

K4M

- the lower engine tie-bar (see **19D, Engine mounting, Lower engine tie-bar: Removal - Refitting**, page **19D-13**) .
- the starter (see **16A, Starting - Charging, Starter: Removal - Refitting**, page **16A-23**) ,
- the radiator mounting cross member (see **Radiator mounting cross member: Removal - Refitting**) (41A, Front lower structure),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- 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 air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) ,
- the battery tray (see **Battery tray: Removal - Refitting**) (80A, Battery),
- the battery (see **Battery: Removal - Refitting**) (80A, Battery),
- the engine undertray,
- the air filter unit air inlet pipe,
- the air resonator.

D4F or K4J or K4M or K9K

Special tooling required	
Mot. 1018	8 mm square engine drain plug spanner.

Equipment required
oil recovery tray
oil change wrench
torque wrench
oil change end piece with an 8 mm square drive

Tightening torques 	
drain plug	20 N.m

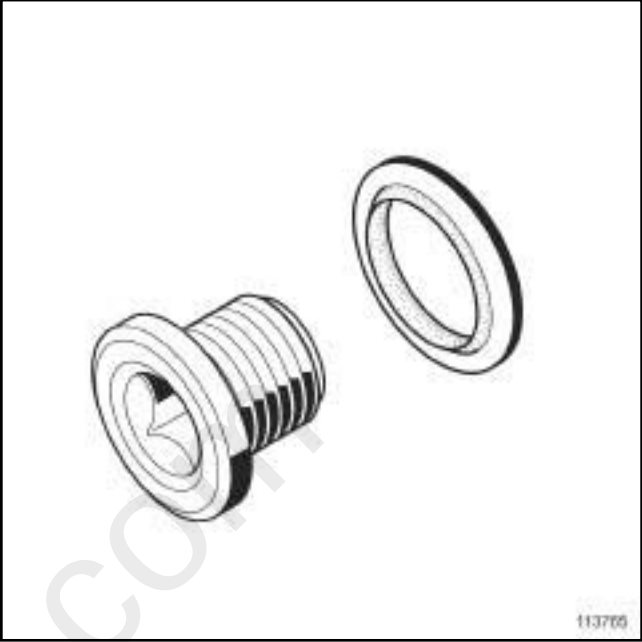
Engine	Average oil capacity (adjust with dipstick) (l)	
	Draining	Oil change plus oil filter replacement
K4J	4.9	5
K4M	4.9	5
K9K	4.4	4.5
D4F	3.8	4

I - RECOMMENDATIONS FOR REPAIR

☐ Direction of fitting of the drain plug seal.

K4J or K4M or K9K

For an aluminium engine oil sump



113765

☐ There is no direction of fitting for a seal fitted with a rubber lip.

D4F or K4J or K4M or K9K

D4F

For a sheet metal engine oil sump



113764

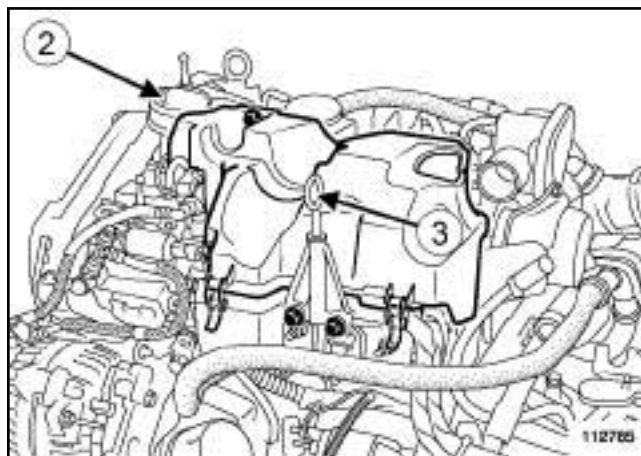
- ☐ Position the slot (1) of the seal towards the drain plug.

II - PARTS AND CONSUMABLES FOR REPAIR

- ☐ parts always to be replaced: Drain plug seal on engine oil sump (10,03,01,04).
- ☐ Consumable:
 - engine oil (see **Engine oil: Specifications**) (Technical Note 6013A, 04A, Lubricants).

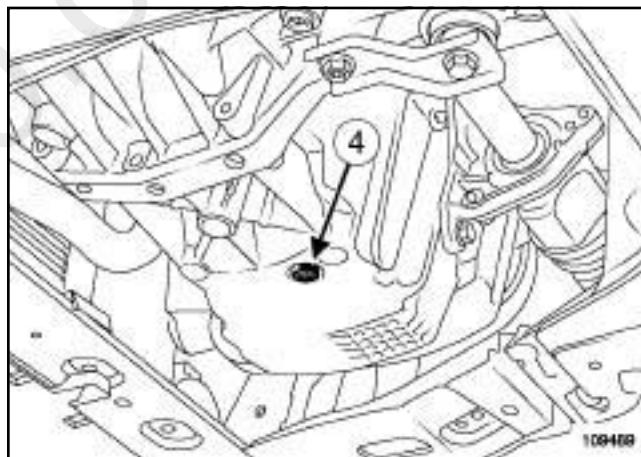
III - DRAINING

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).



112785

- ☐ Remove
 - the engine oil filler cap (2) ,
 - the dipstick (3) ,
 - the engine undertray.
- ☐ Place the **oil recovery tray** under the engine.



109489

- ☐ Remove the drain plug (4) from the engine oil sump using the **(Mot. 1018)** or a **oil change wrench**.
- ☐ Let the engine oil flow out.
- ☐ Remove the seal from the drain plug.
- ☐ Fit the new seal on the drain plug, positioning it correctly.
- ☐ Screw the drain plug onto the engine oil sump.
- ☐ Torque tighten the **drain plug (20 N.m)** using a **torque wrench** and a **oil change end piece with an 8 mm square drive**.
- ☐ Use a cloth to wipe away any oil drips on the engine oil sump.
- ☐ Remove the **oil recovery tray**.
- ☐ Refit the engine undertray.

Engine oil: Draining - Refilling

D4F or K4J or K4M or K9K

IV - FILLING

**WARNING**

Always check the oil level using the dipstick.

Do not exceed the maximum level on the dipstick (could destroy the engine).

Correct the engine oil level if necessary before delivering the vehicle to the customer.

Note:

Prevent oil outflow on the engine to avoid damaging the surrounding components.

- ☐ Use a funnel to fill the engine with engine oil recommended by the manufacturer (see **Engine oil: Specifications**) (Technical Note 6013A, 04, Lubricants).

Note:

When filling up the engine oil, always leave at least **10 minutes** for the oil to drain down before checking the level on the dipstick.

- ☐ Top up the oil level if necessary.

- ☐ Refit:

- the engine oil filler cap,
- the dipstick.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Engine oil: Draining - Refilling

10A

M4R

Equipment required

oil recovery tray

funnel

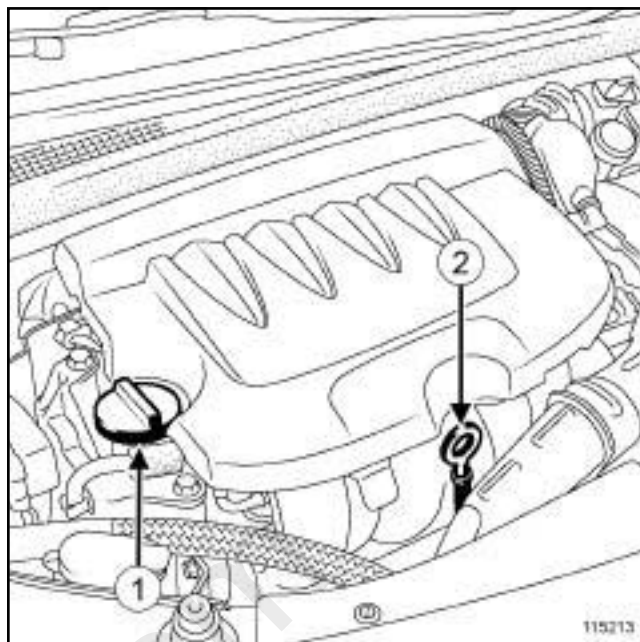
Tightening torques

drain plug **34 N.m**

Engine	Average oil capacity (use dipstick)	
	Draining	Oil change plus oil filter replacement
M4R Without removal - refitting of sump	3.3	3.5
M4R With removal - refitting of sump	4.2	4.4

I - DRAINING

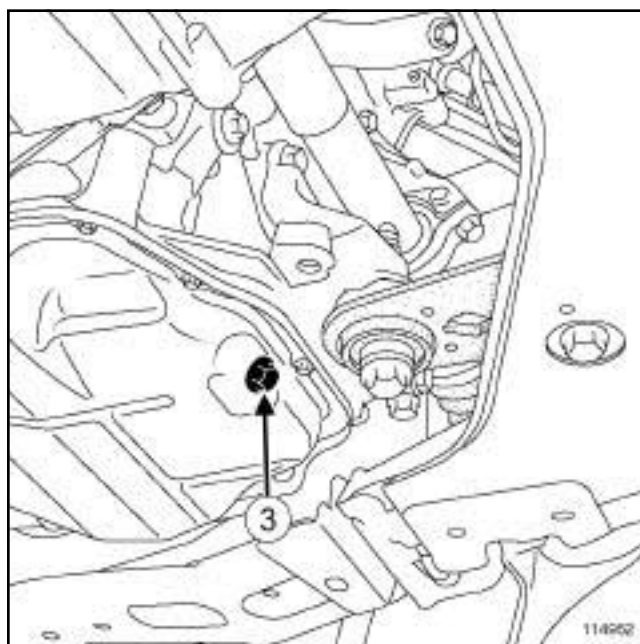
- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) .



115213

- ☐ Remove:

- the oil filler cap (1) ,
- the dipstick (2) .

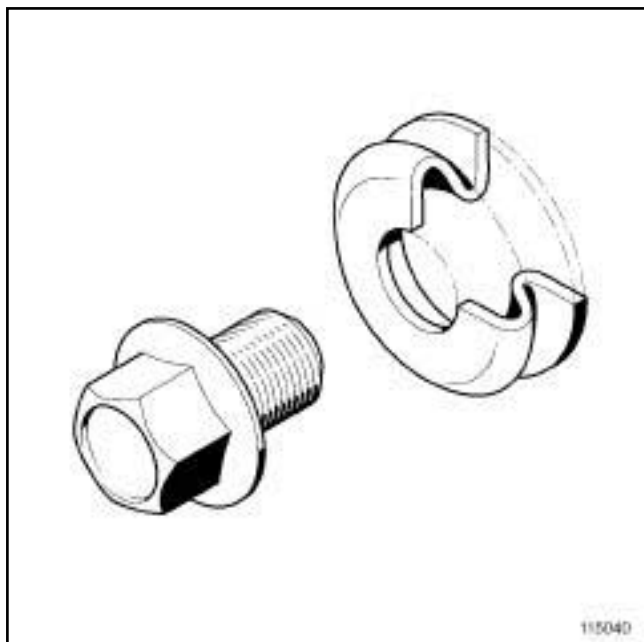


114952

- ☐ Fit a **oil recovery tray** under the engine oil drain plug.
- ☐ Remove the drain plug (3) .
- ☐ Allow the engine oil to flow into the oil recovery container.

Engine oil: Draining - Refilling

M4R



115040

- ☐ Refit the new seal onto the drain plug, respecting the direction indicated in the diagram.
- ☐ Torque tighten the **drain plug (34 N.m)**.
- ☐ Clean the traces of oil around the drain plug so that any possible leaks can be detected.

II - FILLING

☐**WARNING**

Always check the oil level using the dipstick.

Do not exceed the maximum level on the dipstick (as this could damage the engine).

Correct the engine oil level if necessary before delivering the vehicle to the customer.

Note:

Prevent oil outflow on the engine to avoid damaging the surrounding components.

- ☐ Use a **funnel** to fill the engine with engine oil recommended by the manufacturer (see **Engine oil: Specifications**) (Technical Note 6013A, 04, Lubricants)

Note:

When filling up the engine oil, always leave at least **10 minutes** for the oil to drain down before checking with a dipstick

☐ Check the oil level with the dipstick.☐ Refit the engine oil filler cap.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Engine oil: Draining - Refilling

10A

F4R

Special tooling required

Mot. 1018 8 mm square engine drain plug spanner.

Equipment required

oil recovery tray

oil change end piece with an 8 mm square drive

funnel

Tightening torques

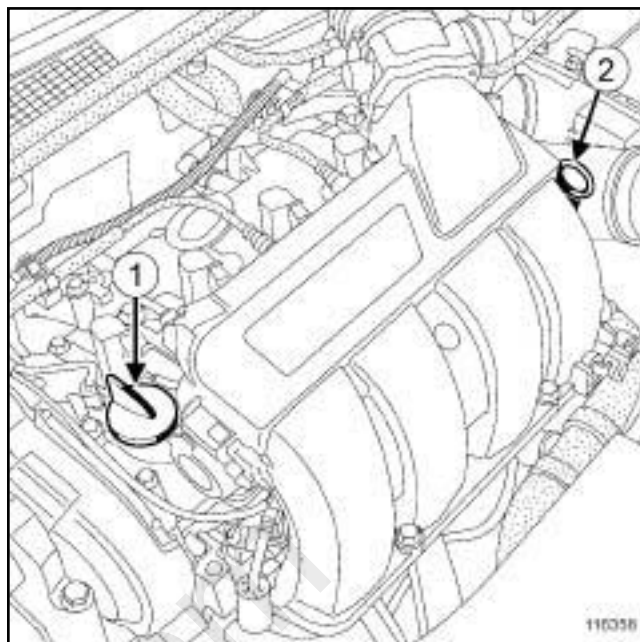
drain plug **20 N.m**

Engine	Average oil capacity (use dipstick)	
	Draining	Oil change plus oil filter replacement
F4R	5.2	5.4

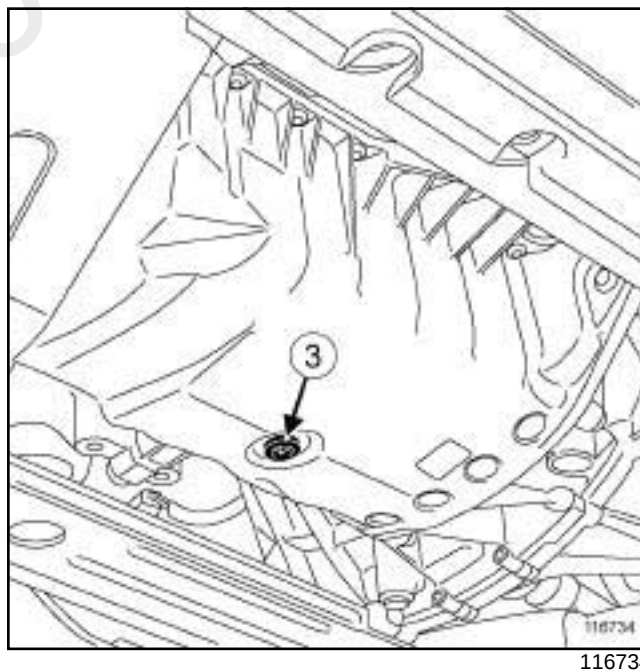
- ☐ parts always to be replaced: Drain plug seal on engine oil sump (10,03,01,04)

I - DRAINING

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).



- ☐ Remove:
- the oil filler cap (1) ,
 - the dipstick (2) .



- ☐ Fit a **oil recovery tray** under the drain plug (3) .
- ☐ Remove the drain plug (3) using the **(Mot. 1018)**.
- ☐ Allow the engine oil to flow into the oil recovery container.