Remove any excess of SILICONE ADHESIVE SEALANTusing a plastic spatula.

Refit **(see 11A, Top and front of engine, Cylinder head assembly: Exploded view)** :

- the cylinder head closing plate,
- the cylinder head closing plate bolts.

Proceed in the reverse order to removal.

CATALYTICPRE-CONVERTER:REMOVAL-REFITTING

Note, one or more warnings are present in this procedure

WARNING

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- Exhaust: Precautions for the repair ,
- Vehicle: Precautions for the repair .

WARNING

Catalytic converters contain ceramic fibres, these are contained within a closed unit, and cannot disperse. Drilling or cutting catalytic converters is prohibited.

WARNING

Wear cut-resistant gloves during the operation.

Locations and specifications (tightening torques, parts always to be replaced, etc.)(see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

Position the vehicle on a two-post liftVehicle: Towing and lifting .

Remove:

- the batteryBattery: Removal - Refitting ,

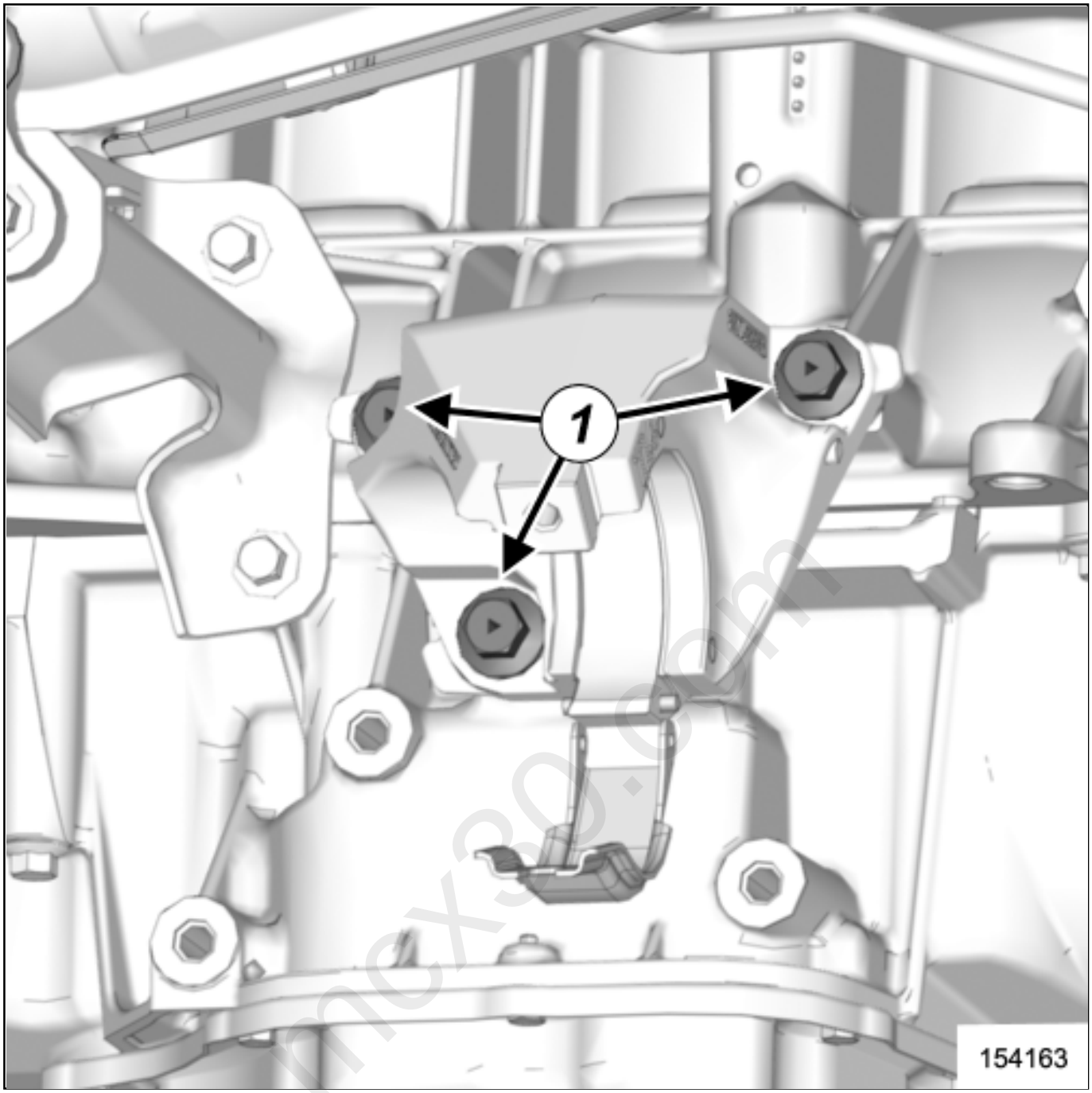
- the air filter unit (see 12A, Fuel mixture, Air inlet assembly: Exploded view) ,
- the front right-hand wheel Front hub carrier assembly: Exploded view .

Remove the engine undertray.

Drain the automatic gearbox oil Automatic gearbox oil: Draining - Filling .

Remove the front right-hand wheel driveshaft Front hub carrier assembly: Exploded view .

Remove the lower engine tie-bar Engine-gearbox unit support assembly: Exploded view



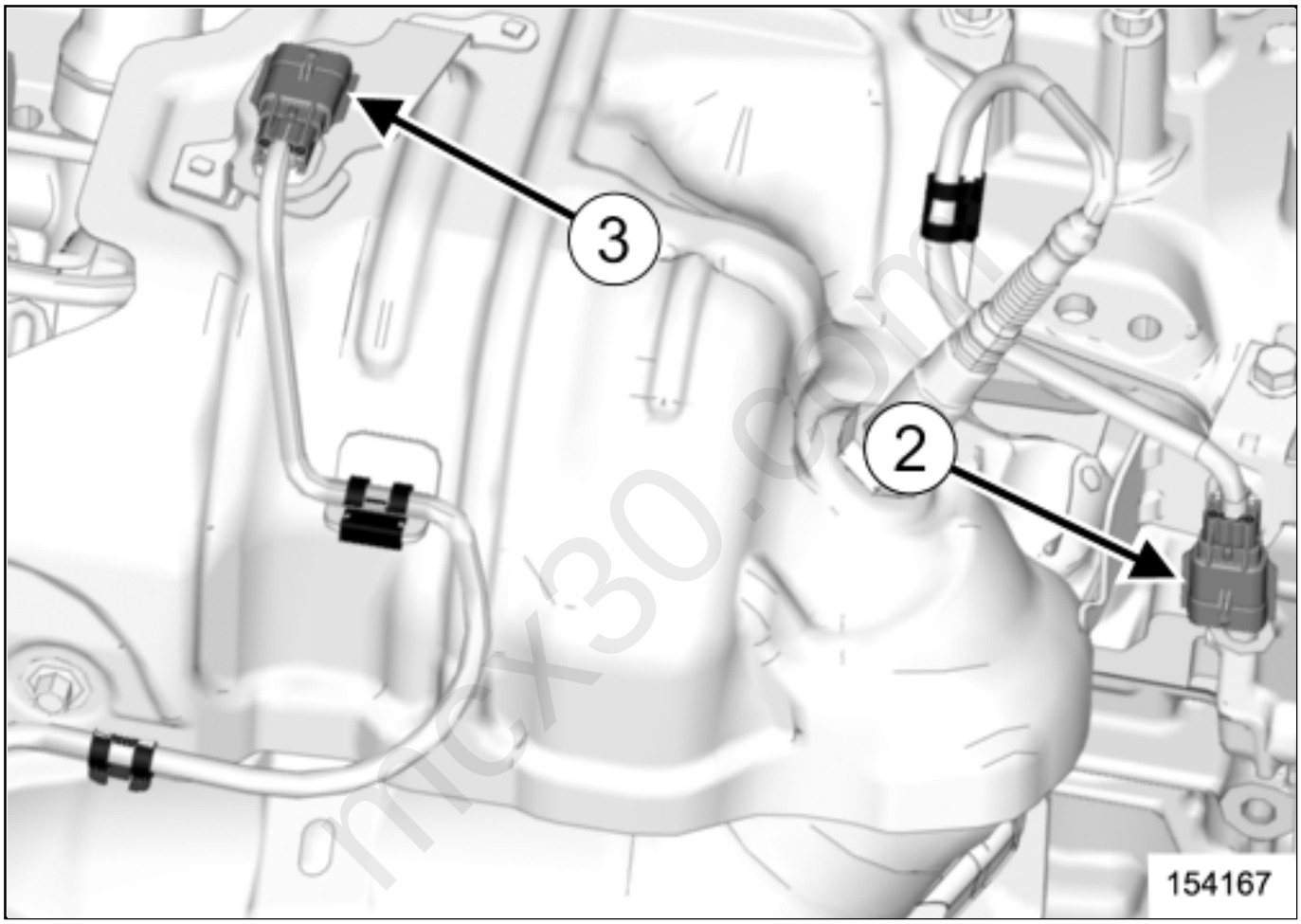
Remove:

- the bolts(1) from the front right-hand driveshaft relay bearing,
- the front right-hand driveshaft relay bearing.

Remove Exhaust assembly under body: Exploded view :

- the exhaust flange nuts,
- the exhaust flange seal,
- the flexible pipe support bolts.

Move the exhaust pipe to one side.



Disconnect:

- the upstream oxygen sensor connector(2) ,
- the downstream oxygen sensor connector(3) .

Unclip

- the upstream oxygen sensor connector,
- the downstream oxygen sensor connector,
- the oxygen sensor wiring from the upper turbo-manifold heat shield.

Remove the upstream oxygen sensor(see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) .

2. REMOVAL OPERATION

Remove (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) :

- the upper turbo-manifold heat shield bolts,
- the upper turbo-manifold heat shield,
- the catalytic pre-converter strut bolts from the catalytic pre-converter.

Remove (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) :

- the lower catalytic pre-converter strut bolts from the engine, gearbox side using an universal joint,
- the upper catalytic pre-converter strut bolts from the engine, gearbox side by the exhaust tunnel.

Remove (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) :

- the catalytic pre-converter strut bolts from the engine,
- the catalytic pre-converter on engine bracket bolts from the catalytic pre-converter,
- the catalytic pre-converter on engine bracket bolt from the engine,

- the catalytic pre-converter on engine bracket,
- the catalytic pre-converter from the turbo-manifold nuts,
- the catalytic pre-converter strut,
- the catalytic pre-converter,
- the catalytic pre-converter seal.

1- IF REPLACING THE CATALYTIC PRE-CONVERTER

Remove the downstream oxygen sensor(see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) .

REFITTING

1. REFITTING PREPARATION OPERATION

Part always to be replaced:

- the catalytic pre-converter seal,
- the exhaust flange seal.

Use a grey abrasive padVehicle: Parts and consumables for the repair to clean the joint faces of:

- the catalytic pre-converter,
- the exhaust flange.

Use surface cleanerVehicle: Parts and consumables for the repair to clean the joint faces of:

- the catalytic pre-converter,

- the exhaust flange.

Note:

If a stud becomes loose during the removal, replace it with a new stud and coat it with high strength thread lock Vehicle: Parts and consumables for the repair .

1- IF REPLACING THE CATALYTIC PRE-CONVERTER

Refit the downstream oxygen sensor (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) .

2. REFITTING OPERATION

Refit (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) :

- the new catalytic pre-converter seal,
- the catalytic pre-converter,
- the catalytic pre-converter strut,
- the catalytic pre-converter on the turbo-manifold nuts,
- the catalytic pre-converter on engine bracket,
- the catalytic pre-converter on engine bracket bolt on the engine,
- the catalytic pre-converter on engine bracket bolts on the catalytic pre-converter,
- the catalytic pre-converter strut bolts on the engine,
- the catalytic pre-converter strut bolts on the catalytic pre-converter.

Torque tighten (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) :

- the catalytic pre-converter on the turbo-manifold nuts,
- the catalytic pre-converter on engine bracket bolt on the engine,
- the catalytic pre-converter on engine bracket bolts on the catalytic pre-converter,
- the catalytic pre-converter strut bolts on the engine,
- the catalytic pre-converter strut bolts on the catalytic pre-converter.

Refit (see 19B, Exhaust, 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 (see 19B, Exhaust, Exhaust assembly in engine compartment: Exploded view) .

3. FINAL OPERATION

Refit the upstream oxygen sensor (see **Engine and transmission assembly sensors: List and location of components**) .

Clip:

- the upstream oxygen sensor connector,
- the downstream oxygen sensor connector,
- the oxygen sensor wiring onto the upper turbo-manifold heat shield.