

# RENAULT

## Technical Note 5007A

---

**X40 - X74, and DOCUMENT PHASE 2 - X77, and  
J77 - X90 - X84, and J84 - X84, and B84 - X76,  
and RENAULT - XTP - X56 - X54 - X48 - X64 - X57**

---

### Fuel tank gauge assembly

**RENAULT 5: X40X - EXPRESS: F40X**

**KANGOO Phase II: XCXX**

**CLIO I: X57X**

**RENAULT 21: X48X**

**MODUS: XPXX**

**LOGAN: LSXX**

**MEGANE I: XAXX - MEGANE II: XMXX**

**SCENIC I: JAXX - SCENIC II: JMXX**

**LAGUNA I: X56X - LAGUNA II Phase II: XGXX**

**SAFRANE: X54X**

**TRAFIC I: XTP**

---

77 11 343 442

AUGUST 2005

Edition Anglaise

---

"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

All copyrights reserved by Renault.

The reproduction or translation in part of whole of the present document, as well as the use of the spare parts reference numbering system, are prohibited without the prior written consent of Renault.

## **Sub-section concerned: 19C**

### **Procedure for removal of fuel tank gauge assembly.**

# Fuel tank gauge assembly

## Contents

Page

<b>19C</b>	<b>RESERVOIR</b>
------------	------------------

Sender unit: Removal - Refitting	19C-1
----------------------------------	-------

Pump-sender unit-filter: Removal - Refitting	19C-18
--	--------

## Sender unit: Removal - Refitting

X84, and J84, and F9Q or K9K or M9R

## Special tooling required

Mot. 1397

Universal spanner for  
removing fuel gauge  
nut

Tightening torques 

battery cover mounting  
bolts

4 Nm

## IMPORTANT

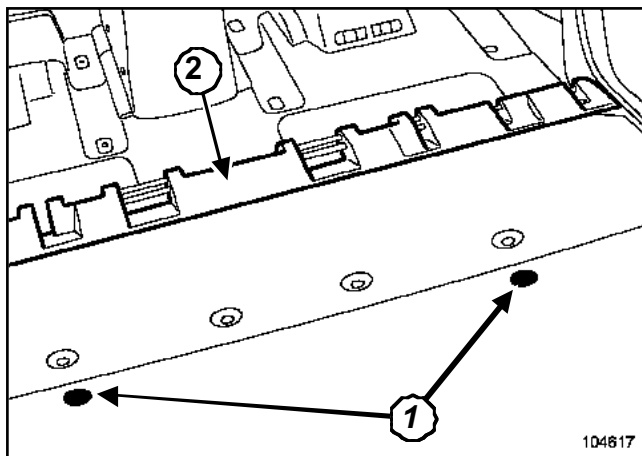
During this operation:

- refrain from smoking or bringing red hot objects close to the working area,
- beware of fuel splashes when disconnecting the unions,
- protect sensitive areas from fuel outflow.

## REMOVAL

Disconnect the battery, starting with the negative terminal.

Remove the rear seats (see **MR 371 Bodywork, 76A, Rear seat runners and frames, Second row complete rear seat**).

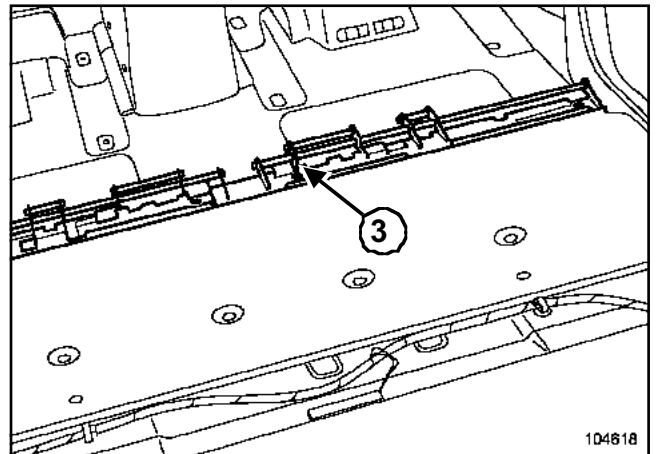


104617

104617

Remove:

- the clips (1),
- trim (2).

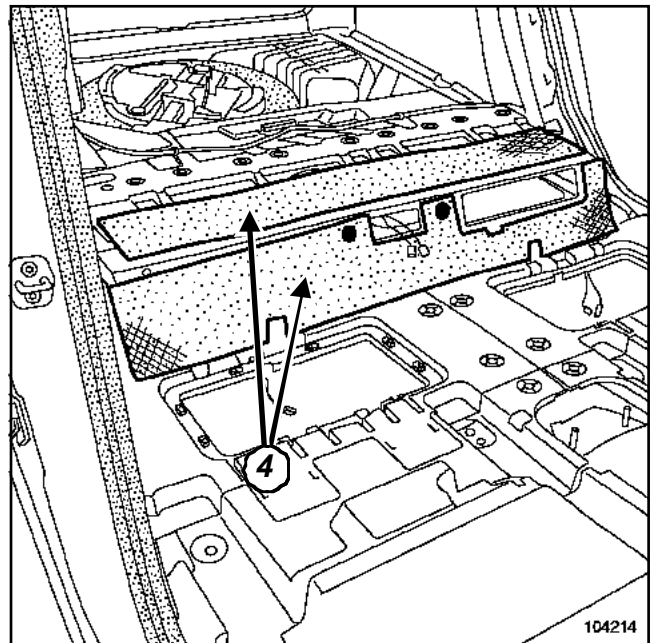


104618

104618

Remove the seat mountings (3).

Move the carpet to one side.



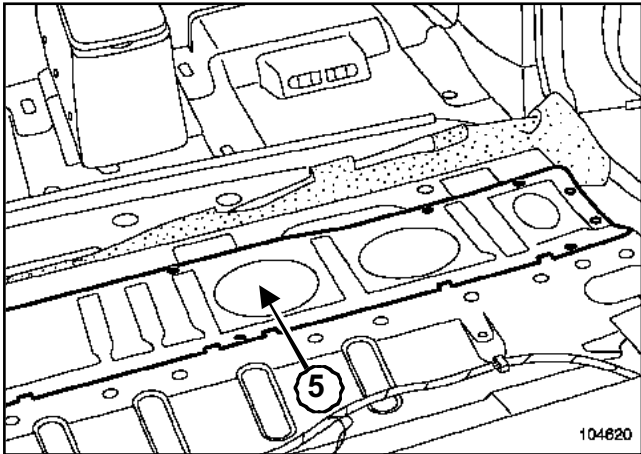
104214

104214

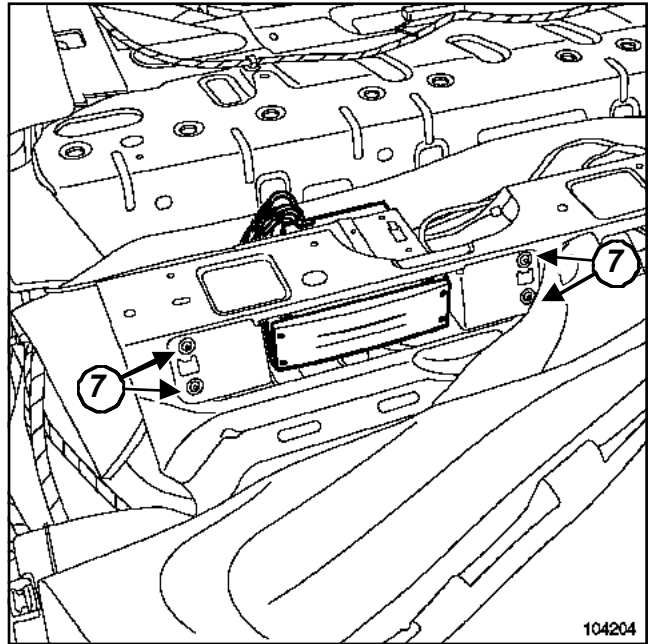
Remove the soundproofing pads (4).

## Sender unit: Removal - Refitting

X84, and J84, and F9Q or K9K or M9R

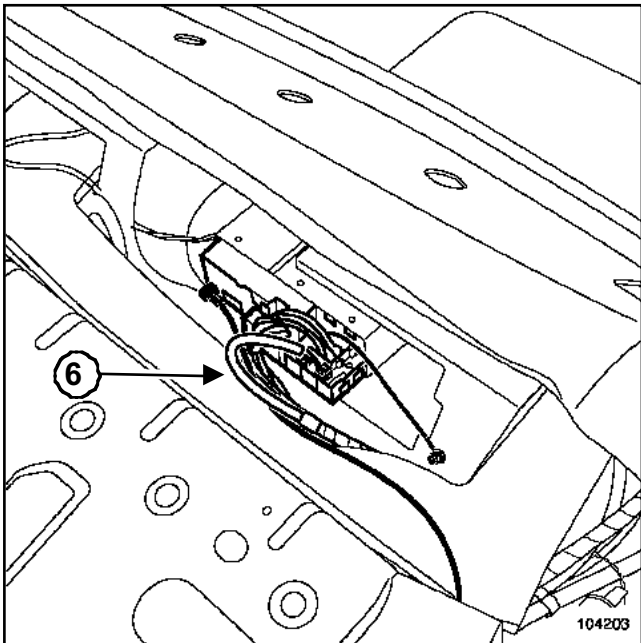


Remove the panel (5).

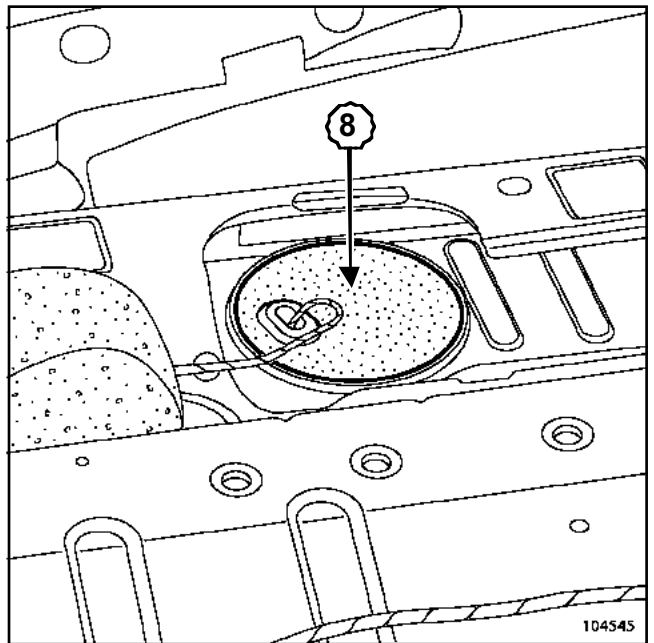


Remove:

- the receiver unit (7) mounting bolts,
- the receiver unit assembly.



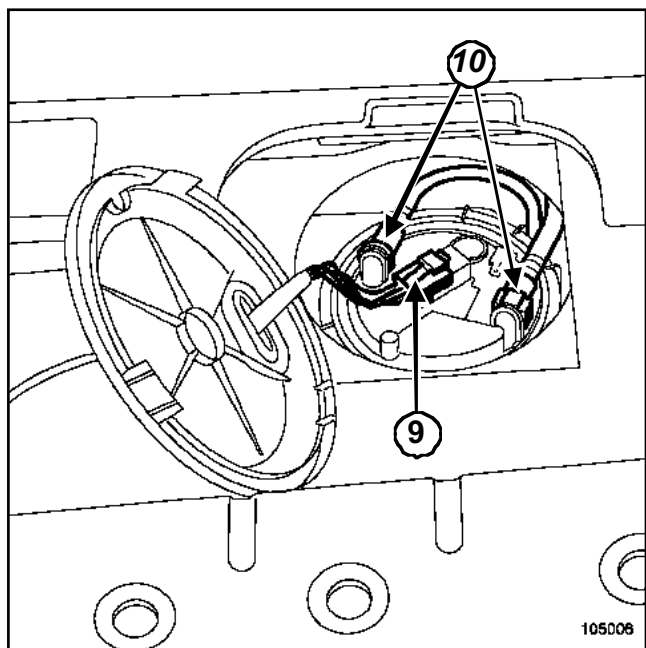
Disconnect the receiver (6) (if fitted to the vehicle).



Remove the inspection flap blanking cover (8).

## Sender unit: Removal - Refitting

X84, and J84, and F9Q or K9K or M9R



105006

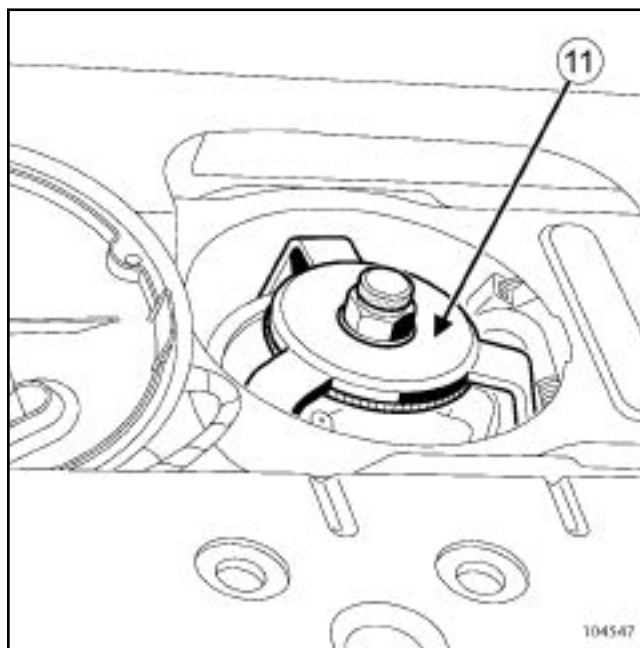
105006

Disconnect:

- the electrical connector (9),
- the quick-release unions (10).

Prepare for fuel outflow.

Fit the correct blanking plugs into the unions (see **MR 370 Mechanical systems, 13B, Diesel injection: Cleanliness guidelines**).



104547

104547

Remove the nut from the sender using tool **(Mot. 1397)(11)**.

Remove the sender unit, being careful with the float.

**WARNING**

Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

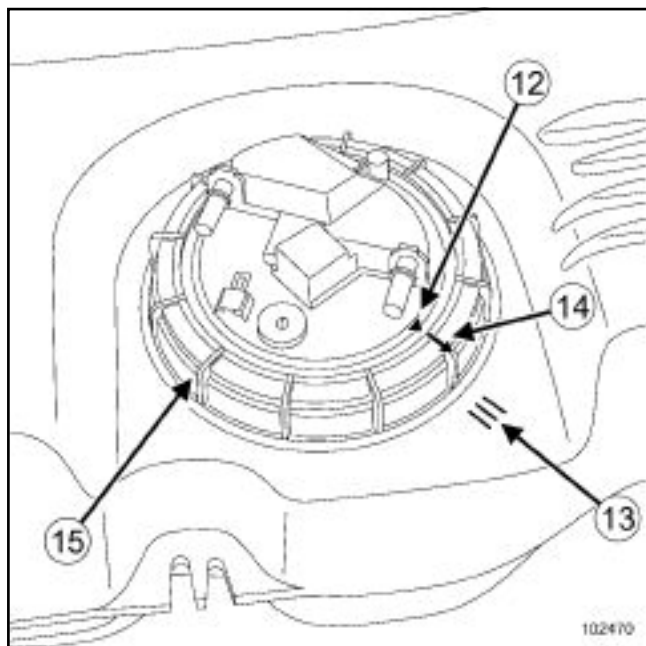
# RESERVOIR

## Sender unit: Removal - Refitting

# 19C

X84, and J84, and F9Q or K9K or M9R

### REFITTING



102470

Replace the O-ring seal.

Refit the sender unit by aligning mark (12) on the sender with mark (13) on the tank.

Position the nut (15).

Tighten the nut (15) until mark (14) on the nut is aligned with mark (13) on the tank and mark (12) on the sender.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 370 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Sender unit: Removal - Refitting

X77, and K9K

## Special tooling required

<b>Mot. 1397</b>	Universal spanner for removing fuel gauge nut
------------------	---

Tightening torques 

battery cover mounting bolts	<b>4 Nm</b>
------------------------------	-------------

## REMOVAL

Position the vehicle on a two-post lift (see **MR 385 Mechanical systems, 02A, Two-post lift: Safety**).

Drain the fuel tank (see **MR 385 Mechanical systems, 19C, Fuel tank: Draining**).

Remove the battery covers.

Disconnect the battery, starting with the negative terminal.

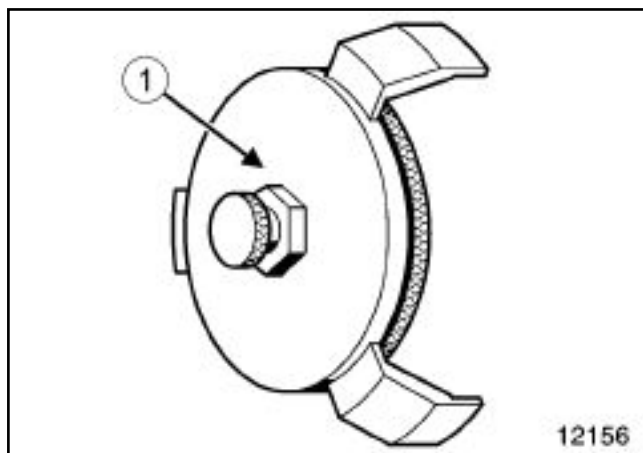
Disconnect:

- the connectors,
- the fuel supply pipe.

Prepare for fuel outflow.

Fit the correct blanking plugs into the union (see **MR 385 Mechanical systems, 13B, Diesel injection: Repair precautions**).

Remove the fuel tank (see **MR 385 Mechanical systems, 19C, Fuel tank: Removal - Refitting**).



12156

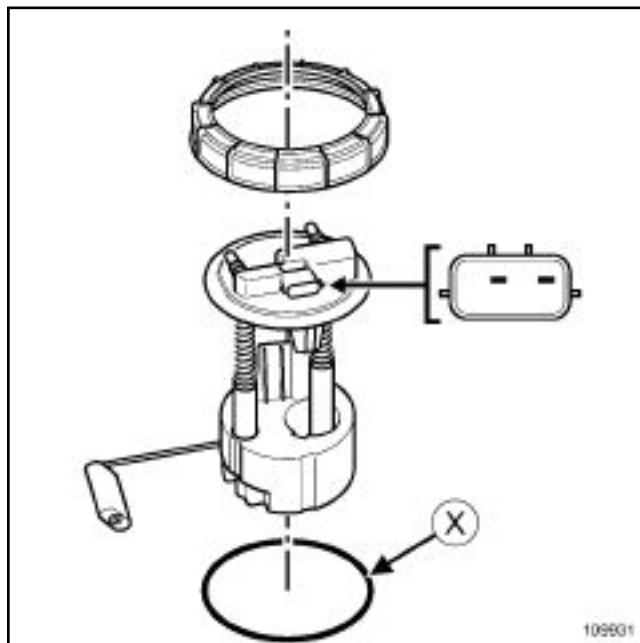
Remove the nut from the sender using tool (**Mot. 1397**)(1).

Remove the sender unit, being careful with the float.

**WARNING**

Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

## REFITTING



109931

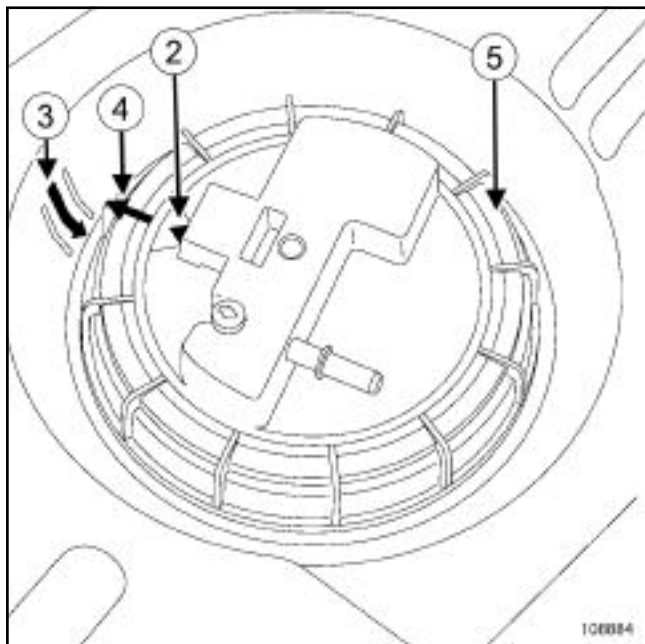
Replace the O-ring seal (X).

# RESERVOIR

## Sender unit: Removal - Refitting

# 19C

X77, and K9K



108884

Refit the sender unit by aligning mark (2) on the sender with mark (3) on the tank.

Position nut (5).

Tighten the nut (5) until mark (4) on the nut is aligned with mark (3) on the tank and mark (2) on the sender.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 385 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Sender unit: Removal - Refitting

X84, and B84 or C84 or G84 or S84, and F9Q or K9K or M9R

## Special tooling required

<b>Mot. 1397</b>	Universal spanner for removing fuel gauge nut
------------------	---

Tightening torques 

battery cover mounting bolts	<b>4 Nm</b>
------------------------------	-------------

**IMPORTANT**

During this operation:

- refrain from smoking or bringing red hot objects close to the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

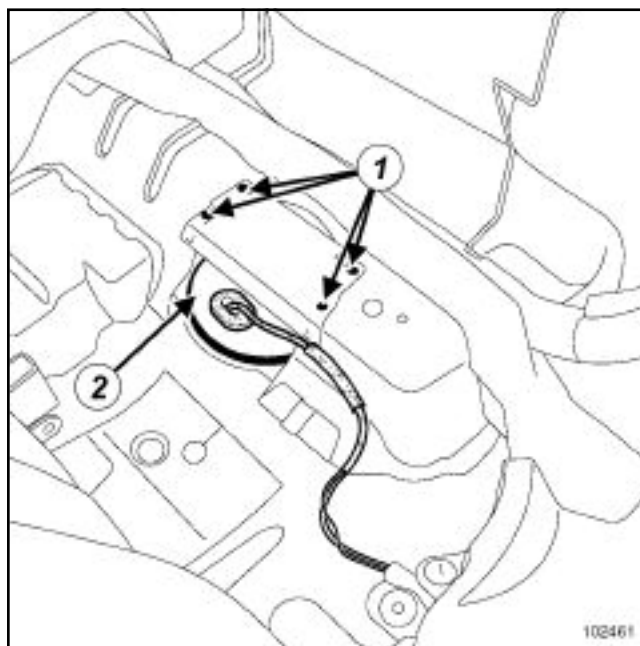
**REMOVAL**

Disconnect the battery, starting with the negative terminal.

Lift up the rear bench seat base (see **MR 365 Bodywork, 76A, Rear seat runners and frames, Complete seat base**).

Remove the carpet retaining clip.

Move the carpet to one side.



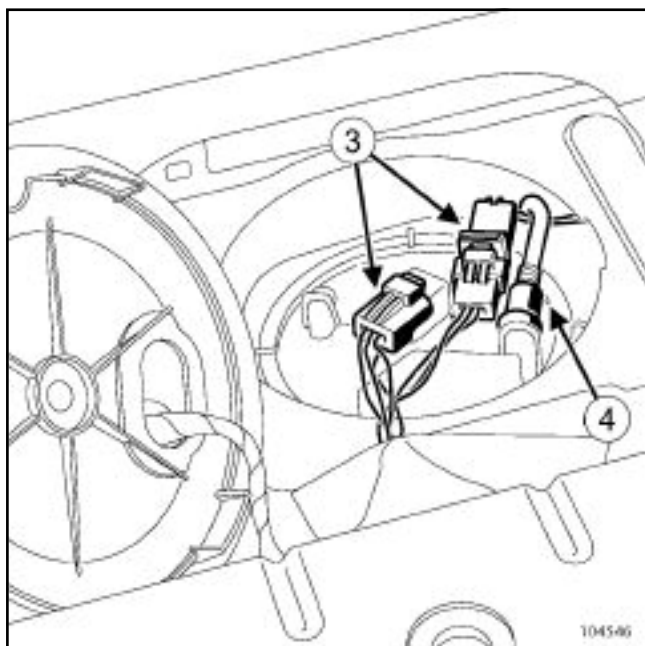
102461

Remove:

- the closure panel mounting bolts (1),
- the closure panel,
- the blanking cover (2) on the inspection flap.

## Sender unit: Removal - Refitting

X84, and B84 or C84 or G84 or S84, and F9Q or K9K or M9R



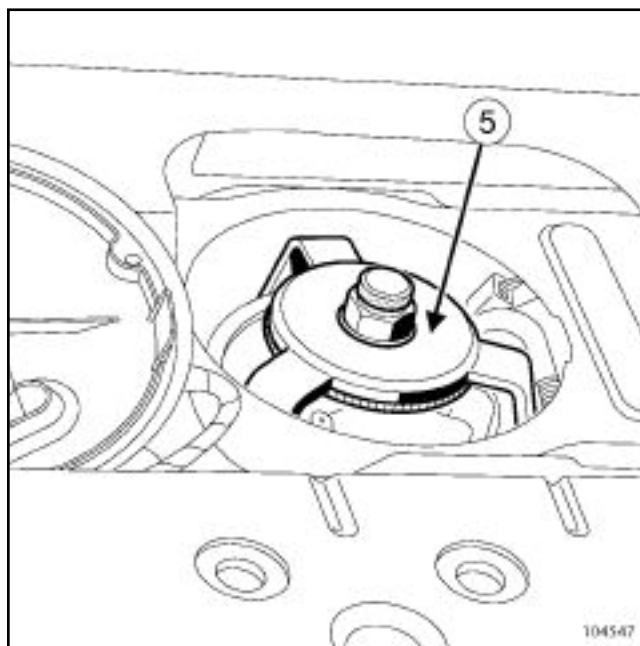
104546

Disconnect:

- electrical connectors (3),
- quick-release union(s) (4).

Prepare for fuel outflow.

Fit the correct blanking plugs into the unions (see **MR 364 Mégane, 13B, Injection: Cleanliness guidelines**).



104547

Remove the nut from the sender using tool (**Mot. 1397**)(5).

Remove the sender unit, being careful with the float.

**WARNING**

Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

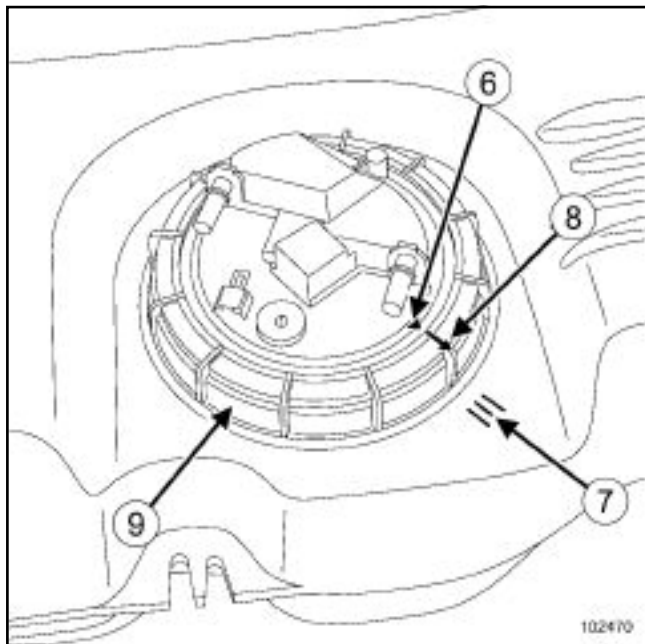
# RESERVOIR

## Sender unit: Removal - Refitting

# 19C

X84, and B84 or C84 or G84 or S84, and F9Q or K9K or M9R

### REFITTING



102470

Replace the O-ring seal.

Refit the sender unit by aligning mark (6) on the sender with mark (7) on the tank.

Position nut (9).

Tighten the nut (9) until mark (8) on the nut is aligned with mark (7) on the tank and mark (6) on the sender.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 364 Mégane, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Sender unit: Removal - Refitting

X74, and F9Q or G9T or M9R

## Special tooling required

**Mot. 1397**

Universal spanner for  
removing fuel gauge  
nut

Tightening torques 

battery cover mounting  
bolts

**4 Nm****IMPORTANT**

During this operation:

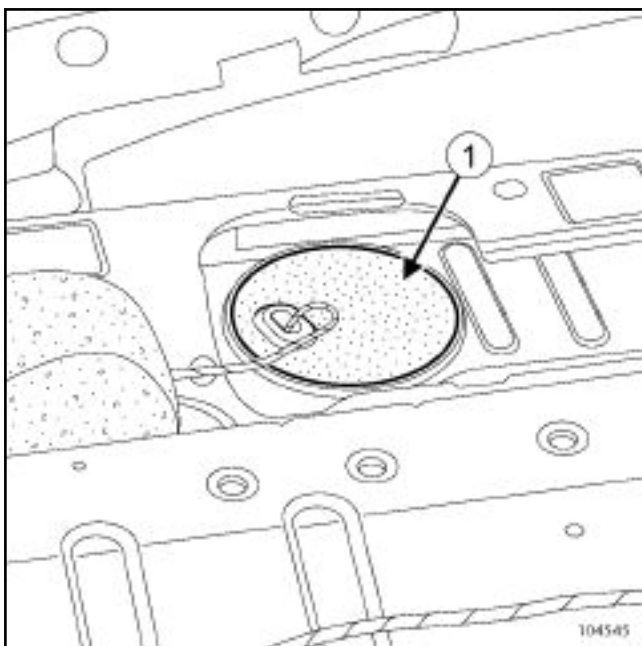
- refrain from smoking or bringing red hot objects near the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

**REMOVAL**

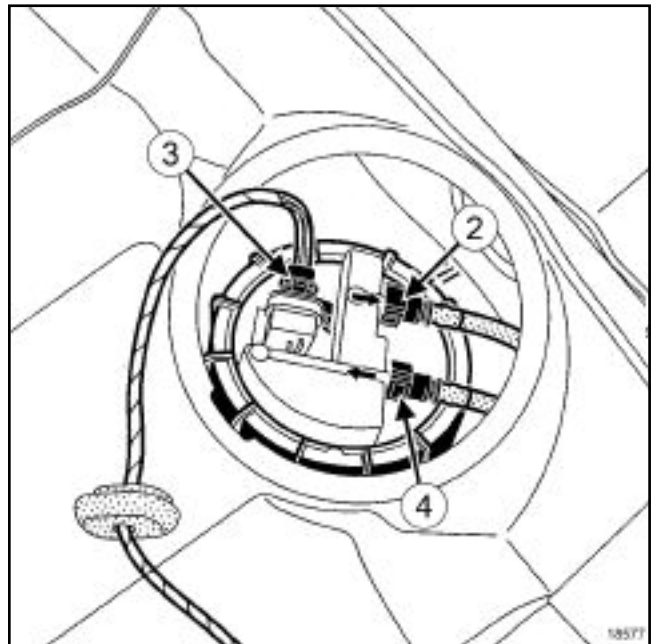
Disconnect the battery, starting with the negative terminal.

Lift up:

- the rear bench seat base,
- the carpet under the rear bench seat.

104545  
104545

Remove the inspection flap cover (1).



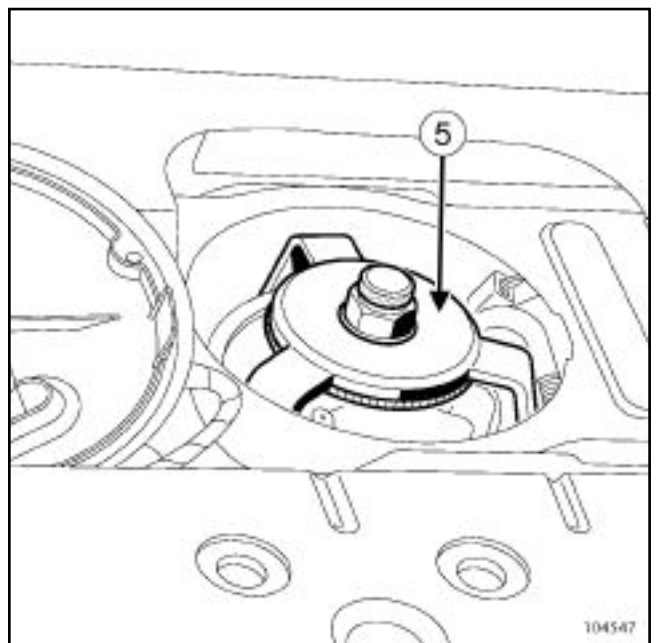
18577

Disconnect:

- the fuel sender connector (3),
- the quick-release union (2) for the fuel supply,
- the quick-release union (4) for the fuel return.

Prepare for fuel outflow.

Fit the correct blanking plugs into the union (see **MR 395 Mechanical systems, 13B, Diesel injection: Repair precautions**).



104547

104547

Remove the mounting nut from the sender unit using tool (**Mot. 1397**)(5)

# RESERVOIR

## Sender unit: Removal - Refitting

# 19C

X74, and F9Q or G9T or M9R

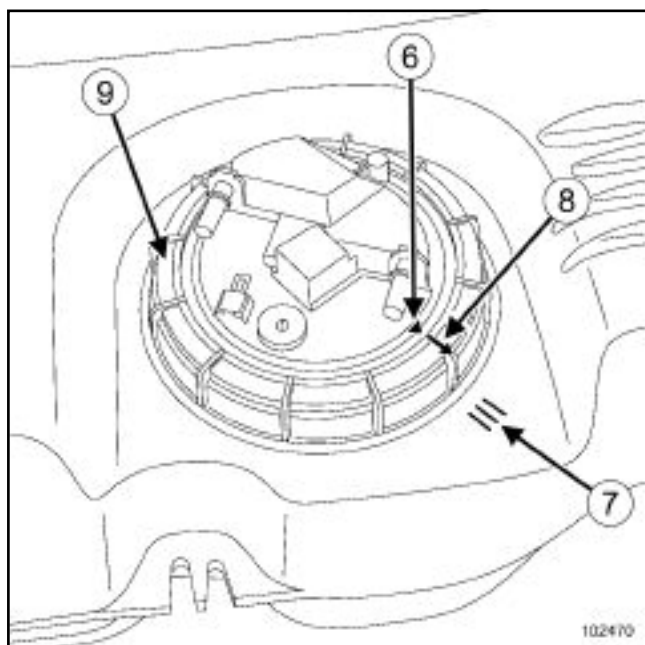
Remove the sender unit, being careful with the float.

### WARNING

Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

### REFITTING

Replace the O-ring seal.



102470

Refit the sender unit by aligning mark (6) on the sender with mark (7) on the tank.

Position nut (9).

Tighten the nut (9) until mark (8) on the nut is aligned with mark (7) on the tank and mark (6) on the sender.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 395 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Sender unit: Removal - Refitting

X40, and F8M or F8Q – X76, and F8Q or F9Q or K9K, and DOCUMENT PHASE 1 – X57, and F8Q – X48, and F8Q or J8S – X64, and F8Q or F9Q – X56, and F9Q or G8T – X54, and G8T or J8S or S8U – XTP, and F8Q or J8S or S8U

### Special tooling required

<b>Mot. 1397</b>	X76	Universal spanner for removing fuel gauge nut
------------------	-----	---

### Tightening torques

battery cover mounting bolts	<b>4 Nm</b>
------------------------------	-------------

### IMPORTANT

During this operation:

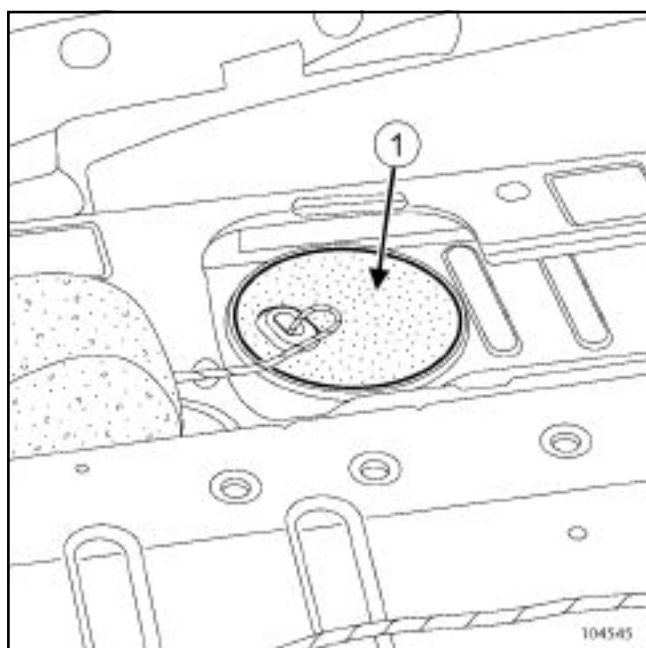
- refrain from smoking or bringing red hot objects near the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

### REMOVAL

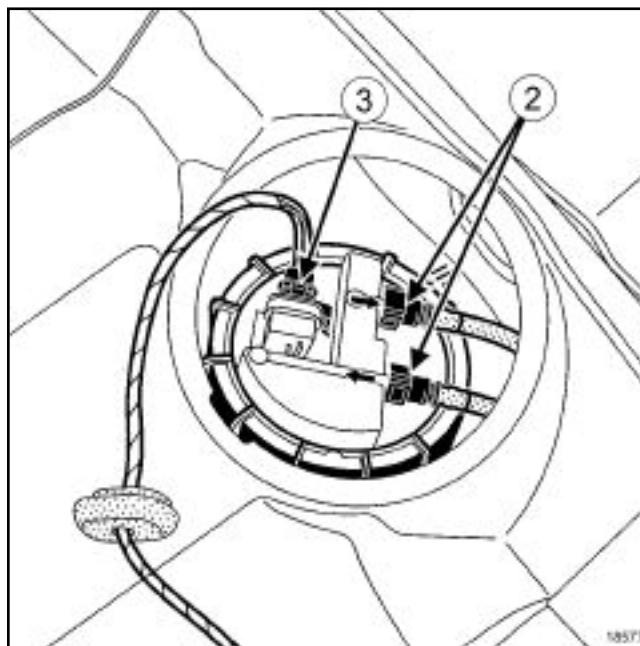
Disconnect the battery, starting with the negative terminal.

Lift up the rear bench seat base.

Move the carpet to one side.



Remove the inspection flap cover (1).

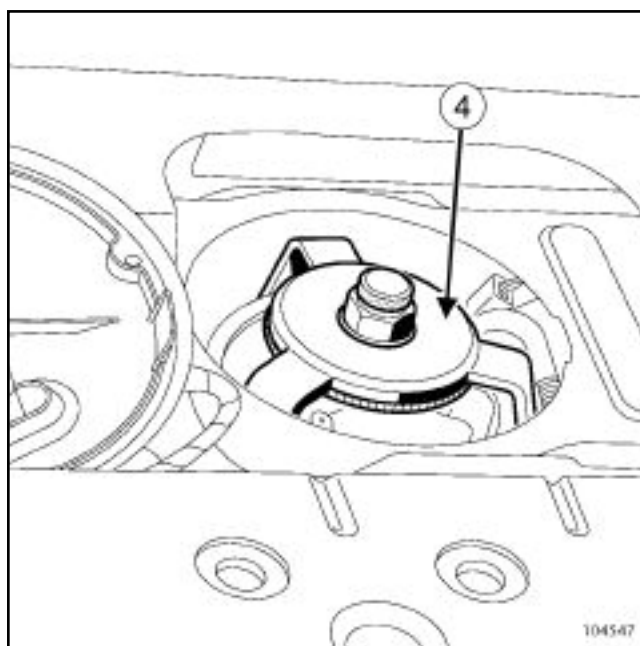


Disconnect:

- the electrical connector (3),
- quick-release union(s) (2).

Prepare for fuel outflow.

Fit the correct blanking plugs into the unions (**Part number: 77 01 206 804**).



Remove the mounting nut from the sender unit using tool (**Mot. 1397**)(4)

## Sender unit: Removal - Refitting

X40, and F8M or F8Q – X76, and F8Q or F9Q or K9K, and DOCUMENT PHASE 1 – X57, and F8Q – X48, and F8Q or J8S – X64, and F8Q or F9Q – X56, and F9Q or G8T – X54, and G8T or J8S or S8U – XTP, and F8Q or J8S or S8U

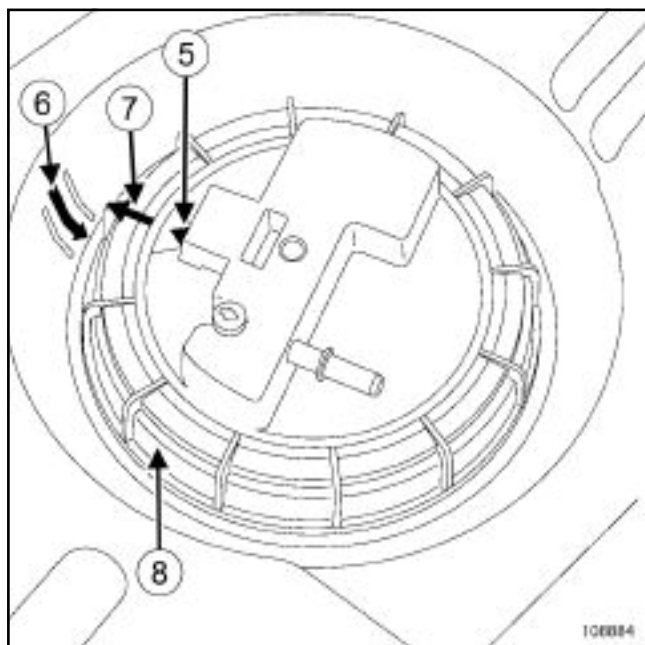
Remove the sender unit, being careful with the float.

**WARNING**

Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

**REFITTING**

Replace the O-ring seal.



108884

Refit the sender by aligning mark (5) on the sender with mark (6) on the tank.

Position the nut (8).

Tighten the nut (8) until mark (7) on the nut is aligned with mark (6) on the tank and mark (5) on the sender.

Proceed in the reverse order to removal.

Connect the battery, starting with the positive terminal (see **MR for the vehicle concerned, 80A, Battery, Special notes**

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

# RESERVOIR

## Sender unit: Removal - Refitting

# 19C

X76, and F8Q or F9Q or K9K, and DOCUMENT PHASE 2

### Special tooling required

**Mot. 1397**

Universal spanner for removing fuel gauge nut

### IMPORTANT

During this operation, it is essential to:

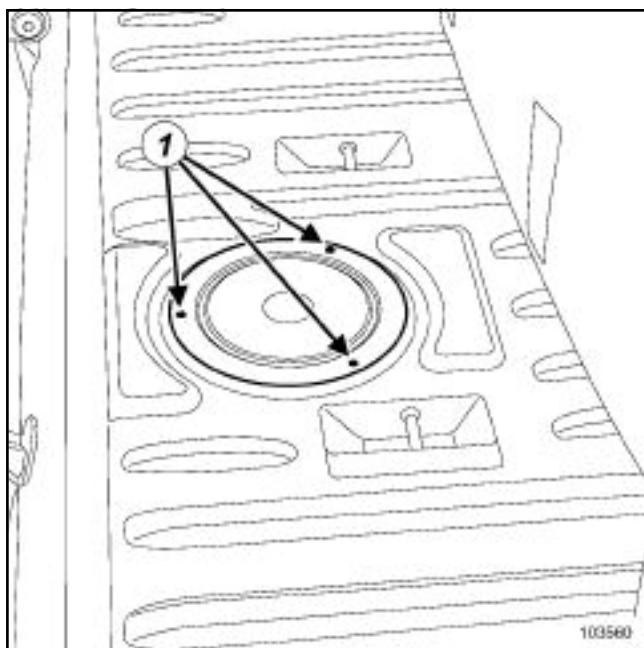
- refrain from smoking or bringing red hot objects close to the working area,
- guard against petrol splashes caused by the residual pressure in the pipes,
- protect sensitive areas from fuel outflow.

### REMOVAL

Disconnect the battery, starting with the negative terminal.

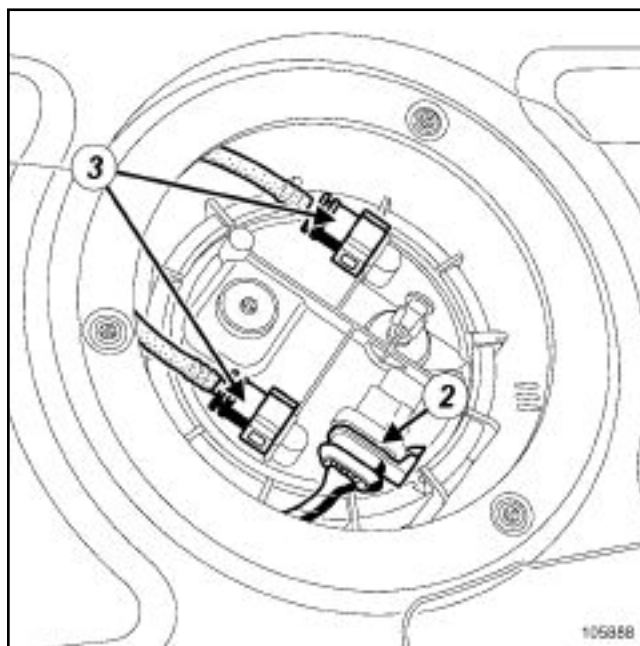
Fold up the rear bench seat into a vertical position.

Move the carpet to one side.



103560

Remove the inspection panel flap mounting bolts (1).



105888

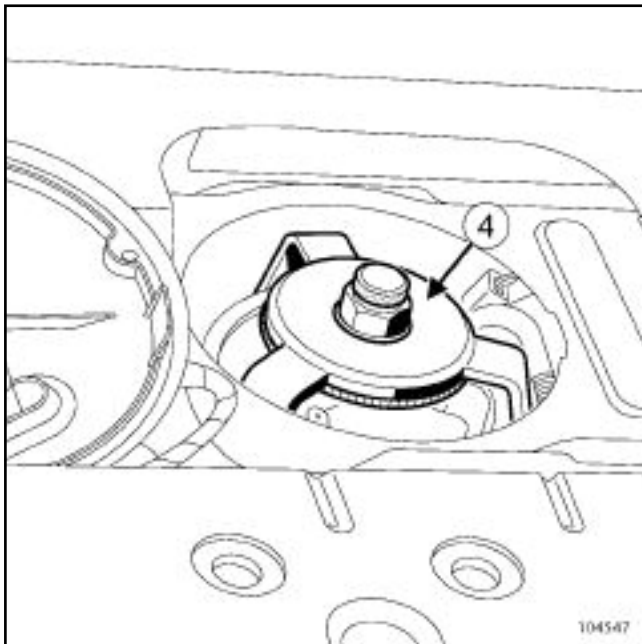
Disconnect the electrical connector (2) and the snap-on union(s) (3) (depending on the version).

Prepare for fuel outflow.

Fit the correct blanking plugs into the unions (see **MR 380 Mechanical systems, 13B, Diesel injection: Precautions during repair**).

## Sender unit: Removal - Refitting

X76, and F8Q or F9Q or K9K, and DOCUMENT PHASE 2



104547

Remove the mounting nut from the sender unit using tool **(Mot. 1397)(4)**

Remove the sender unit, being careful with the float.

**WARNING**

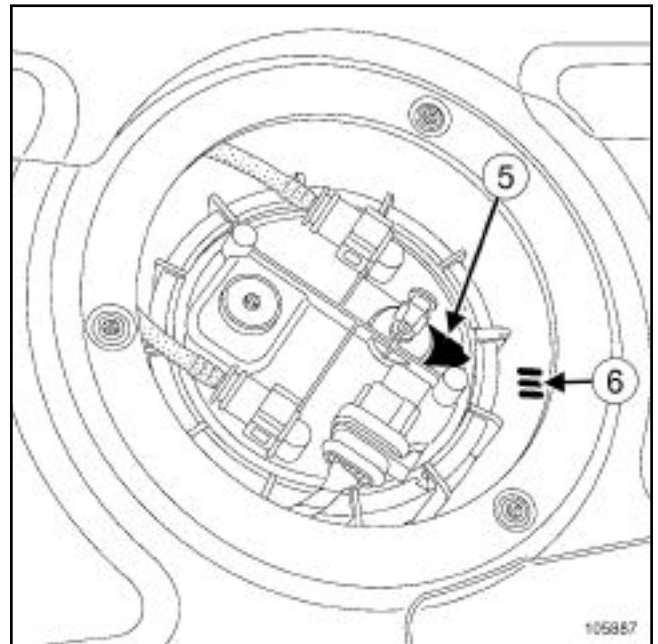
Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

**REFITTING**

Replace the O-ring seal.

Refit the sender following the procedure relevant to the vehicle (see below).

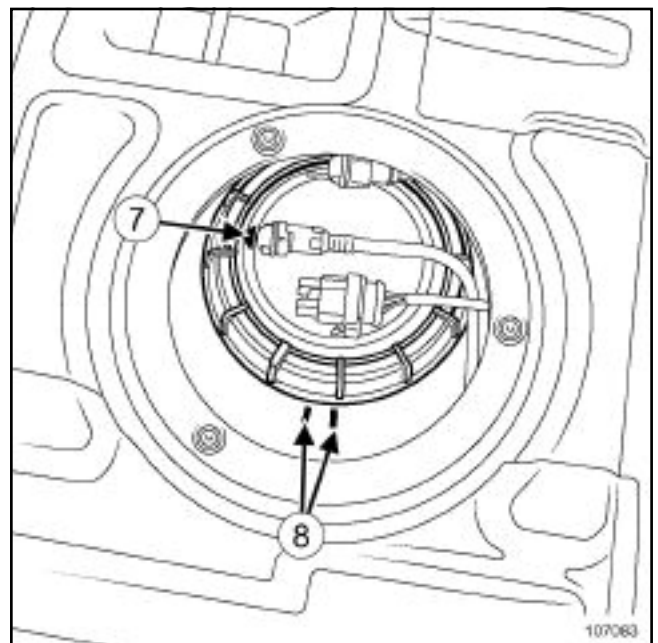
**All types except four-wheel drive version**



105887

Refit the sender unit by aligning mark (5) on the sender with mark (6) on the tank.

**Four-wheel drive version**



107083

Refit the sender, positioning the axis of mark (7) on the sender perpendicular to the two marks (8) on the tank.

**All Types**

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 380 Mechanical systems, 80A, Battery: Removal - Refitting**).

## Sender unit: Removal - Refitting

X90, and L90, and K9K, and 790

## Special tooling required

Mot. 1397

Universal spanner for  
removing fuel gauge  
nut

## REMOVAL

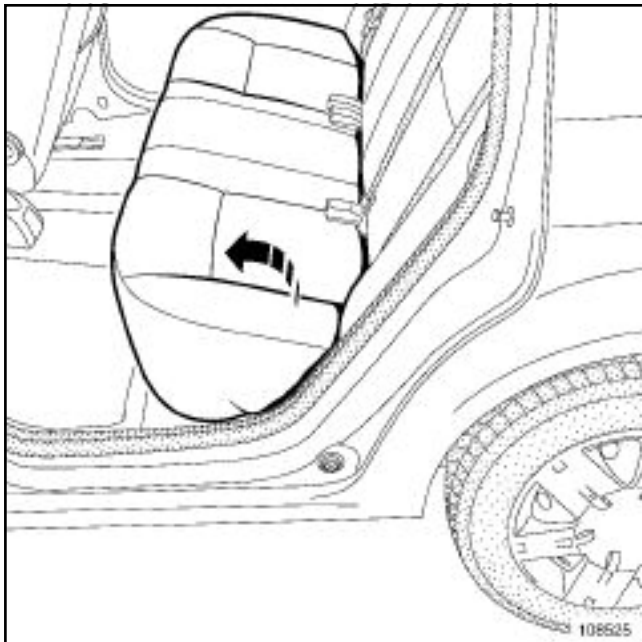
## I - REMOVAL PREPARATION OPERATION

Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**).

## IMPORTANT

During this operation, it is essential to:

- refrain from smoking or bringing red hot objects close to the work area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

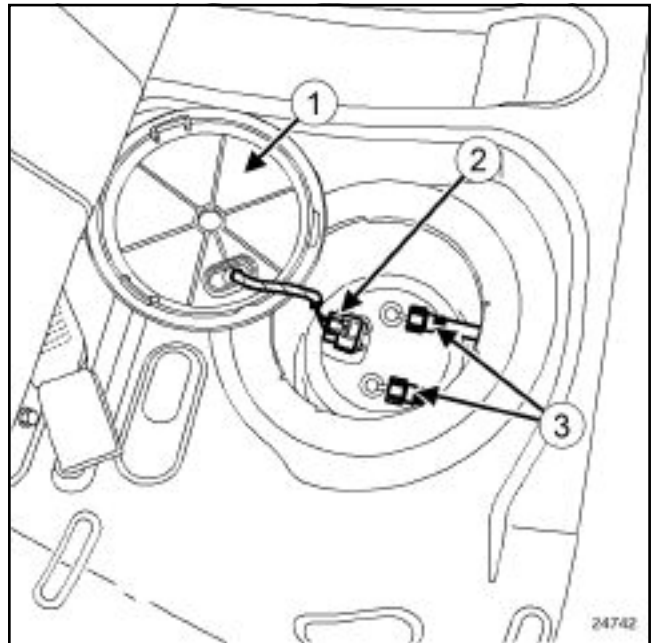


108525

Open the two rear doors.

Lift up the seat base from the rear bench seat (see **Workshop repair Manual 389 Bodywork, 76A, Rear seat frames and runners, Complete seat base**).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



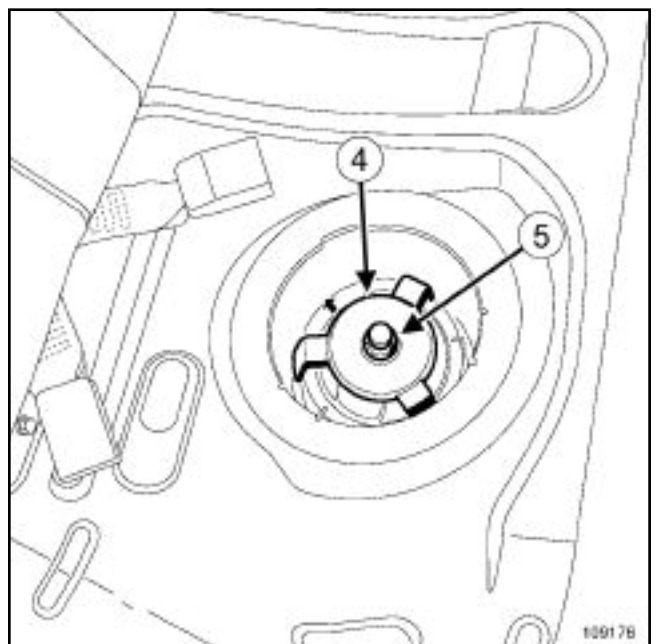
24742

Remove the sender access flap (1).

Disconnect:

- the connector on the sender unit (2).
- the sender unit pipes (3).

Make preparations for the fuel outflow.



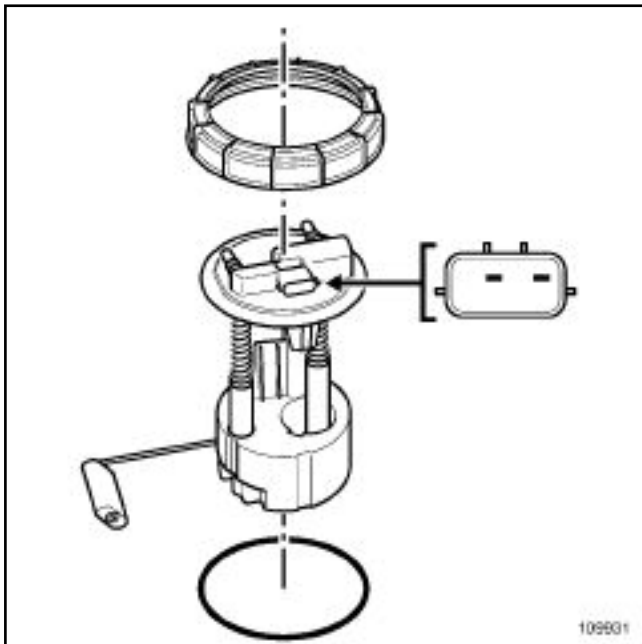
109176

Remove the mounting nut (4) from the sender unit using tool (**Mot. 1397**)(5).

Let the fuel in the sender drain out.

## Sender unit: Removal - Refitting

X90, and L90, and K9K, and 790

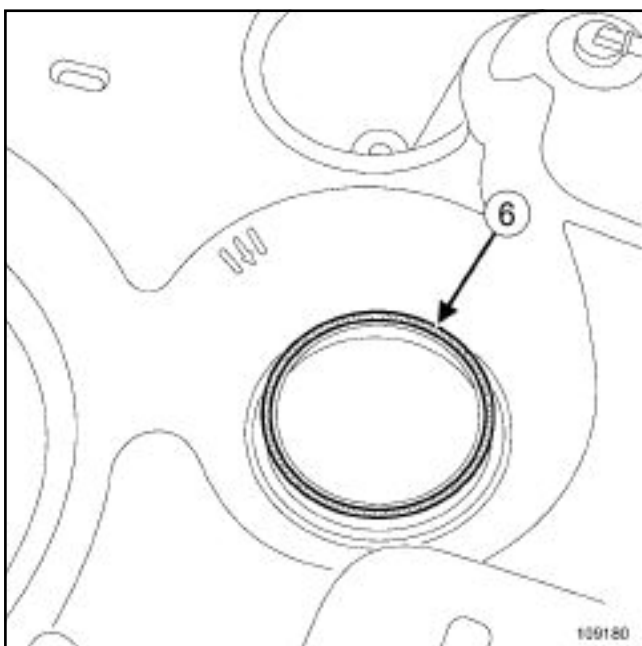


109931

Remove the sender unit, being careful with the float.

**WARNING**

Refit the sender nut as soon as the sender has been removed to prevent any deformation of the fuel tank.

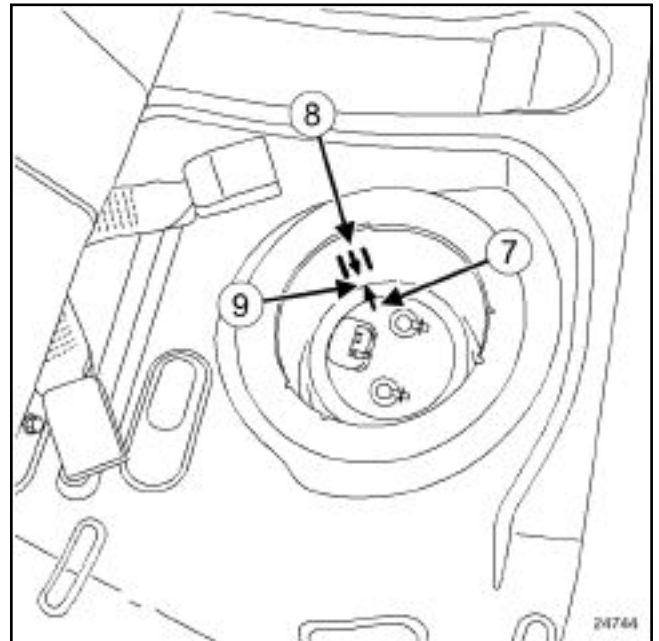
**REFITTING****I - REFITTING PREPARATION OPERATION**

109180

It is essential to replace O-ring seal (6).

**II - REFITTING OPERATION FOR PART CONCERNED****WARNING**

Ensure that the seal is correctly positioned when refitting the sender unit.



24744

Refit:

- the sender unit, aligning it with the mark (7) on the sender and the mark (8) on the tank,
- the sender mounting nut.

Tighten the nut until mark (9) on the nut is aligned with mark (7) on the sender and mark (8) on the tank.

Connect:

- the pipes to the sender unit,
- the sender unit connector.

Refit the sender access flap.

**III - FINAL OPERATION**

Refit the rear bench seat base.

Connect the battery (see **80A, Battery, Battery: Removal - Refitting**).

## Pump-sender unit-filter: Removal - Refitting

X84, and B84 or C84 or G84 or S84, and K4M – X84, and B84 or C84 or G84 or S84, and F4R – X84, and B84 or C84 or G84 or S84, and K4J

## Special tooling required

Mot. 1397

Universal spanner for  
removing fuel gauge  
nut

Tightening torques 

battery cover mounting  
bolts

4 Nm

## IMPORTANT

During this operation:

- refrain from smoking or bringing red hot objects close to the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

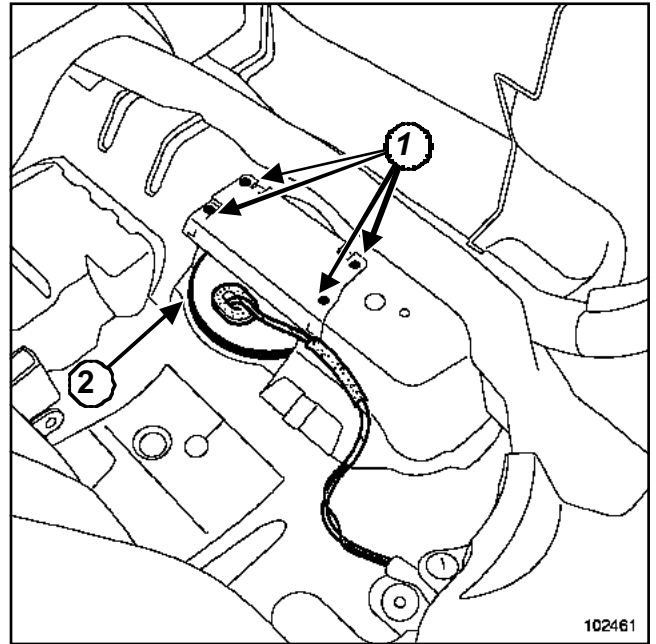
## REMOVAL

Disconnect the battery, starting with the negative terminal.

Lift up the rear bench seat base (see **MR 365 Bodywork, 76A, Rear seat runners and frames, Complete seat base**).

Remove the carpet retaining clip.

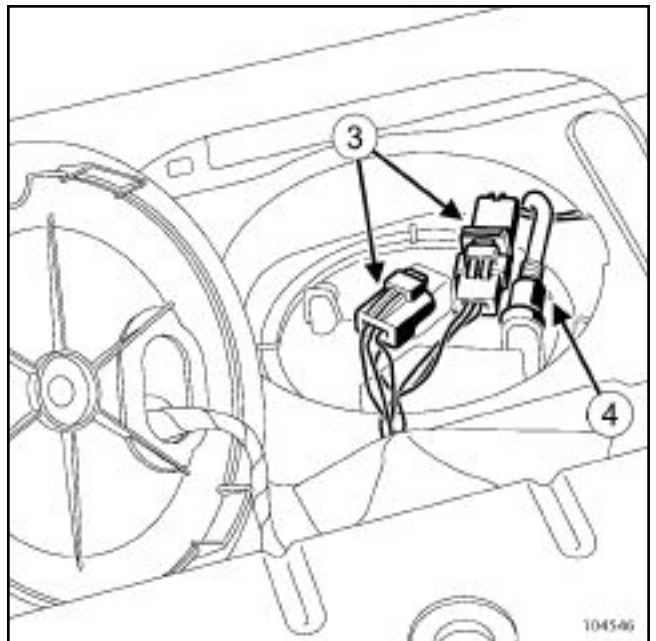
Move the carpet to one side.



102461

Remove:

- the closure panel mounting bolts (1),
- the closure panel,
- the blanking cover (2) on the inspection flap.



104546

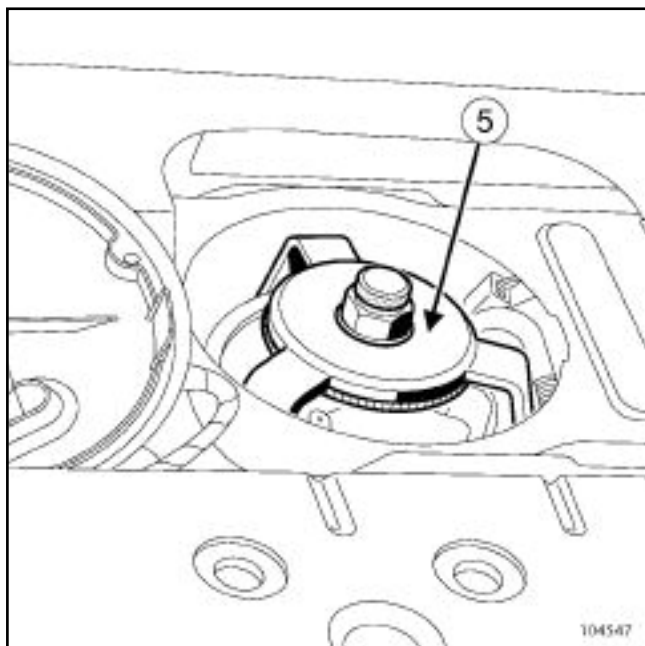
Disconnect:

- electrical connectors (3),
- quick-release union(s) (4).

Prepare for fuel outflow.

## Pump-sender unit-filter: Removal - Refitting

X84, and B84 or C84 or G84 or S84, and K4M – X84, and B84 or C84 or G84 or S84, and F4R – X84, and B84 or C84 or G84 or S84, and K4J



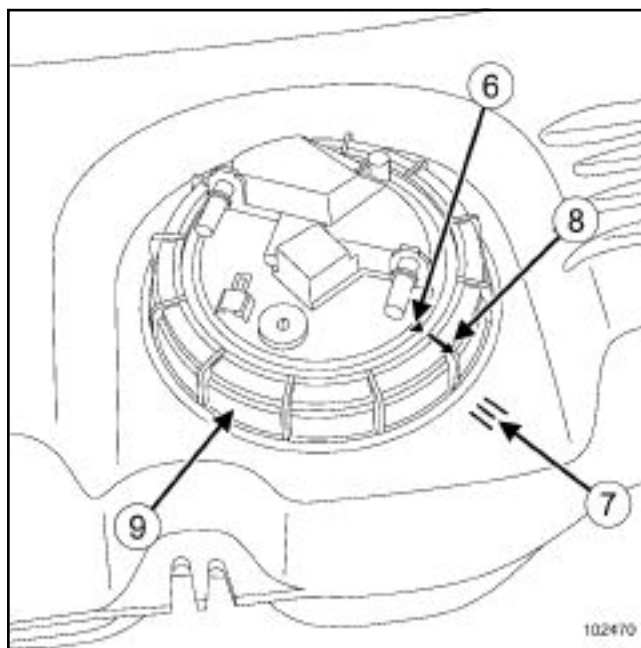
104547

Remove the nut from the pump/sender/filter assembly using tool **(Mot. 1397)(5)**.

Remove the pump/sender/filter assembly, being careful not to damage the float.

**WARNING**

Refit the pump/sender/filter assembly nut as soon as the pump/sender/filter assembly has been removed to prevent any deformation of the fuel tank.

**REFITTING**

102470

Replace the O-ring seal.

Refit the pump/sender/filter assembly, aligning mark **(6)** on the pump/sender/filter assembly with mark **(7)** on the tank.

Position the nut **(9)**.

Tighten the nut **(9)** until the mark **(8)** on the nut is aligned with mark **(7)** on the tank and mark **(6)** on the pump/sender/filter assembly.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 364 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Pump-sender unit-filter: Removal - Refitting

X84, and J84, and F4R or K4J or K4M

## Special tooling required

Mot. 1397

Universal spanner for  
removing fuel gauge  
nut

Tightening torques 

battery cover mounting  
bolts

4 Nm

## IMPORTANT

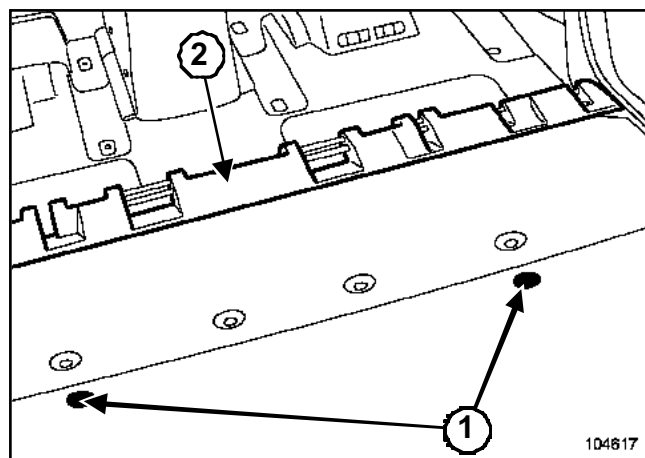
During this operation:

- refrain from smoking or bringing red hot objects close to the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

## REMOVAL

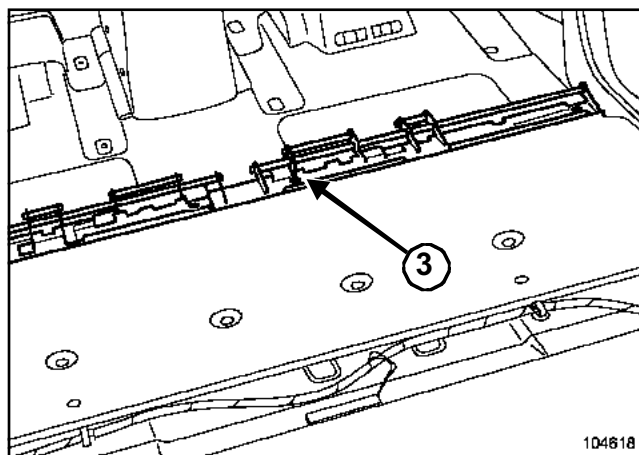
Disconnect the battery, starting with the negative terminal.

Remove the rear seats (see **MR 371 Bodywork, 76A, Rear seat runners and frames, Second row complete rear seat**).



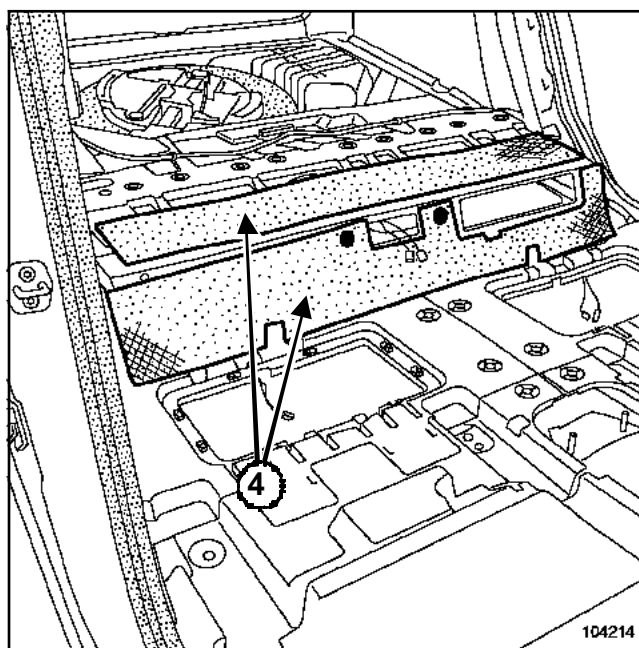
Remove:

- the clips (1),
- the trim (2).



Remove the seat mountings (3).

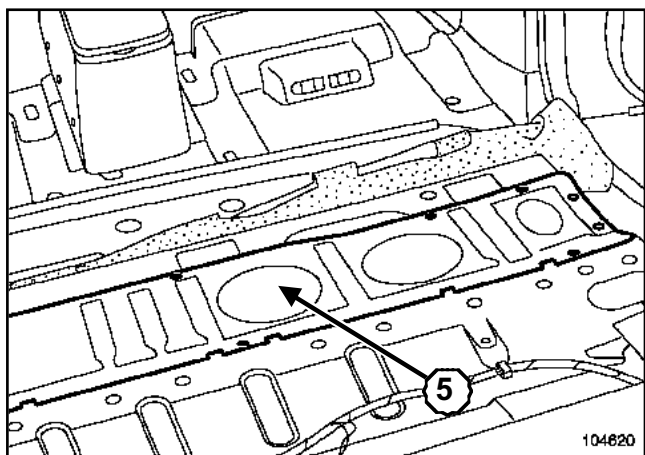
Move the carpet to one side.



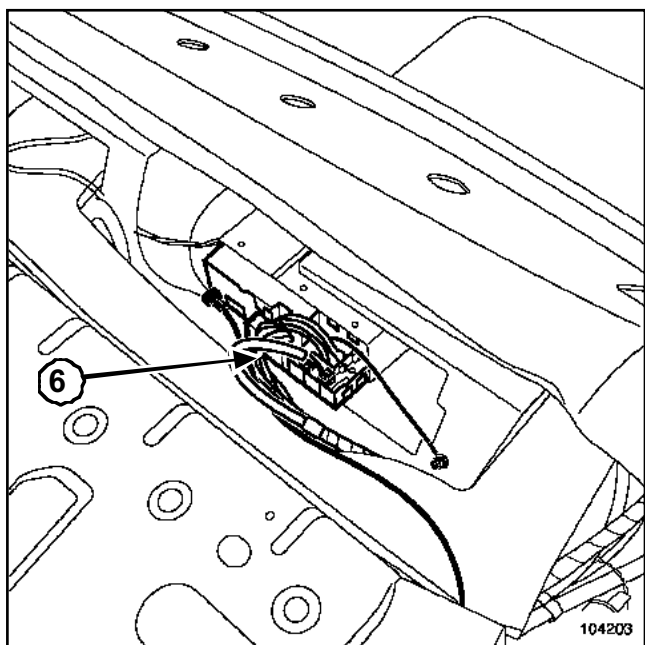
Remove the soundproofing (4).

## Pump-sender unit-filter: Removal - Refitting

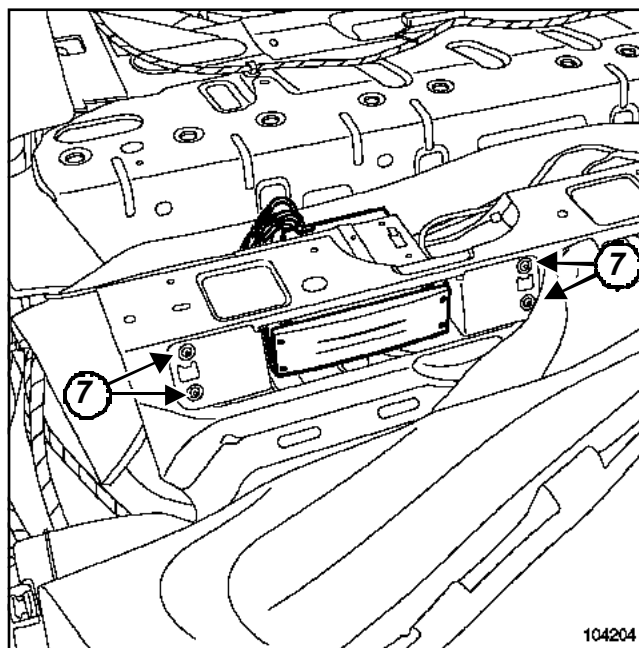
X84, and J84, and F4R or K4J or K4M



Remove the panel (5).

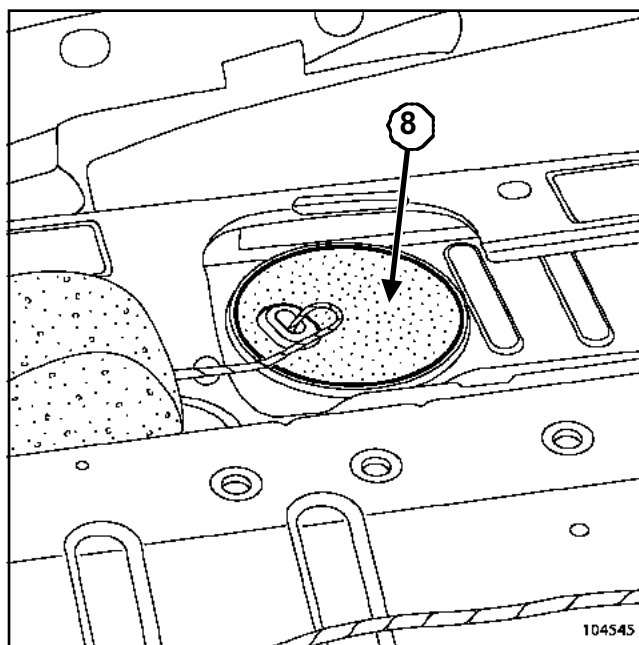


Disconnect the receiver (6) (if fitted to the vehicle).



Remove:

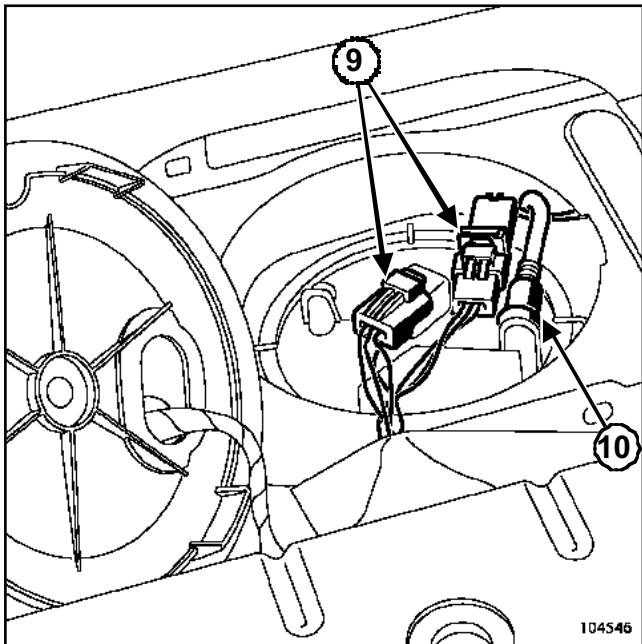
- the mounting bolts (7) from the receiver unit,
- the receiver unit assembly.



Remove the access flap blanking cover (8).

## Pump-sender unit-filter: Removal - Refitting

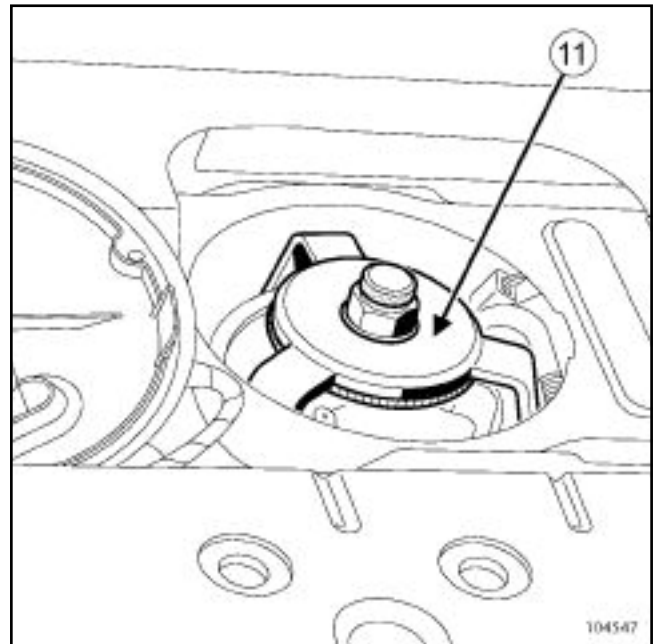
X84, and J84, and F4R or K4J or K4M



Disconnect:

- the electrical connectors (9),
- the quick-release union (10).

Prepare for fuel outflow.



Remove the nut from the « pump/sender/filter » assembly using tool (**Mot. 1397**)(11).

Remove the « pump/sender/filter » assembly, being careful of the float.

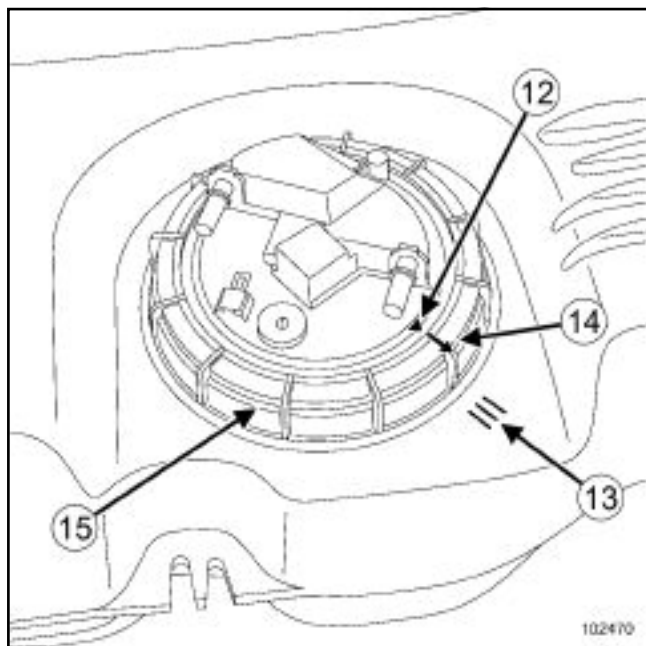
**WARNING**

Refit the « pump/sender/filter » assembly nut as soon as the « pump/sender/filter » assembly is removed to prevent any deformation of the tank

## Pump-sender unit-filter: Removal - Refitting

X84, and J84, and F4R or K4J or K4M

## REFITTING



102470

Replace the O-ring seal.

Refit the « pump/sender/filter » assembly, aligning mark (12) on the « pump/sender/filter » assembly with mark (13) on the tank.

Position the nut (15).

Tighten the nut (15) until mark (14) on the nut is aligned with mark (13) on the tank and with mark (12) on the « pump/sender/filter » assembly.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 370 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Pump-sender unit-filter: Removal - Refitting

X76, and D4D or D4F or D7D or D7F or E7J or K4M or K7J or K7M, and DOCUMENT PHASE 2

## Special tooling required

Mot. 1397

Universal spanner for  
removing fuel gauge  
nut

## IMPORTANT

During this operation, it is essential to:

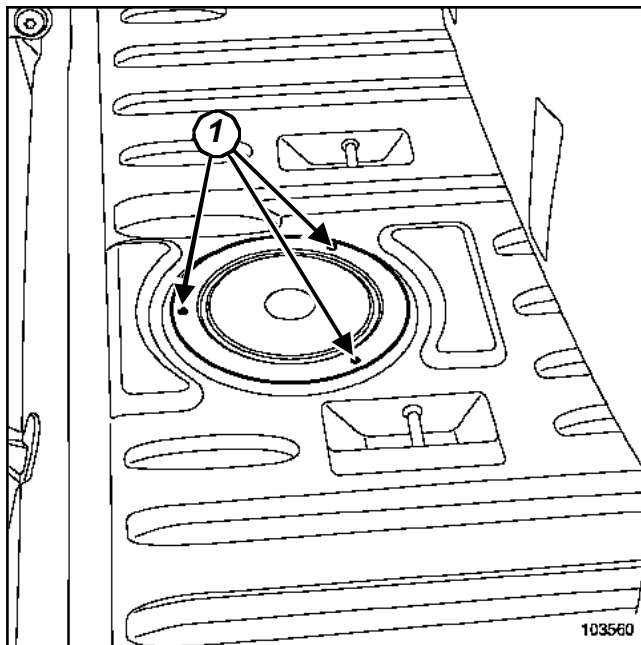
- refrain from smoking or bringing red hot objects close to the working area,
- guard against petrol splashes caused by the residual pressure in the pipes,
- protect sensitive areas from fuel outflow.

## REMOVAL

Disconnect the battery, starting with the negative terminal.

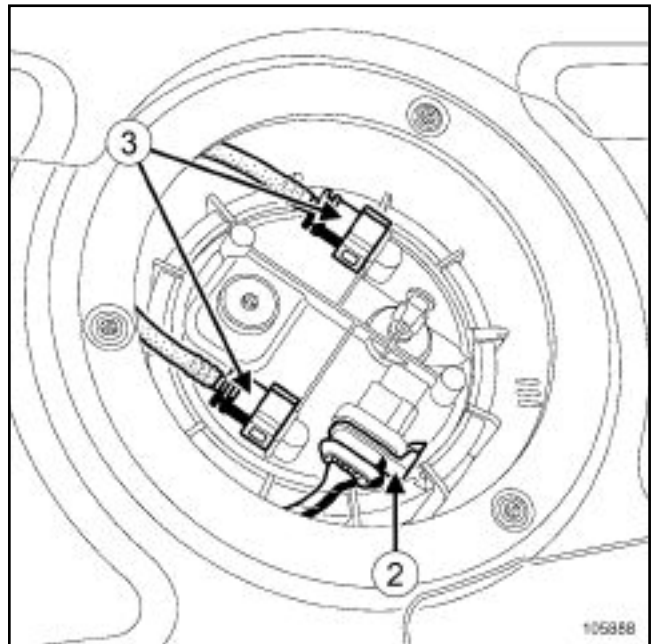
Fold up the rear bench seat into a vertical position.

Move the carpet to one side.



103560

Remove the inspection panel flap mounting bolts (1).



105888

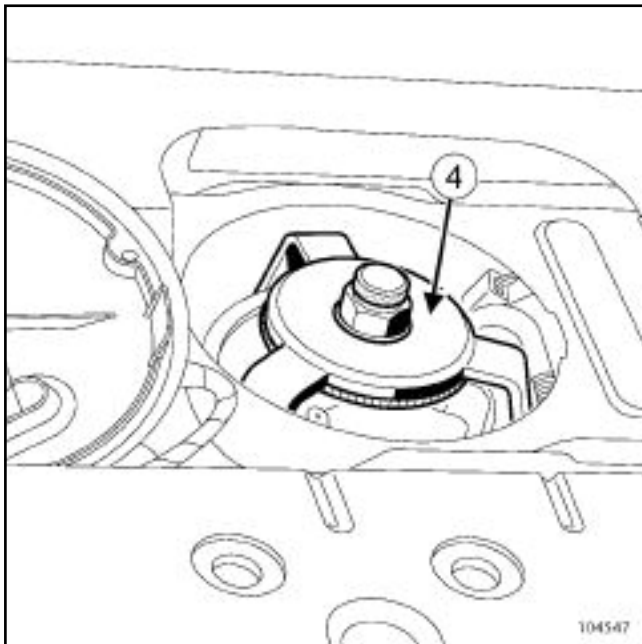
105888

Disconnect the electrical connector (2) and the snap-on union(s) (3) (depending on the version).

Prepare for fuel outflow.

## Pump-sender unit-filter: Removal - Refitting

X76, and D4D or D4F or D7D or D7F or E7J or K4M or K7J or K7M, and DOCUMENT PHASE 2



104547

Remove the mounting nut from the « pump/sender/filter » assembly using tool (Mot. 1397)(4).

Remove the « pump/sender/filter » assembly, being careful of the float.

**WARNING**

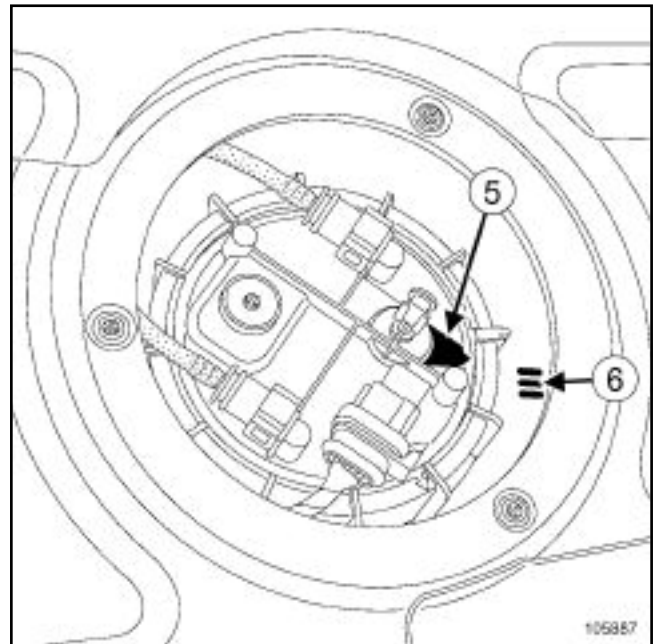
Refit the pump/sender/filter assembly nut as soon as the pump/sender/filter assembly has been removed to prevent any deformation of the fuel tank.

**REFITTING**

Replace the O-ring seal.

Refit the « pump/sender/filter » assembly following the procedure relevant to the vehicle (see below).

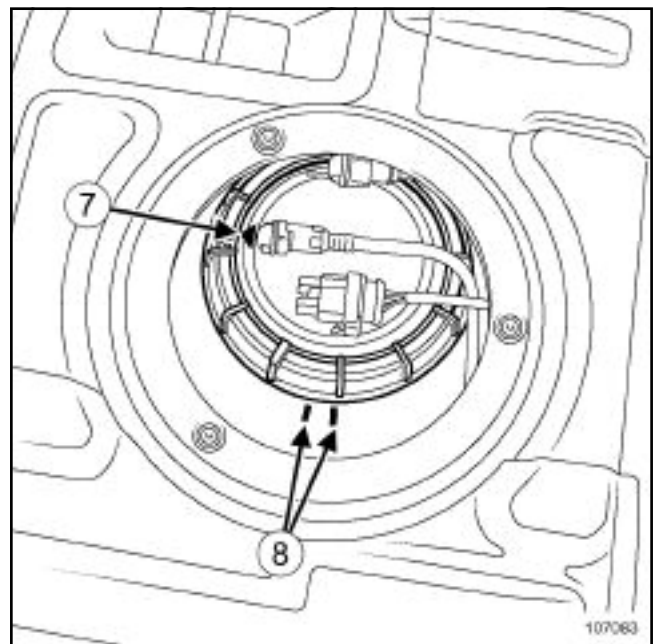
**All types except four-wheel drive version**



105887

Refit the « pump/sender/filter » assembly, aligning mark (5) on the « pump/sender/filter » assembly with mark (6) on the tank.

**Four-wheel drive version**



107083

Refit the « pump/sender/filter » assembly, positioning the axis of mark (7) on the « pump/sender/filter » assembly perpendicular to the two marks (8) on the tank.

**All Types**

Proceed in the reverse order to removal.

## Pump-sender unit-filter: Removal - Refitting

X76, and D4D or D4F or D7D or D7F or E7J or K4M or K7J or K7M, and DOCUMENT PHASE 2

Connect the battery starting with the positive terminal (see **MR 380 Mechanical systems, 80A, Battery: Removal - Refitting**).

## Pump-sender unit-filter: Removal - Refitting

X77, and D4F or K4J or K4M

## Special tooling required

<b>Mot. 1397</b>	Universal spanner for removing fuel gauge nut
------------------	---

Tightening torques 

battery cover mounting bolts	4 Nm
------------------------------	------

## REMOVAL

Position the vehicle on a two-post lift (see **MR 385 Mechanical systems, 02A, Two-post lift: Safety**).

Drain the fuel tank (see **MR 385 Mechanical systems, 19C, Fuel tank: Draining**).

Remove:

- the resonator,
- the battery covers.

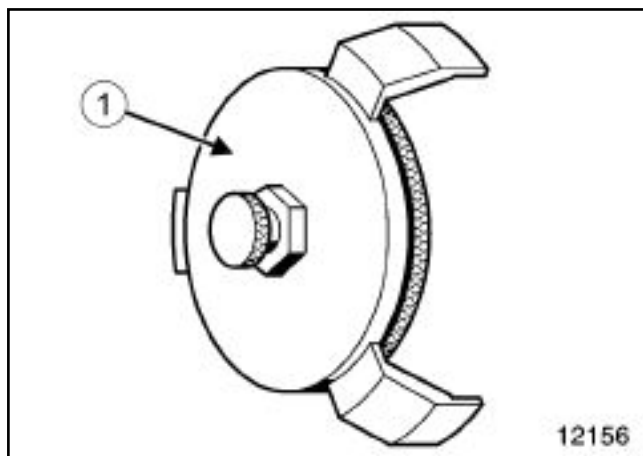
Disconnect the battery, starting with the negative terminal.

Disconnect:

- the connectors,
- the fuel supply pipe,

Prepare for fuel outflow.

Remove the fuel tank (see **MR 385 Mechanical systems, 19C, Fuel tank: Removal - Refitting**).



12156

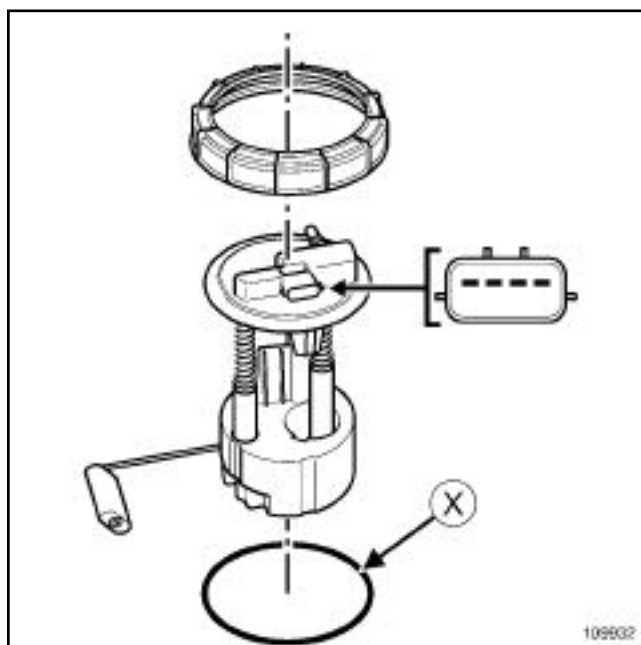
Remove the mounting nut from the « pump/sender/filter » assembly using tool (**Mot. 1397**)(1).

Remove the « pump/sender/filter » assembly, being careful of the float.

## WARNING

Refit the « pump/sender/filter » assembly nut as soon as the « pump/sender/filter » assembly is removed to prevent any deformation of the tank,

## REFITTING

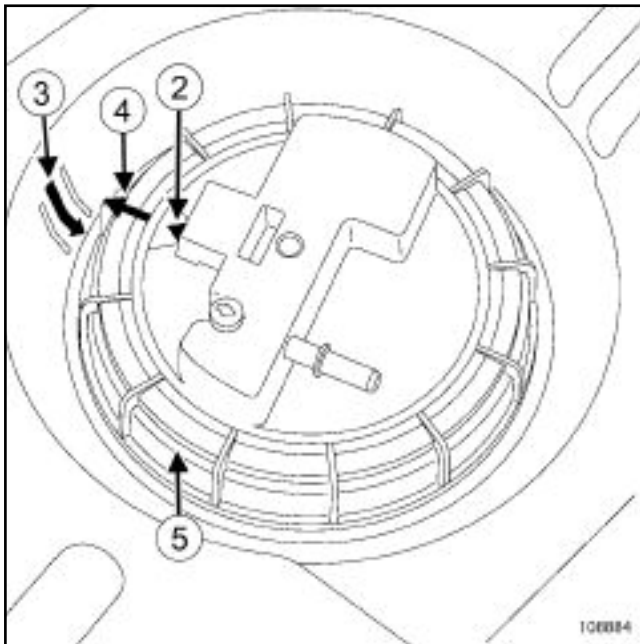


109932

Replace the O-ring seal (X).

## Pump-sender unit-filter: Removal - Refitting

X77, and D4F or K4J or K4M



108884

Refit the « pump/sender/filter » assembly, aligning mark (2) on the « pump/sender/filter » assembly with mark (3) on the tank.

Position the nut (5).

Tighten the nut (5) until mark (4) on the nut is aligned with mark (3) on the tank and with mark (2) on the « pump/sender/filter » assembly.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 385 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Pump-sender unit-filter: Removal - Refitting

X90, and K7J or K7M, and 710

## Special tooling required

<b>Mot. 1397</b>	Universal spanner for removing fuel gauge nut
------------------	---

Tightening torques 

battery cover mounting bolts	<b>4 Nm</b>
------------------------------	-------------

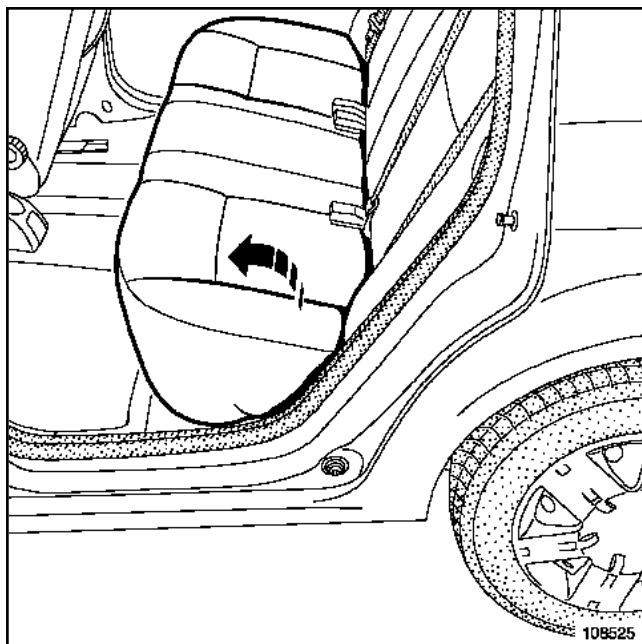
**IMPORTANT**

During this operation:

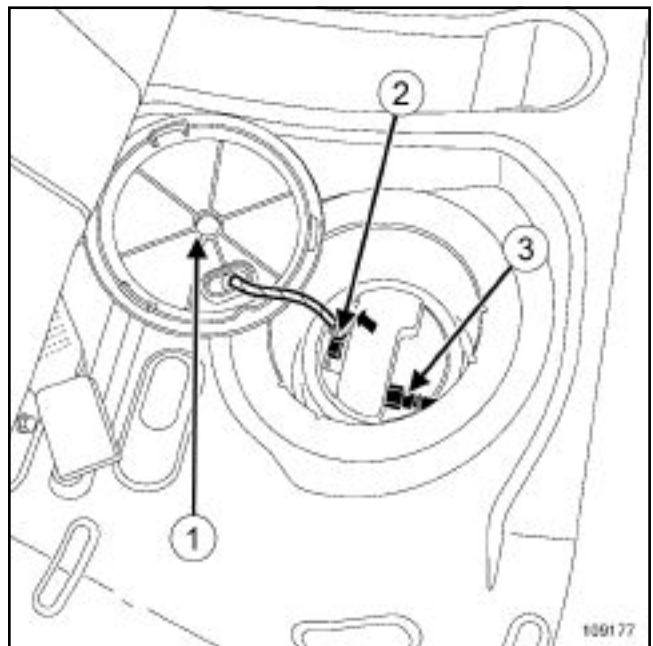
- refrain from smoking or bringing red hot objects close to the work area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

**REMOVAL**

Disconnect the battery, starting with the negative terminal.



Tilt the rear bench seat base forwards.



Remove the inspection flap cover (1).

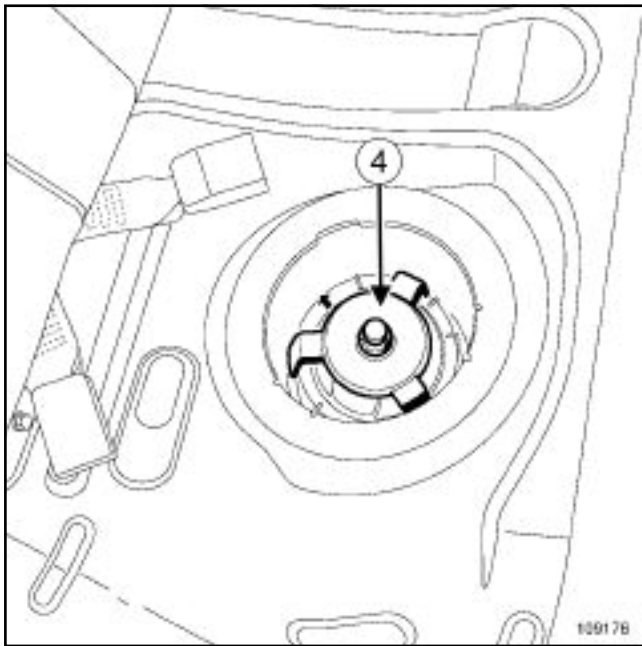
Disconnect:

- the electrical connector (2),
- the quick-release union (3).

Prepare for fuel outflow.

## Pump-sender unit-filter: Removal - Refitting

X90, and K7J or K7M, and 710



109176

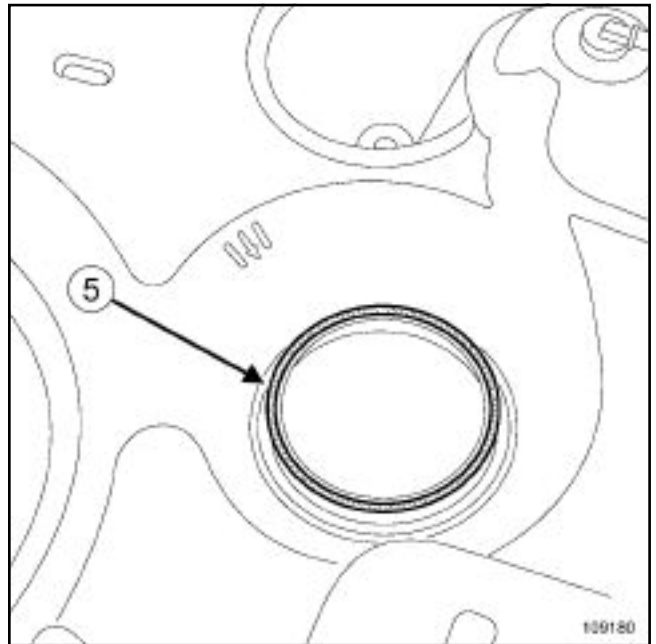
Remove the nut of the pump/sender/filter assembly using tool **(Mot. 1397)**(4).

Remove the pump/sender/filter assembly, being careful not to damage the float.

**WARNING**

Refit the pump/sender/filter assembly nut as soon as the pump/sender/filter assembly has been removed to prevent any deformation of the fuel tank.

## REFITTING

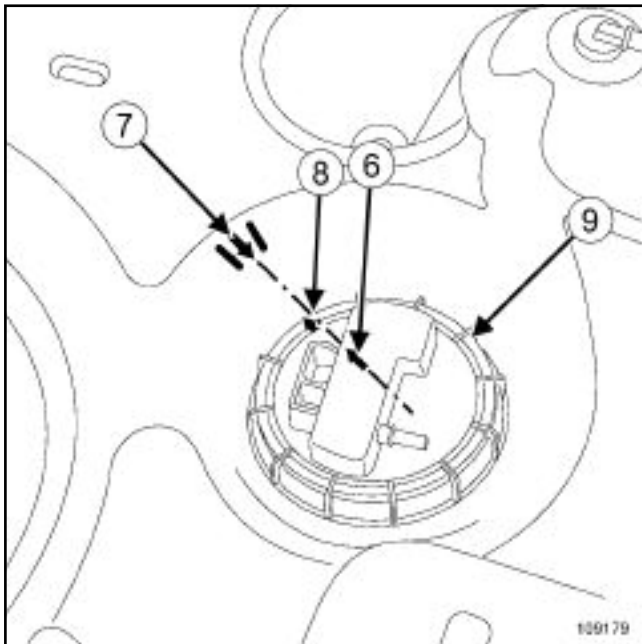


109180

Replace the O-ring seal (5).

## Pump-sender unit-filter: Removal - Refitting

X90, and K7J or K7M, and 710



109179

Refit the pump/sender/filter assembly, aligning mark (6) on the pump/sender/filter assembly with mark (7) on the tank.

Position the nut (9).

Tighten the nut (9) until mark (8) on the nut is aligned with mark (7) on the tank and mark (6) on the pump/sender/filter assembly.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 388 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Pump-sender unit-filter: Removal - Refitting

X40, and C1C or C1E or C1G or C1J or C2J or C3G or C3J or E6J or E7J or F2N or F3N – X57, and C1E or C3G or D7F or E5F or E6J or E7F or E7J or F2N or F3P or F7P or F7R – X64, and E7J or F3R or F4P or F4R or F5R or F7R or K4J or K4M or K7M – X48, and C2J or C2L or F2N or F2R or F3N or J6R or J6T or J7R or J7T – X54, and J7R or J7T or L7X or N7Q or N7U or Z7X – X56, and F3P or F3R or F4P or F4R or K4M or L7X or N7Q or Z7X – XTP, and A1M or C1J or F1N or J5R or J7T – X76, and 5DC or 5EE or D4D or D4F or D7D or D7F or E7J or K4M or K7J or K7M, and DOCUMENT PHASE 1

## Special tooling required

<b>Mot. 1397</b>	X76	Universal spanner for removing fuel gauge nut
------------------	-----	---

Tightening torques 

battery cover mounting bolts	<b>4 Nm</b>
------------------------------	-------------

**IMPORTANT**

During this operation, it is essential to:

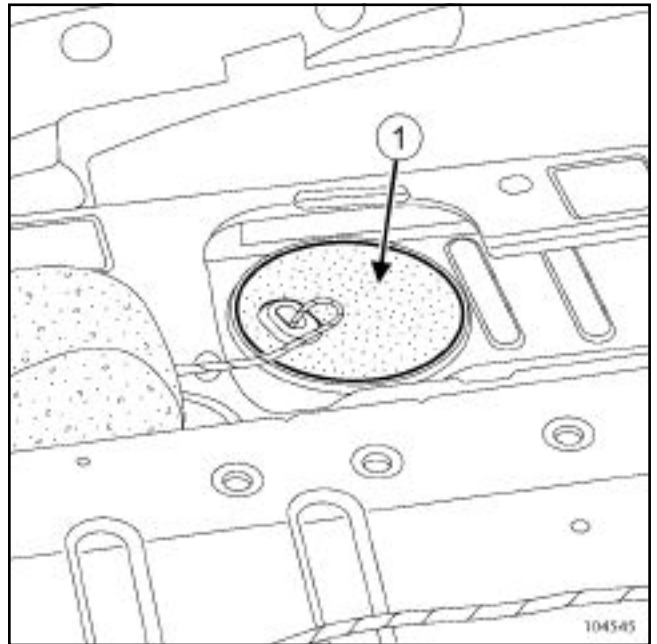
- refrain from smoking or bringing red hot objects close to the working area,
- guard against petrol splashes caused by the residual pressure in the pipes,
- protect sensitive areas from fuel outflow.

**REMOVAL**

Disconnect the battery, starting with the negative terminal.

Fold up the rear bench seat into a vertical position.

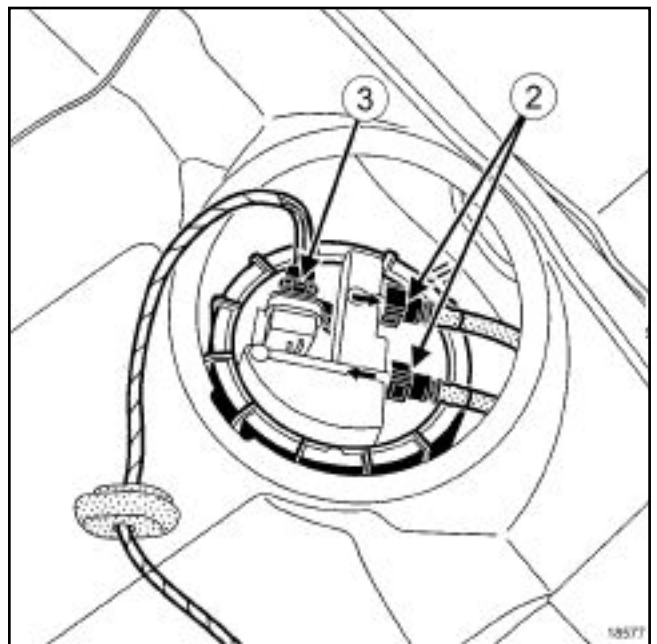
Move the carpet to one side.



104545

104545

Remove the inspection flap cover (1).



18577

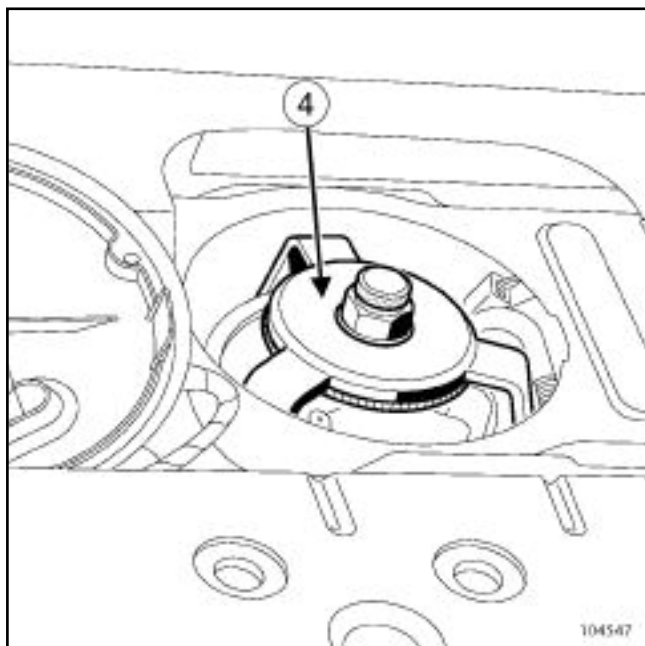
Disconnect:

- the electrical connector (3),
- quick-release union(s) (2).

Prepare for fuel outflow.

## Pump-sender unit-filter: Removal - Refitting

X40, and C1C or C1E or C1G or C1J or C2J or C3G or C3J or E6J or E7J or F2N or F3N – X57, and C1E or C3G or D7F or E5F or E6J or E7F or E7J or F2N or F3P or F7P or F7R – X64, and E7J or F3R or F4P or F4R or F5R or F7R or K4J or K4M or K7M – X48, and C2J or C2L or F2N or F2R or F3N or J6R or J6T or J7R or J7T – X54, and J7R or J7T or L7X or N7Q or N7U or Z7X – X56, and F3P or F3R or F4P or F4R or K4M or L7X or N7Q or Z7X – XTP, and A1M or C1J or F1N or J5R or J7T – X76, and 5DC or 5EE or D4D or D4F or D7D or D7F or E7J or K4M or K7J or K7M, and DOCUMENT PHASE 1



104547

Remove the mounting nut from the « pump/sender/filter » assembly using tool **(Mot. 1397)(4)**.

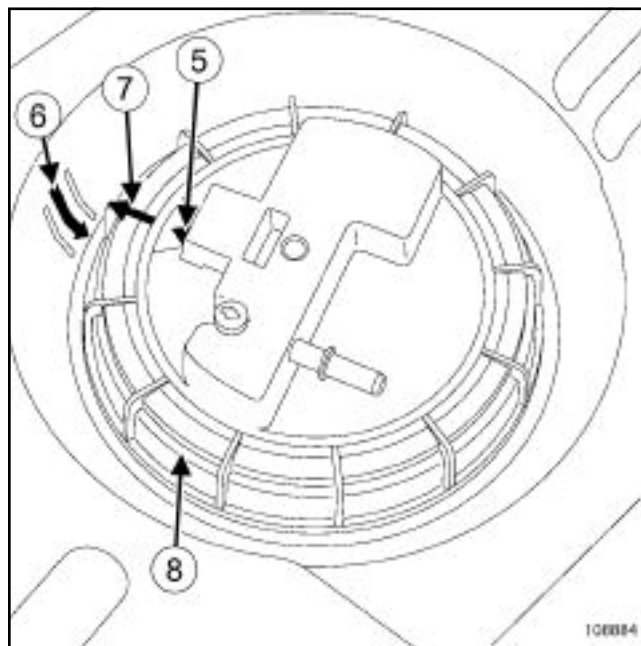
Remove the « pump/sender/filter » assembly, being careful of the float.

**WARNING**

Refit the pump/sender/filter assembly nut as soon as the pump/sender/filter assembly has been removed to prevent any deformation of the fuel tank.

**REFITTING**

Replace the O-ring seal.



108884

Refit the « pump/sender/filter » assembly, aligning mark **(5)** on the « pump/sender/filter » assembly with mark **(6)** on the tank.

Position the nut **(8)**.

Tighten the nut **(8)** until mark **(7)** on the nut is aligned with mark **(6)** on the tank and mark **(5)** on the « pump/sender/filter » assembly.

Proceed in the reverse order to removal.

Connect the battery, starting with the positive terminal (see **MR for the vehicle concerned, 80A, Battery: Special notes**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.

## Pump-sender unit-filter: Removal - Refitting

X74, and F4P or F4R or F5R or K4M or L7X

## Special tooling required

Mot. 1397

Universal spanner for  
removing fuel gauge  
nut

Tightening torques 

battery cover mounting  
bolts

4 Nm

## IMPORTANT

During this operation:

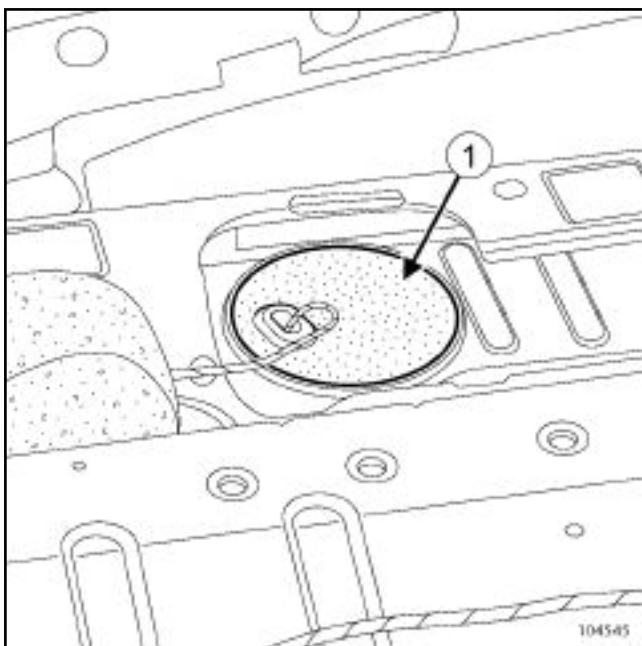
- refrain from smoking or bringing red hot objects near the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

## REMOVAL

Disconnect the battery, starting with the negative terminal.

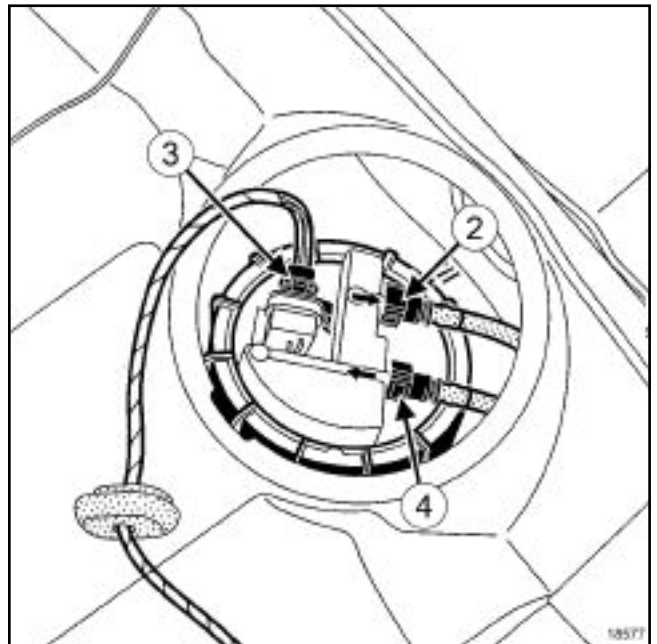
Lift up:

- the rear bench seat base,
- the carpet under the rear bench seat.



104545

Remove the inspection flap cover (1).

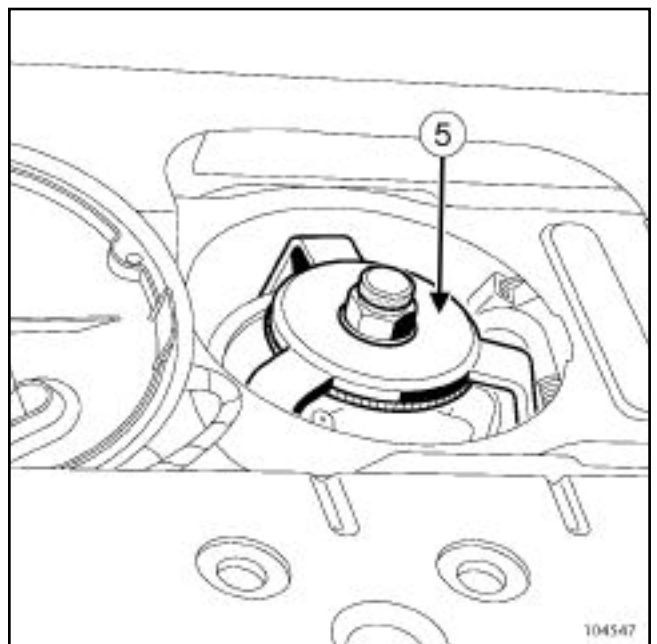


18577

Disconnect:

- the fuel sender connector (3),
- the quick-release union (2) for the fuel supply,
- the quick-release union (4) for the fuel return.

Prepare for fuel outflow.



104547

104547

Remove the mounting nut from the « pump/sender/  
filter » assembly using tool (Mot. 1397)(5).

## Pump-sender unit-filter: Removal - Refitting

X74, and F4P or F4R or F5R or K4M or L7X

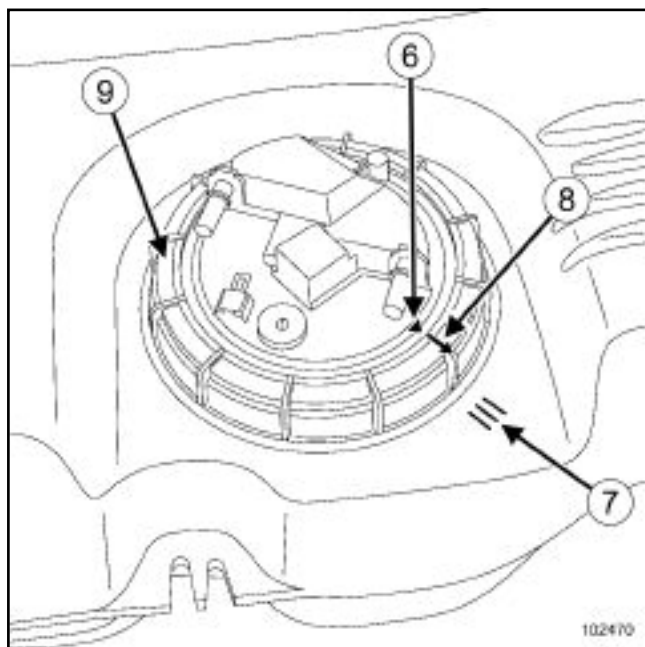
Remove the « pump/sender/filter » assembly, being careful of the float.

**WARNING**

Refit the « pump/sender/filter » assembly nut as soon as the « pump/sender/filter » assembly is removed to prevent any deformation of the fuel tank.

**REFITTING**

Replace the O-ring seal.



102470

Refit the « pump/sender/filter » assembly, aligning mark (6) on the « pump/sender/filter » assembly with mark (7) on the tank.

Position the nut (9).

Tighten the nut (9) until mark (8) on the nut is aligned with mark (7) on the tank and with mark (6) on the « pump/sender/filter » assembly.

Proceed in the reverse order to removal.

Connect the battery starting with the positive terminal (see **MR 395 Mechanical systems, 80A, Battery: Removal - Refitting**).

Tighten to torque the **battery cover mounting bolts (4 Nm)**.