

K4M, and TL4

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Fit the suspended engine mounting.
- ☐ Torque tighten the **right-hand suspended engine mounting cover bolts (62 N.m)**.
- ☐ Lower the engine until the rubber pad touches the right-hand suspended engine mounting.
- ☐ Position the right-hand suspended engine mounting rubber pad in line with the mark made during removal.
- ☐ Torque tighten the **right-hand suspended engine mounting rubber pad bolts (62 N.m)**.

II - FINAL OPERATION

- ☐ Remove the **(Mot. 1453)** and **(Mot. 1453-01)**.
- ☐ Refit:
 - the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
 - the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
 - the windscreen wiper arms (see **Windscreen wiper arm: Removal - Refitting**) (85A, Wiping - Washing),
 - the engine undertray.

K4M, and DP0

Special tooling required

Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Tightening torques

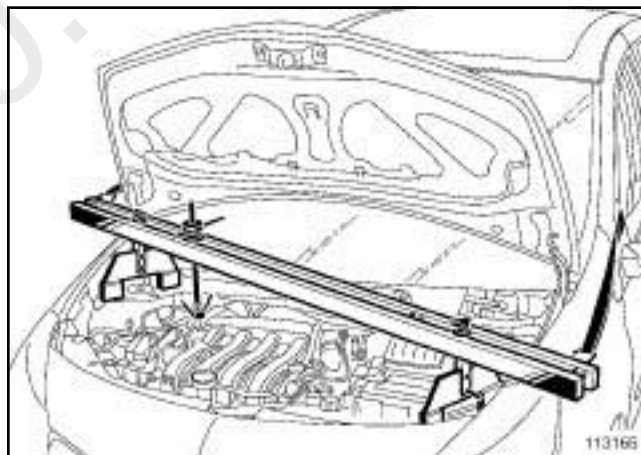
bolts mounting the left-hand suspended mounting on the gearbox	62 Nm
gearbox suspended engine mounting stud (if it has been replaced)	180 Nm
bolts mounting the left-hand suspended mounting support on the body	62 Nm
gearbox left-hand rubber pad mounting nut	62 Nm
wiring channel mounting nut	10 Nm

REMOVAL**I - REMOVAL PREPARATION OPERATION**☐ Remove:

- the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
- the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
- the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
- the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
- the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) ,
- the battery tray mounting (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
- the computer and its mounting (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page 17B-37) ,
- the engine undertray.



109155

☐ Remove the wiring channel mounting nut (1) .☐ Detach the wiring channel (2) .

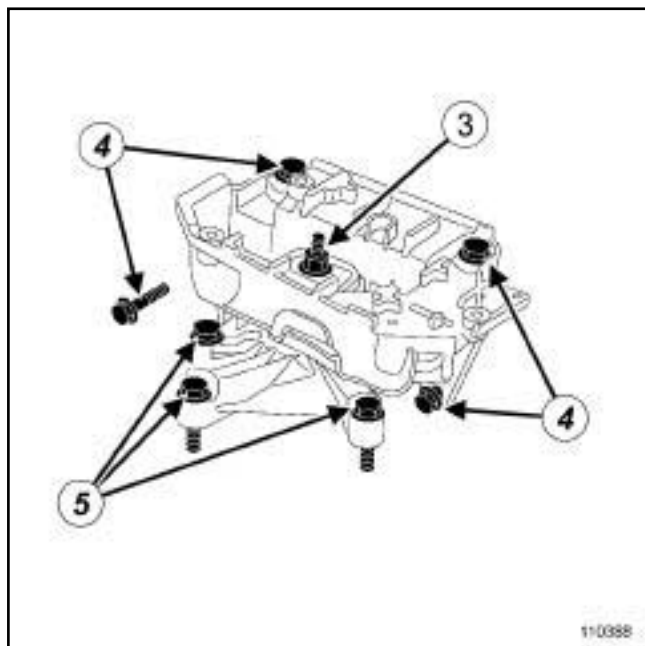
113165

☐ Position tool (**Mot. 1453**).☐ Mark the position of the suspended engine mounting on the body.

Left-hand suspended engine mounting: Removal - Refitting

K4M, and DP0

II - OPERATION FOR REMOVAL OF PART CONCERNED



110388

☐ Remove:

- the gearbox left-hand rubber pad mounting nut (3) ,
- the bolts (4) mounting the left-hand suspended mounting on the body,
- the left-hand suspended mounting from the body,
- the bolts (5) mounting the left hand suspended mounting on the gearbox,
- the gearbox left-hand suspended mounting.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Reposition the left-hand suspended mounting on the gearbox.
- ☐ Refit the bolts mounting the left-hand suspended mounting on the gearbox.
- ☐ Torque tighten:
 - the **bolts mounting the left-hand suspended mounting on the gearbox (62 Nm)**,
 - the **gearbox suspended engine mounting stud (if it has been replaced) (180 Nm)**.
- ☐ Reposition the left-hand suspended mounting on the body.
- ☐ Refit the bolts mounting the left-hand suspended mounting on the body,
- ☐ Torque tighten:
 - the **bolts mounting the left-hand suspended mounting support on the body (62 Nm)**,
 - the **gearbox left-hand rubber pad mounting nut (62 Nm)**.

K4M, and DP0

II - FINAL OPERATION.

- ☐ Remove the **(Mot. 1453)**.
- ☐ Position the wiring channel.
- ☐ Torque tighten the **wiring channel mounting nut (10 Nm)**.
- ☐ Refit:
 - the computer and its mounting (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page **17B-37**) ,
 - the battery tray mounting (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
 - the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) ,
 - the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
 - the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
 - the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

D4F, and JH3 – K9K – K4J, and JH3 – K4M, and JH3

Special tooling required

Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Tightening torques

bolts mounting the left-hand suspended mounting on the gearbox	62 Nm
left-hand suspended mounting stud on the gearbox	180 Nm
left-hand suspended mounting bolts on the body	62 Nm
left-hand rubber pad nut on the gearbox	62 Nm
wiring harness channel nut	10 Nm

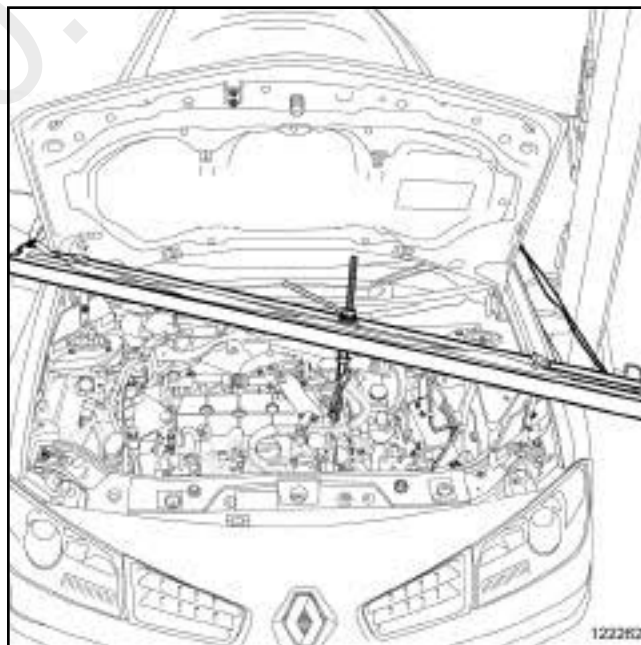
REMOVAL**I - REMOVAL PREPARATION OPERATION**

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Remove:
 - the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
 - the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
 - the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) ,
 - the computer and its mounting (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page 17B-37) ,
 - the engine undertray.



109155

- ☐ Remove the wiring harness channel nut (1) .
- ☐ Detach the wiring harness channel (2) .



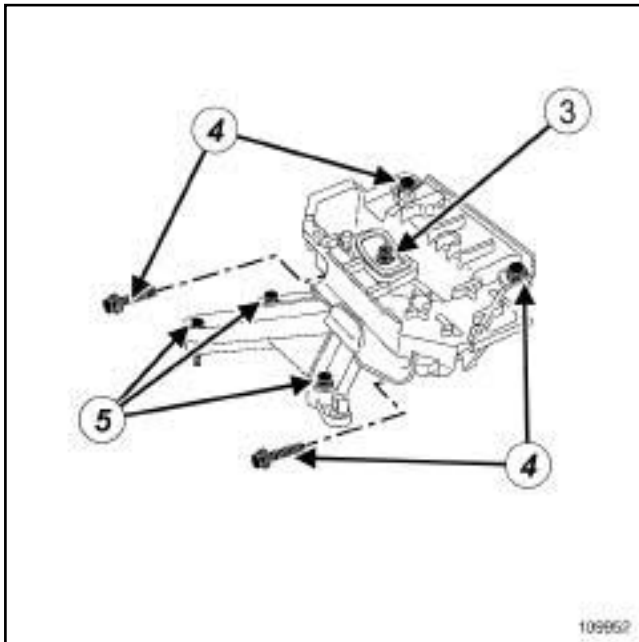
122262

- ☐ Position tool (**Mot. 1453**).
- ☐ Mark the position of the suspended engine mounting on the body.

D4F, and JH3 – K9K – K4J, and JH3 – K4M, and JH3

II - OPERATION FOR REMOVAL OF PART CONCERNED

D4F – K9K

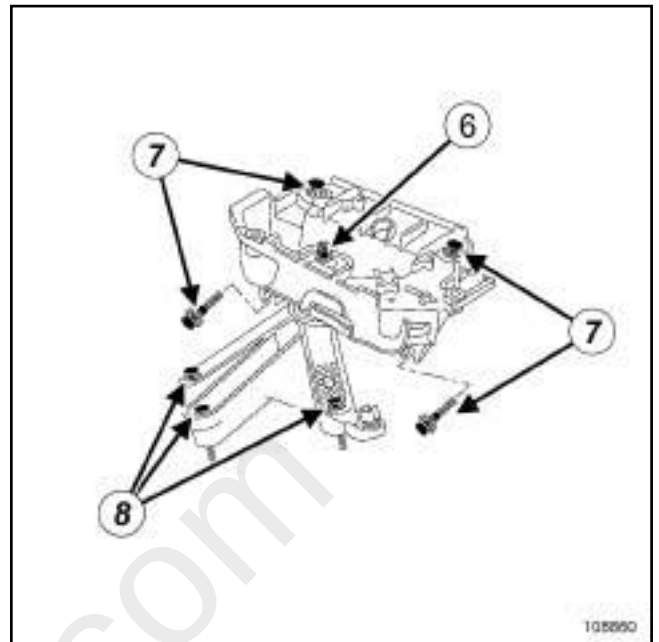


109952

Remove:

- the nut (3) from the gearbox left-hand rubber pad,
- the bolts (4) from the left-hand suspended mounting on the body,
- the left-hand suspended mounting from the body,
- the bolts (5) from the gearbox left-hand suspended mounting,
- the gearbox left-hand suspended mounting.

K4J – K4M, and 800



108860

Remove:

- the nut (6) from the gearbox left-hand rubber pad,
- the bolts (7) from the left-hand suspended mounting on the body,
- the left-hand suspended mounting from the body,
- the bolts (8) from the gearbox left-hand suspended mounting,
- the gearbox left-hand suspended mounting.

D4F, and JH3 – K9K – K4J, and JH3 – K4M, and JH3

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

☐ Refit:

- the left-hand suspended mounting on the gearbox,
- the left hand suspended mounting bolts on the gearbox.

☐ Torque tighten:

- the **bolts mounting the left-hand suspended mounting on the gearbox (62 Nm)**,
- If it has been replaced, the **left-hand suspended mounting stud on the gearbox (180 Nm)**.

☐ Refit:

- the left-hand suspended mounting from the body,
- the left-hand suspended mounting bolts on the body.

☐ Torque tighten the **left-hand suspended mounting bolts on the body (62 Nm)**.☐ Refit the left-hand gearbox rubber pad nut.☐ Tighten to torque the **left-hand rubber pad nut on the gearbox (62 Nm)**.

II - FINAL OPERATION.

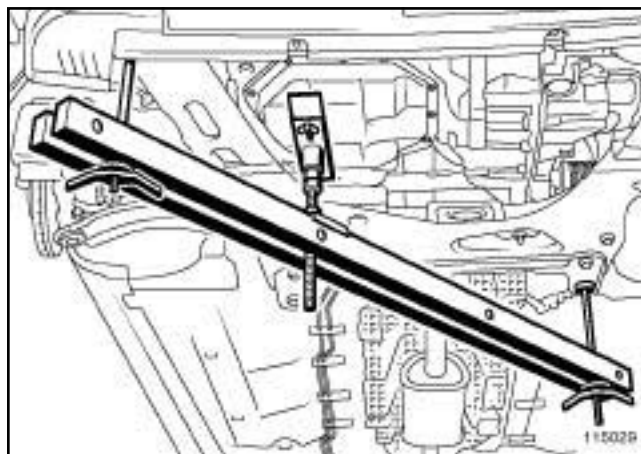
☐ Remove the **(Mot. 1453)**.☐ Position the wiring harness channel.☐ Torque tighten the **wiring harness channel nut (10 Nm)**.☐ Refit:

- the computer and its mounting (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page **17B-37**) ,
- the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) ,
- the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
- the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
- the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
- the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
- the engine undertray.

M4R, and DP0

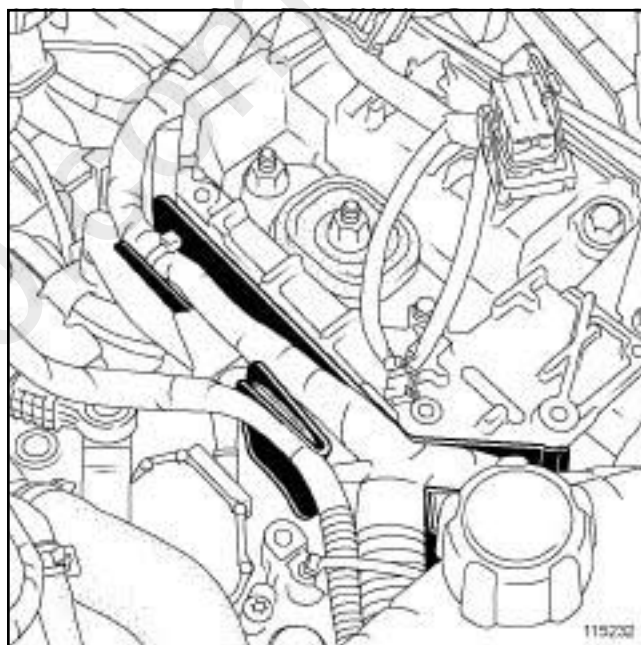
Special tooling required**Mot. 1672** Lower engine support.**Tightening torques** gearbox cover mounting bolts **62 Nm**mounting bolts securing the gearbox support to the body **62 Nm**mounting studs securing the rubber mounting bush to the gearbox support **62 Nm**mounting nut securing the rubber mounting bush to the gearbox cover **62 Nm**right-hand mounting bolt of the radiator support cross member **105 Nm**left-hand mounting bolt of the sub-frame tie-rod **105 Nm****REMOVAL****I - REMOVAL PREPARATION OPERATION**

- ☐ Fit the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) .
- ☐ Remove:
 - the engine cover,
 - the engine undertray,
 - the battery (see **Battery: Removal - Refitting**) ,
 - the battery tray (see **Battery tray: Removal - Refitting**) ,
 - the right-hand mounting bolt from the radiator support cross member,
 - the left-hand mounting bolt from the sub-frame tie-rod.



115029

- ☐ Fit the lower engine support tool (**Mot. 1672**).

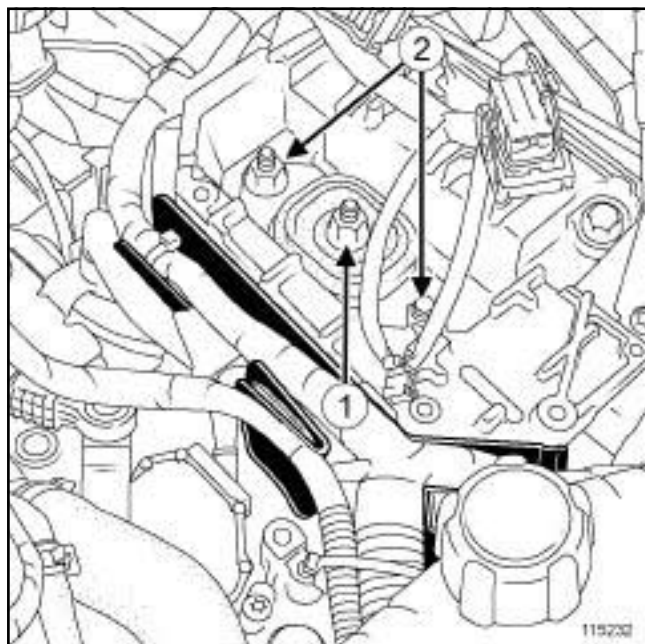


115232

- ☐ Remove the gearbox mounting wiring harness neck.

M4R, and DP0

II - REMOVAL OF PART CONCERNED

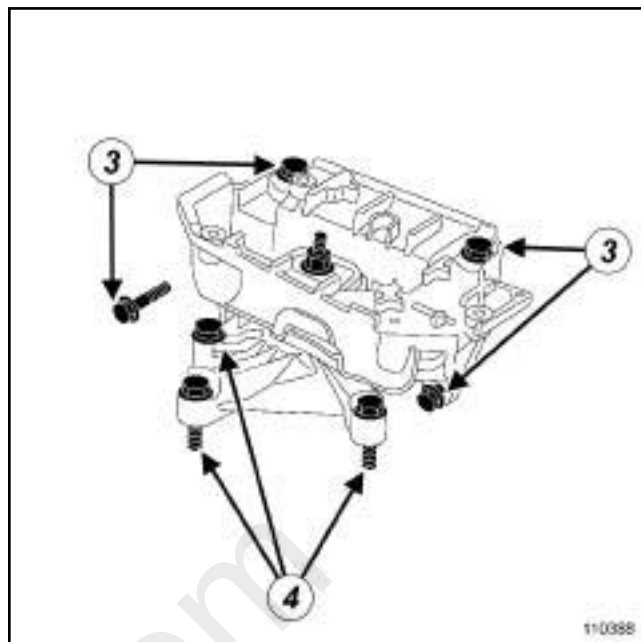


❑ Remove:

- the gearbox cover rubber mounting bush mounting nut (1) ,
- the gearbox support rubber mounting bush mounting studs (2) ,
- the rubber mounting bush.

Note:

If necessary, lower the engine a few millimetres using **(Mot. 1672)** then hit the stud with a copper hammer.



❑ Remove:

- the mounting bolts (3) securing the gearbox support on the body,
- the gearbox support,
- the mounting bolts (4) securing the gearbox cover to the gearbox,
- the gearbox cover.

REFITTING

I - REFITTING PART CONCERNED

❑ Refit:

- the gearbox cover,
- the gearbox cover mounting bolts,

❑ Tighten to torque the **gearbox cover mounting bolts (62 Nm)**.

❑ Refit:

- the gearbox support,
- the mounting bolts securing the gearbox support to the body,
- the rubber mounting bush,
- the mounting studs securing the rubber mounting bush to the gearbox support,
- the mounting nut securing the rubber mounting bush to the gearbox cover.

Left-hand suspended engine mounting: Removal - Refitting

M4R, and DP0

☐ Tighten to torque:

- the **mounting bolts securing the gearbox support to the body (62 Nm)**,
- the **mounting studs securing the rubber mounting bush to the gearbox support (62 Nm)**,
- the **mounting nut securing the rubber mounting bush to the gearbox cover (62 Nm)**.

II - FINAL OPERATION☐ Fit the wiring harness neck to the gearbox support.☐ Remove the lower engine support tool (**Mot. 1672**).☐ Tighten to torque:

- the **right-hand mounting bolt of the radiator support cross member (105 Nm)**,
- the **left-hand mounting bolt of the sub-frame tie-rod (105 Nm)**.

☐ Refit:

- the battery tray (see **Battery tray: Removal - Refitting**) ,
- the battery (see **Battery: Removal - Refitting**) ,
- the engine cover,
- the engine undertray.

F4R

Special tooling required

Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Tightening torques

suspended engine mounting bolts on the gearbox side	62 N.m
suspended engine mounting bolts on the body side	62 Nm
left-hand suspended engine mounting rubber pad mounting bolts	62 Nm
left-hand suspended engine mounting rubber pad mounting nut	62 Nm

REMOVAL**I - REMOVAL PREPARATION OPERATION**

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02, Lifting equipment).
- ☐ Have to hand the gearbox side lifting eye and its mounting bolts (see **11A, Top and front of engine, Lifting eyes: Removal - Refitting**, page 11A-305) .
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove:
 - the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
 - the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
 - the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) ,

- the battery tray mounting (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
- the petrol injection computer (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page 17B-37) .

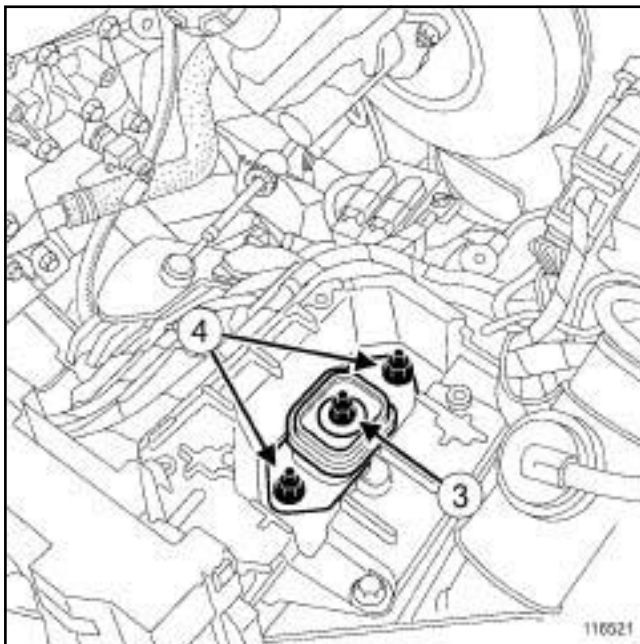


109155

- ☐ Remove the wiring harness channel mounting nut (1) .
- ☐ Move aside the wiring harness channel (2) .
- ☐ Fit the gearbox side lifting eye (see **11A, Top and front of engine, Lifting eyes: Removal - Refitting**, page 11A-305) .
- ☐ Fit the (**Mot. 1453**).

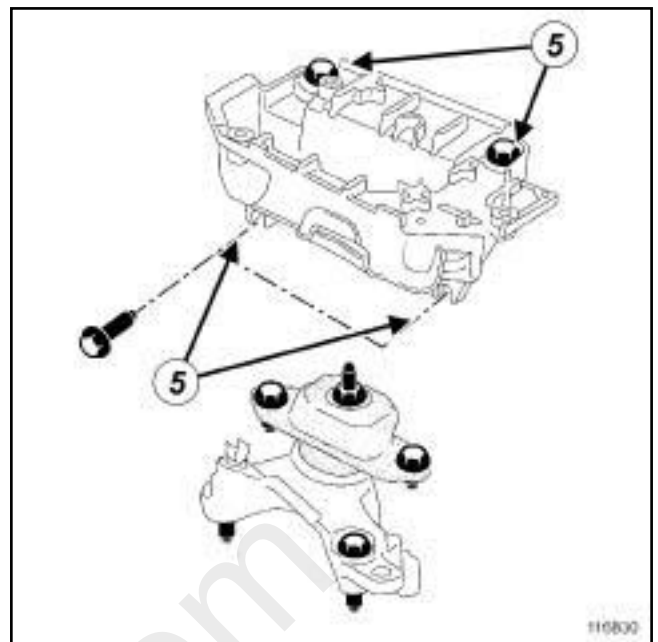
F4R

II - OPERATION FOR REMOVAL OF PART CONCERNED



❑ Remove:

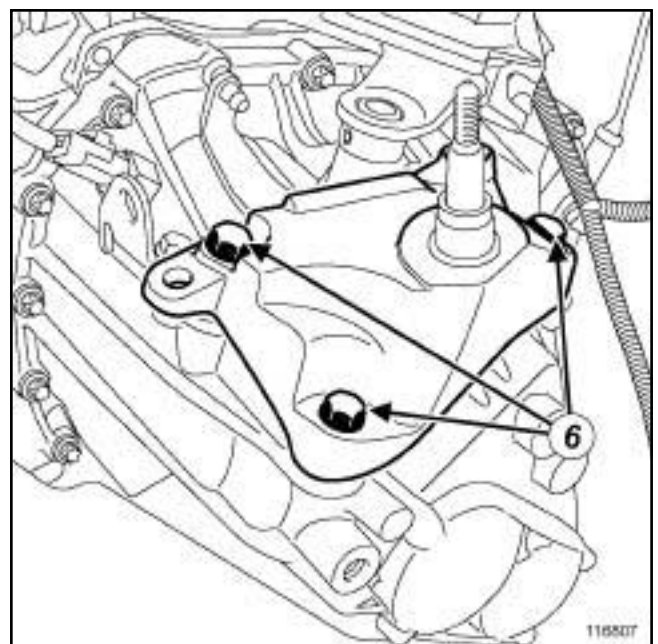
- the rubber pad mounting nut (3) from the left-hand suspended engine mounting,
- the rubber pad mounting bolt (4) from the left-hand suspended engine mounting,
- the rubber pad from the left-hand suspended engine mounting



116830

❑ Remove:

- the bolts (5) mounting the left-hand suspended engine mounting support on the body side,
- the left-hand suspended engine mounting support on the body side.



116807

❑ Remove:

- the bolts (6) mounting the left-hand suspended engine mounting support on the gearbox side,
- the left-hand suspended engine mounting support on the gearbox side.

F4R

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

☐ Remove:

- the left-hand suspended engine mounting support on the gearbox side,
- the bolts mounting the left-hand suspended engine mounting support on the gearbox side.

☐ Torque tighten the **suspended engine mounting bolts on the gearbox side (62 N.m).**☐ Refit:

- the left-hand suspended engine mounting support on the body side,
- the bolts mounting the left-hand suspended engine mounting support on the body side.

☐ Torque tighten the **suspended engine mounting bolts on the body side (62 Nm).**☐ Refit:

- the rubber pad on the left-hand suspended engine mounting,
- the rubber pad mounting bolt on the left-hand suspended engine mounting,
- the rubber pad mounting nut on the left-hand suspended engine mounting.

☐ Torque tighten:

- the **left-hand suspended engine mounting rubber pad mounting bolts (62 Nm),**
- the **left-hand suspended engine mounting rubber pad mounting nut (62 Nm).**

II - FINAL OPERATION.

☐ Remove:

- the **(Mot. 1453),**
- the gearbox side lifting eye (see **11A, Top and front of engine, Lifting eyes: Removal - Refitting**, page **11A-305**) .

☐ Fit the wiring harness channel.☐ Refit:

- the wiring harness channel mounting nut,
- the petrol injection computer (see **17B, Petrol injection, Petrol injection computer: Removal - Refitting**, page **17B-37**) ,
- the battery tray mounting (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),

- the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) ,

- the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),

- the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),

- the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

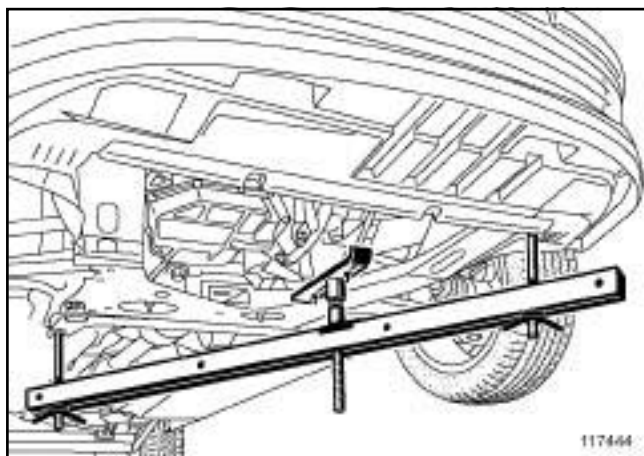
- the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment).

☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).☐ Refit the gearbox side lifting eye and its mounting bolts in the luggage compartment (see **11A, Top and front of engine, Lifting eyes: Removal - Refitting**, page **11A-305**) .

M4R, and TL4

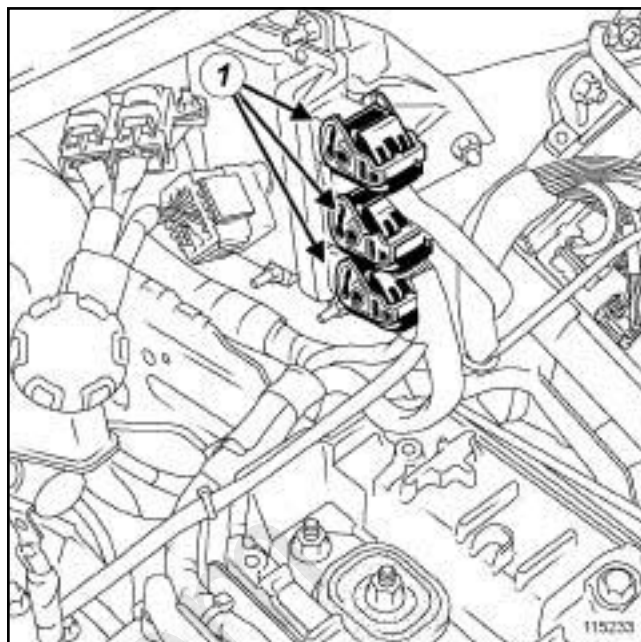
Special tooling required**Mot. 1672** Lower engine support.**Tightening torques** subframe tie-rod right-hand bolt **105 Nm**radiator mounting cross member left-hand bolt **105 Nm****REMOVAL****I - REMOVAL PREPARATION OPERATION**

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02, Lifting equipment).
- ☐ Remove:
 - the engine cover,
 - the engine undertray,
 - the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
 - the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
 - the radiator mounting cross member left-hand bolt,
 - the subframe tie-rod right-hand bolt.



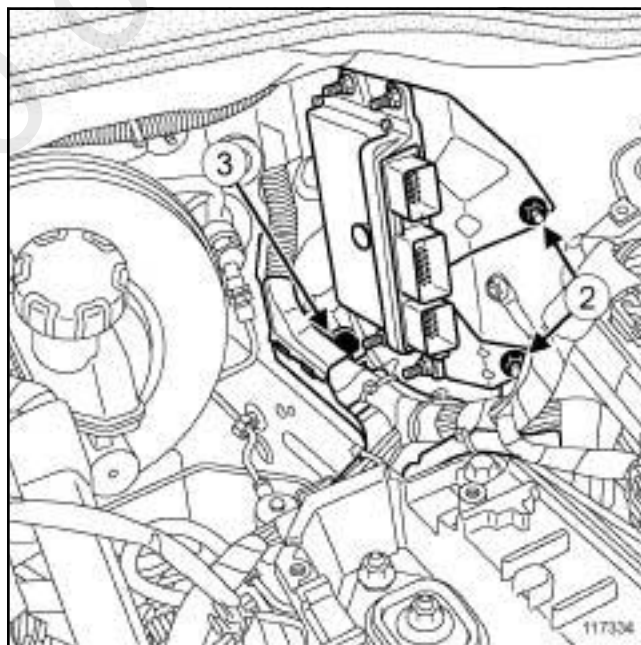
117444

- ☐ Fit the lower engine support tool (**Mot. 1672**).



115233

- ☐ Disconnect the injection computer connectors (1).

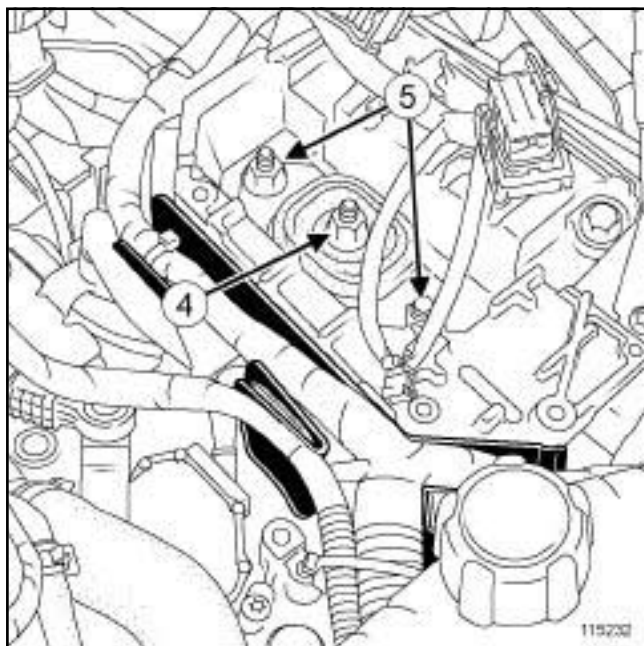


117334

- ☐ Remove:
 - the bolts (2) from the injection computer support,
 - the bolt (3) from the wiring harness channel.
- ☐ Remove:
 - the injection computer mounting,
 - the wiring harness channel.

M4R, and TL4

II - OPERATION FOR REMOVAL OF PART CONCERNED

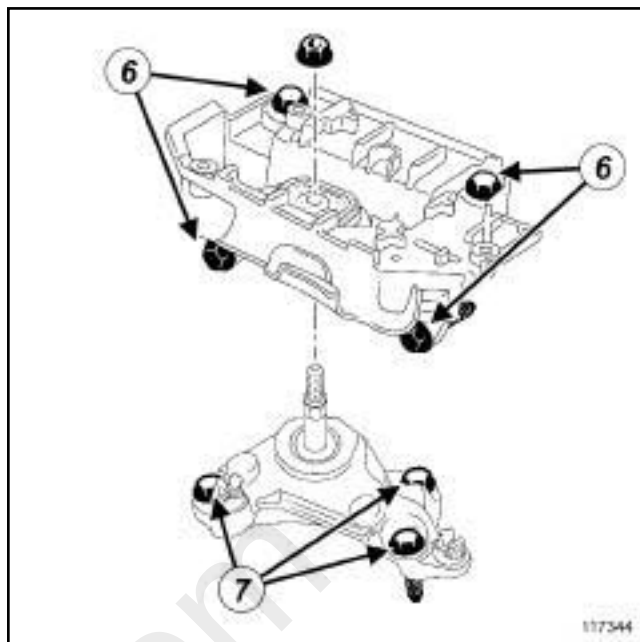


115232

- ❑ Separate the wiring harness channel from the gearbox support.
- ❑ Remove:
 - the nut (4) mounting the gearbox cover on the gearbox support,
 - the bolts (5) from the gearbox support rubber mounting bush,
 - the rubber mounting bush.

Note:

If necessary, lower the engine a few millimetres using the **(Mot. 1672)** then hit the stud with a copper hammer.



117344

- ❑ Remove:
 - the bolts (6) mounting the gearbox support on the body,
 - the gearbox support,
 - the bolts (7) mounting the gearbox cover on the gearbox,
 - the gearbox cover.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit:
 - the gearbox cover,
 - the bolts mounting the gearbox cover on the gearbox.
- ❑ Torque tighten the gearbox cover bolts (see **19D, Engine mounting, Suspended engine mounting: Tightening torque**, page 19D-1) .
- ❑ Refit:
 - the gearbox support,
 - the gearbox support bolts on the body,
 - the rubber mounting bush,
 - the bolts to the gearbox support rubber mounting bush,
 - the nut mounting the gearbox cover on the gearbox support.

Left-hand suspended engine mounting: Removal - Refitting

M4R, and TL4

- ☐ Tighten to torque and in order (see **19D, Engine mounting, Suspended engine mounting: Tightening torque**, page **19D-1**) :

- the gearbox support bolts on the body,
- the bolts to the gearbox support rubber mounting bush,
- the nut mounting the gearbox cover on the gearbox support.

II - FINAL OPERATION.

- ☐ Fit the wiring harness channel to the gearbox support.

- ☐ Remove the lower engine support tool (**Mot. 1672**).

- ☐ Fit:

- the harness channel,
- the injection computer support.

- ☐ Refit:

- the injection computer support bolts,
- the wiring harness channel bolts.

- ☐ Connect the injection computer connectors.

- ☐ Refit:

- the subframe tie-rod right-hand bolt,
- the radiator mounting cross member left-hand bolt.

- ☐ Torque tighten:

- the **subframe tie-rod right-hand bolt (105 Nm)**,
- the **radiator mounting cross member left-hand bolt (105 Nm)**.

- ☐ Refit:

- the engine undertray,
- the battery tray (see **Battery tray: Removal - Refitting**) (MR 392, 80A, Battery),
- the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery),
- the engine cover.

K4M, and TL4

Special tooling required

Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Equipment required

indelible pencil

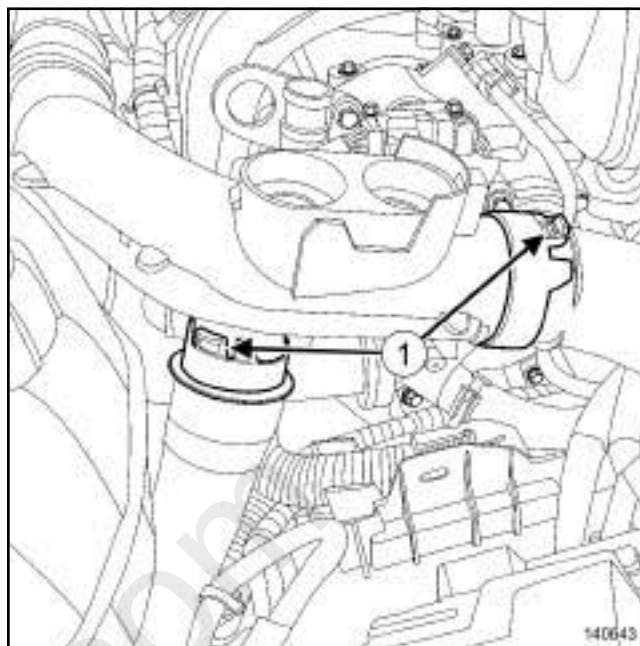
Tightening torques

bolts of the left-hand suspended engine mounting support on the gearbox	62 N.m
bolts of the left-hand suspended engine mounting support on the body	62 N.m
left-hand suspended engine mounting shaft nut	62 N.m
earth nut on the body	8 N.m

REMOVAL**I - REMOVAL PREPARATION OPERATION**

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- ☐ Remove:
 - the engine undertray bolts,
 - the engine undertray,
 - the windscreen wiper arms (see **Windscreen wiper arm: Removal - Refitting**) (85A, Wiping - Washing),
 - the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
 - the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
 - the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),

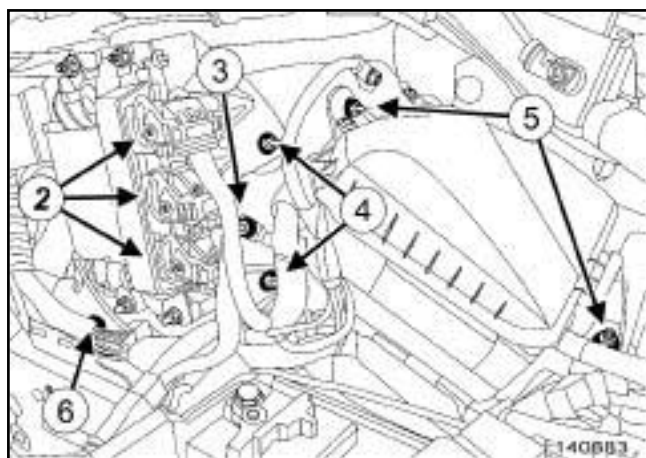
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).



140643

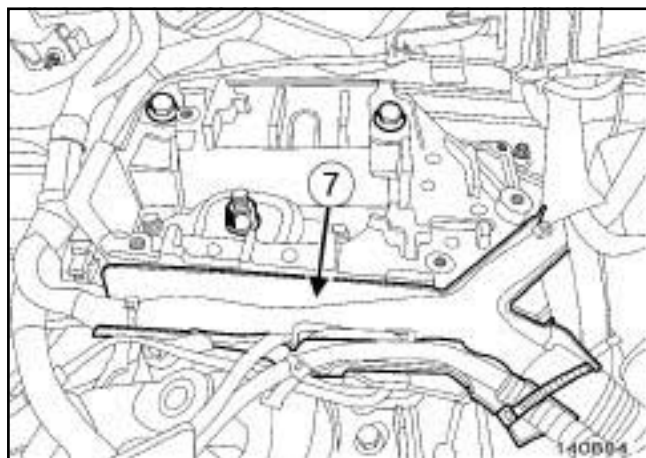
- ☐ Unclip the air inlet pipe from the air filter unit (1) .
- ☐ Move aside the air inlet pipe from the air filter unit.
- ☐ Remove:
 - the battery (see **Battery: Removal - Refitting**) (80A, Battery),
 - the battery tray (see **Battery tray: Removal - Refitting**) (80A, Battery),
 - the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) .

K4M, and TL4



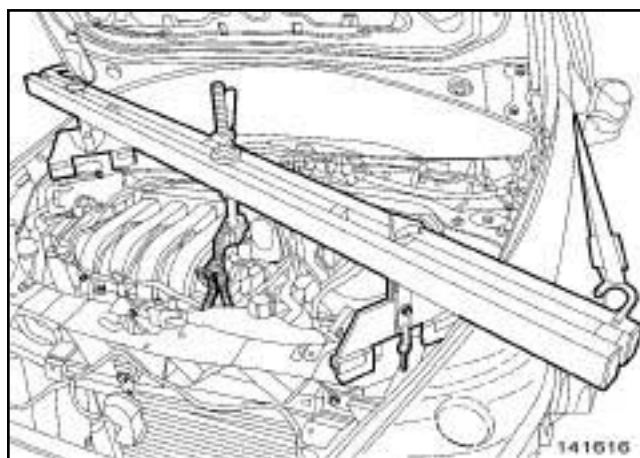
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- ☐ Disconnect the connectors (2) from the petrol injection computer.
- ☐ Remove:
 - the earth nut (3) on the body,
 - the petrol injection computer nuts (4) .
- ☐ Move aside the wiring of the petrol injection computer.
- ☐ Remove:
 - the petrol injection computer,
 - the Protection and Switching Unit nuts (5) .
- ☐ Move aside the Protection and Switching Unit.
- ☐ Remove the wiring channel nut (6) .
- ☐ Move aside the wiring channel on the body.



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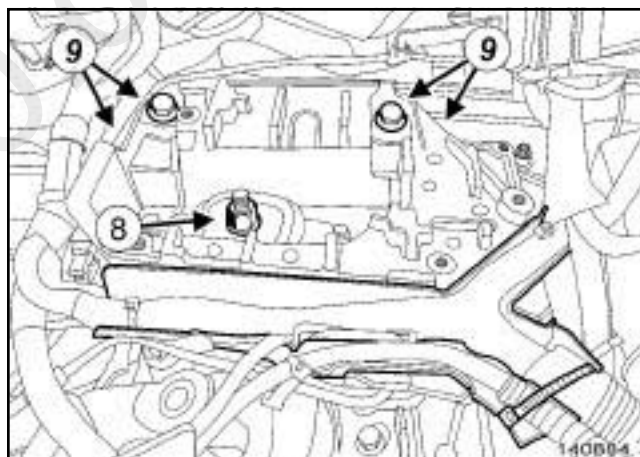
- ☐ Unclip the wiring channel (7) from the left-hand suspended engine mounting.



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- ☐ Position the (Mot. 1453).
- ☐ Mark the position of the suspended engine mounting on the body using a **indelible pencil**.

II - OPERATION FOR REMOVAL OF PART CONCERNED



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- ☐ Remove:
 - the left-hand suspended engine mounting shaft nut (8) ,
 - the bolts (9) of the left-hand suspended engine mounting support on the body,
 - the left-hand suspended engine mounting support on the body.