

ENGINE AND CYLINDER BLOCK ASSEMBLY

Oil-coolant heat exchanger: Removal - Refitting

10A

D4F, and 784

REFITTING

I - REMOVAL PREPARATION OPERATION

- ☐ Clean the bearing faces on the coolant-oil heat exchanger and the cylinder block.
- ☐ Always replace the coolant-oil heat exchanger seals.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the oil cooler,
 - the oil-coolant heat exchanger fitting.
- ☐ Torque tighten the **oil-coolant heat exchanger nipple (30 Nm)**.
- ☐ Connect the oil-coolant heat exchanger hoses.
- ☐ Refit the clips using the **(Mot. 1448)**.
- ☐ Remove the hose clamps **(Ms. 583)**.

III - FINAL OPERATION.

- ☐ Refit:
 - the oil filter (see **10A, Engine and cylinder block assembly, Oil filter: Removal - Refitting**, page **10A-20**) ,
 - the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Fill and bleed the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page **19A-16**) .

D4F, and 740 or 742 or 764

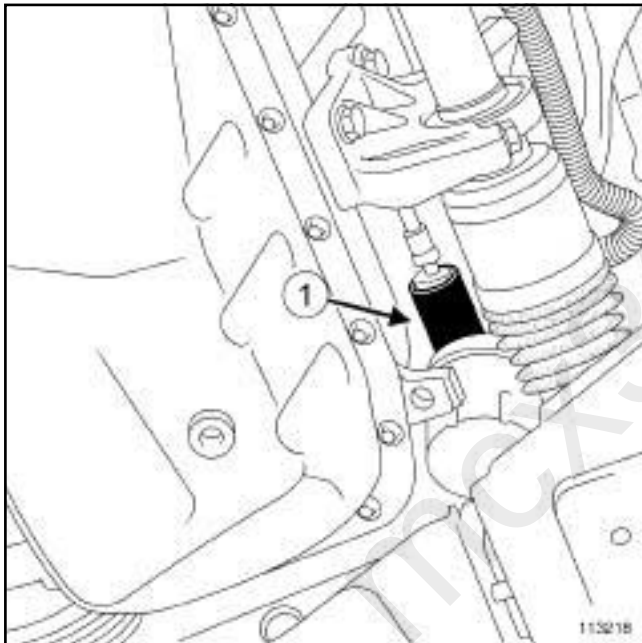
Tightening torques

oil pressure sensor	32 N.m
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REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Put the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) .
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) .
- ☐ Remove the engine undertray.



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- ☐ Unclip the connector cover (1) .
- ☐ Remove the oil pressure sensor connector.

II - OPERATION FOR REMOVAL OF PART CONCERNED

- ☐ Remove the oil pressure sensor.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the oil pressure sensor.
- ☐ Torque tighten the **oil pressure sensor (32 N.m)**.

II - FINAL OPERATION.

- ☐ Refit the oil pressure sensor connector.
- ☐ Clip the connector cover.
- ☐ Refit the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) .

K9K

Tightening torques

oil pressure sensor	40 N.m
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REMOVAL

I - REMOVAL PREPARATION OPERATION

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

II - OPERATION FOR REMOVAL OF PART CONCERNED

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the oil pressure sensor.
- ☐ Torque tighten the **oil pressure sensor (40 N.m)**.
- ☐ Connect the oil pressure sensor connector.

II - FINAL OPERATION

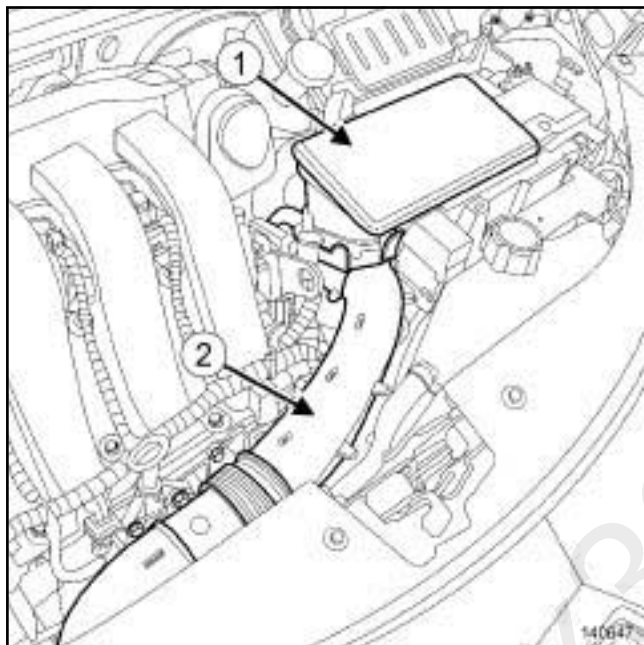
- ☐ Refit the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

K4J or K4M

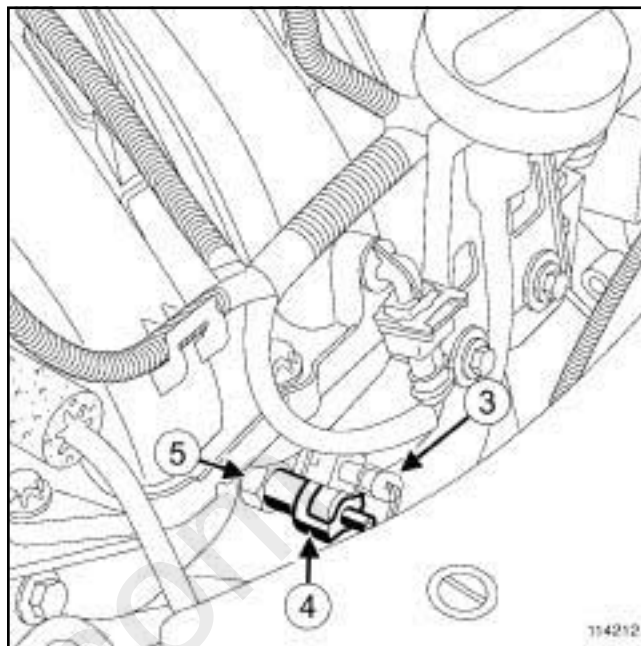
REMOVAL**I - REMOVAL PREPARATION OPERATION**

- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- ☐ Remove the front engine cover.

K4M, and 862



- ☐ Remove:
 - the air resonator (1) ,
 - the air inlet pipe (2) from the air filter unit.

II - OPERATION FOR REMOVAL OF PART CONCERNED

- ☐ Disconnect:
 - the pink sensor connector (3) ,
 - the oil pressure sensor connector (4) .
- ☐ Remove the oil pressure sensor (5) .

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

- ☐ Use **SURFACE CLEANER** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products) to degrease the bearing face of the oil pressure sensor on the cylinder block.
- ☐ Refit the oil pressure sensor.
- ☐ Connect:
 - the oil pressure sensor connector,
 - the pink sensor connector.

II - FINAL OPERATION

K4M, and 862

- ☐ Refit:
 - the air filter unit air inlet pipe,

K4J or K4M

- the air resonator.

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

M4R

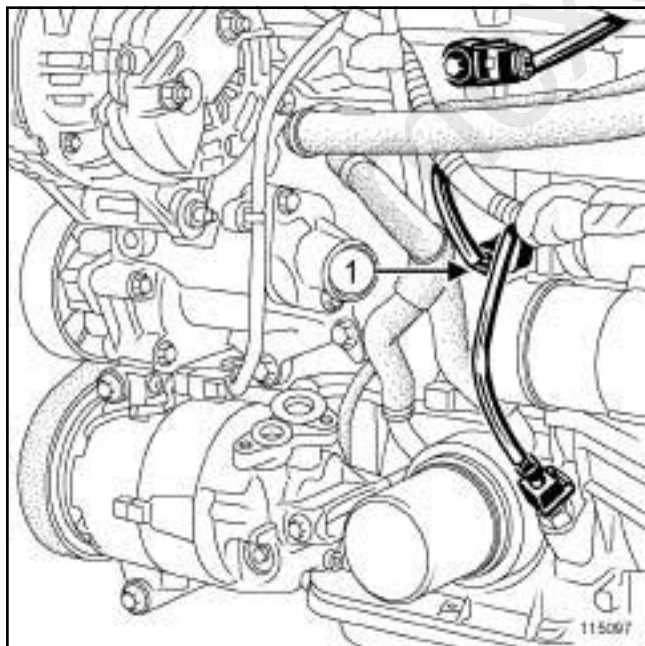
Tightening torques

oil pressure sensor	15 Nm
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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,
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
 - the frontal impact cross member (see **Front impact cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure),
 - the front end panel air resonator (see **12A, Fuel mixture, Air resonator: Removal - Refitting**, page 12A-10) .



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- ☐ Disconnect the oil pressure sensor connector (1) .

II - REMOVAL OF PART CONCERNED

- ☐ Remove the oil pressure sensor.

REFITTING

I - REFITTING PREPARATIONS OPERATION

- ☐ Coat the oil pressure sensor wire with **SILICONE ADHESIVE SEALANT (77 11 227 484)** to ensure a good seal.

II - REFITTING PART CONCERNED

- ☐ Refit the oil pressure sensor.
- ☐ Tighten to torque the **oil pressure sensor (15 Nm)**.

III - FINAL OPERATION.

- ☐ Connect the oil pressure sensor connector.
- ☐ Refit:
 - the front end panel air resonator (see **12A, Fuel mixture, Air resonator: Removal - Refitting**, page 12A-10) ,
 - the frontal impact cross member (see **Front impact cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
 - the engine undertray.
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

F4R

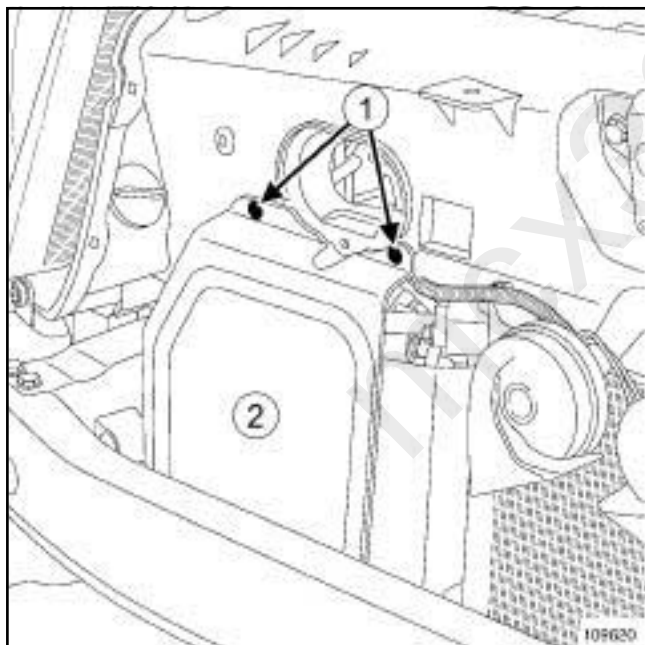
Tightening torques

oil pressure sensor	30 Nm
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REMOVAL

I - REMOVAL PREPARATION OPERATION

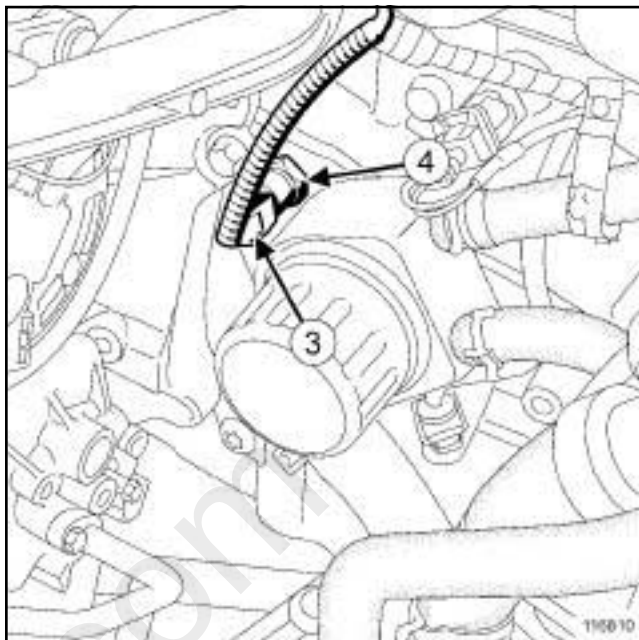
- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove:
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
 - the frontal impact cross member (see **Front impact cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure).



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- ☐ Remove:
 - the plastic cover retaining clips,
 - the plastic cover.

II - OPERATION FOR REMOVAL OF PART CONCERNED



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- ☐ Disconnect the oil pressure sensor connector (3) .
- ☐ Remove the oil pressure sensor (4) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the oil pressure sensor.
- ☐ Torque tighten the **oil pressure sensor (30 Nm)**.
- ☐ Connect the oil pressure sensor connector.

II - FINAL REFITTING OPERATION

- ☐ Position the plastic cover.
- ☐ Refit:
 - the plastic cover retaining clips,
 - the frontal impact cross member (see **Front impact cross member: Removal - Refitting**) (MR 393, 41A, Front lower structure),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).