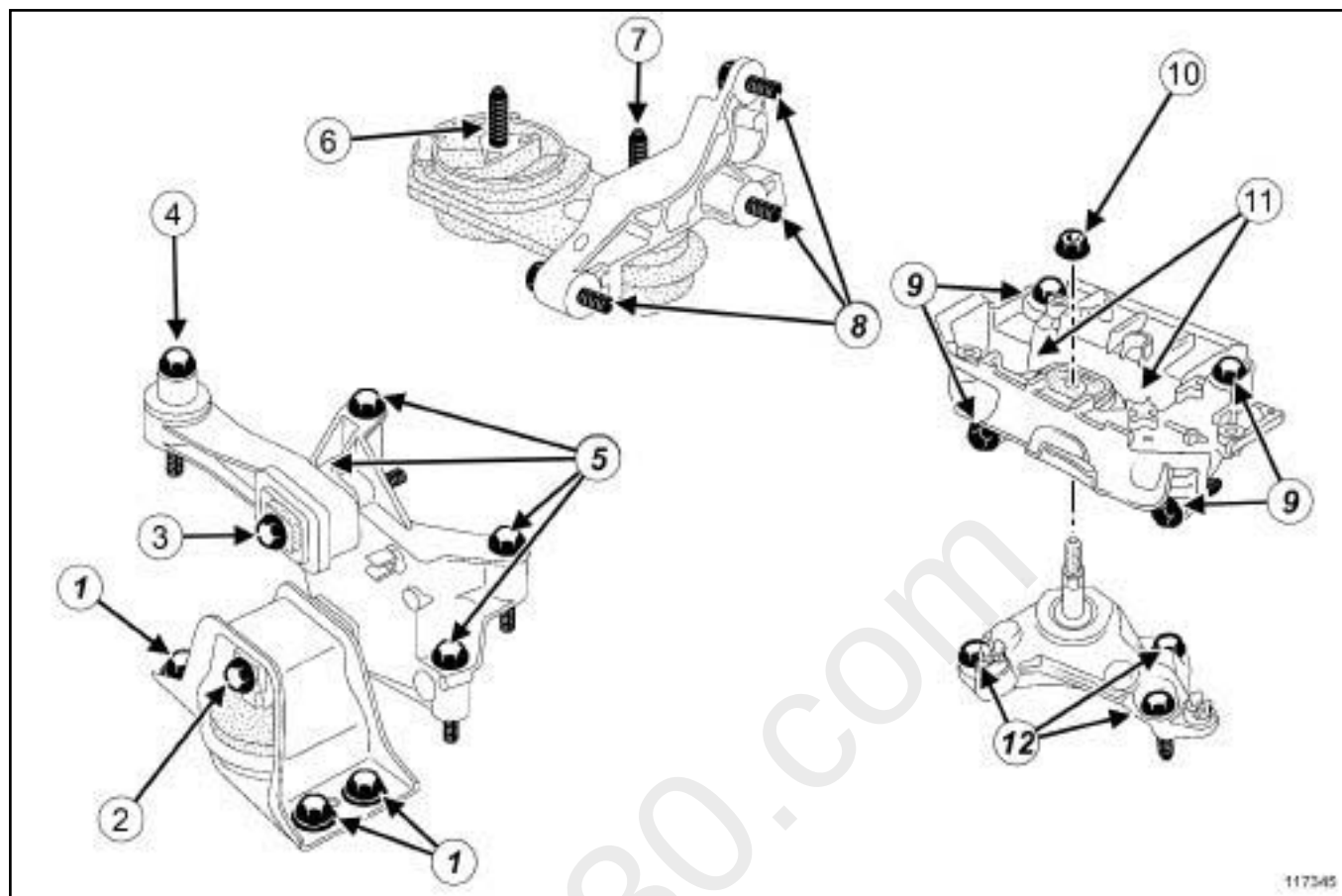


ENGINE MOUNTING

Suspended engine mounting: Tightening torque

19D

M4R, and TL4



117345

117345

Mark	Description	tightening torque (in Nm)
(1)	Rubber mounting bush bolts on the body	62
(2)	Rubber mounting bush bolts on the engine cover	105
(3)	Upper engine tie-bar bolts on the engine cover	105
(4)	Upper engine tie-bar bolts on the body	105
(5)	Engine cover bolts on the engine	62
(6)	Lower engine tie-bar bolts on the body	105
(7)	Lower engine tie-bar bolts on the engine mounting	180
(8)	Engine mounting bolts on the engine	62
(9)	Gearbox support bolts on the body	62
(10)	Gearbox cover nut on the gearbox support	62
(11)	Gearbox support rubber mounting bush nuts	62
(12)	Gearbox cover bolts on the gearbox	62

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

K9K

Tightening torques 	
engine tie-bar bolts	105 Nm
engine tie-bar bolt on its support	180 Nm
engine tie-bar bolt on the subframe	105 Nm

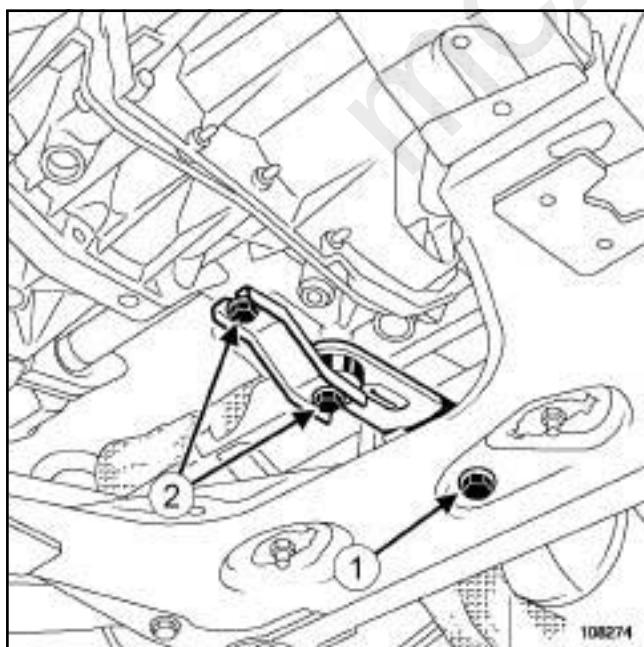
REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove the engine undertray.

II - OPERATION FOR REMOVAL OF PART CONCERNED

JH3 or JR5

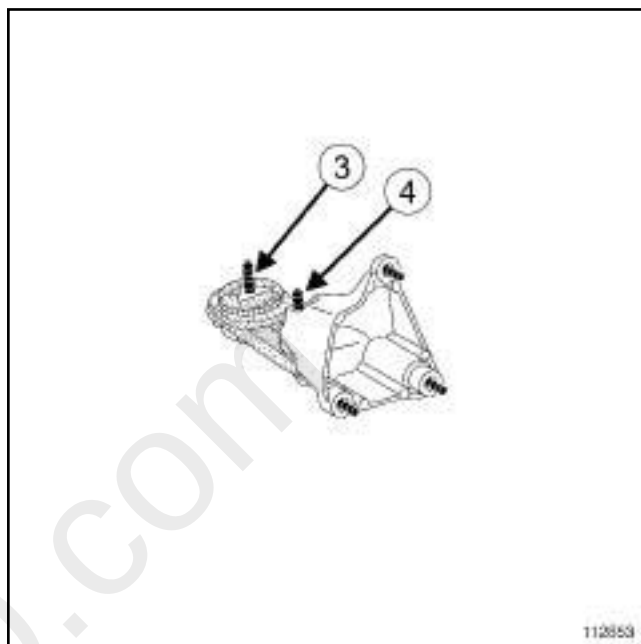


108274

- ☐ Remove:
 - the engine tie-bar bolt (1) on the subframe,

- the (2) engine tie-bar bolt on the gearbox.

TL4



112653

- ☐ Remove:
 - the engine tie-bar bolt (3) from the subframe,
 - the bolt (4) mounting the engine tie-bar on its support.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

JH3 or JR5

- ☐ Screw in without tightening the engine tie-bar bolts.
- ☐ Torque tighten the **engine tie-bar bolts (105 Nm)**.

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

K9K

TL4

- ☐ Refit:
 - the engine tie-bar bolt on its support,
 - the engine tie-bar bolt on the subframe.
- ☐ Screw in without tightening the engine tie-bar bolts.
- ☐ Torque tighten:
 - the **engine tie-bar bolt on its support (180 Nm)**,
 - the **engine tie-bar bolt on the subframe (105 Nm)**.

II - FINAL OPERATION.

- ☐ Refit the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

D4F or K4J

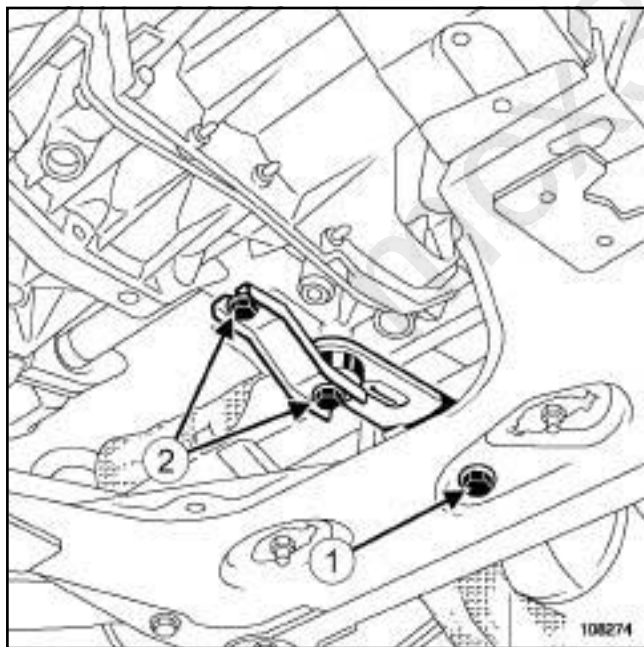
Tightening torques 	
engine tie-bar bolts on the gearbox	105 Nm
engine tie-bar bolt on the subframe	105 Nm

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove 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 anti-slide rod,
 - the engine tie-bar.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the engine tie-bar,
 - the anti-slide rod,
 - the engine tie-bar bolts on the gearbox,
 - the engine tie-bar bolt on the subframe.
- ☐ Torque tighten:
 - the **engine tie-bar bolts on the gearbox (105 Nm)**,
 - the **engine tie-bar bolt on the subframe (105 Nm)**.

II - FINAL OPERATION.

- ☐ Refit the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

K4M

Tightening torques 	
bolts mounting the engine tie-bar on the gearbox	62 Nm
bolts mounting the engine tie-bar on the gearbox	105 Nm
bolt mounting the engine tie-bar on the subframe	105 Nm

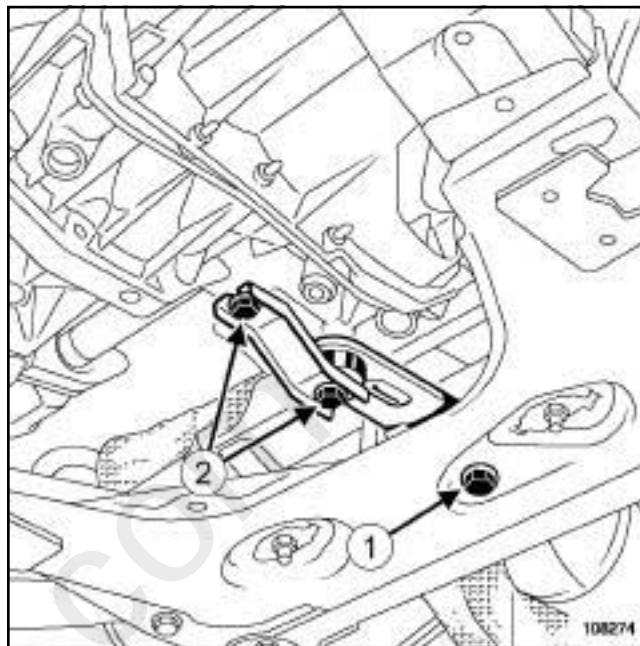
REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove the engine undertray.

II - OPERATION FOR REMOVAL OF PART CONCERNED

JR5



108274

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

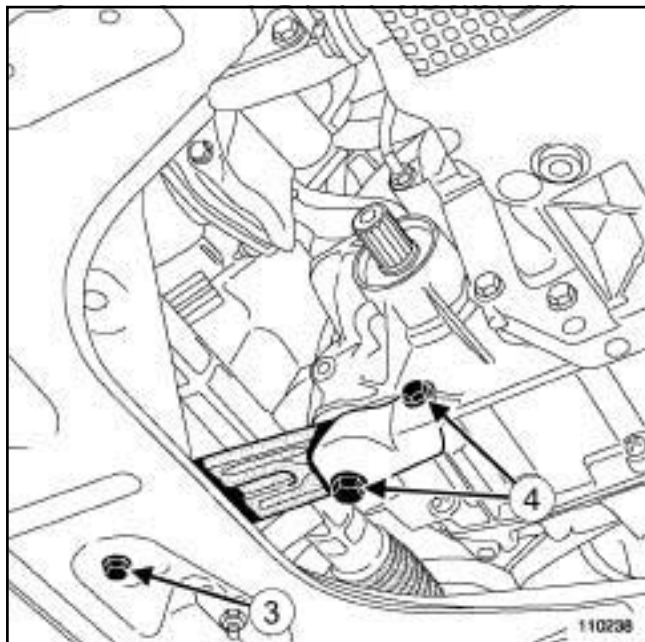
ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

K4M

DP0



110238



Remove:

- the mounting bolt (3) for the engine tie-bar on the subframe,
- the bolts (4) mounting the engine tie-bar on the gearbox.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

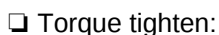


Refit:

- the bolts mounting the engine tie-bar on the gearbox,
- the bolt mounting the engine tie-bar on the subframe.

DP0

- ☐ Torque tighten the **bolts mounting the engine tie-bar on the gearbox (62 Nm)**



Torque tighten:

- the **bolts mounting the engine tie-bar on the gearbox (105 Nm)**,
- the **bolt mounting the engine tie-bar on the sub-frame (105 Nm)**.

II - FINAL OPERATION.



Refit the engine undertray.

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

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

M4R

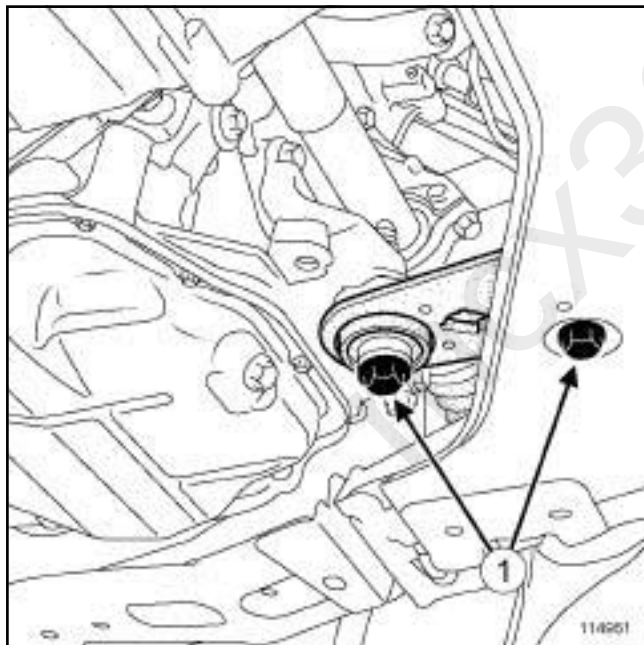
Tightening torques 	
engine tie-bar mounting bolt on the sub-frame	105 Nm
mounting bolt securing the engine tie-bar on the engine	180 Nm

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Fit the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) .
- ☐ Remove the engine undertray.

II - REMOVAL OF PART CONCERNED



- ☐ Remove:
 - the mounting bolts (1) from the engine tie-bar,
 - the engine tie-bar.

REFITTING

I - REFITTING PART CONCERNED

- ☐ Refit the engine tie-bar.

- ☐ Tighten to torque:

- the **engine tie-bar mounting bolt on the sub-frame (105 Nm)**,
- the **mounting bolt securing the engine tie-bar on the engine (180 Nm)**.

II - FINAL OPERATION

- ☐ Refit the engine undertray.

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

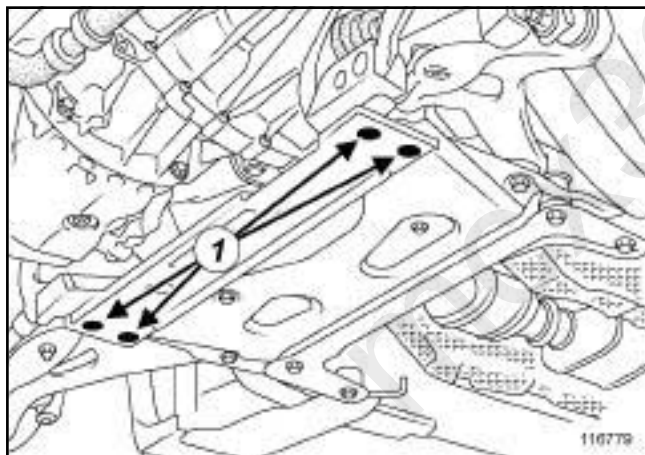
F4R

Tightening torques 	
lower engine tie-bar support mounting bolts	62 Nm
lower engine tie-bar mounting bolts on the support	180 Nm
lower engine tie-bar mounting bolts on the sub-frame	105 Nm

REMOVAL

I - REMOVAL PREPARATION OPERATION

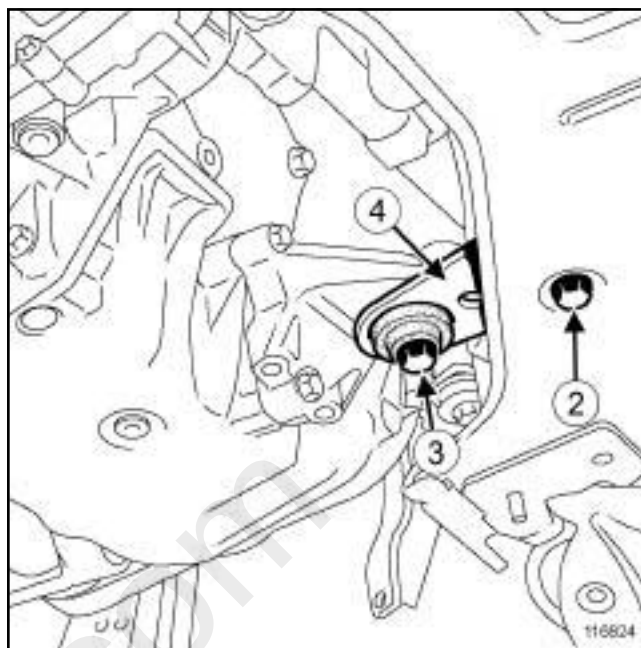
- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).



116779

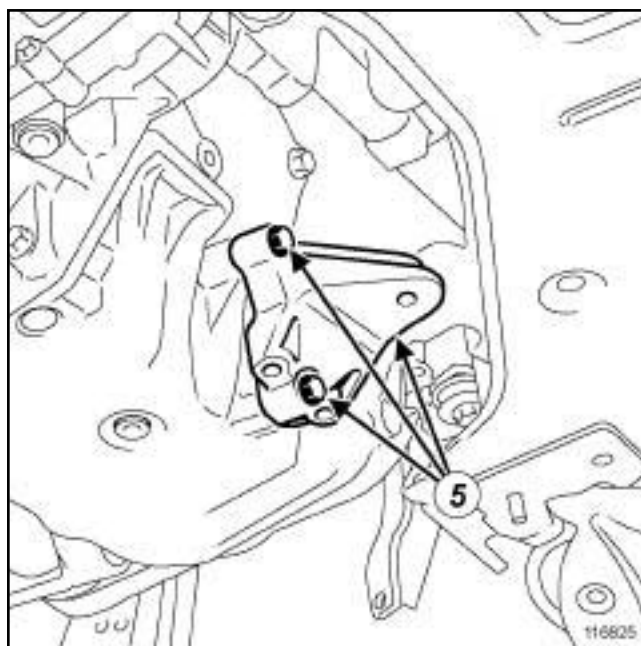
- ☐ Remove:
 - the engine undertray,
 - the sub-frame stiffener cross member mounting nuts (1) ,
 - the sub-frame stiffener cross member.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116824

- ☐ Remove:
 - the bolt (2) mounting the lower engine tie-bar on the sub-frame,
 - the bolt (3) mounting the lower engine tie-bar on the support,
 - the lower engine tie-bar (4) .



116825

- ☐ Remove:
 - the lower engine tie-bar support mounting bolts (5)

ENGINE MOUNTING

Lower engine tie-bar: Removal - Refitting

19D

F4R

- the lower engine tie-bar support.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

☐ Refit:

- the lower engine tie-bar support,
- the lower engine tie-bar support mounting bolts.

☐ Torque tighten the **lower engine tie-bar support mounting bolts (62 Nm)**.

☐ Refit:

- the lower engine tie-bar,
- the lower engine tie-bar mounting bolt onto the support,
- the lower engine tie-bar mounting bolt onto the sub-frame.

☐ Torque tighten:

- the **lower engine tie-bar mounting bolts on the support (180 Nm)**,
- the **lower engine tie-bar mounting bolts on the sub-frame (105 Nm)**.

II - FINAL OPERATION.

☐ Refit:

- the sub-frame stiffener cross member
- the sub-frame stiffener cross member mounting nuts.

☐ Torque tighten the cross member.

☐ Refit the engine undertray.

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