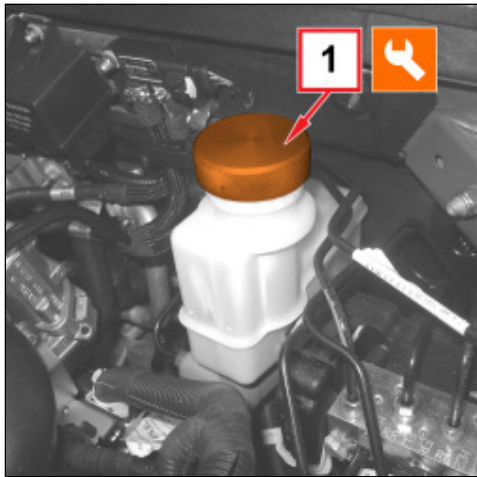


 Removing ([Refitting](#) )

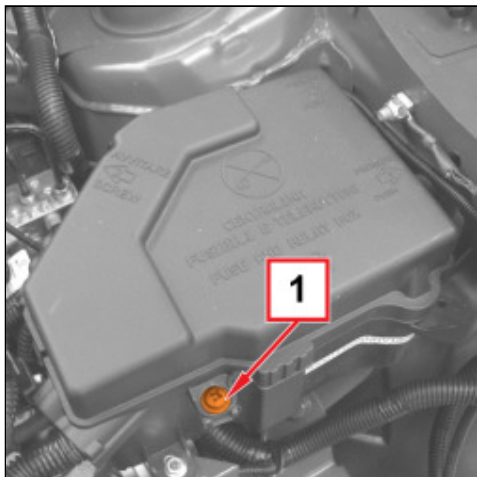
- Place the vehicle on a lift.
 - [Op. 7055B54 PROTECTION/GUARD UNDER ENGINE -R.R.](#)
 - [Op. 0010T20 ENGINE COOLANT - CHANGE](#)
 - [Op. 0010T40 CHANGE MANUAL GEARBOX OIL](#)
 - [Op. 0010T84 AIR CONDITIONING SYSTEM REFRIGERANT - DEHYDRATING AND REPRESSURIZING](#)
 - [Op. 7210E10 R.R. FRONT BUMPER](#)
 - [Op. 5540B08 RIGHT FRONT HEADLAMP - R.R.](#)
 - [Op. 5540B07 LEFT FRONT HEADLAMP - R.R.](#)
 - [Op. 7025A34 BONNET LID LOCK \(ONE\) - R+R OR REPAIR](#)
 - [Op. 7210A02 FRONT END ASSEMBLY - R.R.](#)
 - [Op. 7210A51 LEFT THIRD LOAD LINE - R.R.](#)
 - [Op. 7210A52 RIGHT THIRD LOAD LINE - R.R.](#)
 - [Op. 5530B10 BATTERY - R+R](#)
 - [Op. 5530B52 BATTERY SUPPORT/DRIP TRAY - R.R](#)
 - [Op. 1016A10 SOUND-PROOFING COVER - R.R](#)
 - [Op. 4450B12 FRONT WHEELS \(TWO\) - R.R.](#)
 - [Op. 7055B65 ENGINE COMPARTMENT DUST COVER IN LEFT FRONT WHEEL ARCH - R.R.](#)
 - [Op. 2710A14 RIGHT DRIVESHAFT WITH JOINTS AND INTERMEDIATE DRIVESHAFT - R+R](#)
- Remove the left driveshaft.
 - [Op. 2710A10 DRIVESHAFT COMPLETE WITH JOINTS \(ONE\), LEFT OR RIGHT - R.R.](#)

1. Unscrew the brake-clutch fluid reservoir plug and fit the tool.

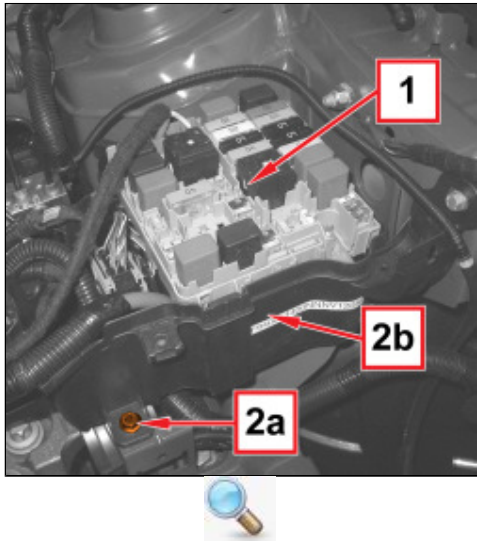


Tool	Description	Function	Validity
2000001400	Tappo	Depressione impianto freni/frizione	2.0 JTDM

- Release the left driveshaft from the wheel hub.
 - 1. Undo the bolt and remove the junction unit cover from the retaining clips.

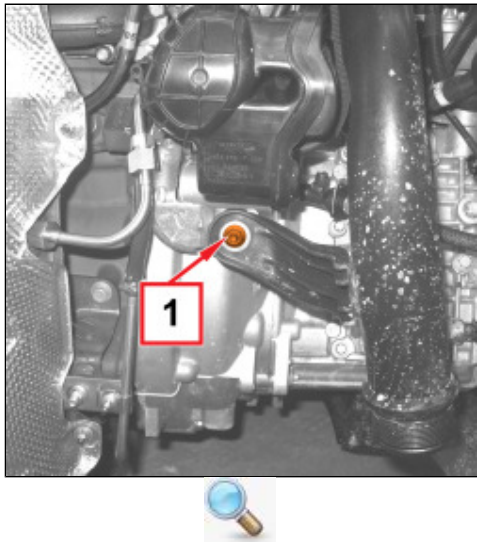


- 1. Release the junction unit from the casing.
- 2. Undo the nuts (2a) and remove the junction unit casing (2b).

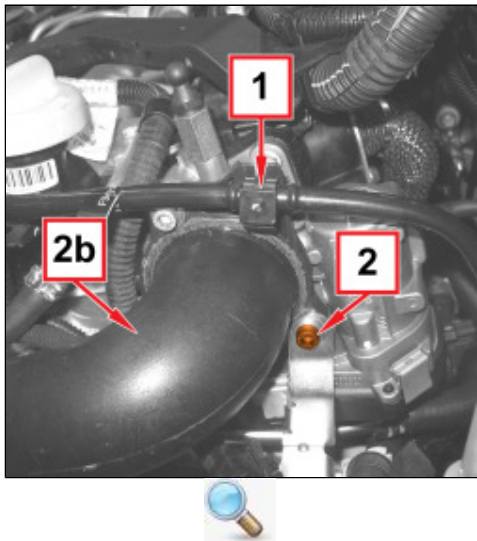


- [Op. 1076B72 INTERMEDIATE EXHAUST PIPE WITH HOSE SECTION - R+R](#)
- [Op. 1008C32 GEARBOX LOWER REACTION ROD -R.R.](#)

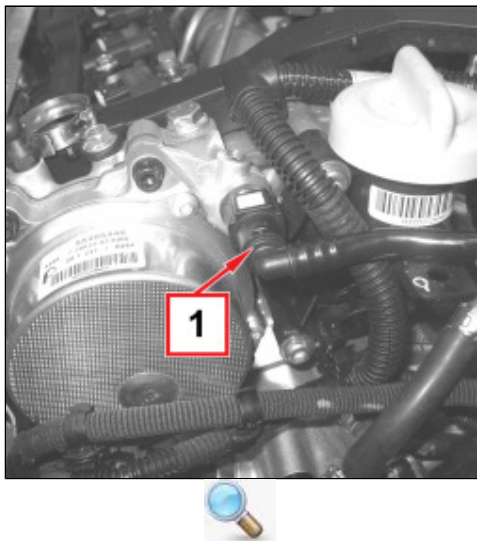
- 1. Undo the bolt securing the rigid air supply pipe to the throttle body, gearbox side.



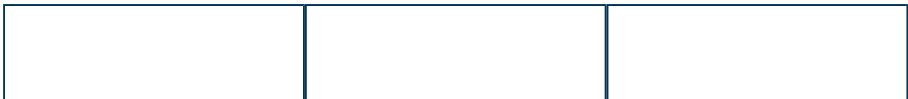
- 1. Open the servo brake vacuum pipe retaining clip.
- 2. Undo the bolts (2a) and remove the throttle body rigid air supply pipe (2b).

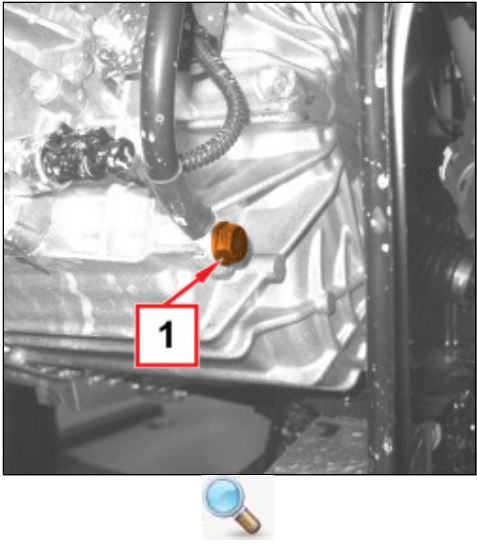


- 1. Disconnect the rapid connector for the vacuum intake pipe for the brake servo, vacuum unit side.



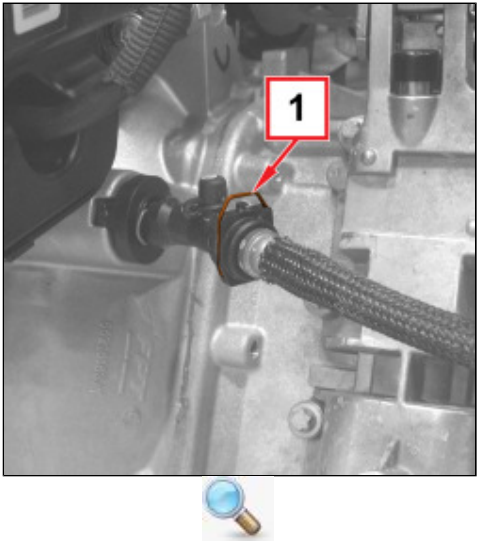
- 1. Undo the nut and disconnect the earth lead from the gearbox.



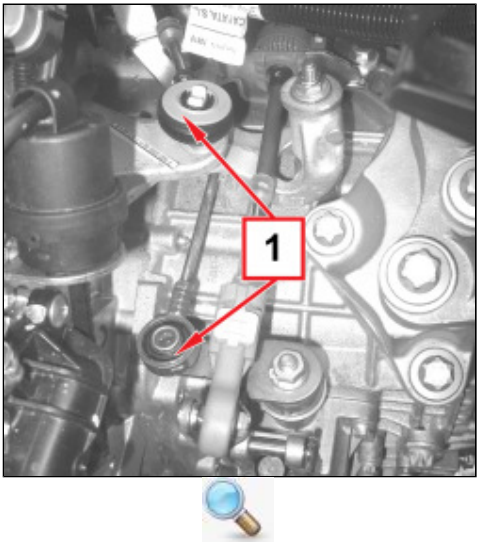


	Description	Connector
1	Battery earth on engine	See C002 BATTERY EARTH ON ENGINE

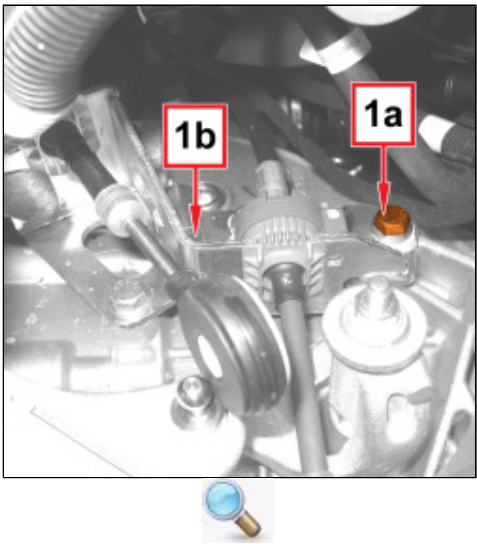
1. Retract the clip and disconnect the oil supply pipe to the clutch control actuator.



1. Disconnect the gear selector and engagement cables from the assembly.

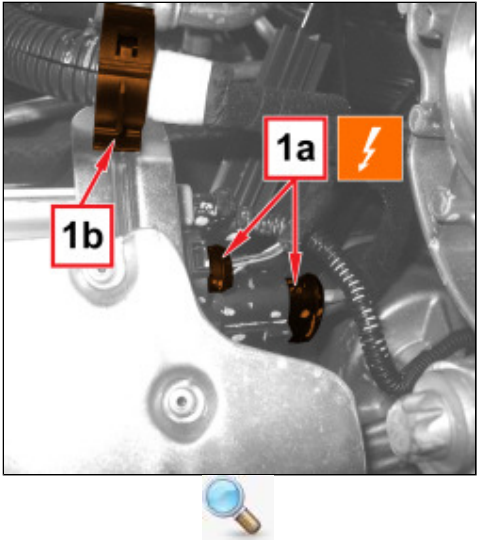


1. Undo the screws (1a) and move the reaction bracket (1b) aside.



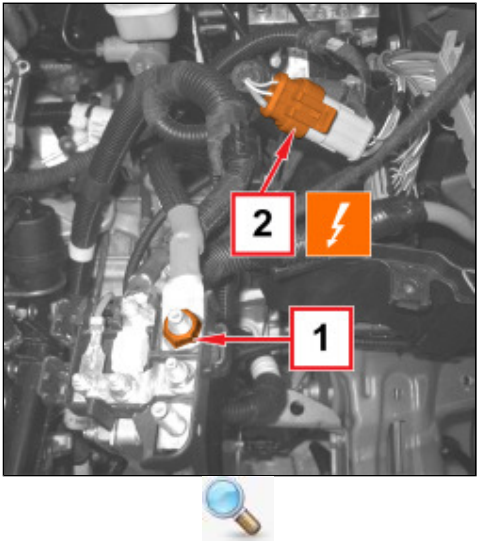
1. Disconnect the electrical connections (1a) for the electric steering, release the wiring from the clip (1b), then remove the wiring.

	Description	Connector



1	Electric steering control unit	See M086 ELECTRIC STEERING CONTROL UNIT
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1. Undo the nut and disconnect the supply lead from the positive battery terminal.
2. Disconnect the electrical coupling for the reversing light switch.



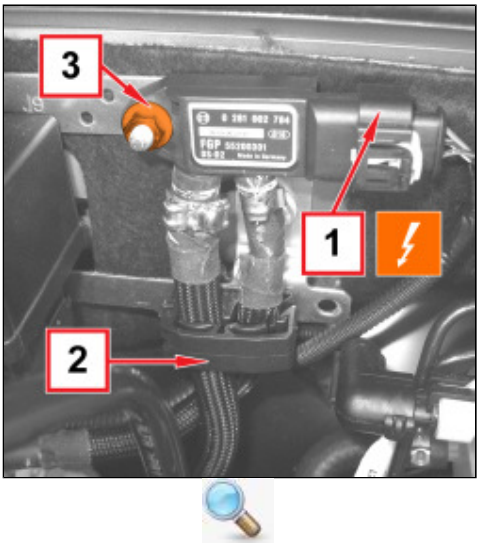
	Description	Connector
2	Front/reversing switch bridge coupling	See D187

1. Disconnect the engine front electrical coupling.



	Description	Connector
1	Front/engine coupling	See D004 FRONT/ENGINE COUPLING

1. Disconnect the electrical connection for the particle filter differential pressure sensor.

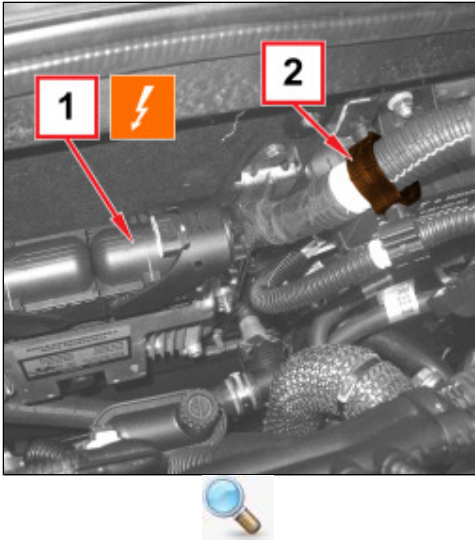


	Description	Connector
1	Particulate filter differential pressure sensor	See K187 FAP DIFFERENTIAL PRESSURE SENSOR

2. Open the pipe retaining clip for the particulate filter differential pressure sensor.
3. Undo the nut securing the particulate filter differential pressure sensor.

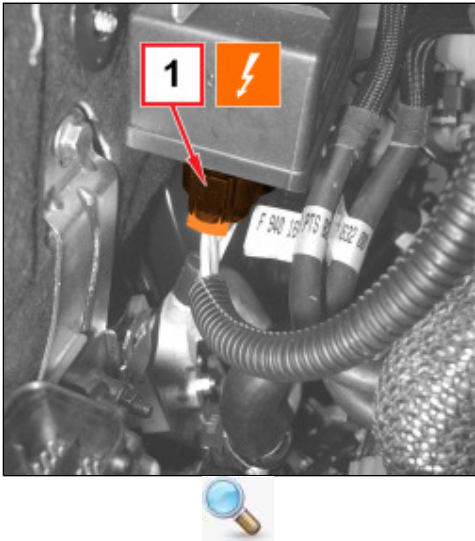
1. Disconnect the electrical connection for the injection/ignition control unit.

	Description	Connector
		See M010 ENGINE



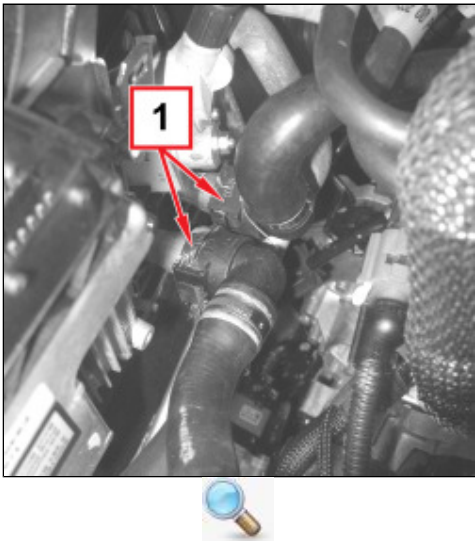
1	Engine management control unit	MANAGEMENT CONTROL UNIT
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2. Release the engine wiring from the retaining clip.

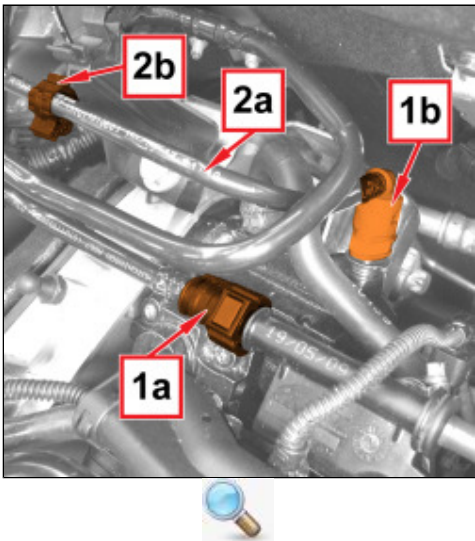


1 - Disconnect the electrical connection for the heater plug control unit.

	Description	Connector
1	Heater plugs control unit	See M015 HEATER PLUGS CONTROL UNIT

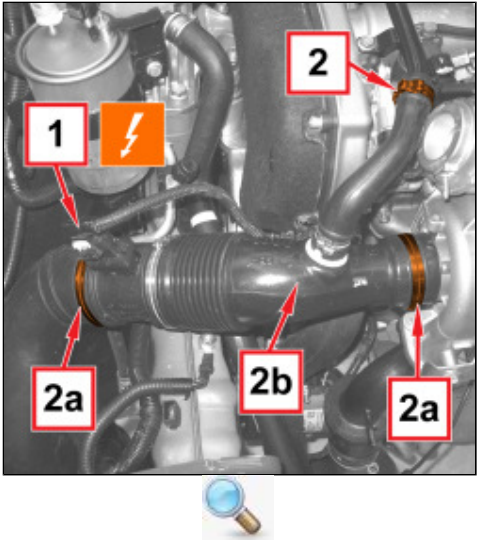


1. Disconnect the rapid connectors for the heater supply pipes, heater side.

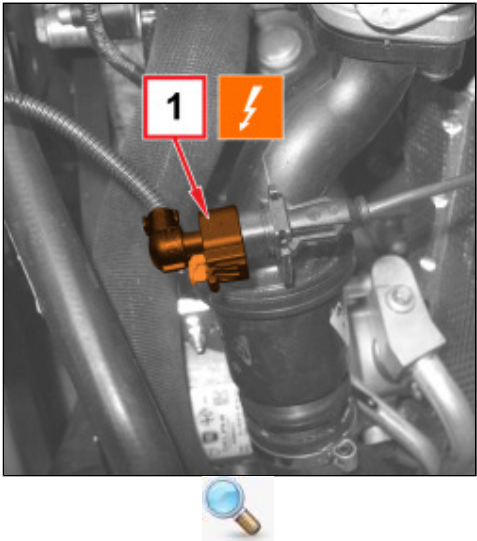


1. Open the retaining clips, disconnect the rapid connectors (1a), (1b) and move the fuel pipes aside.
2. Release the pipe (2a) from the retaining clip (2b)

	Description	Connector
		See K041 AIR

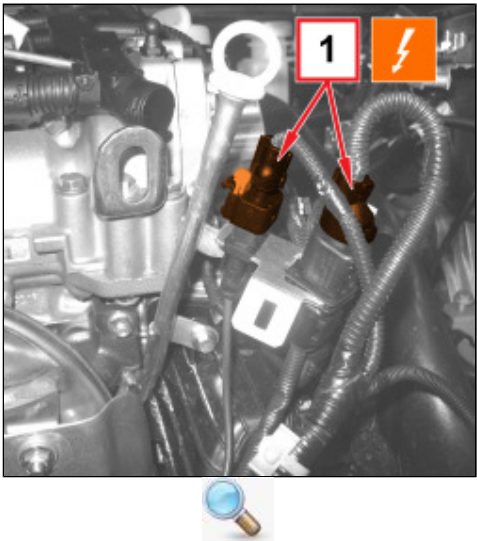


- | | | |
|---|----------------|----------------------------|
| 1 | Air flow meter | FLOW METER |
|---|----------------|----------------------------|
2. Loosen the bands (2a) and remove the turbocharger air inlet hose (2b).



1. Disconnect the electrical connection for the exhaust gas temperature sensor.

	Description	Connector
1	Upstream particulate filter (DPF) temperature sensor	See K189 UPSTREAM PARTICULATE FILTER TEMPERATURE SENSOR (DPF)

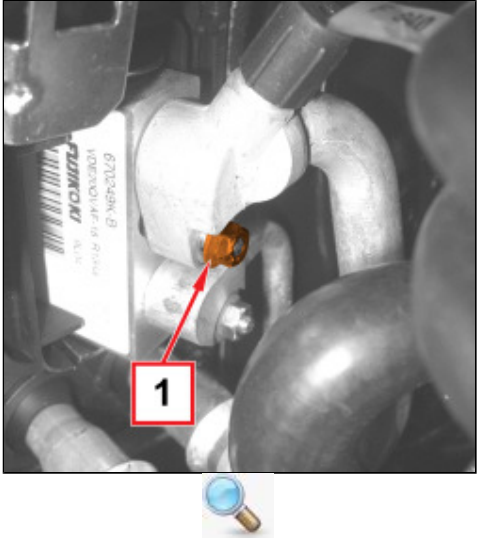


1. Detach the electrical connection for the turbocharger inlet exhaust gas temperature sensor.

	Description	Connector
1	High pressure turbine inlet temperature sensor	See K212 HIGH PRESSURE TURBINE INLET TEMPERATURE SENSOR

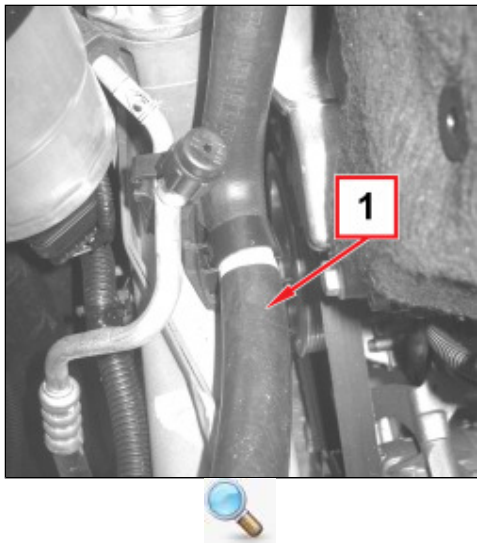
2. Disconnect the electrical connection for the Lambda sensor.

	Description	Connector
2	Oxygen sensor	See K040 LAMBDA SENSOR

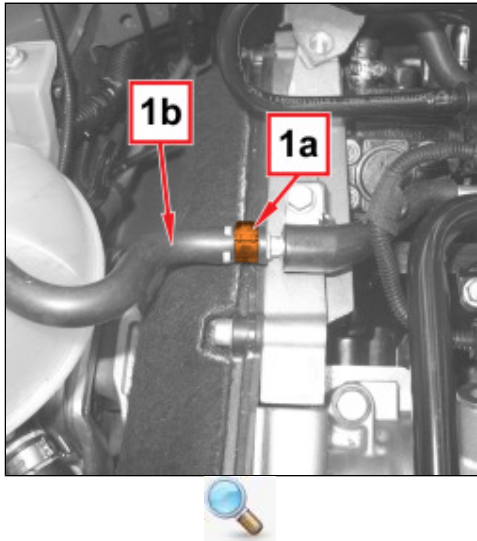


1. Undo the nut fixing the low pressure pipe to the evaporator, then move the pipe aside.

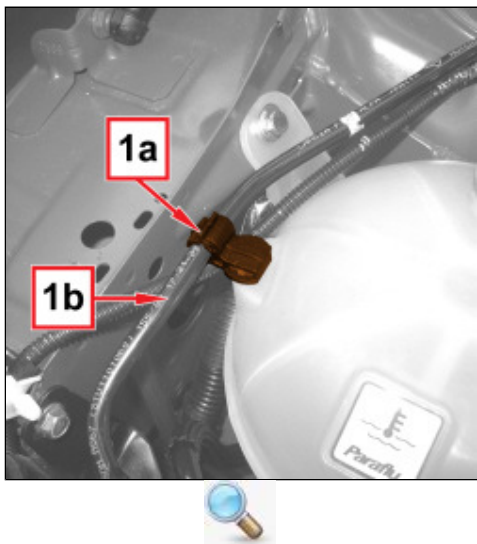
1. Release the filling pipe for the engine cooling circuit from the relevant band.



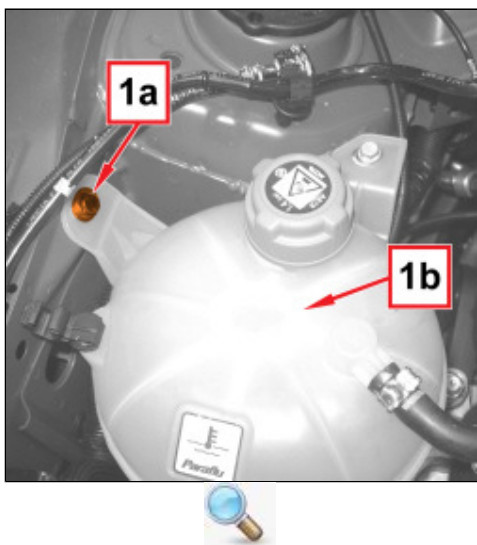
1. Loosen the band (1a) and disconnect the degassing pipe (1b).



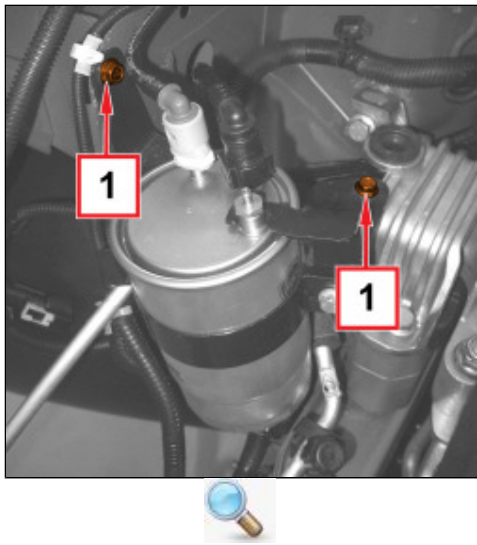
1. Open the retaining clip (1a) and move the fuel supply pipe aside, fuel filter side (1b).



1. Undo the screws (1a) and remove the engine coolant circuit supply reservoir (1b) from the flexible mounting.



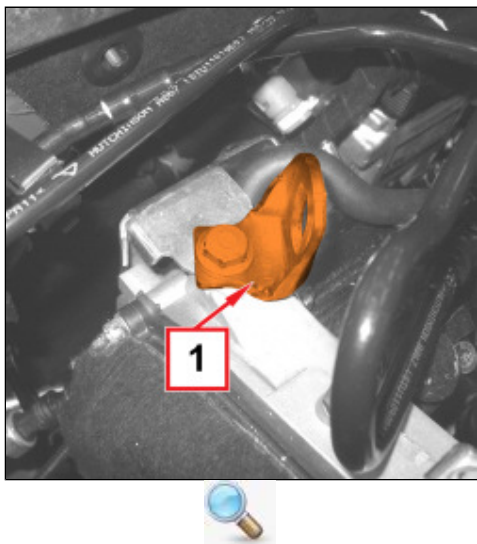
1. Undo the fixing screws for the fuel filter mounting and move the filter aside with the mounting.



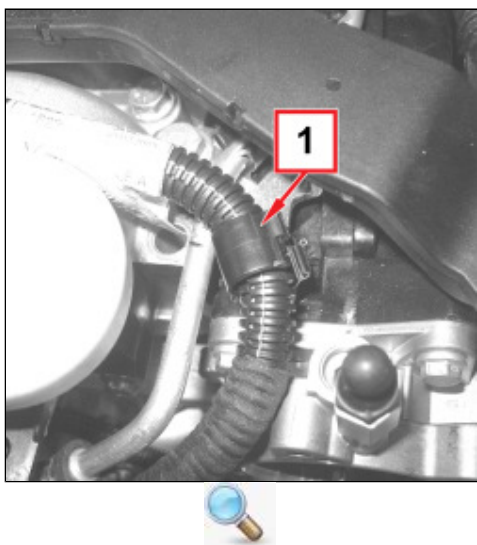
1. Undo the screw and remove the wiring retaining bracket.



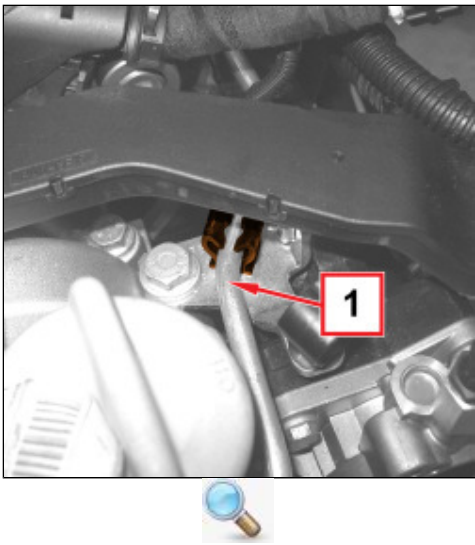
1. Fit the power unit lifting bracket.



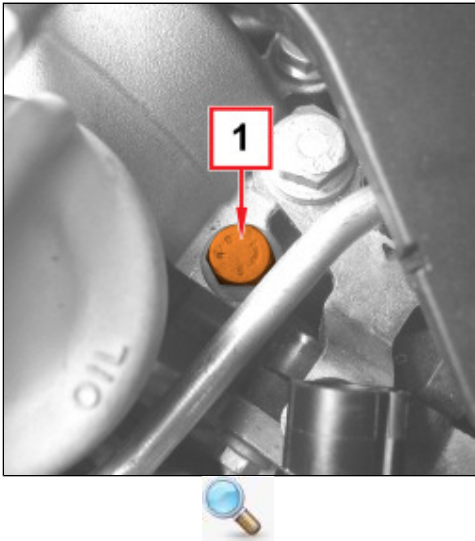
1. Release the engine wiring from the retaining clip.



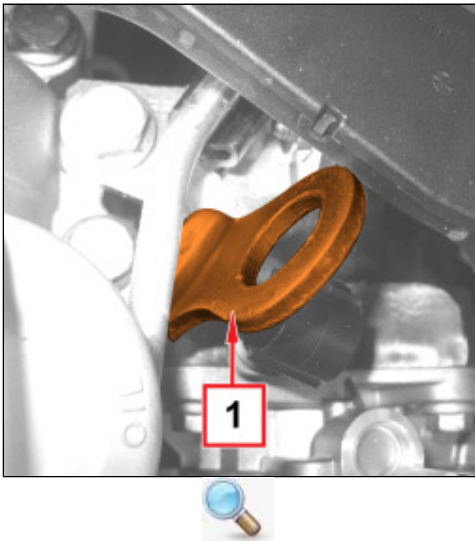
1. Release the degassing pipe from the retaining clip.



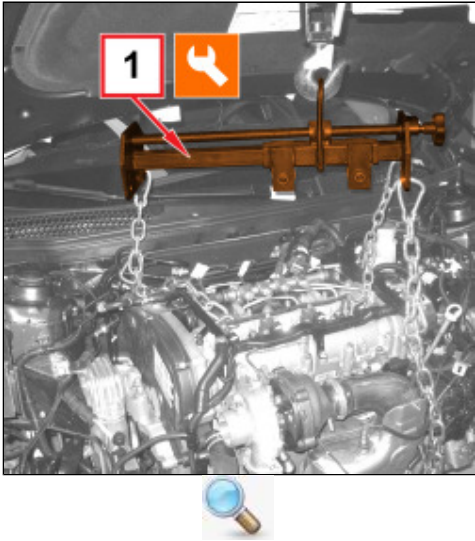
1. Undo the screw fixing the camshaft housing.



1. Fit the power unit lifting bracket.

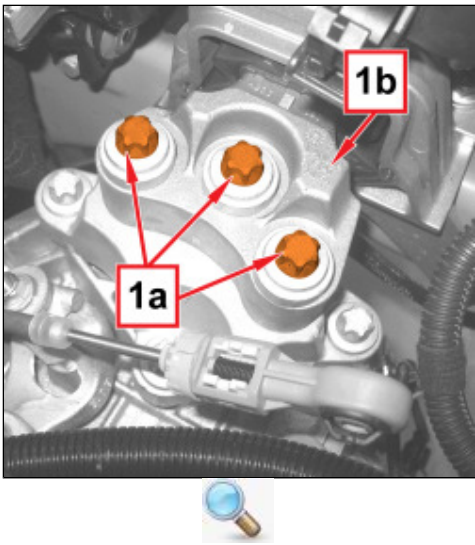


1. Using a suitable hydraulic hoist and the tool, connected to the brackets and to the supporting carabiner fitted previously, support the power unit.

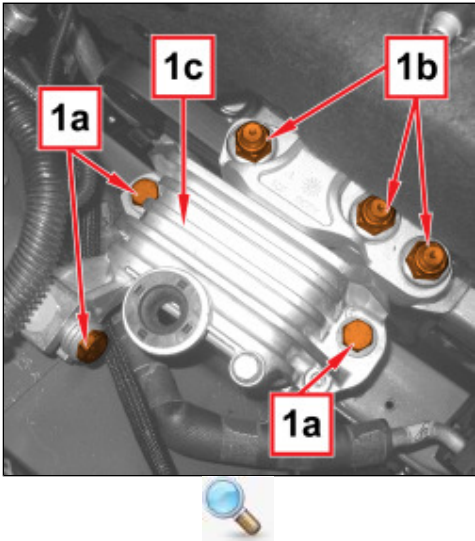


1. Undo the upper screws (1a) fixing the gearbox side flexible mounting (1b).

Tool	Description	Function	Validity
1871001700	Bilancino	Stacco/riattacco gruppo motopropulsore	2.0 JTDM



1. Undo the bolts (1a) and the nuts (1b), then remove the timing side power unit support flexible mounting (1c).



- Remove the power unit from the engine compartment and position it on a suitable platform.

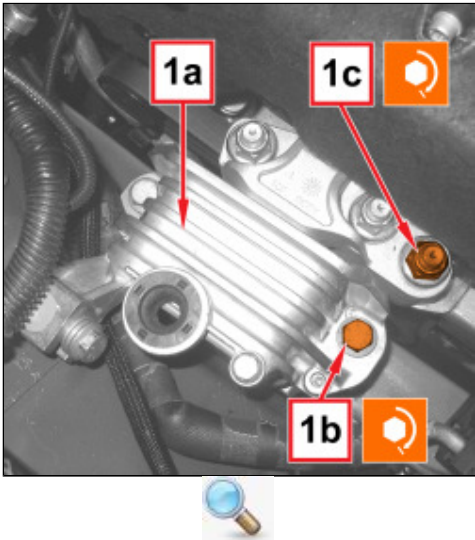
- Release the power unit from the support tools.

 Refitting ([Removing](#) )

- Fit the support tools on the power unit.

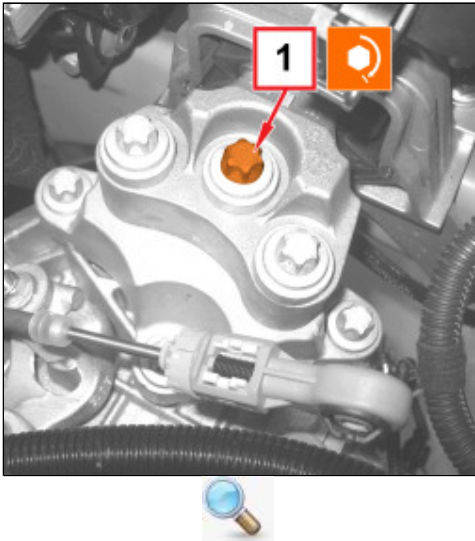
- Place the power unit in its housing using the hydraulic hoist.

1. Place the timing side power unit support flexible mounting (1a) in position and tighten the new bolts (1b) and the new nuts (1c) to the recommended torque.



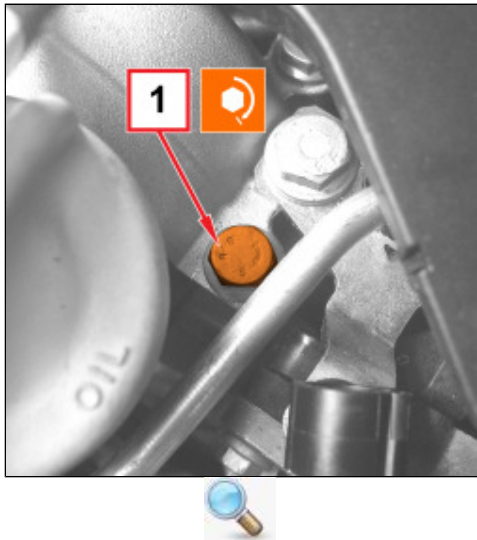
Component	Fastening	Ø	Value (daNm)	Validity
Gearbox lower reaction rod - suspension crossmember side	Screw (to be replaced)	M12	9.0 ÷ 11.0 + 45°	2.0 JTDM
Component	Fastening	Ø	Value (daNm)	Validity
Timing side flexible mounting - dome side	Screw (to be replaced)	M10	4.5 ÷ 5.5	2.0 JTDM

1. Tighten the new bolts fixing the gearbox side flexible mounting to the body to the recommended torque.



Component	Fastening	Ø	Value (daNm)	Validity
Gearbox side support flexible mounting to bodyshell	Screw (to be replaced)	M10	5.4 ÷ 6.6	2.0 JTDM

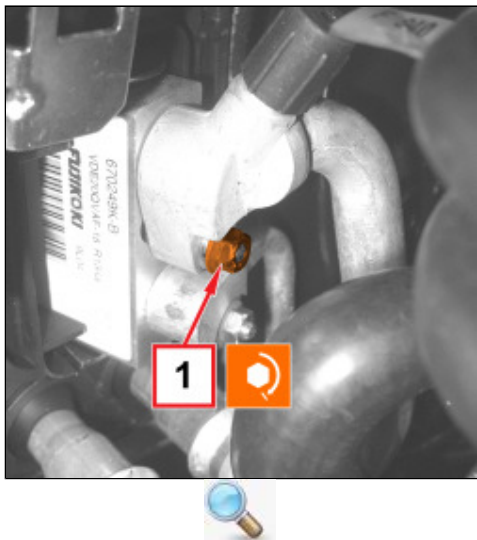
- Remove the hydraulic hoist and the tools used for supporting the power unit.
 - Undo the screws and remove the brackets for raising the power unit, timing and gearbox side.
1. Tighten the fixing screw for the cylinder head extension to the prescribed torque.



Component	Fastening	Ø	Value (daNm)	Validity
Camshaft housing	Screw	M8	2.3 ÷ 2.8	2.0 JTDM

- Engage the degassing pipe with the retaining clip.
- Engage the engine wiring with the retaining clip.
- Place the fuel filter with mounting in position, then tighten the fixing screws.
- Place the engine coolant circuit supply reservoir in position and tighten the fixing screws.
- Engage the fuel supply pipe, on fuel filter side, with the retaining clip.
- Connect the degassing pipe, then tighten the retaining band.
- Engage the filling pipe for the engine cooling circuit with the relevant band.
- Place the wiring retaining bracket in position and tighten the bolt.

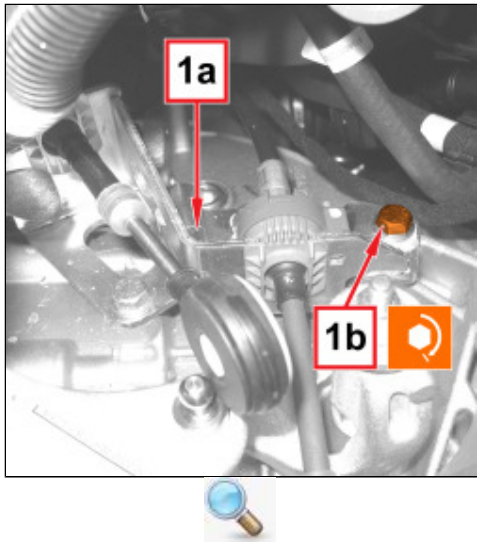
1. Tighten the nut fixing the coolant delivery and return pipes from the air conditioning compressor to the prescribed torque.



Component	Fastening	Ø	Value (daNm)	Validity
Pipe connector on compressor	Screw	M8	1.8 ÷ 2.2	1.6 JTDM 2.0 JTDM 1750 Turbo Petrol

- Connect the vacuum pipe from the turbocharger vane position control actuator and tighten the band.
- Connect the electrical connection for the exhaust gas temperature sensor.
- Connect the electrical connection for the turbocharger inlet exhaust gas temperature sensor.
- Connect the electrical connection for the Lambda sensor.
- Place the turbocharger air inlet hose back in its housing and tighten the bands.
- Connect the electrical connection for the flow meter.
- Place the fuel pipes in position, close the retaining clips and connect the rapid connectors.
- Connect the rapid connectors for the heater supply pipes, heater side.
- Connect the electrical connection for the injection/ignition control unit.
- Connect the electrical connection for the heater plug control unit.
- Position the particulate filter differential pressure sensor in its housing, then tighten the fixing nut.
- Engage the pipes for the particulate filter differential pressure sensor with the relevant retaining clip.

- Connect the electrical connection for the particle filter differential pressure sensor.
 - Connect the supply lead to the positive battery terminal and tighten the nut.
 - Connect the engine front electrical coupling.
 - Connect the electrical coupling for the reversing light switch.
 - Place the electric steering wiring in position, connect the electrical connections and engage it with the retaining clip.
1. Place the reaction bracket (1a) in position and tighten the screws (1b) to the prescribed torque.



Component	Fastening	Ø	Value (daNm)	Validity
Gear engagement/selection cables reaction bracket	Screw	M8	2.2 ÷ 2.7	2.0 JTDM

- Connect the gear selector and engagement cables to the assembly.
- Connect the oil delivery pipe to the clutch control actuator and engage the retaining clip.
- Connect the earth lead to the gearbox and tighten the nut.
- Connect the rapid connector for the vacuum intake pipe for the brake servo, vacuum unit side.
- Close the servo brake vacuum pipe retaining clip.

[Op. 1008C32 GEARBOX LOWER REACTION ROD -R.R.](#)

[Op. 1076B72 INTERMEDIATE EXHAUST PIPE WITH HOSE SECTION - R+R](#)

- Place the junction unit casing in position and tighten the nuts.
- Attach the junction unit to the casing.
- Place the junction unit cover in position, tighten the screw and engage the retaining clips.
- Refit the left driveshaft.

[Op. 2710A10 DRIVESHAFT COMPLETE WITH JOINTS \(ONE\), LEFT OR RIGHT - R.R.](#)

[Op. 2710A14 RIGHT DRIVESHAFT WITH JOINTS AND INTERMEDIATE DRIVESHAFT - R+R](#)

[Op. 7055B65 ENGINE COMPARTMENT DUST COVER IN LEFT FRONT WHEEL ARCH - R.R.](#)

[Op. 4450B12 FRONT WHEELS \(TWO\) - R.R.](#)

[Op. 1016A10 SOUND-PROOFING COVER - R.R](#)

[Op. 5530B52 BATTERY SUPPORT/DRIP TRAY - R.R](#)

[Op. 5530B10 BATTERY - R+R](#)

[Op. 7210A52 RIGHT THIRD LOAD LINE - R.R.](#)

[Op. 7210A51 LEFT THIRD LOAD LINE - R.R.](#)

[Op. 7210A02 FRONT END ASSEMBLY - R.R.](#)

[Op. 7025A34 BONNET LID LOCK \(ONE\) - R+R OR REPAIR](#)

[Op. 5540B07 LEFT FRONT HEADLAMP - R.R.](#)

[Op. 5540B08 RIGHT FRONT HEADLAMP - R.R.](#)

[Op. 7210E10 R.R. FRONT BUMPER](#)

[Op. 0010T84 AIR CONDITIONING SYSTEM REFRIGERANT - DEHYDRATING AND REPRESSURIZING](#)

[Op. 0010T40 CHANGE MANUAL GEARBOX OIL](#)

[Op. 0010T20 ENGINE COOLANT - CHANGE](#)

[Op. 0010T67 HYDRAULIC CLUTCH SYSTEM - BLEED AIR](#)

[Op. 7055B54 PROTECTION/GUARD UNDER ENGINE -R.R.](#)

- Remove the vehicle from the lift.