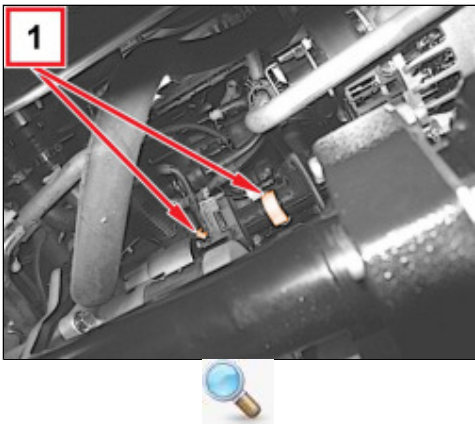


 Removing ([Refitting](#) )

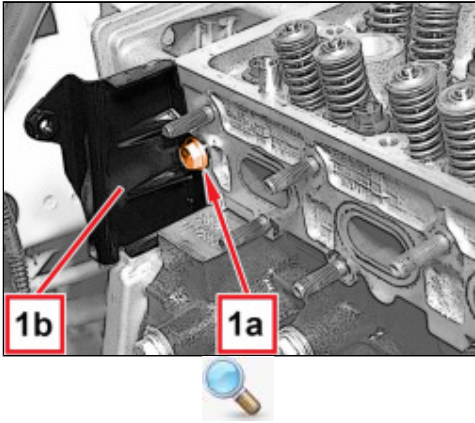
- Place the vehicle on a lift.
- Disconnect the negative battery terminal.

	Description	Connector
-	Battery	See A001 BATTERY

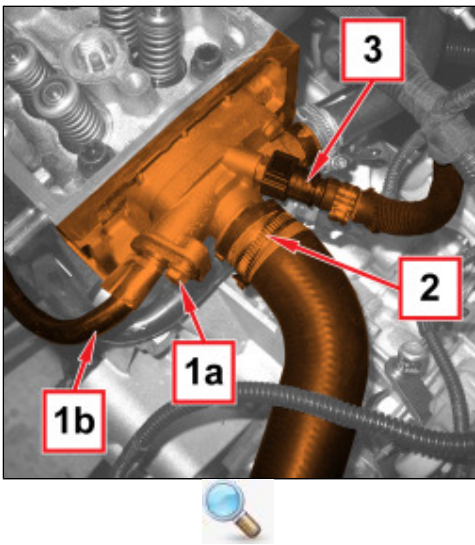
- [Op. 7055B54 PROTECTION/GUARD UNDER ENGINE -R.R.](#)
 - [Op. 1016A10 SOUND-PROOFING COVER - R.R](#)
 - [Op. 1056B65 SOUND INSULATING COVER FOR INJECTOR ASSEMBLY - R.R.](#)
 - [Op. 1072B53 AIR CHAMBER REINFORCEMENT BRACKET - R.R.](#)
 - [Op. 1092G10 AUXILIARY COMPONENTS SINGLE DRIVE BELT - R.R.](#)
 - [Op. 1092A10 SERVICE PULLEY ON CRANKSHAFT - R.R.](#)
 - [Op. 1008B10 POWER UNIT FRONT SUPPORT FLEXIBLE MOUNTING \(TIMING SIDE\) - REPLACE](#)
 - [Op. 1008A46 TIMING SIDE POWER UNIT RIGID SUPPORT - R.R.](#)
 - [Op. 1032D26 FRONT TIMING PROTECTIVE COVER \(UPPER PART\) - R.R.](#)
 - [Op. 1032D27 FRONT TIMING PROTECTIVE COVER \(LOWER PART\) - R.R.](#)
 - [Op. 1032B10 TOOTHED TIMING BELT - R.R. FOR TIMING OR REPLACEMENT](#)
 - [Op. 0010T20 ENGINE COOLANT - CHANGE](#)
 - [Op. 1064A31 HEAT SHIELD FOR TURBOCHARGER - R.R.](#)
 - [Op. 1076A48 CATALYTIC CONVERTER HEAT SHIELD - R.R](#)
 - [Op. 1080B62 CATALYTIC CONVERTER - R + R](#)
 - [Op. 1084C22 HEAT SHIELD ON ENGINE OIL HEAT EXCHANGER - R.R.](#)
 - [Op. 1084B42 ENGINE OIL RETURN PIPE FROM TURBO - R + R](#)
 - [Op. 1072C44 EXHAUST MANIFOLD HEAT SHIELD - R+R](#)
 - [Op. 1048A50 AIR INLET PIPE TO TURBOCHARGER - R + R](#)
 - [Op. 1084B40 ENGINE OIL DELIVERY PIPE TO TURBOCHARGER - R + R](#)
 - [Op. 1088D50 ENGINE COOLANT OUTLET PIPE FROM TURBOCHARGER - R.R.](#)
 - [Op. 1064A27 PIPE BETWEEN VACUUM RESERVOIR AND ACTUATOR CONTROL SOLENOID VALVE - R.R.](#)
 - [Op. 1080D24 ENGINE OIL VAPOUR INTAKE PIPE - R + R](#)
 - [Op. 5510C14 IGNITION COIL/S - R.R.](#)
 - [Op. 1048B58 TURBOCHARGER AIR BY-PASS VALVE - R.R.](#)
 - [Op. 1048B25 INTERMEDIATE RIGID PIPE BETWEEN HEAT EXCHANGER AND THROTTLE BODY - R R](#)
 - [Op. 1048B30 AIR SUPPLY HOSE FROM RIGID PIPE TO THROTTLE BODY - REPLACE](#)
 - [Op. 1080D34 ENGINE OIL VAPOUR SEPARATOR - R.R.](#)
 - [Op. 1016B12 SINGLE CAMSHAFT HOUSING - R.R. WITH TIMING BELT REMOVED - REPLACE GASKET](#)
1. Working underneath the vehicle, open the engine retaining clips to the intake chamber.



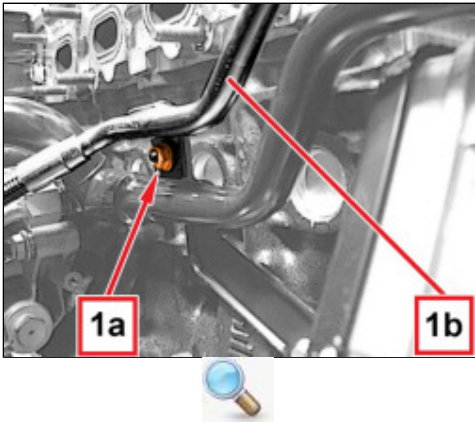
1. Undo the screw (1a) and remove the timing belt inner guard (1b).



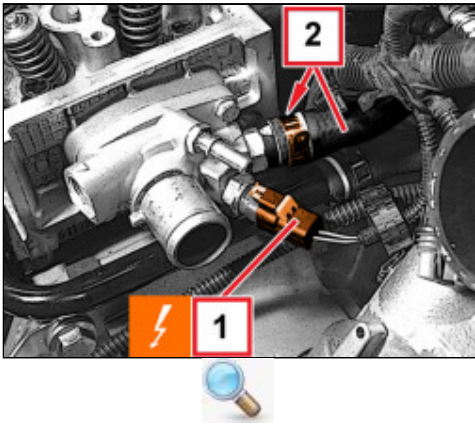
1. Undo the screw (1a) and disconnect the connector for the engine oil heat exchanger coolant delivery pipe (1b), thermostat side.
2. Loosen the band and disconnect the radiator engine coolant supply sleeve, thermostat side.
3. Disconnect the degassing pipe quick connector from the thermostat.



1. Undo the nut (1a) for intermediate fastening of the coolant delivery pipe for engine oil heat exchanger (1b).



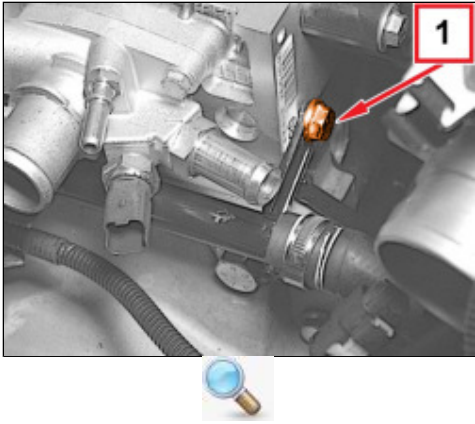
1. Disconnect the electrical connection for the engine coolant temperature sensor.



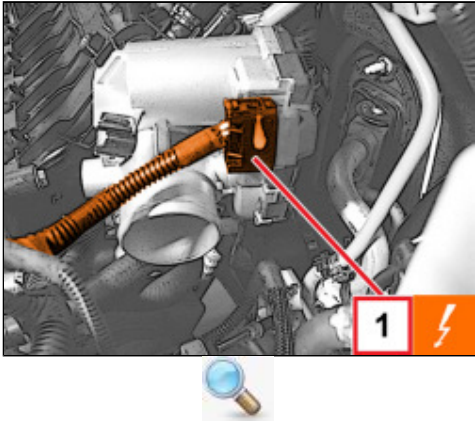
2. Loosen the band and disconnect the radiator engine coolant delivery pipe, thermostat side.

1. Undo the screw fixing the water pump return pipe to the cylinder head.

	Description	Connector
1	Engine coolant temperature sensor/sender unit	See K036 ENGINE COOLANT TEMPERATURE SENSOR/SENDER UNIT

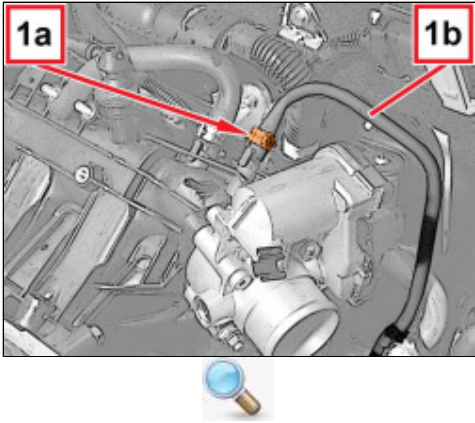


1. Detach the electrical connection for the throttle body.

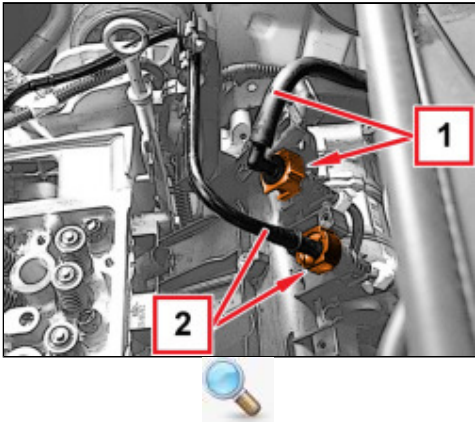


	Description	Connector
1	Integrated throttle body actuator	See N075 INTEGRATED THROTTLE BODY ACTUATOR

1. Loosen the band (1a) and disconnect the brake servo vacuum pipe (1b), intake chamber side.



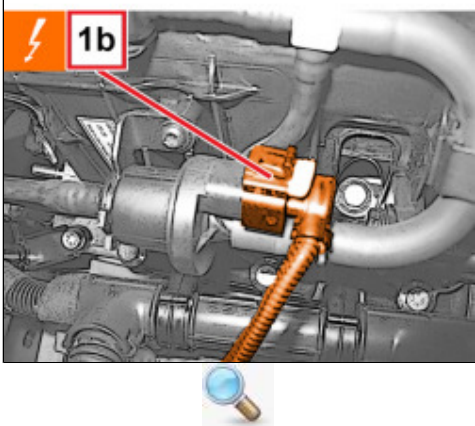
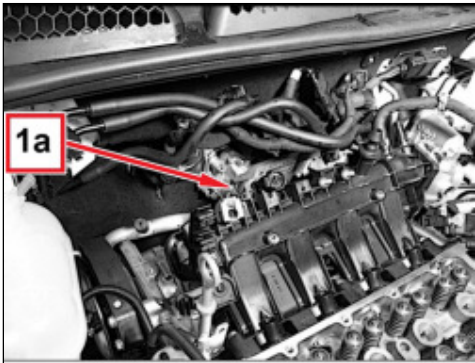
1. Disconnect the quick connector for the fuel vapour pipe from the activated charcoal filter to the solenoid valve, solenoid valve side.
2. Disconnect the quick connector for the oil vapour delivery pipe to the turbocharger intake and remove it.



1. Disconnect the electrical connection for the aspirated air pressure/temperature sensor.

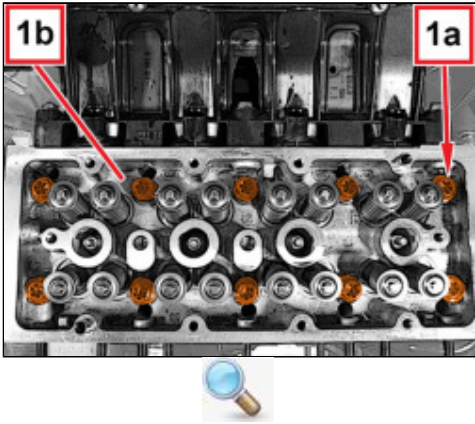


	Description	Connector
1	Integrated air temperature sensor	See K043 INTEGRATED AIR TEMPERATURE SENSOR

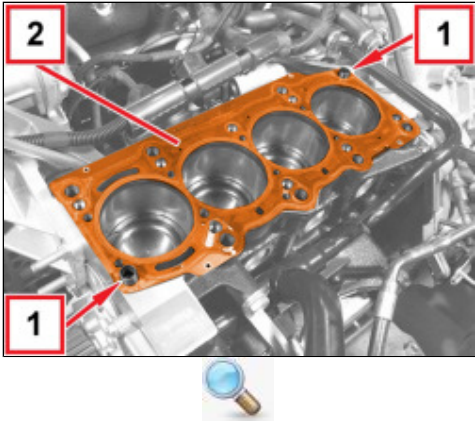


1. Working in the area shown (1a), disconnect the electrical connection for the fuel vapour solenoid valve (1b).

	Description	Connector
1b	Fuel vapour recovery solenoid valve	See L010 FUEL VAPOUR RECOVERY SOLENOID VALVE



1. Undo the screws (1a) and remove the cylinder head (1b).



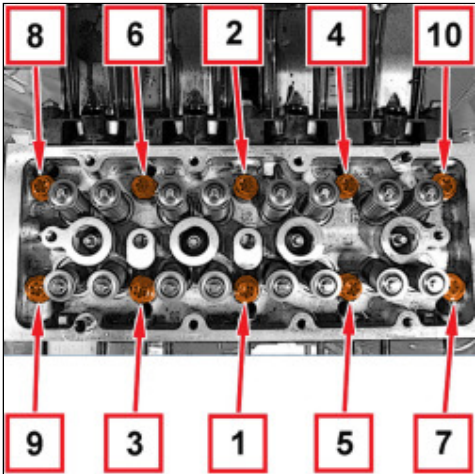
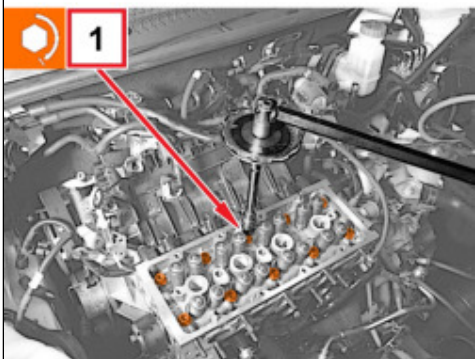
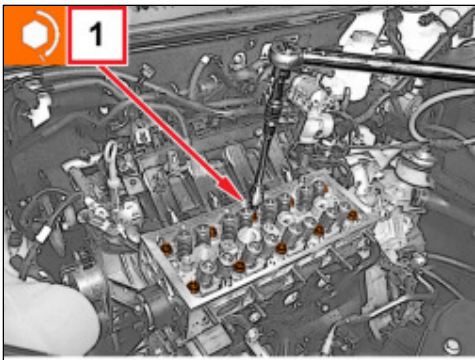
1. Remove the cylinder head locating bushes.

2. Remove the cylinder head gasket.

 Refitting ([Removing](#) )

- Fit a new gasket for cylinder head and the locating bushes.
- Position the cylinder head on the engine block, aligning the locating dowels.
- 1. Tighten the bolts securing the cylinder head to the recommended torque.

Component	Fastening	Ø	Value (daNm)	Validity
Cylinder head	Screw	M9	3.0 + 90° + 90°	1.4 Turbo Petrol



- Follow the order shown in the figure for each tightening sequence.

- Connect the electrical connection for the fuel vapour solenoid valve.

	Description	Connector
-	Fuel vapour recovery solenoid valve	See L010 FUEL VAPOUR RECOVERY SOLENOID VALVE

- Connect the electrical connection for the aspirated air temperature/pressure sensor.

- Place the fuel vapour delivery pipe in position to the turbocharger intake and connect the quick connector, solenoid valve side.

- Connect the quick connector for the fuel vapour pipe from the activated charcoal filter to the solenoid valve, solenoid valve side.

- Connect the vacuum pump pipe for the brake servo, intake chamber side and tighten the band.

- Connect the electrical connection for the throttle body.

	Description	Connector
-	Integrated throttle body actuator	See N075 INTEGRATED THROTTLE BODY ACTUATOR

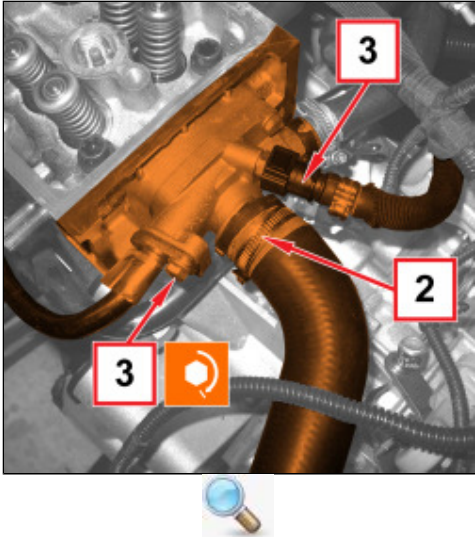
- Tighten the screw fixing the water pump return pipe to the cylinder head.

- Connect the radiator engine coolant supply pipe, thermostat side and tighten the band.

- Connect the electrical connection for the engine coolant temperature sensor.

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	Description	Connector
-	Engine coolant temperature sensor/sender unit	_See K036 ENGINE COOLANT TEMPERATURE SENSOR/SENDER UNIT



1. Connect the degassing pipe quick connector to the thermostat.
 2. Connect the engine coolant delivery sleeve to the radiator, thermostat side, and tighten the band.
- Tighten the nut for intermediate fastening of the coolant delivery pipe for the engine oil heat exchanger.
3. Connect and tighten to the prescribed torque the connector for the coolant delivery pipe to the engine oil heat exchanger, thermostat side.

Component	Fastening	Ø	Value (daNm)	Validity
Coolant supply pipe to engine oil heat exchanger	Connector	M16	3.0 ÷ 3.6	1.4 Turbo Petrol

 The connector should be tightened keeping the pipe still. Any movements of more than 3° affect the seal of the connector.

- Place the timing belt inner guard in its housing and secure it using the relevant screw.

- [_Op. 1016B12 SINGLE CAMSHAFT HOUSING - R.R. WITH TIMING BELT REMOVED - REPLACE GASKET](#)
- [_Op. 1080D34 ENGINE OIL VAPOUR SEPARATOR - R.R.](#)
- [_Op. 1048B30 AIR SUPPLY HOSE FROM RIGID PIPE TO THROTTLE BODY - REPLACE](#)
- [_Op. 1048B25 INTERMEDIATE RIGID PIPE BETWEEN HEAT EXCHANGER AND THROTTLE BODY - R R](#)
- [_Op. 1048B58 TURBOCHARGER AIR BY-PASS VALVE - R.R.](#)
- [_Op. 5510C14 IGNITION COIL/S - R.R.](#)
- [_Op. 1080D24 ENGINE OIL VAPOUR INTAKE PIPE - R + R](#)
- [_Op. 1064A27 PIPE BETWEEN VACUUM RESERVOIR AND ACTUATOR CONTROL SOLENOID VALVE - R.R.](#)
- [_Op. 1088D50 ENGINE COOLANT OUTLET PIPE FROM TURBOCHARGER - R.R.](#)
- [_Op. 1084B40 ENGINE OIL DELIVERY PIPE TO TURBOCHARGER - R + R](#)
- [_Op. 1048A50 AIR INLET PIPE TO TURBOCHARGER - R + R](#)
- [_Op. 1072C44 EXHAUST MANIFOLD HEAT SHIELD - R+R](#)
- [_Op. 1084B42 ENGINE OIL RETURN PIPE FROM TURBO - R + R](#)
- [_Op. 1084C22 HEAT SHIELD ON ENGINE OIL HEAT EXCHANGER - R.R.](#)
- [_Op. 1080B62 CATALYTIC CONVERTER - R + R](#)
- [_Op. 1076A48 CATALYTIC CONVERTER HEAT SHIELD - R.R](#)
- [_Op. 1064A31 HEAT SHIELD FOR TURBOCHARGER - R.R.](#)
- [_Op. 0010T20 ENGINE COOLANT - CHANGE](#)
- [_Op. 1032B10 TOOTHED TIMING BELT - R.R. FOR TIMING OR REPLACEMENT](#)
- [_Op. 1032D27 FRONT TIMING PROTECTIVE COVER \(LOWER PART\) - R.R.](#)
- [_Op. 1032D26 FRONT TIMING PROTECTIVE COVER \(UPPER PART\) - R.R.](#)
- [_Op. 1008A46 TIMING SIDE POWER UNIT RIGID SUPPORT - R.R.](#)
- [_Op. 1008B10 POWER UNIT FRONT SUPPORT FLEXIBLE MOUNTING \(TIMING SIDE\) - REPLACE](#)
- [_Op. 1092A10 SERVICE PULLEY ON CRANKSHAFT - R.R.](#)
- [_Op. 1092G10 AUXILIARY COMPONENTS SINGLE DRIVE BELT - R.R.](#)

[Op. 1072B53 AIR CHAMBER REINFORCEMENT BRACKET - R.R.](#)

[Op. 1056B65 SOUND INSULATING COVER FOR INJECTOR ASSEMBLY - R.R.](#)

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

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

- Connect the negative battery terminal.

	Description	Connector
-	Battery	See A001 BATTERY

- Remove the vehicle from the lift.