

Connect:



the upstream oxygen sensor connector,



the downstream oxygen sensor connector.

Fit the exhaust pipe to one side.

Refit [Exhaust assembly under body: Exploded view](#) :



the flexible pipe support bolts,



the new exhaust flange seal,



the exhaust flange nuts.

Torque tighten [Exhaust assembly under body: Exploded view](#) :



the flexible pipe support bolts,



the exhaust flange nuts.

Proceed in the reverse order to removal.



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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:



(see 19B, Exhaust, 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 battery [Battery: Removal - Refitting](#) ,



the air filter unit [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](#) .

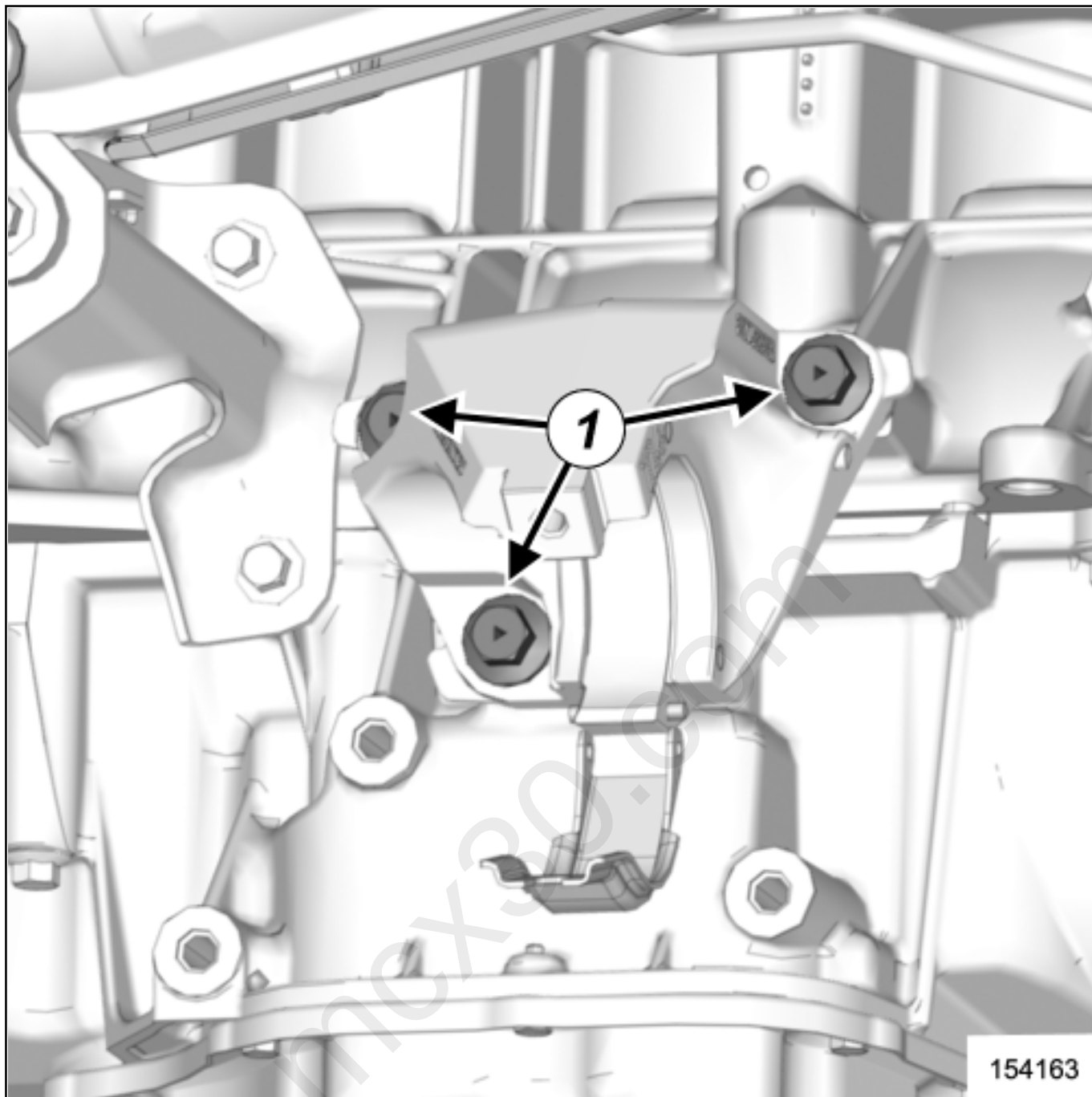


Remove the front right-hand wheel driveshaft [Front hub carrier assembly: Exploded view](#) .



Remove the lower engine tie-bar [Engine-gearbox unit support assembly: Exploded view](#)

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Remove:



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



the front right-hand driveshaft relay bearing.

Remove [\(see 19B, Exhaust, Exhaust assembly under body: Exploded view\)](#) :

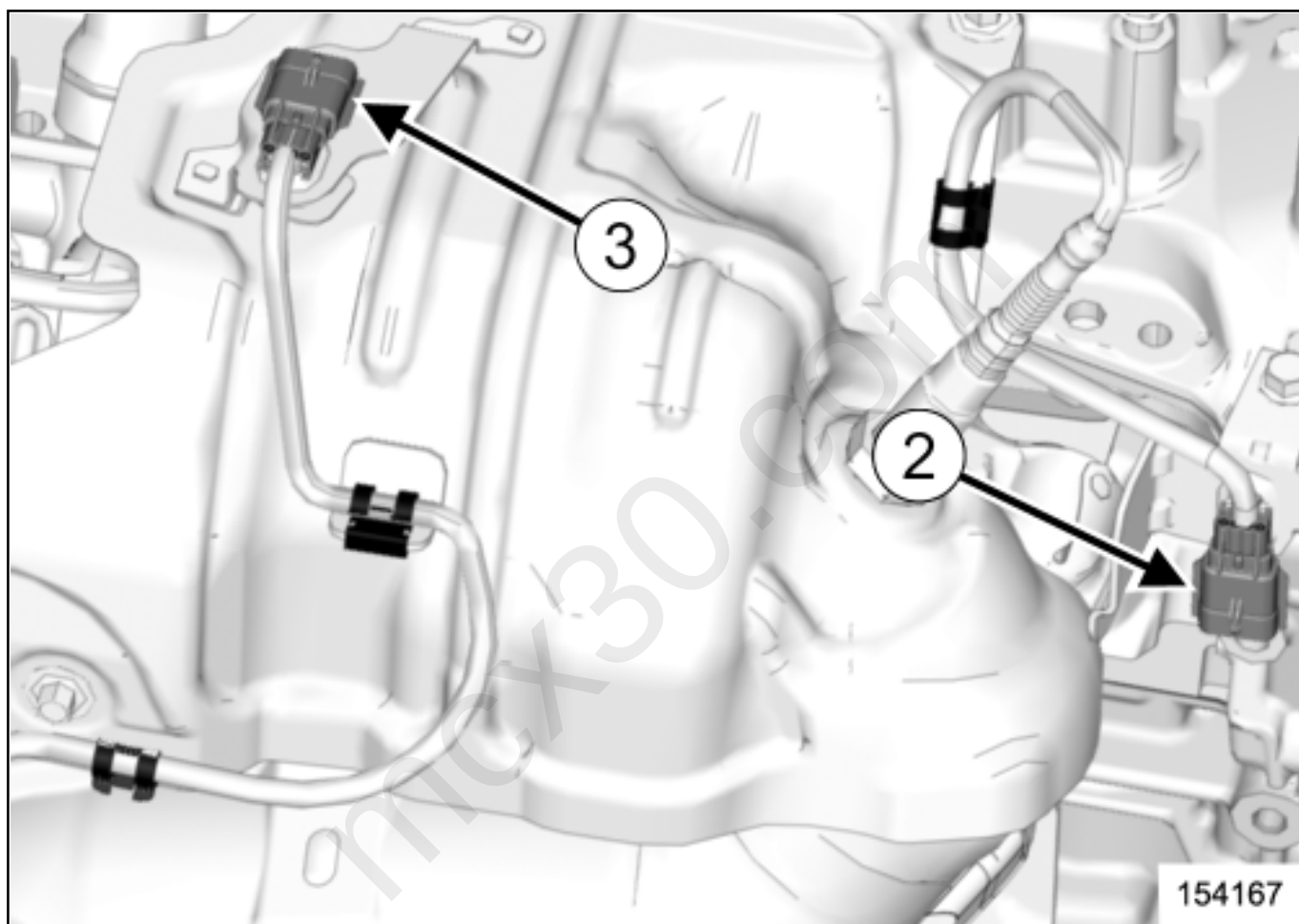


- the exhaust flange nuts,

- 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 pad[Vehicle: Parts and consumables for the repair](#) to clean the joint faces of:

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



Use surface cleaner[Vehicle: 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.