

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

K4M, and TL4

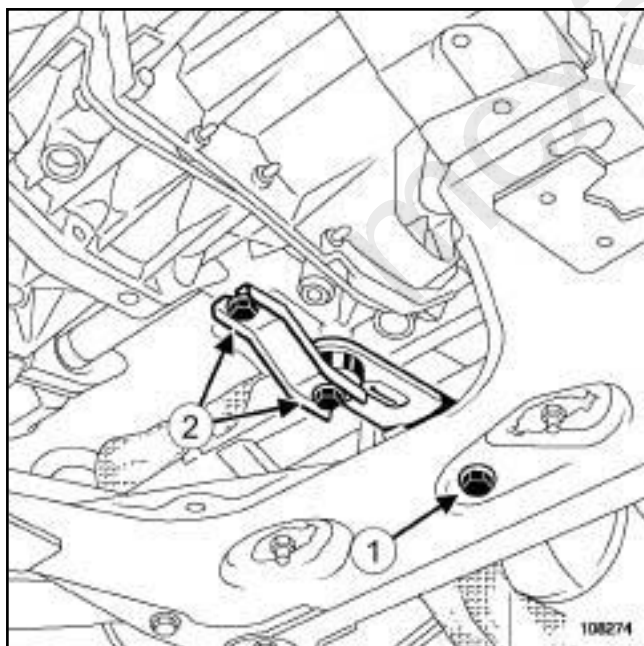
Tightening torques 	
engine tie-bar bolts on the gearbox	105 N.m
engine tie-bar bolt on the subframe	105 N.m

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.

II - OPERATION FOR REMOVAL OF PART CONCERNED



108274

- ☐ Remove:
 - the engine tie-bar bolt (1) from the subframe,
 - the bolts (2) from the engine tie-bar on the gearbox,
 - the engine tie-bar.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the engine tie-bar,
 - the bolts of the engine tie-bar on the gearbox,
 - the engine tie-bar bolt on the subframe.
- ☐ Tighten to torque:
 - the **engine tie-bar bolts on the gearbox (105 N.m)**,
 - the **engine tie-bar bolt on the subframe (105 N.m)**.

II - FINAL OPERATION

- ☐ Refit the engine undertray.

D4F or K9K, and JH3

Special tooling required

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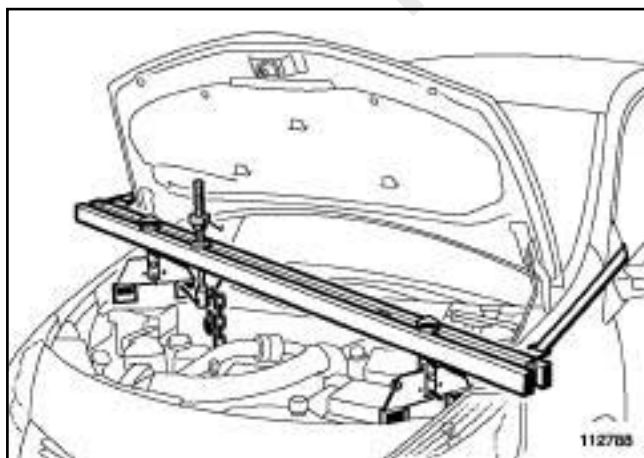
Tightening torques

right-hand suspended mounting support bolts on the engine	62 Nm
suspended mounting bolts on the body	62 Nm
right-hand rubber pad bolts (if changed)	105 Nm

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ 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).

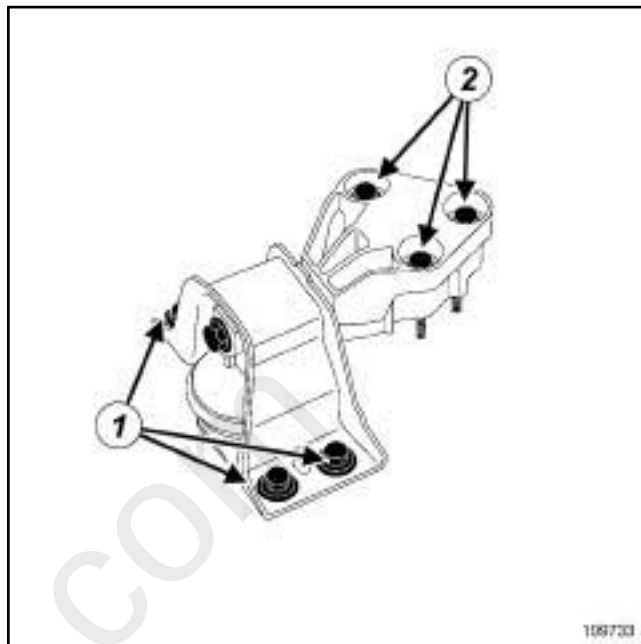


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- ☐ Position tool (**Mot. 1453**).
- ☐ Mark the position of the suspended engine mounting on the body.

II - OPERATION FOR REMOVAL OF PART CONCERNED

D4F, and 740 or 784

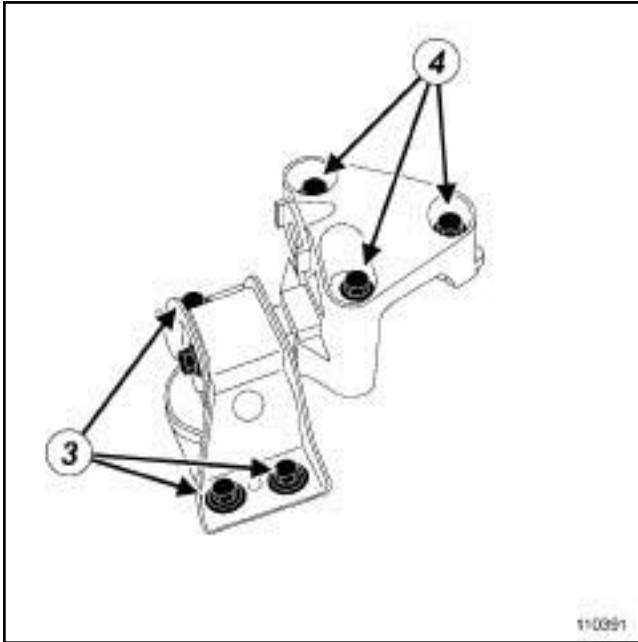


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- ☐ Remove:
 - the bolts (1) from the suspended mounting on the body,
 - the bolts (2) from the suspended mounting on the engine,
 - the suspended engine mounting.

D4F or K9K, and JH3

K9K, and 750 or 752 or 768



110391

Remove:

- the bolts (3) from the suspended mounting on the body,
- the bolts (4) from the suspended mounting on the engine,
- the suspended engine mounting.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Refit:

- the right-hand suspended mounting support,
- the bolts for the right-hand suspended mounting support on the engine,
- the bolts mounting the suspended mounting on the body.

Torque tighten:

- the **right-hand suspended mounting support bolts on the engine (62 Nm)**,
- the **suspended mounting bolts on the body (62 Nm)**,

- the **right-hand rubber pad bolts (if changed) (105 Nm)**

II - FINAL OPERATION.

- ☐ Remove the **(Mot. 1453)**.

Refit:

- 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).

K4J or K4M

Special tooling required

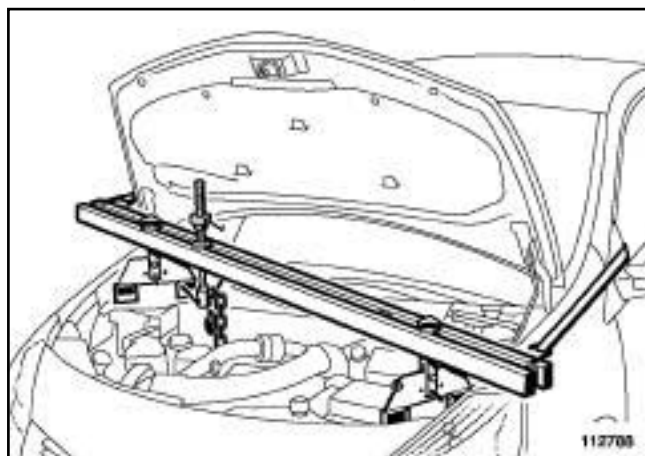
Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Tightening torques

bolts mounting the suspended mounting on the engine	62 Nm
bolts mounting the suspended mounting on the body	62 Nm
right-hand rubber pad mounting bolt (if it has been changed)	105 Nm

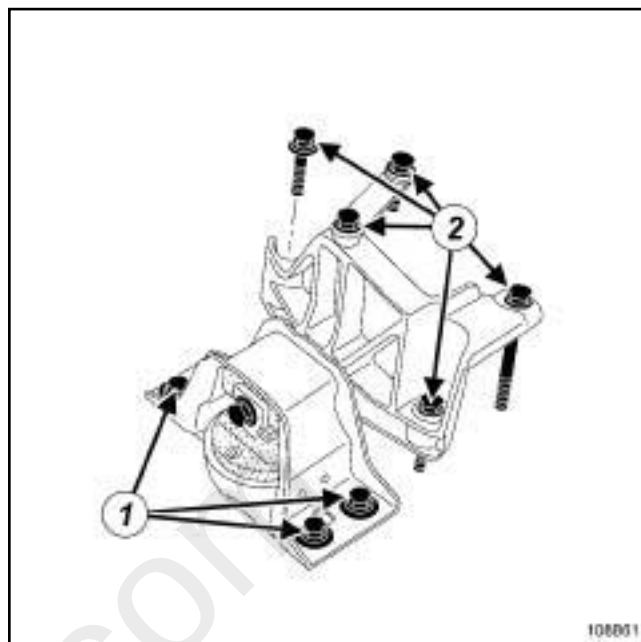
REMOVAL**I - REMOVAL PREPARATION OPERATION**

- ☐ 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).



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

II - OPERATION FOR REMOVAL OF PART CONCERNED

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- ☐ Remove
 - the suspended mounting bolts (1) on the body,
 - the suspended mounting bolts (2) on the engine,
 - the suspended engine mounting.

REFITTING**I - REFITTING OPERATION FOR PART CONCERNED**

- ☐ Refit the right-hand suspended mounting.
- ☐ Refit:
 - the bolts mounting the right-hand suspended mounting support on the engine,
 - the bolts mounting the suspended mounting on the body.
- ☐ Torque tighten:
 - the bolts mounting the suspended mounting on the engine (62 Nm),
 - the bolts mounting the suspended mounting on the body (62 Nm),
 - the right-hand rubber pad mounting bolt (if it has been changed) (105 Nm).

K4J or K4M

II - FINAL OPERATION.

- ☐ Remove the **(Mot. 1453)**.
- ☐ Refit:
 - 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).

K9K, and JR5 or TL4

Special tooling required

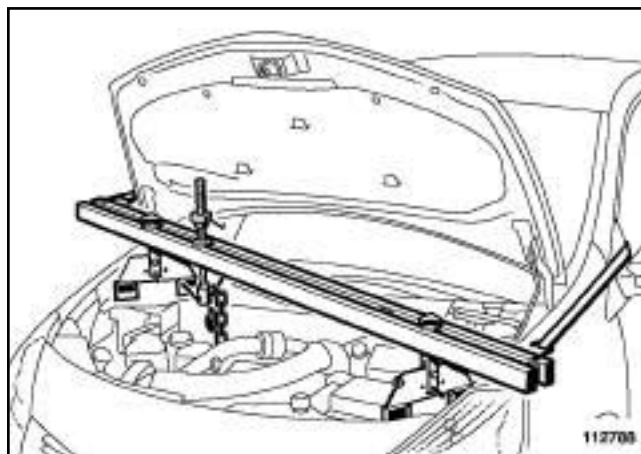
Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Tightening torques

bolt mounting the engine tie-bar on the body	105 Nm
bolts mounting the right-hand suspended mounting support on the engine	62 Nm
bolts mounting the suspended mounting on the body	62 Nm
right-hand rubber pad mounting bolt (if it has been changed)	105 Nm
bolt mounting the upper engine tie-bar on the suspended engine mounting (if it has been changed)	105 Nm

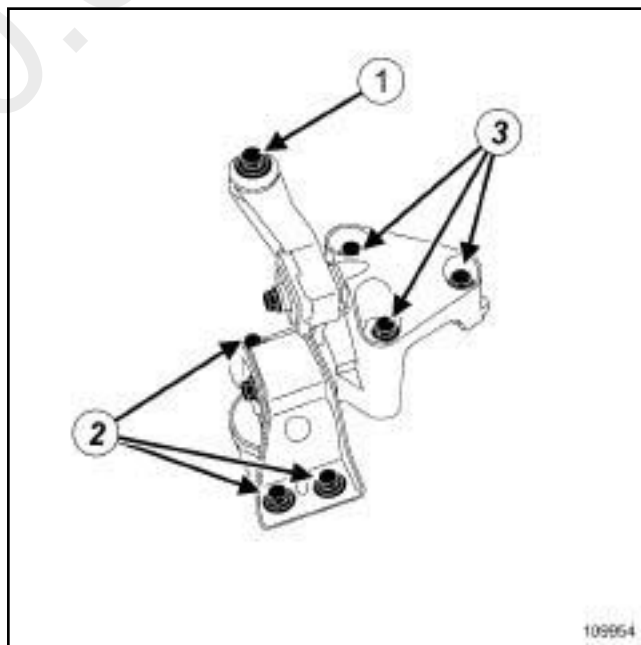
REMOVAL**I - REMOVAL PREPARATION OPERATION**

- ☐ 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).



112788

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

II - OPERATION FOR REMOVAL OF PART CONCERNED

109954

- ☐ Remove:
 - the bolt (1) mounting the engine tie-bar on the body,
 - the suspended mounting bolts (2) on the body,
 - the suspended mounting bolts (3) on the engine,
 - the suspended engine mounting.

K9K, and JR5 or TL4

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the right-hand suspended mounting.
- ☐ Refit:
 - the bolts mounting the right-hand suspended mounting support on the engine,
 - the bolts mounting the suspended mounting on the body,
 - the bolt mounting the engine tie-bar on the body.
- ☐ Torque tighten:
 - the **bolt mounting the engine tie-bar on the body (105 Nm)**,
 - the **bolts mounting the right-hand suspended mounting support on the engine (62 Nm)**,
 - the **bolts mounting the suspended mounting on the body (62 Nm)**,
 - the **right-hand rubber pad mounting bolt (if it has been changed) (105 Nm)**,
 - the **bolt mounting the upper engine tie-bar on the suspended engine mounting (if it has been changed) (105 Nm)**.

II - FINAL OPERATION.

- ☐ Remove the **(Mot. 1453)**.
- ☐ Refit:
 - 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).

M4R

Special tooling required

Mot. 1672 Lower engine support.

Tightening torques

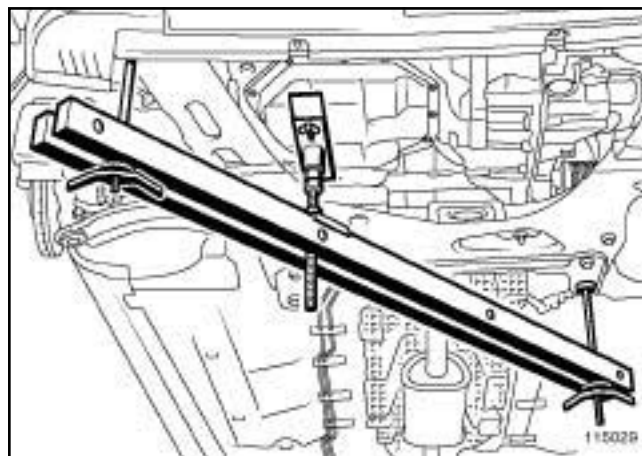
right-hand side radiator mounting cross member bolt **105 Nm**

left-hand subframe tie-rod bolt **105 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

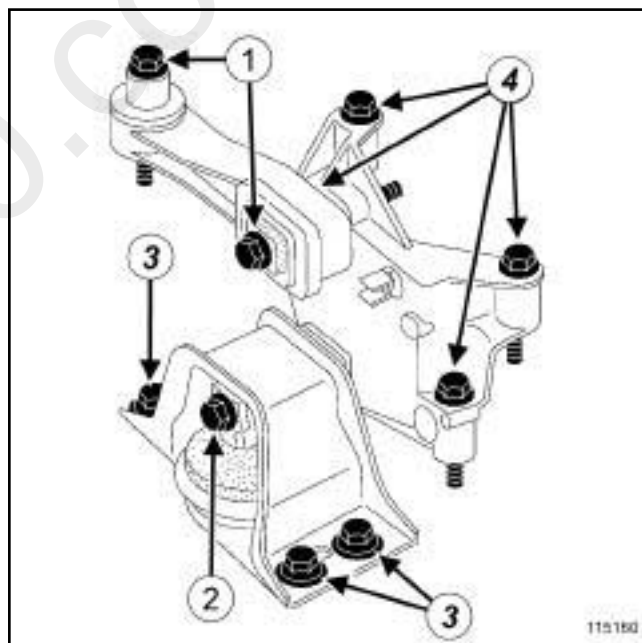
- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02, Lifting equipment).
- ☐ Remove:
 - the engine cover,
 - the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment),
 - the scoop under the scuttle panel grille (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 right-hand wheel arch liner bolts on the front bumper,
 - the bolt from the right-hand side radiator mounting cross member,
 - the subframe tie-rod bolt on the left-hand side.



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

II - OPERATION FOR REMOVAL OF PART CONCERNED



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- ☐ Remove:
 - the upper engine tie-bar bolts (1) ,
 - the upper engine tie-bar.
 - the bolt (2) from the rubber mounting bush on the engine cover,
 - the bolts (3) from the rubber mounting bush on the body,
 - the rubber mounting bush,
 - the bolts (4) from the engine cover,
 - the engine cover.

M4R

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

☐ Refit:

- the engine cover,
- the engine cover bolts,
- the rubber mounting bush,
- the bolts for the rubber mounting bush on the body,
- the bolt for the rubber mounting bush on the engine cover,
- the upper engine tie-bar.
- the upper engine tie-bar bolts.

☐ Torque tighten (see **19D, Engine mounting, Suspended engine mounting: Tightening torque**, page **19D-1**) :

- the engine cover bolts,
- the bolts for the rubber mounting bush on the body,
- the bolt for the rubber mounting bush on the engine cover,
- the upper engine tie-bar bolts.

II - FINAL OPERATION.

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

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

☐ Torque tighten:

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

☐ Refit:

- the right-hand wheel arch liner bolts on the front bumper.
- 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 cover.

F4R

Special tooling required

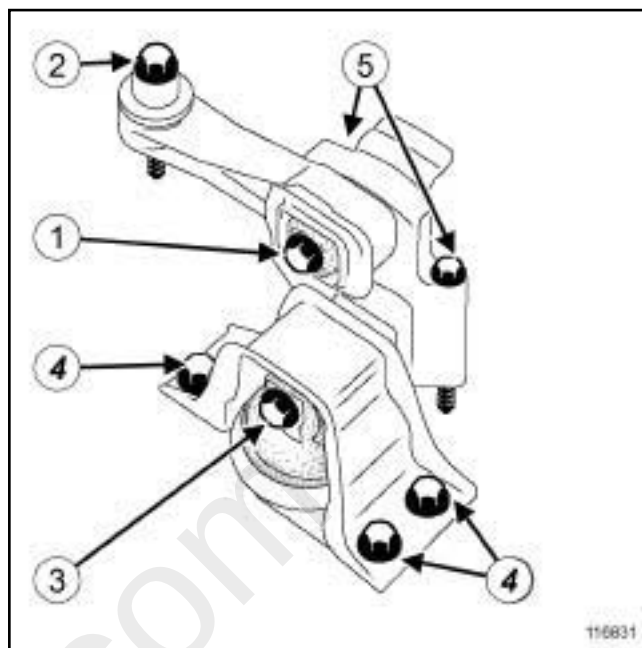
Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
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Tightening torques

suspended engine mounting bolt on the body side	62 Nm
suspended engine mounting bolt in the engine compartment	62 Nm
rubber pad mounting bolt	105 Nm
upper engine tie-bar mounting bolt in the engine compartment	105 Nm
upper engine tie-bar mounting bolt on the body	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).
- ☐ Have to hand the timing end 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).
- ☐ Fit the timing end lifting eye (see **11A, Top and front of engine, Lifting eyes: Removal - Refitting**, page 11A-305) .
- ☐ Fit the **(Mot. 1453)**.

II - OPERATION FOR REMOVAL OF PART CONCERNED

116831

☐ Remove:

- the upper engine tie-bar mounting bolt (1) in the engine compartment,
- the upper engine tie-bar mounting bolt (2) on the body,
- the upper engine tie-bar.
- the rubber pad mounting bolt (3) ,
- the suspended engine mounting bolts (4) on the body side,
- the suspended engine mounting bolts (5) in the engine compartment,
- the right-hand suspended engine mounting.

WARNING

Do not deform the air conditioning pipes.

REFITTING**I - REFITTING OPERATION FOR PART CONCERNED**

- ☐ Refit the right suspended engine mounting.

WARNING

Do not deform the air conditioning pipes.

F4R

☐ Refit:

- the suspended engine mounting bolts on the body side,
- the suspended engine mounting bolts in the engine compartment,
- the rubber pad mounting bolt.

☐ Torque tighten:

- the **suspended engine mounting bolt on the body side (62 Nm)**,
- the **suspended engine mounting bolt in the engine compartment (62 Nm)**,
- the **rubber pad mounting bolt (105 Nm)**.

☐ Refit:

- the upper engine tie-bar.
- the upper engine tie-bar mounting bolt in the engine compartment,
- the upper engine tie-bar mounting bolt on the body.

☐ Torque tighten:

- the **upper engine tie-bar mounting bolt in the engine compartment (105 Nm)**,
- the **upper engine tie-bar mounting bolt on the body (105 Nm)**.

II - FINAL OPERATION.☐ Remove:

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

☐ Refit:

- 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 timing end lifting eye and its mounting bolt in the luggage compartment (see **11A, Top and front of engine, Lifting eyes: Removal - Refitting**, page **11A-305**) .

K4M, and TL4

Special tooling required	
Mot. 1453	Engine anchorage support with multiple adjustments and retaining straps.
Mot. 1453-01	Additional handle nut for engine lifting support tool Mot. 1453.

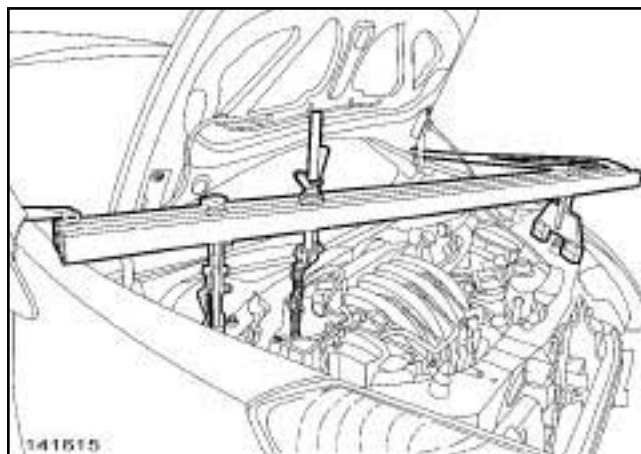
Equipment required
indelible pencil

Tightening torques 	
right-hand suspended engine mounting cover bolts	62 N.m
right-hand suspended engine mounting rubber pad bolts	62 N.m

REMOVAL

I - REMOVAL PREPARATION OPERATION

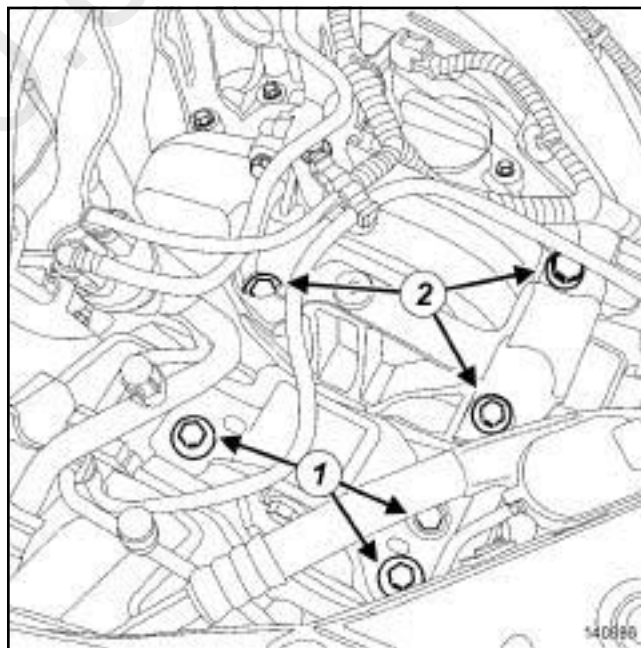
- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Towing and lifting).
- ☐ Remove:
 - the engine undertray bolts,
 - the engine undertray,
 - the windscreen wiper arms (see **Windscreen wiper arm: Removal - Refitting**) (85A, Wiping - Washing),
 - the scuttle panel 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).



141615

- ☐ Position the tool (**Mot. 1453**) and (**Mot. 1453-01**).
- ☐ Mark the position of the suspended engine mounting on the body using a **indelible pencil**.

II - OPERATION FOR REMOVAL OF PART CONCERNED



140886

- ☐ Remove the bolts (**1**) from the right-hand suspended engine mounting rubber pad.
- ☐ Slightly raise the engine using the tool (**Mot. 1453**) until the rubber pad detaches from the right-hand suspended engine mounting.
- ☐ Remove:
 - the bolts (**2**) from the right-hand suspended engine mounting cover,
 - the right-hand suspended engine mounting.