



Torque tighten the oil-coolant heat exchanger bolts([see 10A, Engine and cylinder block assembly, Engine oil circuit assembly: Exploded view](#)) .



Proceed in the reverse order to removal.



Perform the following operations:

-
- top up the engine oil with oil recommended by the manufacturer(see **Petrol engine oils: Specifications**) ,
- top up the cooling system,
- bleed the cooling system([see 19A, Cooling, Cooling system: Draining - Refilling](#)) .



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OIL-COOLANT HEAT EXCHANGER: REMOVAL - REFITTING

Special tooling required

Remote operation pliers for hose clips.

Mot. 1448

Pipe clamps.

Ms. 583



parts always to be replaced:



coolant-engine oil heat exchanger seal on the cylinder block

Locations and specifications (tightening torques, parts always to be replaced, etc.) ([see 10A, Engine and cylinder block assembly, Engine oil circuit assembly: Exploded view](#)) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

 Position the vehicle on a two post lift [Vehicle: Towing and lifting](#) .

 Remove:



the engine undertray bolts,



the engine undertray.

2. REMOVAL OPERATION



Fit the tool Pipe clamps. (Ms. 583) on to the pipes of the oil-coolant heat exchanger [Coolant circuit assembly: Exploded view](#) .



Move aside with the tool Remote operation pliers for hose clips. (Mot. 1448) the coolant pipe clips of the oil-coolant heat exchanger [Coolant circuit assembly: Exploded view](#) .



Disconnect the pipes of the oil-coolant heat exchanger [Coolant circuit assembly: Exploded view](#) .

Remove [\(see 10A, Engine and cylinder block assembly, Engine oil circuit assembly: Exploded view\)](#) :

-
- the oil-coolant heat exchanger bolts,
- the oil-coolant heat exchanger,
- the oil-coolant heat exchanger seals.

REFITTING

1. REFFITTING PREPARATION OPERATION

parts always to be replaced:  [coolant-engine oil heat exchanger seal on the cylinder](#)
 [block](#) .

Clean and degrease the bearing faces of the oil coolant heat exchanger and the cylinder block with SURFACE CLEANER [Vehicle: Parts and consumables for the repair](#) .

2. REFFITTING OPERATION

Refit [\(see 10A, Engine and cylinder block assembly, Engine oil circuit assembly: Exploded view\)](#) :

-
- the new seal on the oil-coolant heat exchanger,
- the oil-coolant heat exchanger.

Torque tighten the oil-coolant heat exchanger bolts [\(see 10A, Engine and cylinder block assembly, Engine oil circuit assembly: Exploded view\)](#) .