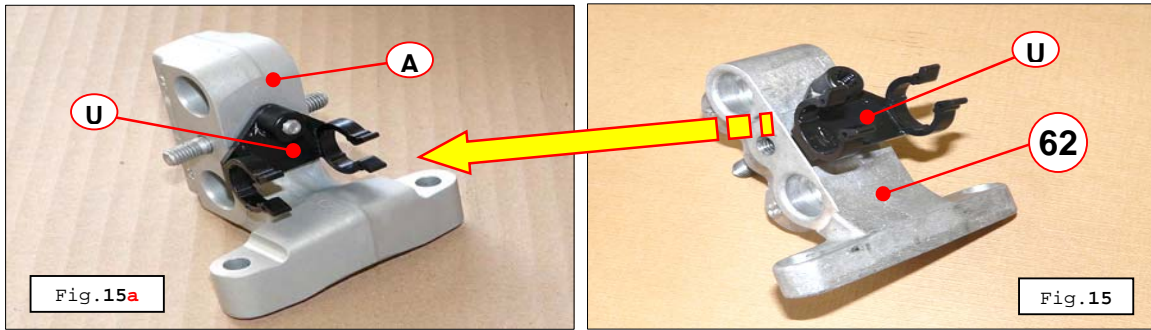
**2.12** Unhook the pipe of the evaporative emissions control system from clip (U) Part. no. 128292, located under the old fuel divider block (62) Part. no. 165192, or Part. no. 178937. Next, remove the old divider block, by removing the 2 screws (red arrows) which fasten it to the power steering tank support bracket (Fig. 13).



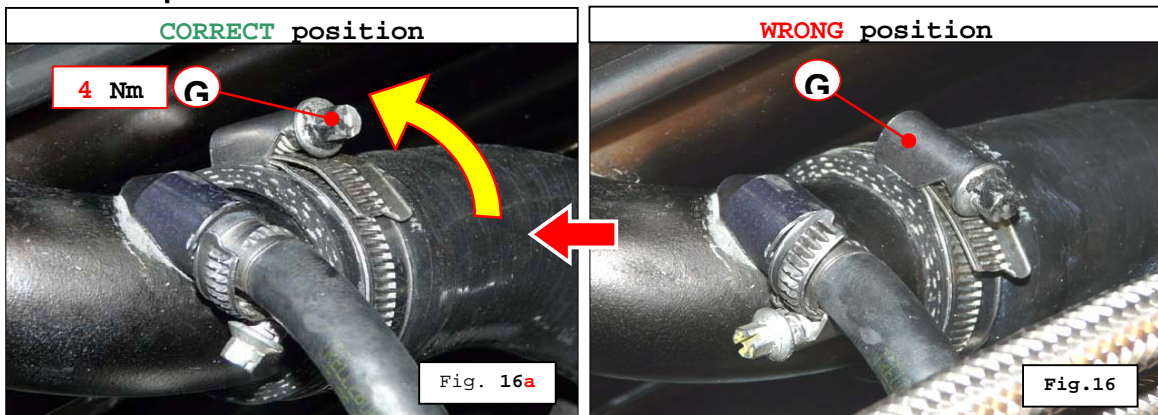
**2.13** Tighten stud bolt (D) until it bottoms out into the respective hole on the lower side of the new divider block (A) – (Fig. 14).



**2.14** Remove clip (U) Part. no. 128292 (Fig. 15) for the pipe of the evaporative emissions control system from the old fuel divider (62); install it on the new divider block (A), positioning it as shown in Fig. 15a.

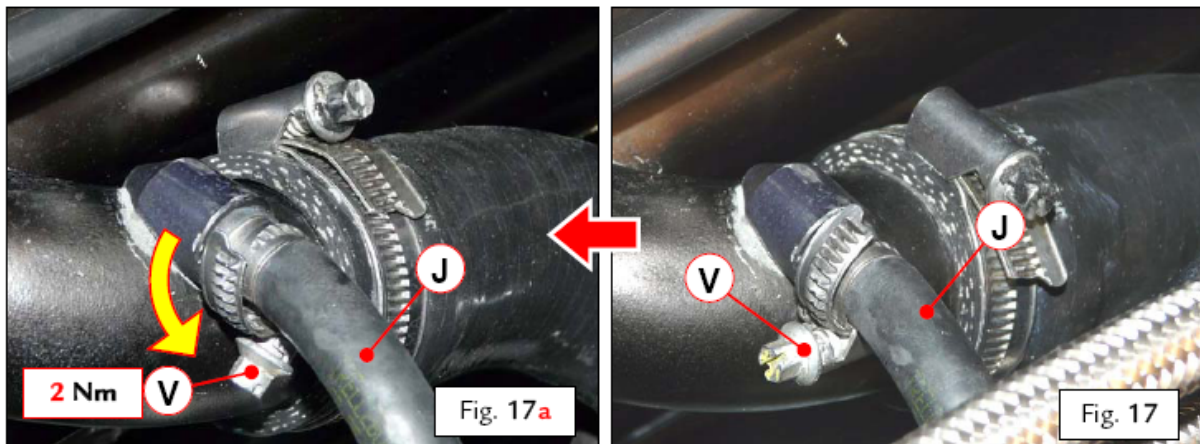


- 2.15 Check the position of **screw clamp (G) Part. no. 12177090**, which fastens the thermostat connection water sleeve:  
 - in case this is in the **WRONG** position as shown in Fig. 16, **loosen it and turn it upwards (yellow arrow), bringing it to the CORRECT position** as shown in Fig. 16a. - (This was also required in **Recall Campaign no. 158**). After ensuring the screw clamp is in the correct position as shown in Fig.11a, **tighten the screw clamp to a torque of 4 Nm**.



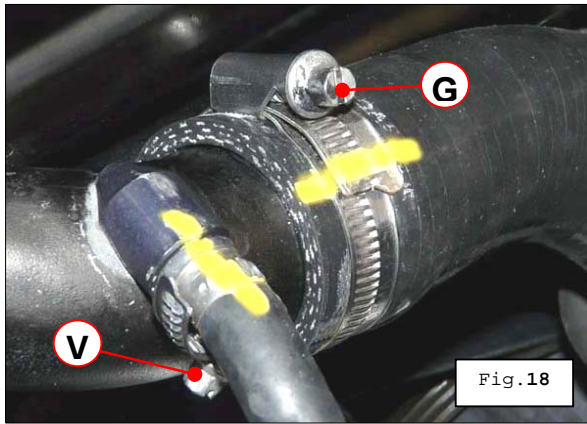
- 2.16 Loosen screw clamp (V) Part. no. 13000190 (Fig. 17) which fastens the small water pipe and turn it downward (yellow arrow) to the position as shown in Fig. 17a. Tighten to a torque of **2 Nm**.

**NOTE: Carefully check the condition of pipe (J) in the area of the screw clamp (V) - NO cracks must be present - If necessary, replace the pipe Part No 161609.**

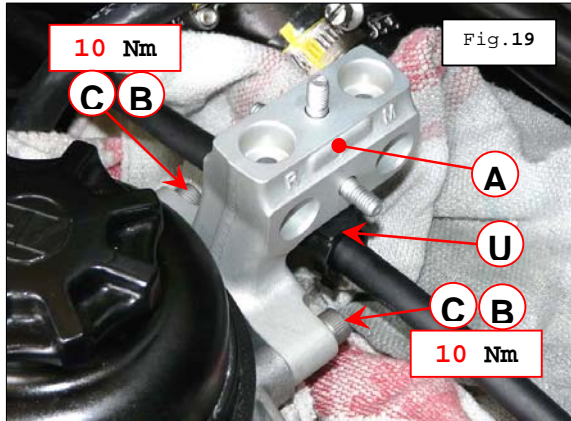




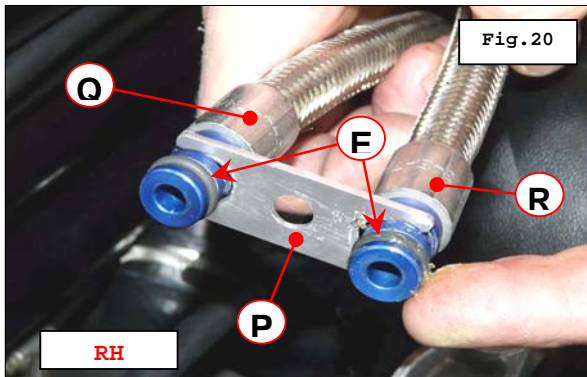
- 2.17 With an indelible yellow marker or paint, certify that the correct position and torque of screw clamps (G) and (V) - (Fig. 18) have been completed.



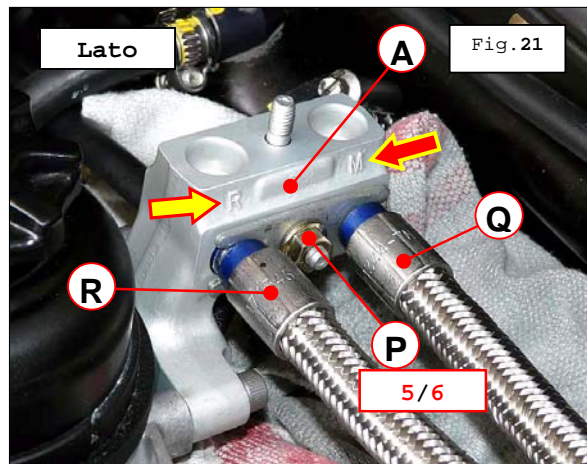
- 2.18 Install the new divider block (A) to the power steering support bracket with washers (C) and screws (B), Tighten to a torque of 10 Nm. Next, insert the pipe of the evaporative emissions control system into the clip (U) - (Fig. 19).



- 2.19 Carefully, replace the O-Ring seals of delivery pipe (Q) and fuel return pipe (R) – RH side, with new O-Ring seals (E) Part. no. 127816 (Fig. 1); then lightly lubricate the new seals (Fig. 20). **NOTE: Check the integrity of the O-Ring seals after installing to ensure they are NOT damaged.**



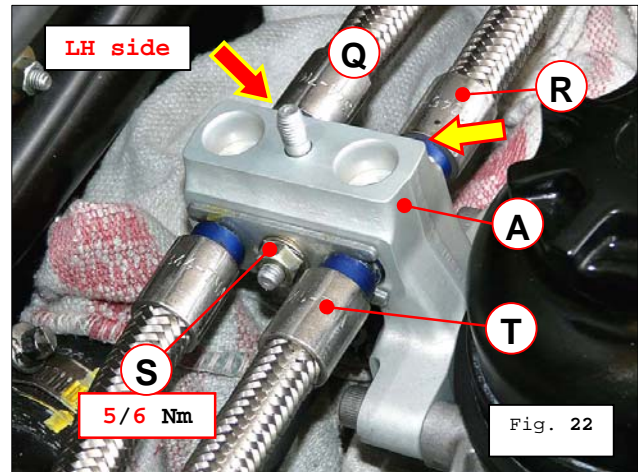
- 2.20 Carefully, insert delivery pipe (Q) and fuel return pipe (R), into the holes located on the RH side of new divider block (A), (letter "M"-Mandata (delivery) - (red arrow) and letter "R"- Ritorno (Return) (yellow arrow). Then tighten the nut of retaining plate (P), to a torque of 5 / 6 Nm. With an indelible yellow marker or paint, certify the torque of the nut - (Fig. 21).



- 2.21 Carefully, **replace** the O-Ring seal of delivery pipe (K) and of the fuel return pipe (T) – LH side (Fig. 22), with new O-Ring seals (E) Part. no. 127816 (Fig. 1); then lightly lubricate the new seals.

**NOTE: Check the integrity of the O-Ring seals after installing to ensure they are NOT damaged.**

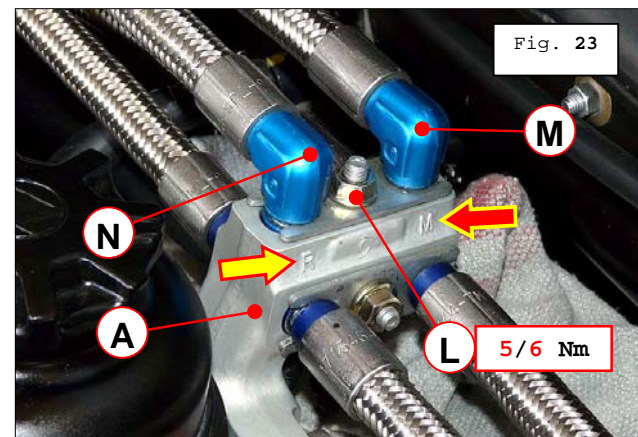
- 2.22 Carefully, insert delivery pipe (K) and fuel return pipe (T), into the holes located on the LH side of new divider block (A), marked with letter “M”- Mandata (delivery) - (red arrow) and with letter “R”- Ritorno (return) (yellow arrow). Tighten the nut on the retaining plate (S) to a torque of 5 / 6 Nm – With an indelible yellow marker or paint, certify the torque of the nut has been completed - (Fig. 22).



- 2.23 Carefully, **replace** the O-Ring seals on delivery pipe (M) and fuel return pipe (N) – LH side (Fig. 23), with new O-Ring seals (E) Part. no. 127816 (Fig. 1); then lightly lubricate the new seals.

**NOTE: Check the integrity of the O-Ring seals after installing to ensure they are not damaged.**

- 2.24 Carefully, insert delivery pipe (M) and fuel return pipe (N), into the holes located on the RH side of new divider block (A), marked with letter “M”- Mandata (delivery) - (red arrow) and with letter “R”- Ritorno (return) (yellow arrow). Then tighten the nut of the pipe retaining plate (L), to a torque of 5 / 6 Nm -

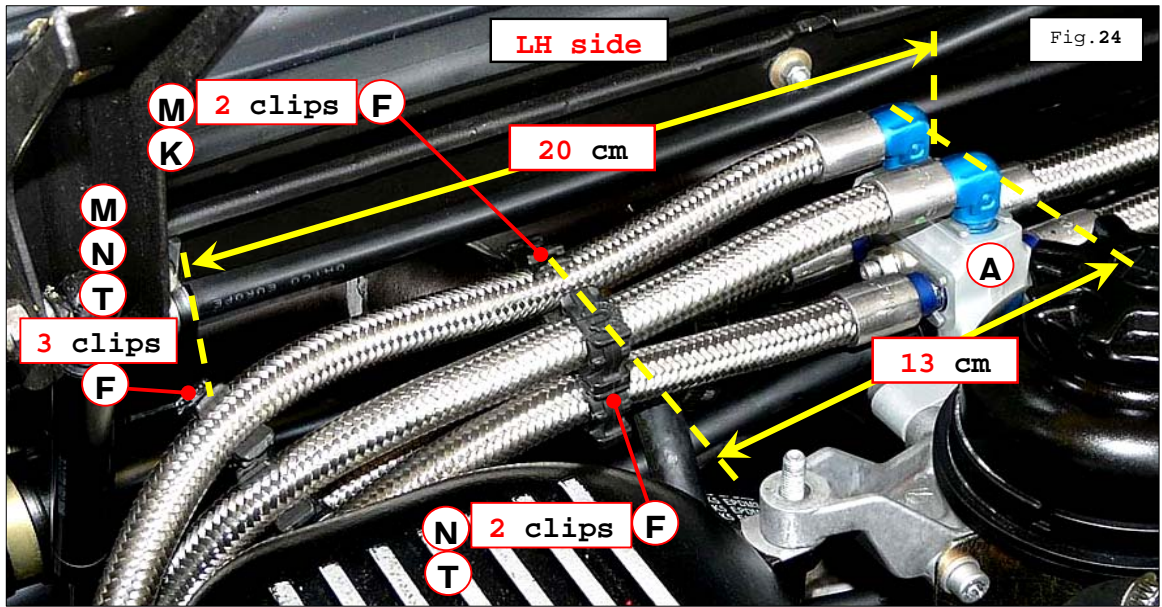


**With an indelible yellow marker or paint, certify the torque of the nut has been completed - (Fig. 23).**

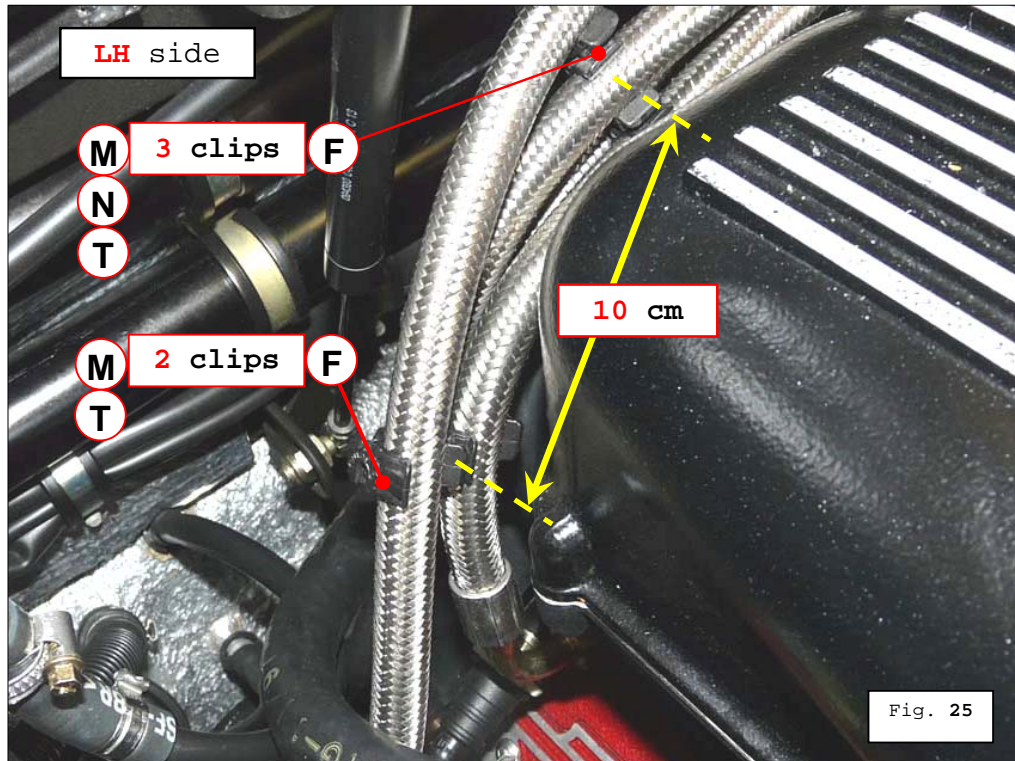
- 2.25 Join together the clips (F) - Part. no. 140727, to form four parts of 2 clips each, and one part with 3 clips, as seen in Fig. 1 – page 2.
- 2.26 Using a part consisting of 2 clips (F), hook the two fuel delivery pipes (M) and (K), at a distance of around 13 cm from the center of the new divider block (A) - LH side (Fig. 24).
- 2.27 Using a part consisting of 2 clips (F), hook the two fuel return pipes (N) and (T), at a distance of around 13 cm from the center of the new divider block (A) - LH side (Fig. 24).



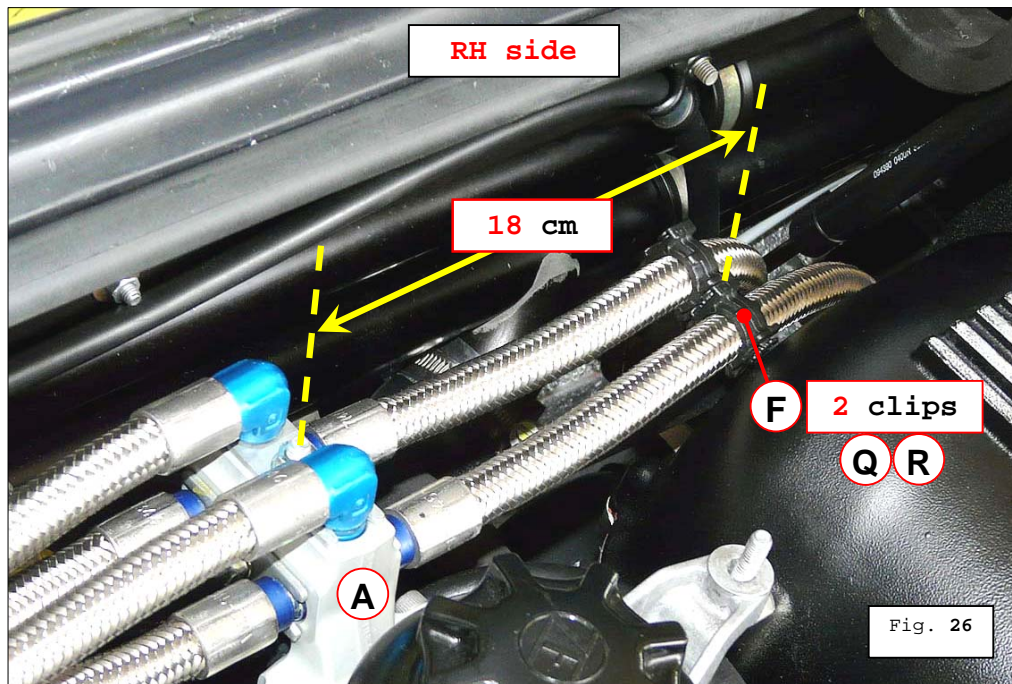
- 2.28 Using the part consisting of **3 clips (F)**, hook the **delivery pipe (M)** and the two **fuel return pipes (N)** and **(T)**, at a distance of around **20 cm** from the center of the **new divider block (A)** - LH side (Fig. 24).



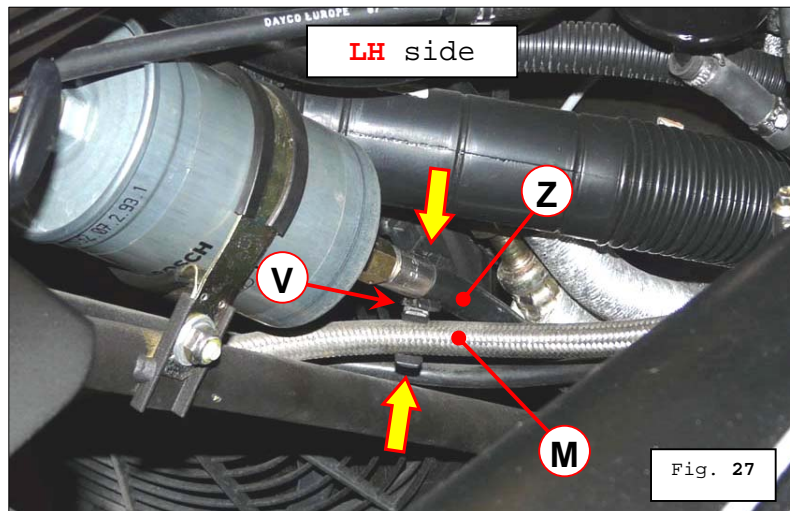
- 2.29 Using a part consisting of **2 clips (F)**, hook the **fuel delivery pipe (M)** and the **fuel return pipe (T)**, at a distance of around **10 cm** from the part formed by **3 clips (F)**, which was previously installed - LH side (Fig. 25).



- 2.30 Using the last part consisting of **2 clips (F)**, hook the **fuel delivery pipe (Q)** and the **fuel return pipe (R)**, at a distance of around **18 cm** from the center of the **new divider block (A)** - RH side (Fig. 26).



- 2.31 Ensure the correct installation of **clip (V)** Part. no. 166677 retaining **pipe (Z)** from pump to fuel filter, and **fuel delivery pipe (M)** from fuel filter to divider block - LH side; **if need be, install it correctly** as shown in Fig. 27.

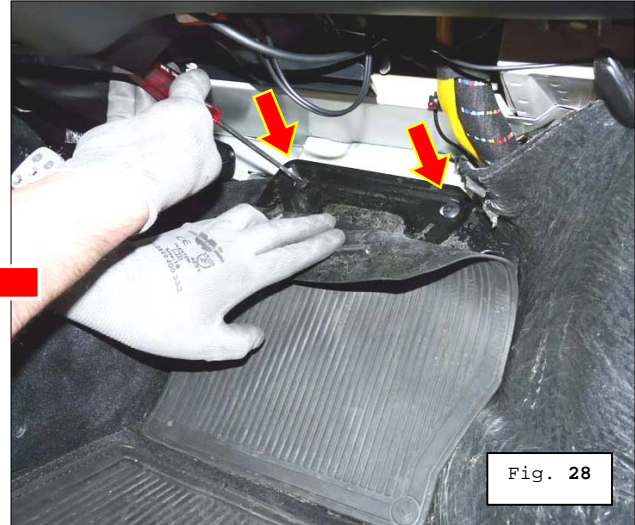
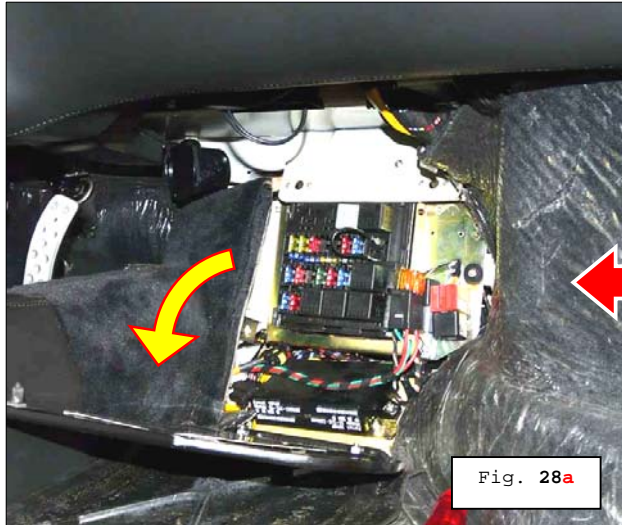


**NOTE:** Clips (F) and (V) – (referred to from point 2.26 to point 2.31) - must be installed to ensure that there is **NO** interference between the fuel delivery and return pipes. Therefore, ensure they are installed correctly as shown in Figs. 19, 20, and 21.

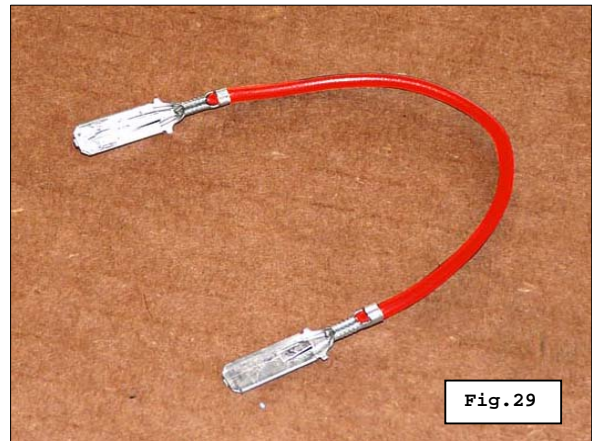
- 2.32 Check the tightening and certification marks on the nuts of plates (L), (P) and (S), secure the pipes to the new divider block (A) - as referred to from point 2.20 to point 2.24;



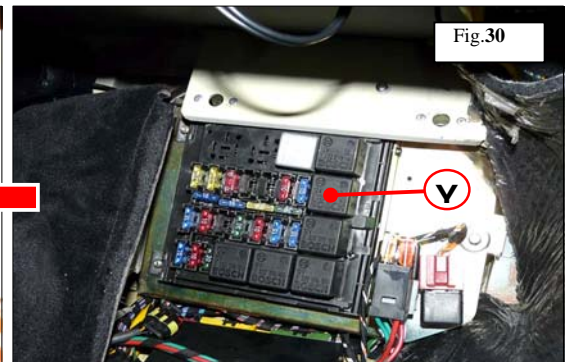
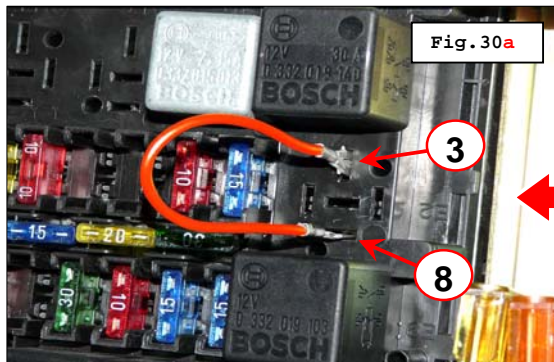
- 2.33 Ensure there are no traces of fuel in the divider block area; If necessary, dry further using compressed air.
- 2.34 Bring the **passenger seat** to the “fully back” position.
- 2.35 Remove the **upper side of the rubber footrest**, then unscrew the 2 fastening screws (red arrows), of the **passenger footrest mat** - (Fig. 28).  
Fold over the **passenger footrest mat** and access the **passenger compartment ECU** (Fig. 28a).



- 2.36 Use a **jumper wire** similar to the one shown in Fig. 29, (obtained or made locally) to jump the fuel pump relay.



- 2.37 Remove the **fuel pump relay (Y, Fig. 30)**; Insert the **jumper wire** into pins **30** and **87** of the relay board creating a “bridge” - (Fig. 30a).



- 2.38 Turn the battery master switch to the “ON” position - The fuel pump will start operating and bring the pressure of the fuel supply system to around 3.5 / 4 bar.
- 2.39 Check that there are no fuel leaks from the pipes or the connections on the new divider block in the engine compartment; then turn the battery master switch to the “OFF” position.
- 2.40 Remove the relay bridge and reinstall the fuel pump relay. Reinstall the ECU cover and rubber foot rest cover.
- 2.41 Reinstall the front shield. (see point 2.3)
- 2.42 Reinstall the engine compartment lid (see point 2.2).
- 2.43 Turn the battery master switch to the “ON” position then start the engine. Ensure correct functioning by carrying out the “Battery master switch off procedure” (as described in paragraph L14 of the Repair Manual).

**Warranty Information:**

- 3.1 The parts necessary for this Recall must be ordered directly from the Parts Dept.
- 3.2 Components to order for each car:
  - Kit fuel divider block – F355 - Part no. **70001495**
- 3.3 The **replaced** divider blocks must be returned.
- 3.4 Any fuel divider blocks (**Part. no. 165192** and **178937**) other than those in this recall kit will need to be returned to the FNA Parts Department following the standard “Anomaly Reporting Procedure” for which the Parts Department is responsible.
- 3.5 **The list of vehicles involved in this recall are listed in ModisCS. Enter ModisCS click on the function "Recall and Service Campaign Management", and then enter the campaign number 48.**

**4 Warranty Information:**

› Campaign number .....	<b>48</b>
› Cost code .....	<b>24</b>
› Component code .....	<b>140043</b>
› Problem code .....	<b>01</b>
› Labor operation .....	<b>29.0.90.159.0</b>
› Time allowance .....	<b>1.5 hours</b>