

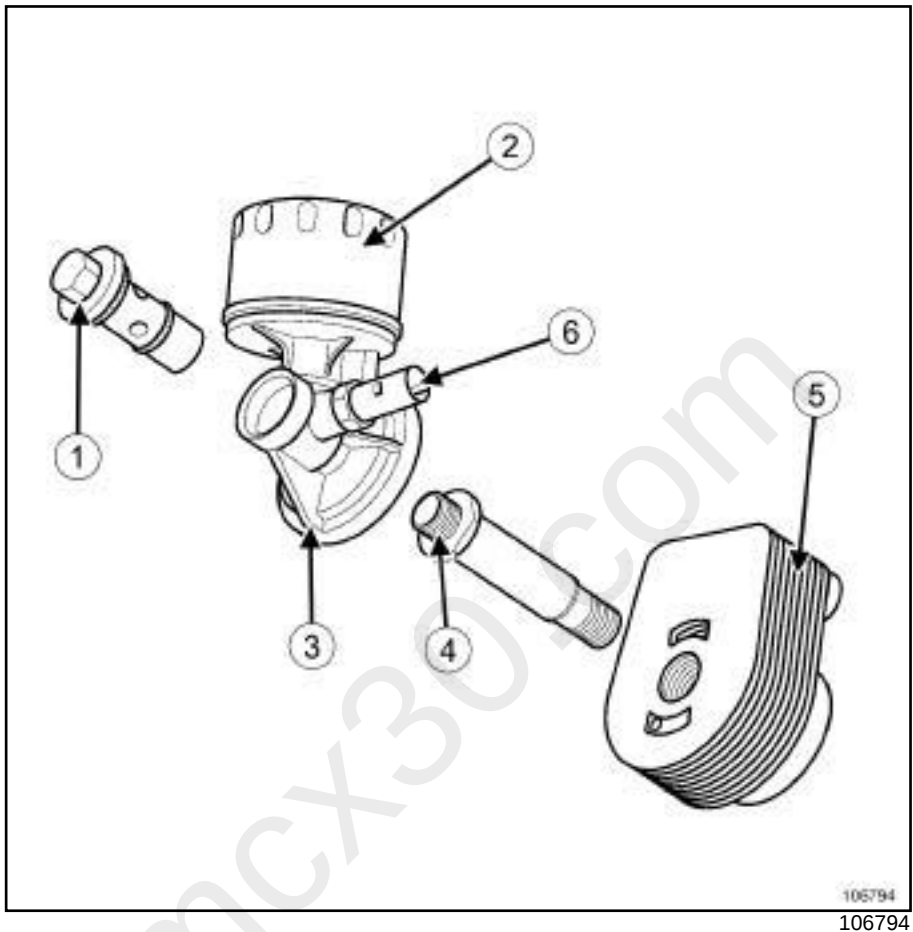
K4M

- ☐ Top up the engine oil level to the dipstick if necessary (see **10A, Engine and cylinder block assembly, Engine oil: Draining - Refilling**, page **10A-32**)

K9K, and 796

Tightening torques

oil heat exchanger bolt	39 N.m
oil filter support bolt	28 N.m



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- (1) Oil filter holder mounting bolt
- (2) Oil filter
- (3) Oil filter holder
- (4) Coolant - oil heat exchanger mounting bolts
- (5) Coolant - oil heat exchanger
- (6) Oil pressure sensor

☐

REMOVAL

REMOVAL PREPARATION OPERATION

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

- the engine undertray,
- the closure panel component under the diesel filter.

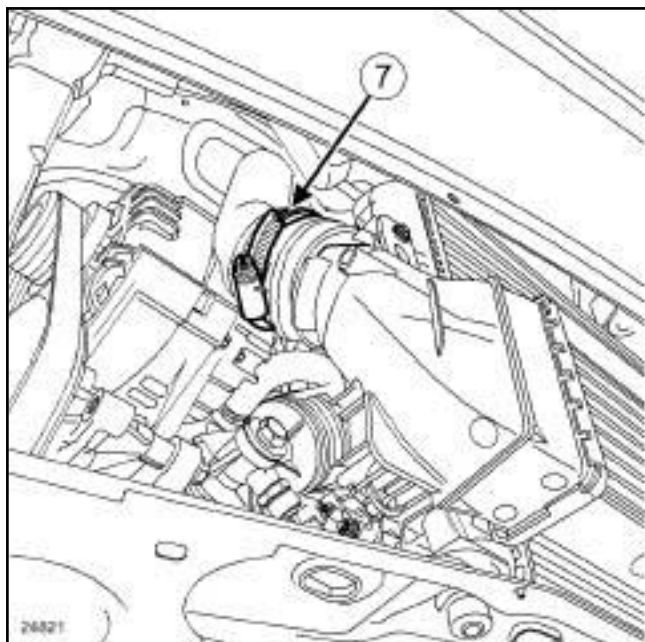
☐ Drain the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page 19A-6) .

ENGINE AND CYLINDER BLOCK ASSEMBLY

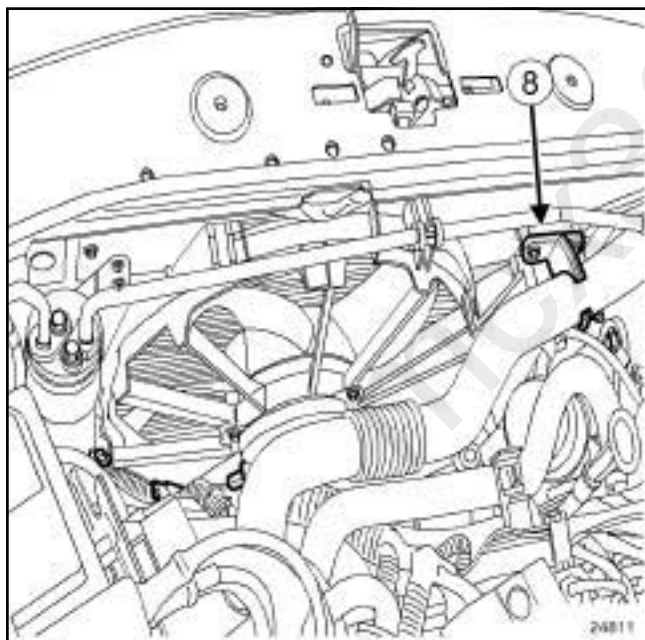
Oil-coolant heat exchanger: Removal - Refitting

10A

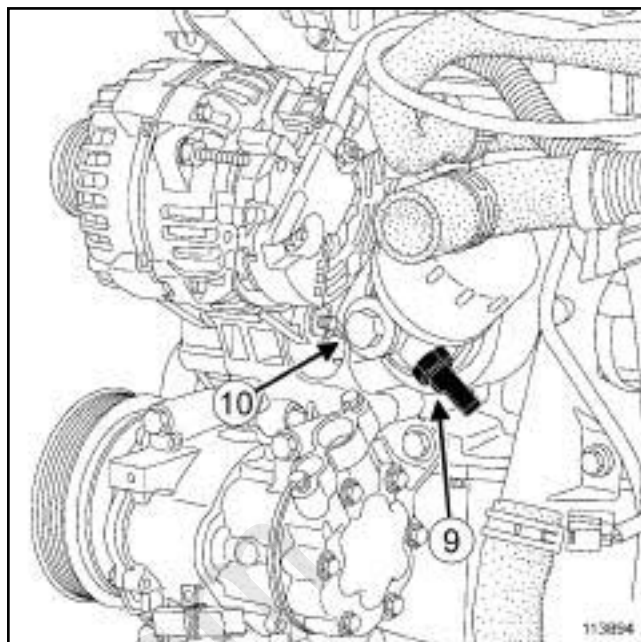
K9K, and 796



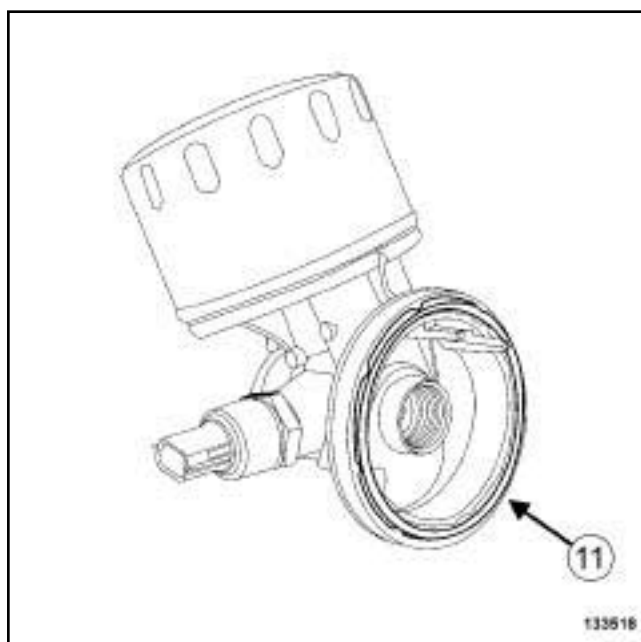
- ❑ Disconnect the air outlet duct (7) on the intercooler.



- ❑ Move aside the air outlet duct.
- ❑ Remove the air outlet duct support (8) from the fan assembly mounting.



- ❑ Disconnect the oil pressure sensor connector (9) .
- ❑ Place a container under the engine on the oil filter side.
- ❑ Remove the bolt (10) from the oil filter support.
- ❑ Remove the oil filter support.



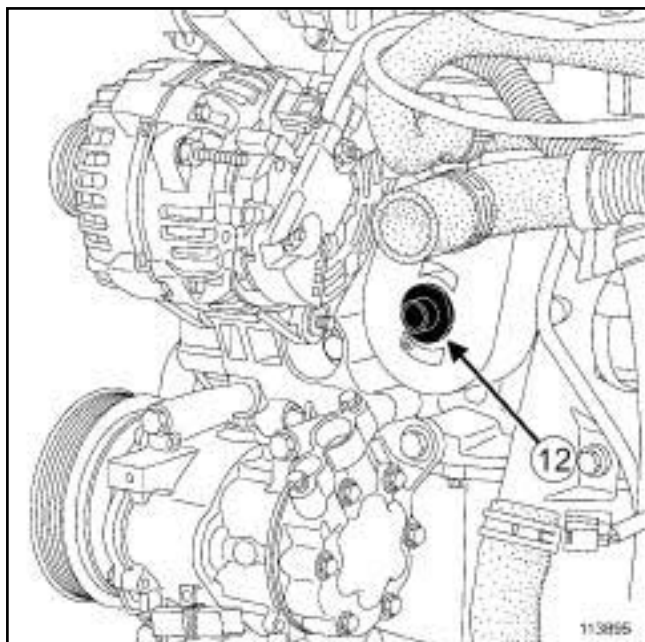
- ❑ Remove the seal (11) from the oil filter support.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Oil-coolant heat exchanger: Removal - Refitting

10A

K9K, and 796



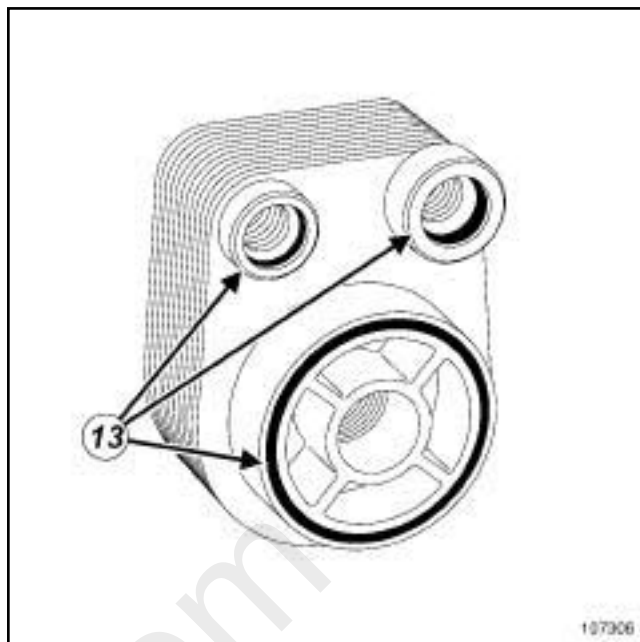
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- ❑ Remove:
 - the bolt (12) from the oil-coolant heat exchanger,
 - the oil-water heat exchanger.
- ❑ Using a clean cloth, clean up any oil and coolant runs on the cylinder block and on the oil filter support.

REFITTING

I - REFITTING PREPARATION OPERATION

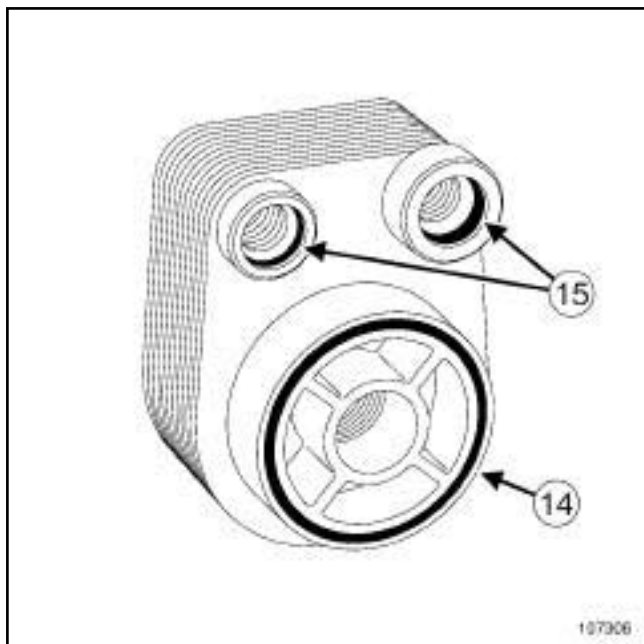
- ❑ **parts always to be replaced: coolant-engine oil heat exchanger seal on the cylinder block.**
- ❑ Always replace:
 - the seals of the oil filter support bolt,
 - the oil filter support seal.



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- ❑ Remove the oil-water heat exchanger seals (13) .
- ❑ Use **SURFACE CLEANER** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products) to clean and degrease:
 - the housing of each seal in the oil-water heat exchanger if it is to be reused,
 - the oil-coolant heat exchanger seal face if it is to be reused,
 - the mating face of each seal on the coolant pump inlet pipe,
 - the joint face on the cylinder block,
 - the housing of each oil filter support seal,
 - the housing of each seal in the oil filter support.

K9K, and 796



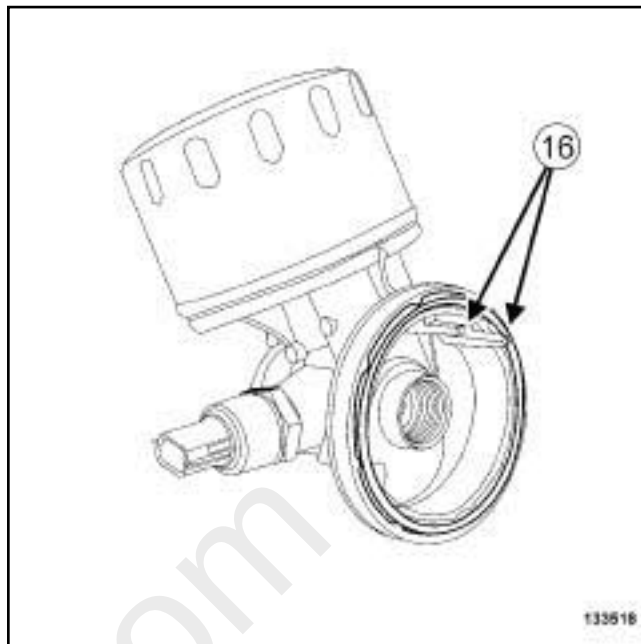
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- ☐ Refit new seals (14) and (15) on the oil-water heat exchanger.
- ☐ Apply soapy water to the two seals (15) in contact with the coolant pump inlet pipe.

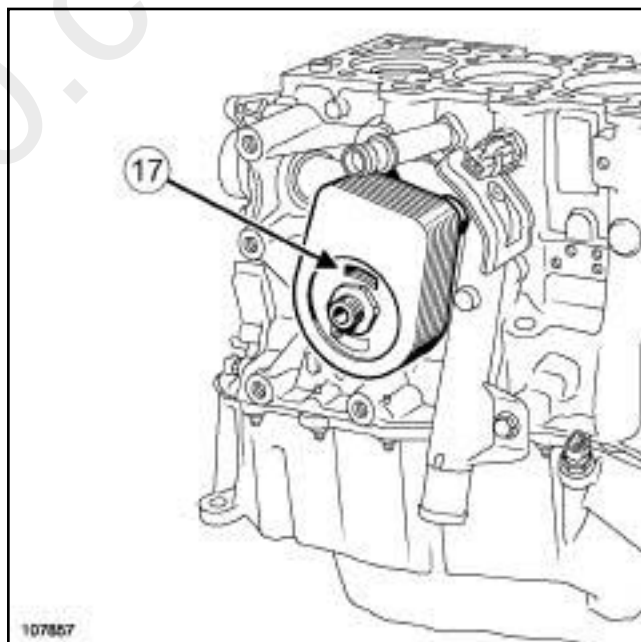
II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the oil-water heat exchanger.
- ☐ Torque tighten the **oil heat exchanger bolt (39 N.m)**.

III - FINAL OPERATION



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- ☐ Refit:
 - a new seal in the housing of the oil filter support,
 - the oil filter support, positioning the lug (16) in the hole (17) of the oil-water heat exchanger.
- ☐ Refit the oil filter holder bolt.
- ☐ Torque tighten the **oil filter support bolt (28 N.m)**.
- ☐ Connect the oil pressure sensor connector.
- ☐ Refit the air outlet duct support on the fan assembly mounting.