

Proceed in the reverse order to removal.



Top up with engine oil recommended by the manufacturer([see 10A, Engine and cylinder block assembly, Engine oil - Oil filter : Draining - Filling](#)) .



Repair-10x02x01x09-01x37-1-125-1.xml



XSL version : 3.02 du 22/07/11

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ROCKER COVER: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



parts always to be replaced:

rocker cover seal

Locations and specifications (tightening torques, parts always to be replaced, etc...)([see 11A, Top and front of engine, Cylinder head assembly: Exploded view](#)) .

REMOVAL

1. REMOVAL PREPARATION OPERATION



Disconnect the battery [Battery: Removal - Refitting](#) .



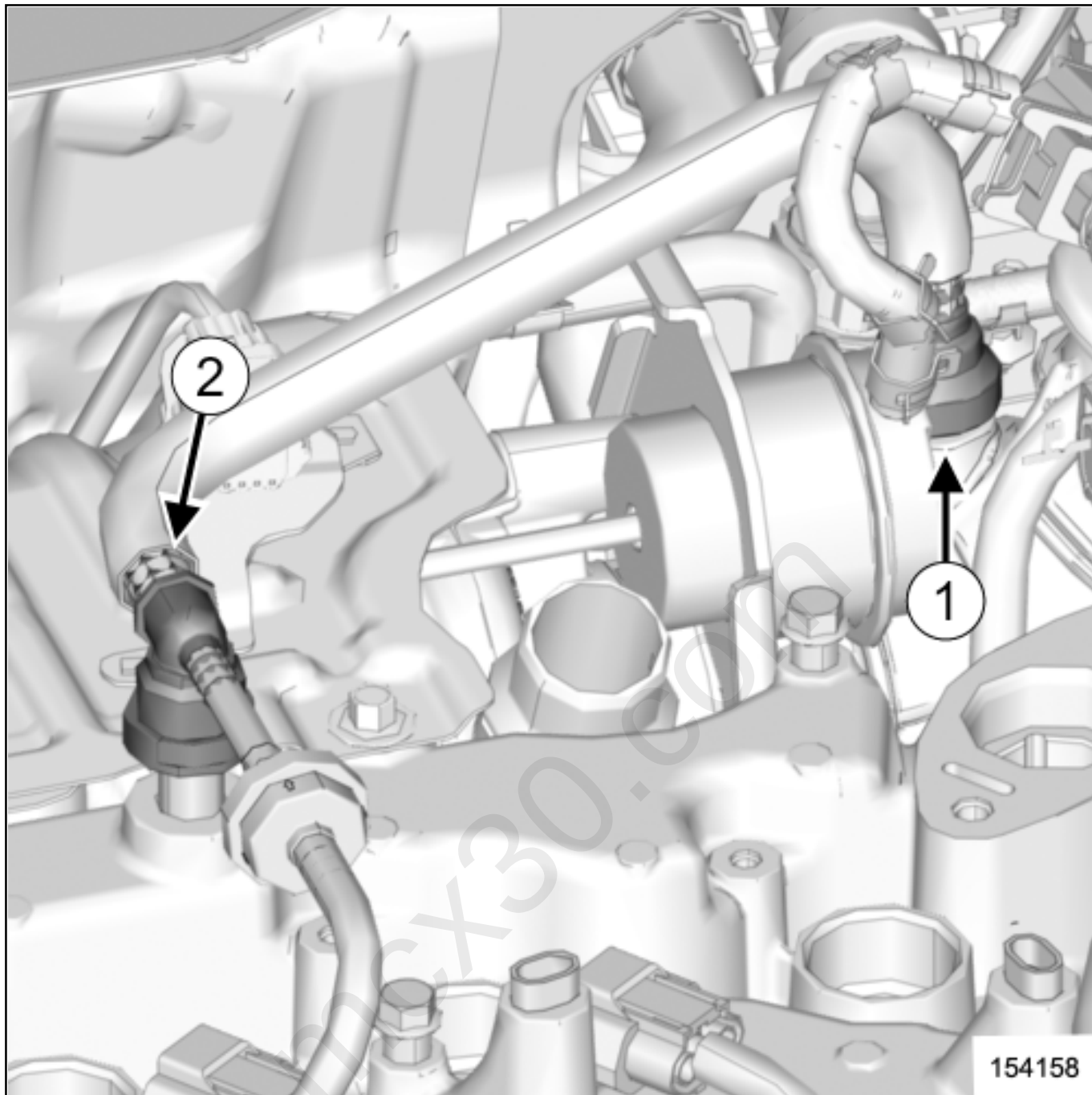
Remove:



the intercooler air inlet pipe [Air inlet assembly: Exploded view](#) ,

the throttle valve [Air inlet assembly: Exploded view](#) ,

the high pressure pump (see **Petrol injection: List and location of components**) .



Disconnect:

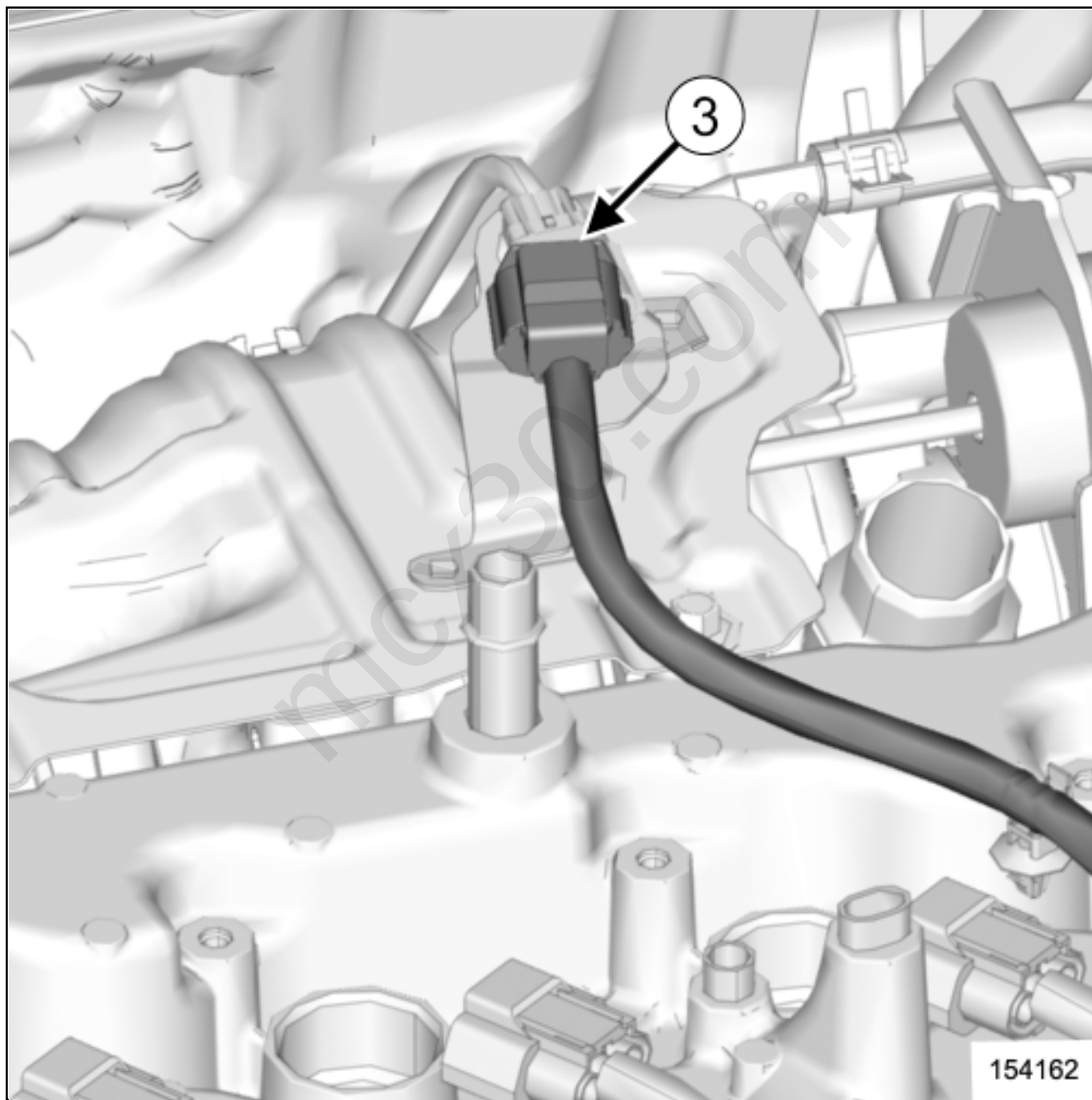
- the petrol vapour rebreathing pipe from the turbo-manifold air inlet pipe(1) ,
- the petrol vapour rebreathing pipe from the rocker cover(2) .

Move the petrol vapour rebreathing pipe.

Remove:

the ignition coil([see 11A. Top and front of engine, Cylinder head assembly: Exploded view](#)) ,

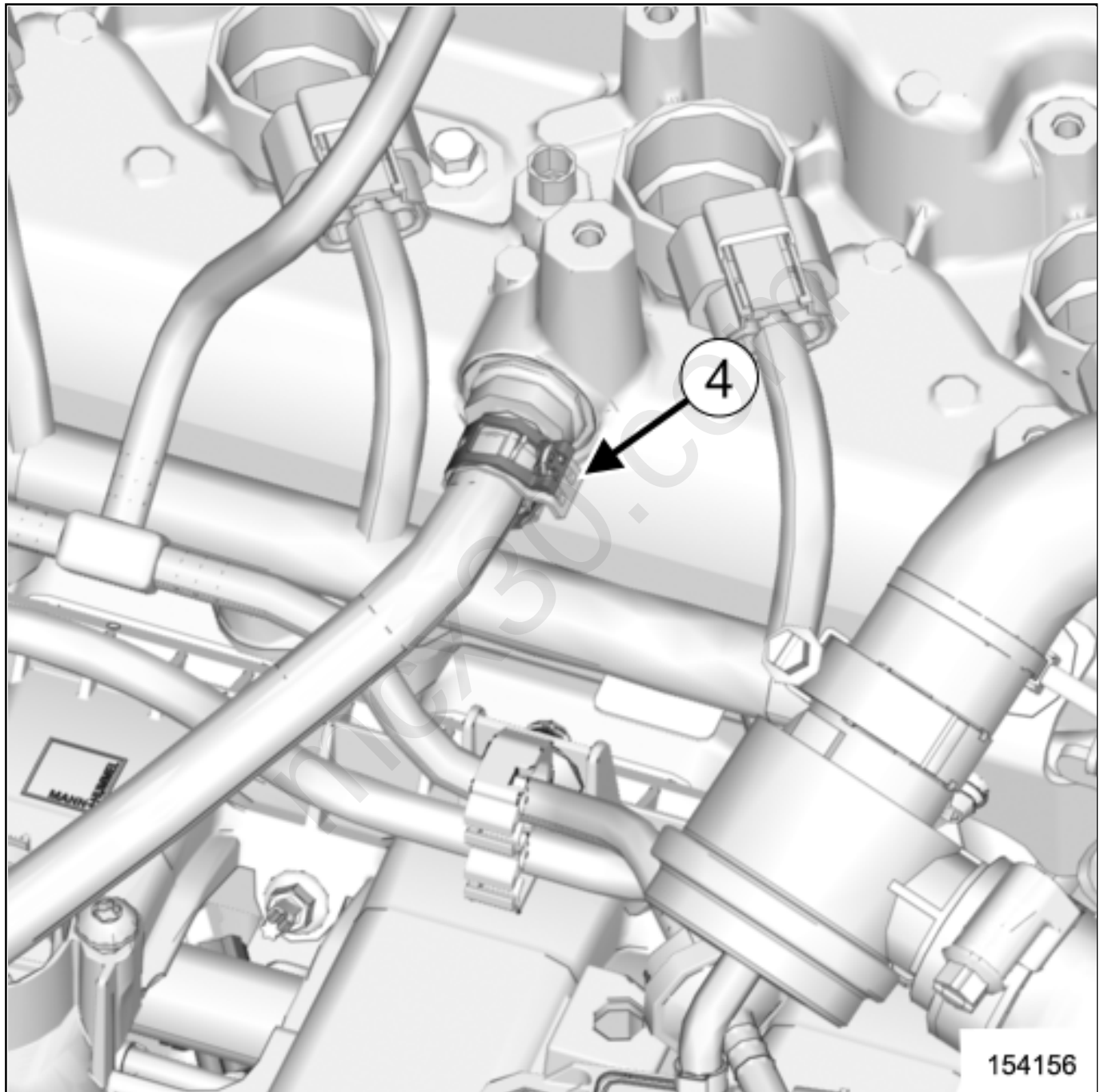
the camshaft position sensors(see **Engine and transmission assembly sensors: List and location of components**) .



Disconnect the downstream oxygen sensor connector(3) .

Unclip the downstream oxygen sensor connector.

Move the downstream oxygen sensor wiring.



Move the clip from oil vapour rebreathing pipe(4) .

Disconnect the oil vapour rebreathing pipe from the rocker cover.

Remove the upstream oxygen sensor [Exhaust assembly in engine compartment: Exploded view](#) .

Remove [Exhaust assembly in engine compartment: Exploded view](#) :

-
- the upstream oxygen sensor connector bracket bolts,
- the upstream oxygen sensor connector bracket.

Unclip the downstream oxygen sensor wiring from the upper turbo-manifold heat shield.

Remove [Exhaust assembly in engine compartment: Exploded view](#) :

-
- the upper turbo-manifold heat shield bolts,
- the upper turbo-manifold heat shield.

Unclip:

-
- the clips from the engine wiring,
- the clip from the exhaust camshaft position sensor wiring.

2. REMOVAL OPERATION

Remove [\(see 11A, Top and front of engine, Cylinder head assembly: Exploded view\)](#) :

-
- the rocker cover bolts,
- the rocker cover,
-



Note:

The rocker cover bolts are not the same length mark their positions.

REFITTING

1. REFITTING PREPARATION OPERATION



parts always to be replaced: rocker cover seal .



CAUTION

To ensure proper sealing, the gasket surfaces must be clean, dry and not greasy (avoid any finger marks).



CAUTION

Do not scrape the joint faces of the aluminium, any damage caused to the joint face will result in a risk of leaks.



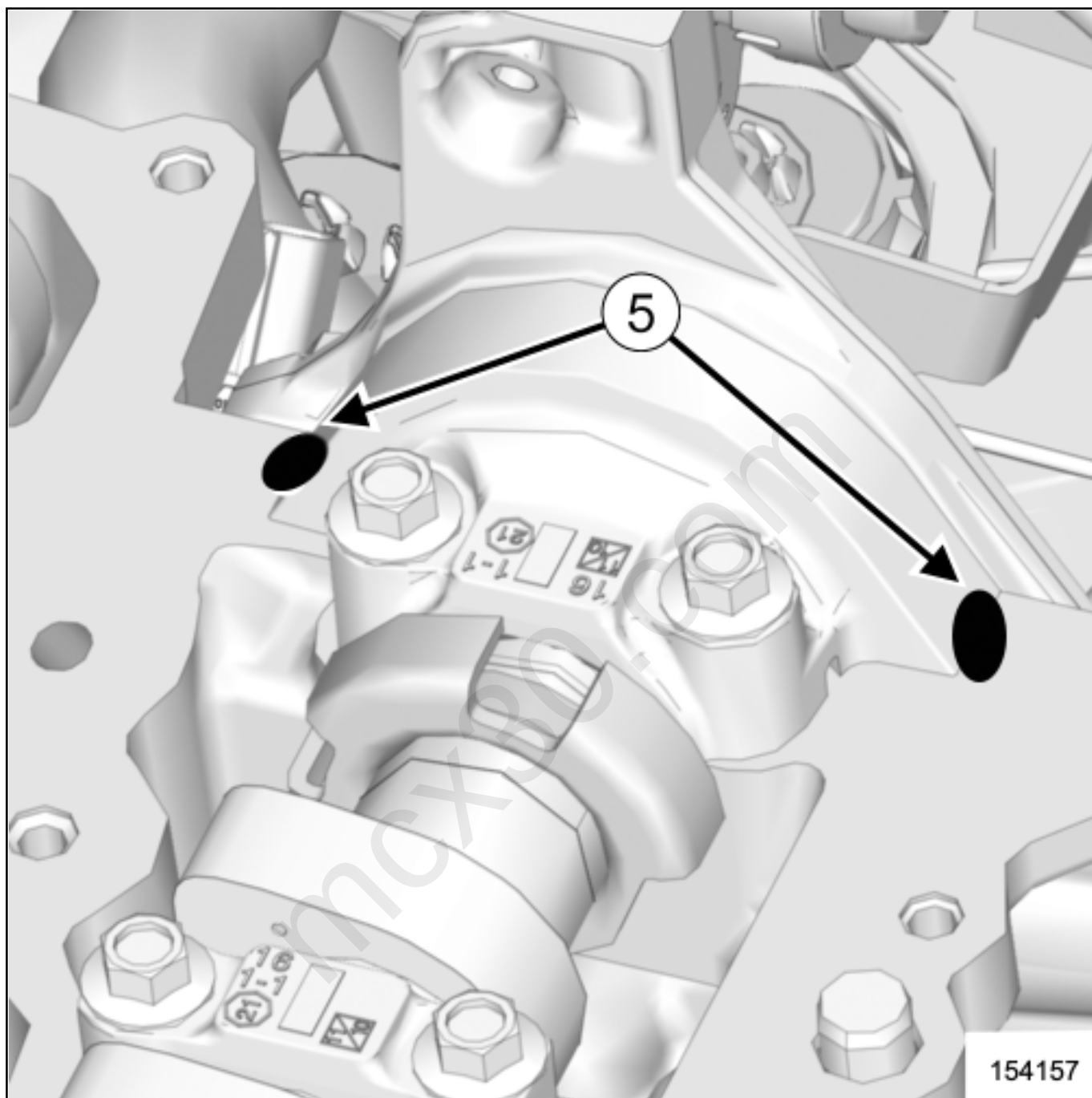
CAUTION

Do not allow this product to drip onto the paintwork.

Clean the cylinder head carefully to avoid any foreign bodies entering the oil return and supply pipes.

Failure to follow this advice could lead to the blocking of the various oil inlet galleries, which would quickly result in engine damage.

Clean and degrease the joint faces using surface cleaner [Vehicle: Parts and consumables for the repair](#) .



Apply dots (5) of silicone adhesive sealant [Vehicle: Parts and consumables for the repair](#) to the cylinder head.

2. REFITTING OPERATION

Refit [\(see 11A, Top and front of engine, Cylinder head assembly: Exploded view\)](#) :

-
- the new rocker cover seal,
- the rocker cover,
- the rocker cover bolts.



Torque tighten in the order the rocker cover bolts[\(see 11A, Top and front of engine, Cylinder head assembly: Exploded view\)](#) .

3. FINAL OPERATION



Clip:

-
- the engine wiring clips,
- the exhaust camshaft position sensor wiring clip.



Refit [Exhaust assembly in engine compartment: Exploded view](#) :

-
- the upper turbo-manifold heat shield,
- the upper turbo-manifold heat shield bolts.



Torque tighten the upper turbo-manifold heat shield bolts[Exhaust assembly in engine compartment: Exploded view](#) .



Refit [Exhaust assembly in engine compartment: Exploded view](#) :

-
- the upstream oxygen sensor connector bracket,
- the upstream oxygen sensor connector bracket bolts.