

 Screw the track rod back in place by the number of turns noted during removal.



Fit the track rod end in the hub carrier.

 Refit the track rod ball joint nut.

 Torque tighten [Steering assembly: Exploded view](#) :

- the track rod ball joint nut,
- the wheel alignment adjusting lock nut.

2. FINAL OPERATION



Refit the front wheel [Front hub carrier assembly: Exploded view](#) .



Check the axle geometry [Axle assemblies: Check](#) .



If necessary, adjust the geometry of the axle assemblies [Front axle system: Adjustment](#) .



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TURBOCHARGER COOLANT PIPE: REMOVAL - REFITTING

Special tooling required

Remote operation pliers for hose clips.

Mot. 1448

Pipe clamps.

Ms. 583



parts always to be replaced:



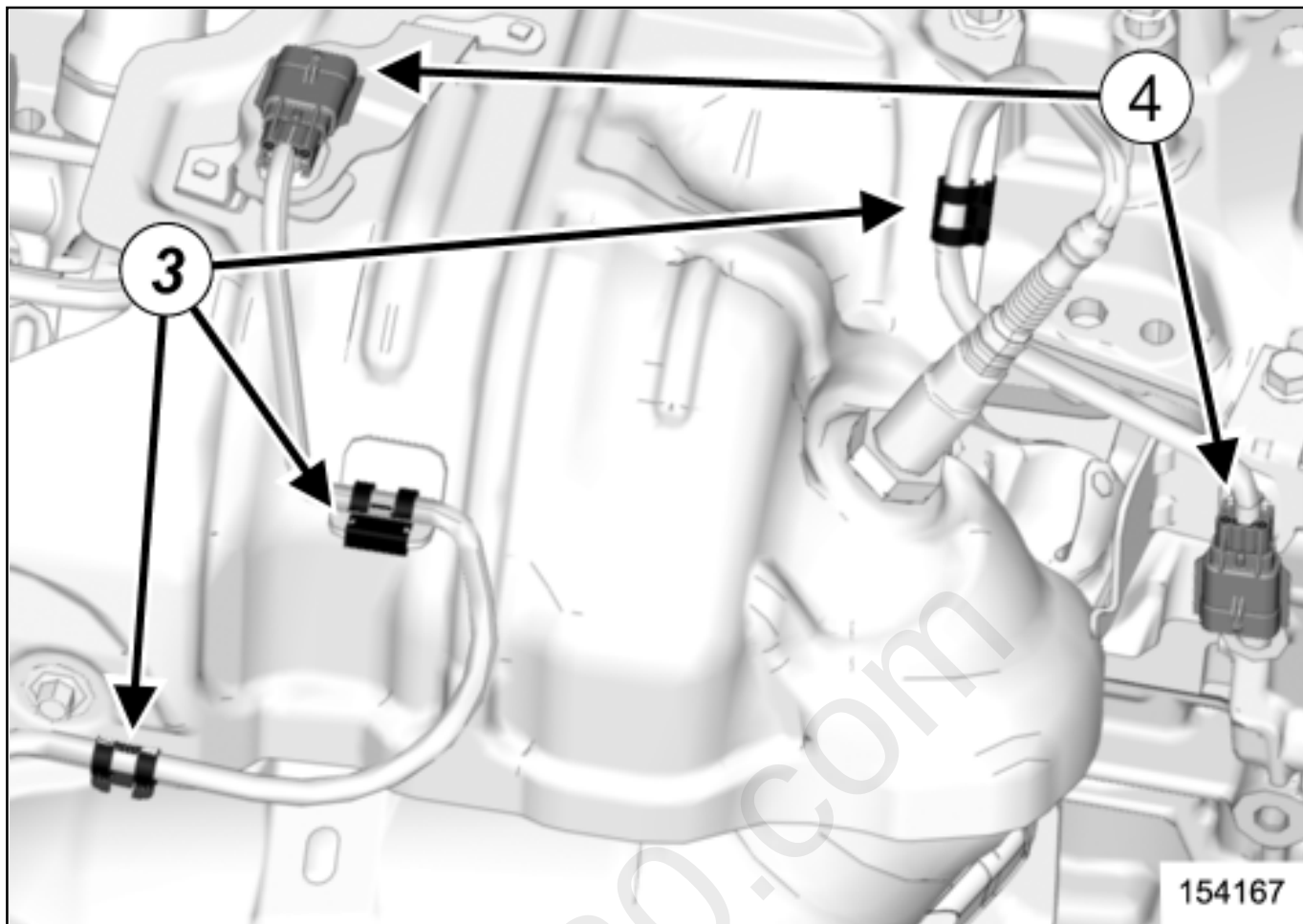
Turbocharger coolant pipe

Locations and specifications (tightening torques, parts always to be replaced, etc.) [Exhaust assembly in engine compartment: Exploded view](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

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



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■ Unclip:

- the oxygen sensor wiring clips(3) ,
- the oxygen sensor connectors(4) .

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

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

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

2. REMOVAL OPERATION

Fit toolsPipe clamps.(Ms. 583) [Exhaust assembly in engine compartment: Exploded view](#) :

- on the turbo-manifold coolant pipe supply hose,

- on the turbo-manifold coolant pipe outlet hose.

Move the turbo-manifold coolant pipe hose clips using the toolRemote operation pliers for hose clips. (Mot. 1448) .

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

- the turbo-manifold coolant pipe supply hose,

- the turbo-manifold coolant pipe outlet hose.

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

- the turbo-manifold coolant pipe bolts,

- the turbo-manifold coolant pipe bracket bolt,

- the turbo-manifold coolant pipe.

REFITTING

1. REFITTING PREPARATION OPERATION



parts always to be replaced: [Turbocharger coolant pipe](#) .



Using surface cleaner [Vehicle: Parts and consumables for the repair](#) , clean and degrease the bearing faces of of the turbo-manifold.

2. REFITTING OPERATION



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



the new turbo-manifold coolant pipe,



the turbo-manifold coolant pipe bolts,



the turbo-manifold coolant pipe bracket bolt.



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



the turbo-manifold coolant pipe bracket bolt,



the turbo-manifold coolant pipe bolts.



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



the turbo-manifold coolant pipe supply hose,



the turbo-manifold coolant pipe outlet hose.



Fit the turbo-manifold coolant pipe hose clips using the tool Remote operation pliers for hose clips. (Mot. 1448) .

Remove the toolsPipe clamps.(Ms. 583) [Exhaust assembly in engine compartment: Exploded view](#) :

- from the turbo-manifold coolant pipe supply hose,

- from the turbo-manifold coolant pipe outlet hose.

3. FINAL OPERATION

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](#) .

Proceed in the reverse order to removal.

Perform the following operations:

- top up the coolant level,

- bleed the cooling system[Cooling system: Draining - Refilling](#) .