

## Sensor exhaust gas temperature Bank 1 (W12 twin turbo) - To remove and fit

Disconnect the battery. ([refer to bin: 0915](#))

Remove the engine compartment covers. ([refer to bin: 0100](#))

Remove the rear mounting bolt for the Bank 1 air cleaner assembly.

 [012901w0005](#)

Lift the air cleaner assembly from the stay bolts. Disconnect the electrical connection from the flow meter. Place a cap over the turbocharger inlet pipe, to prevent any debris falling inside.

 [012901w0006](#)

Disconnect the electrical connection to the exhaust gas temperature sensor control module.

Remove the bracket that attaches the sensor control module to the cylinder head cover.

Remove the sensor control module from the bracket.

 [090603w0020](#)

Disconnect the alternator cable from the alternator stud box. Remove the alternator cable clips from the retaining studs on the inner wing and reposition the cable to improve access to the sensor.

 [090603w0019](#)

Flatten the cable heat shield against the inner wing, to improve access to the sensor.

Remove the engine cover retainer from its mounting bracket, to improve access to the sensor.

 [090603w0021](#)

### Important:

Before removing the sensor, make a note of its position. Fit the new sensor in the same position.

Using special tool [WT 10189] ([refer to table: tool\\_090602\\_by614\\_01](#)), remove the sensor from the exhaust manifold.

 [090603w0008](#)

### Installation:

#### Caution:

Fit the new sensor in the same position as the one removed. Do not force or bend the sensor to achieve clearance or alignment.

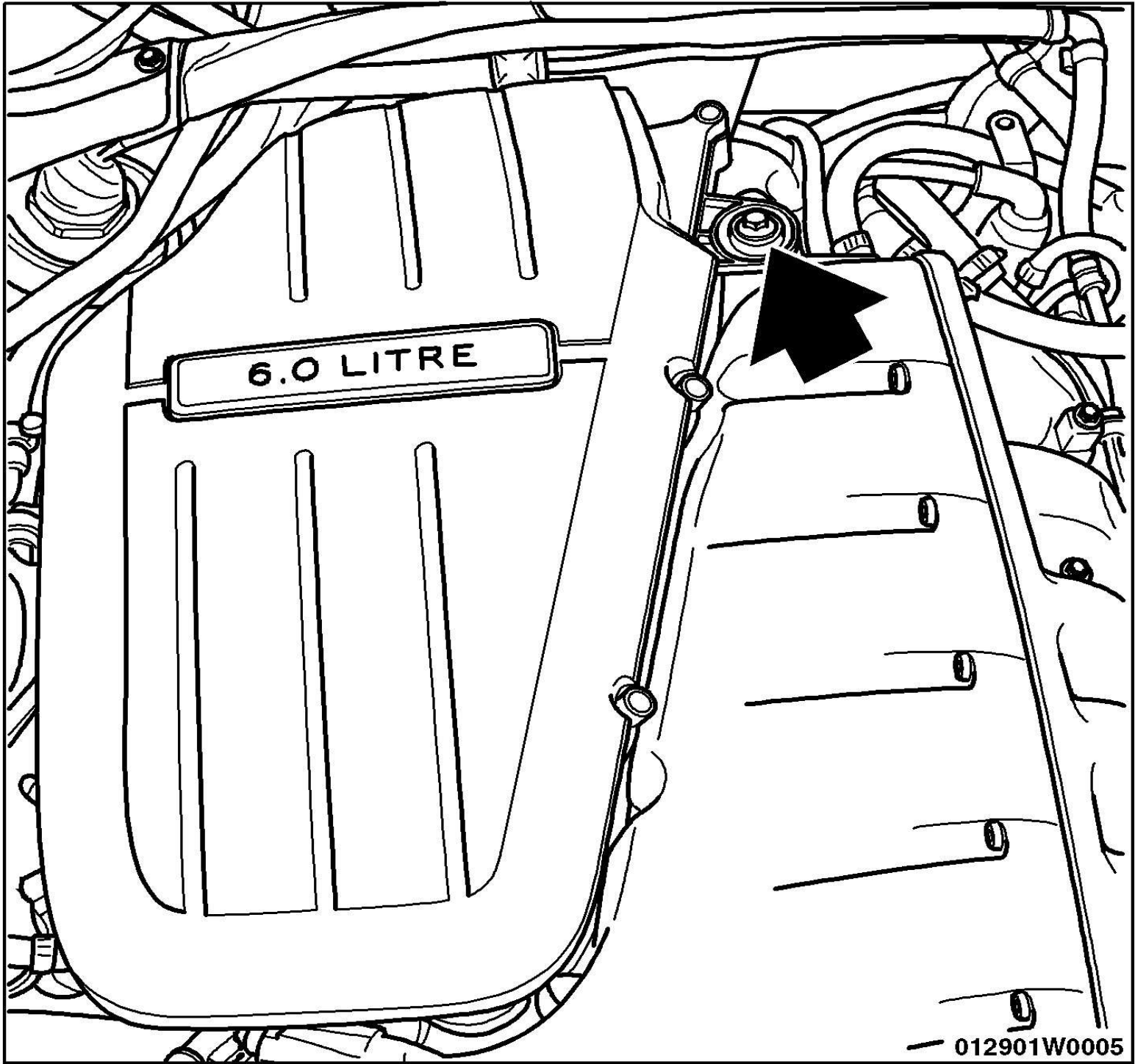
Torque tighten the sensor using special tool [WT10189]. This tool consists of a special spanner and a torque wrench that is calibrated for use with the spanner: do not use an alternative torque wrench. ([refer to table: torq\\_090603\\_by614\\_01](#))

#### Note:

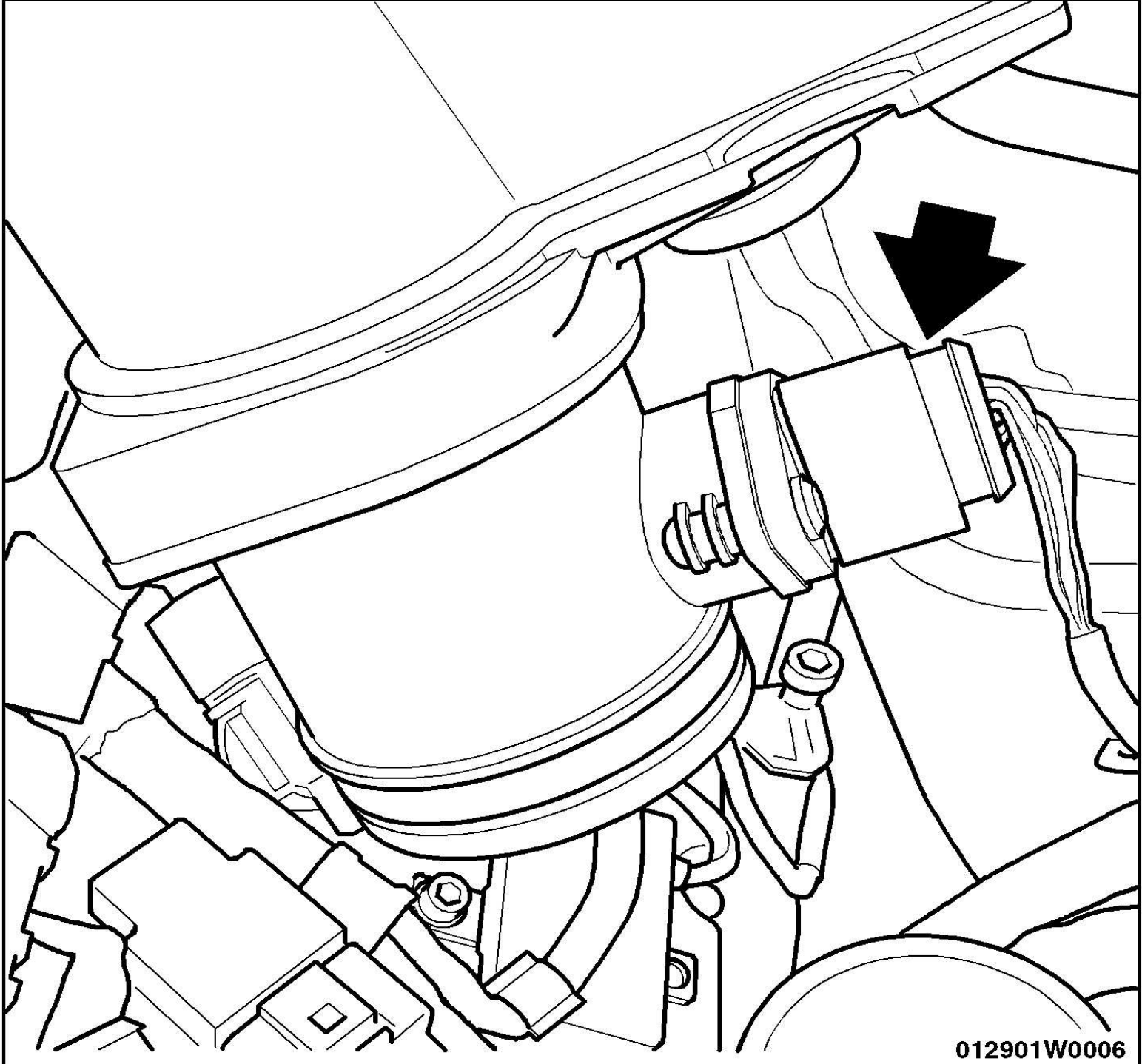
The torque wrench must be fitted in line with the spanner, so that the correct torque is achieved.

 [090603w0022](#)

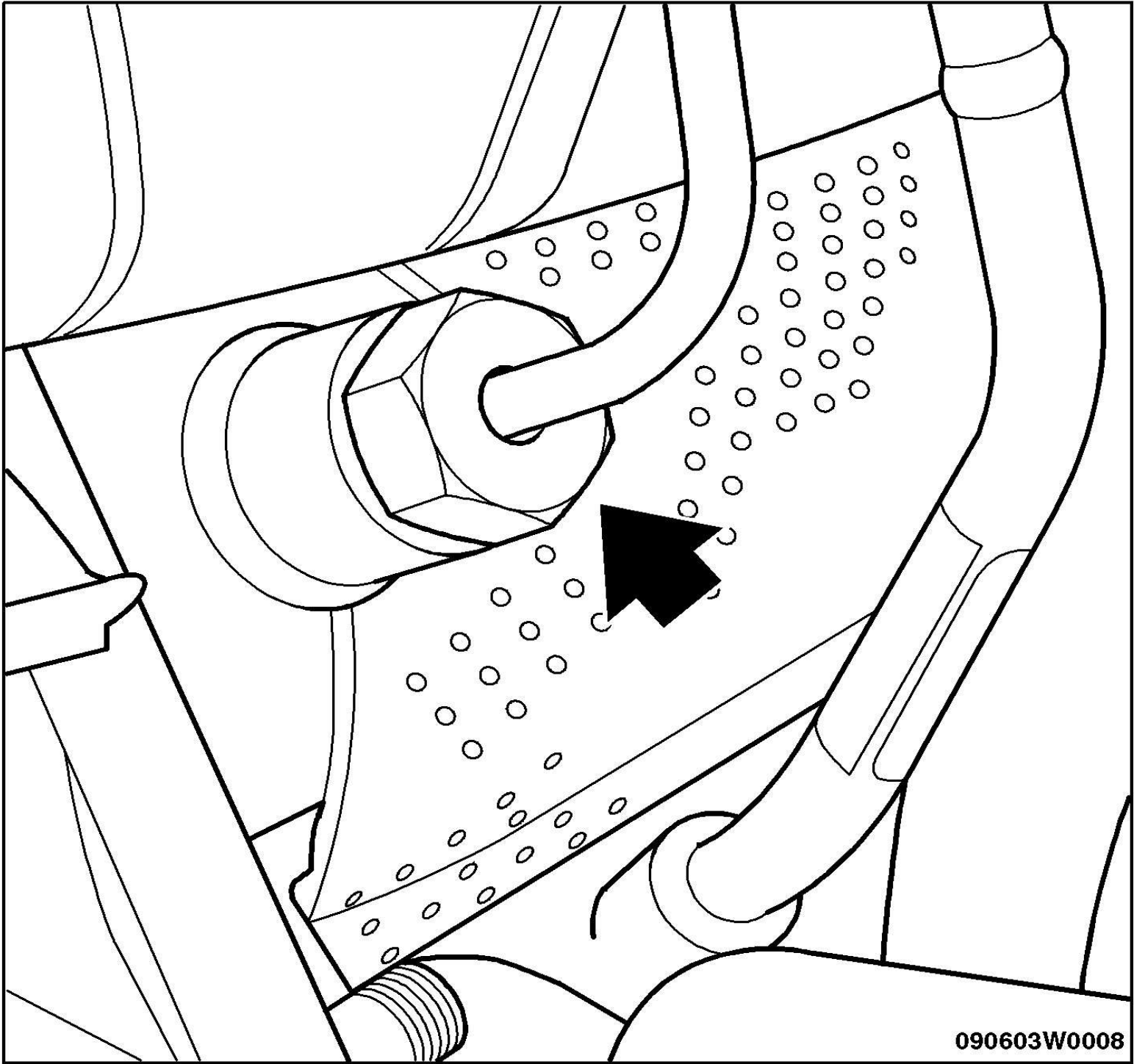
Reshape the heat shield before refitting the alternator cable. Ensure the cable is returned to its original position, located behind the heat shield.



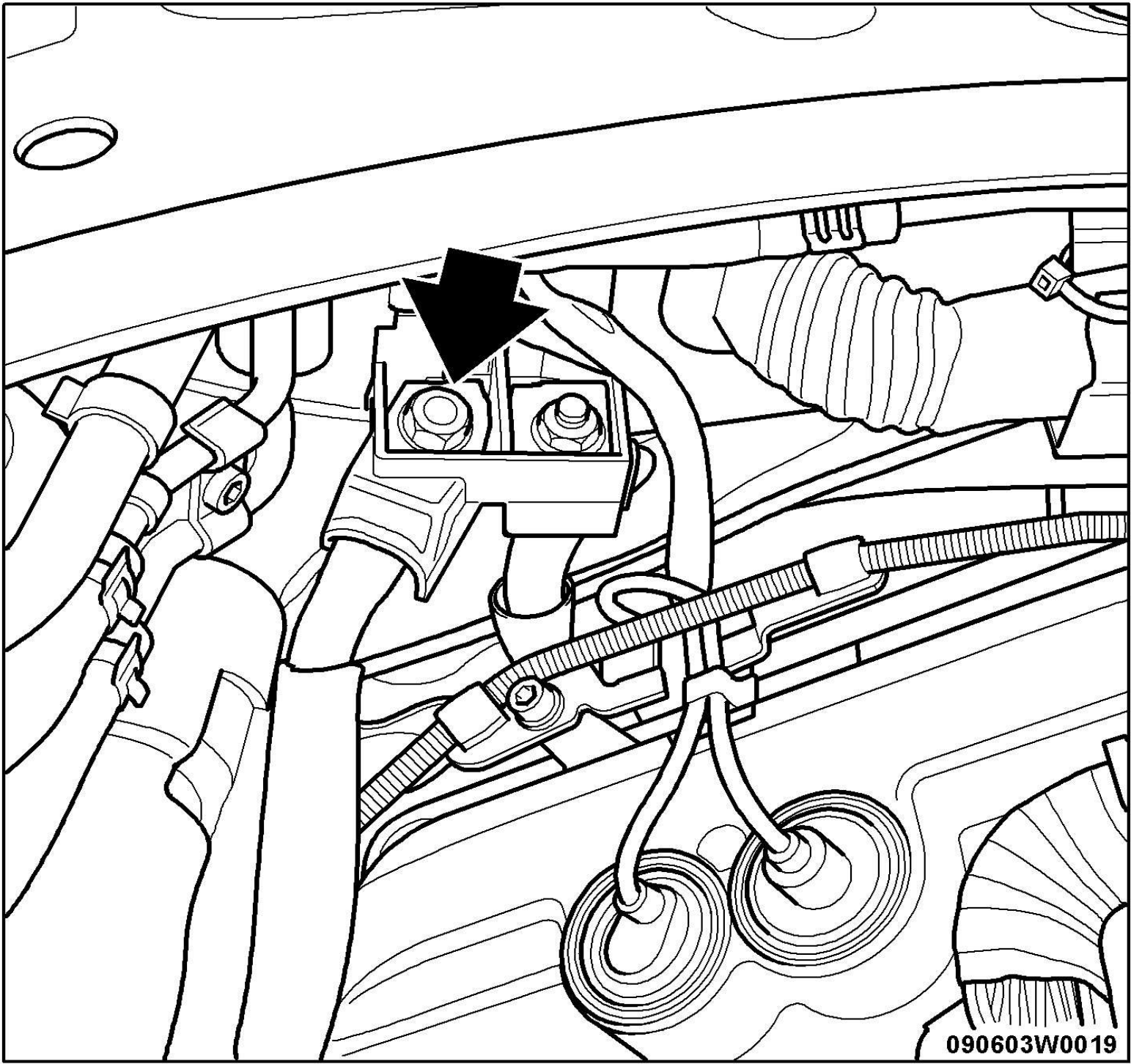
— 012901W0005



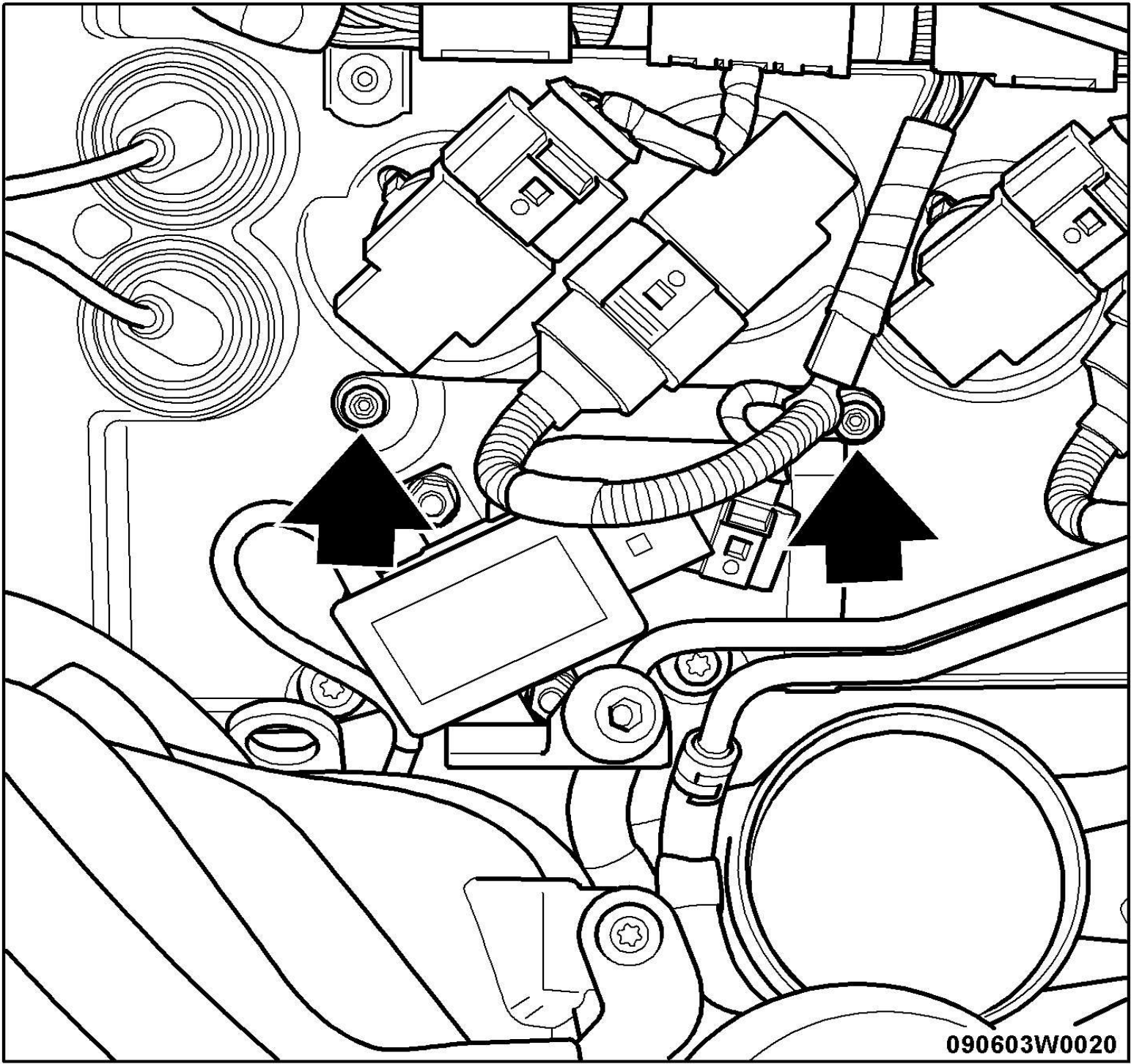
012901W0006



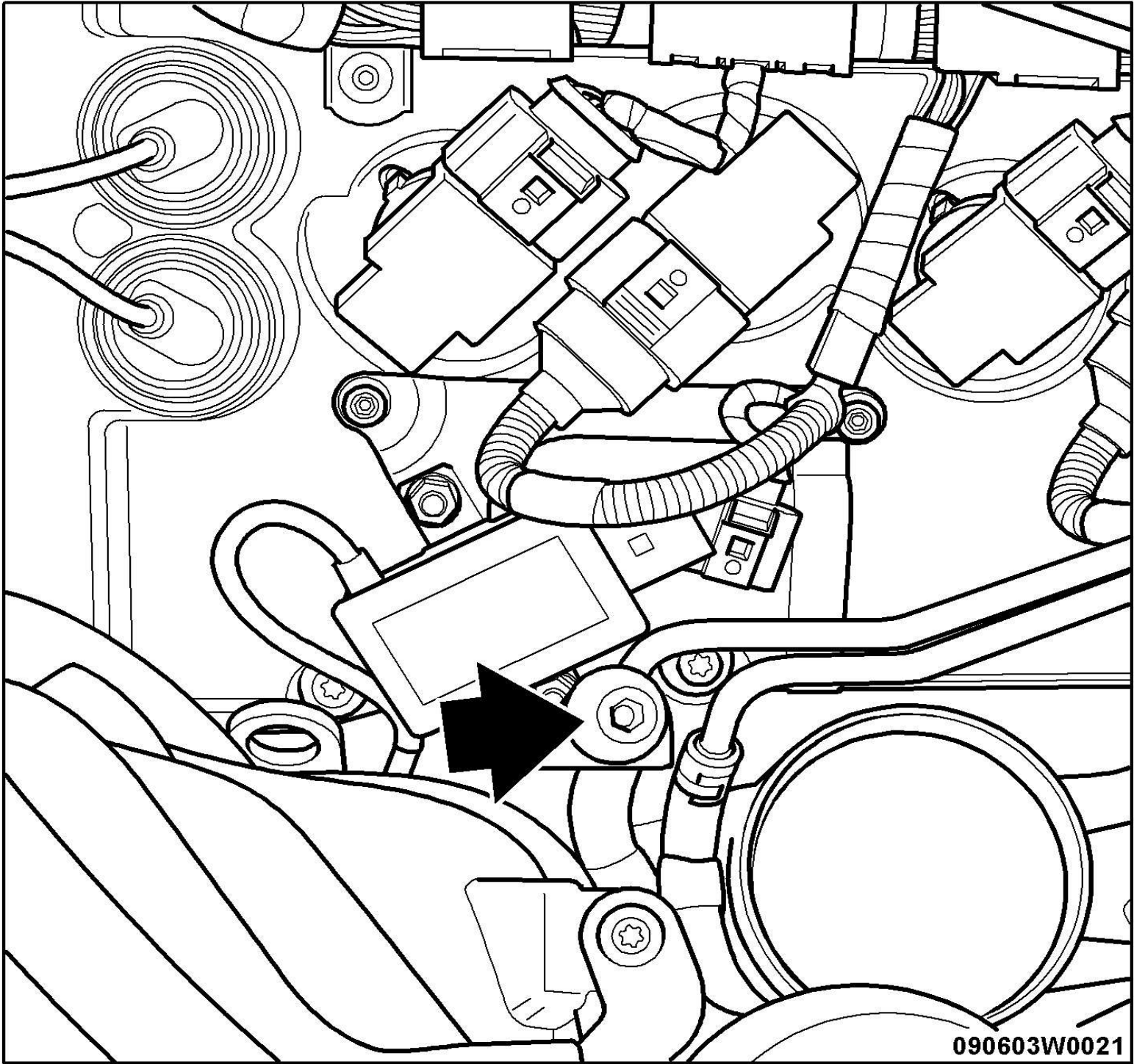
090603W0008



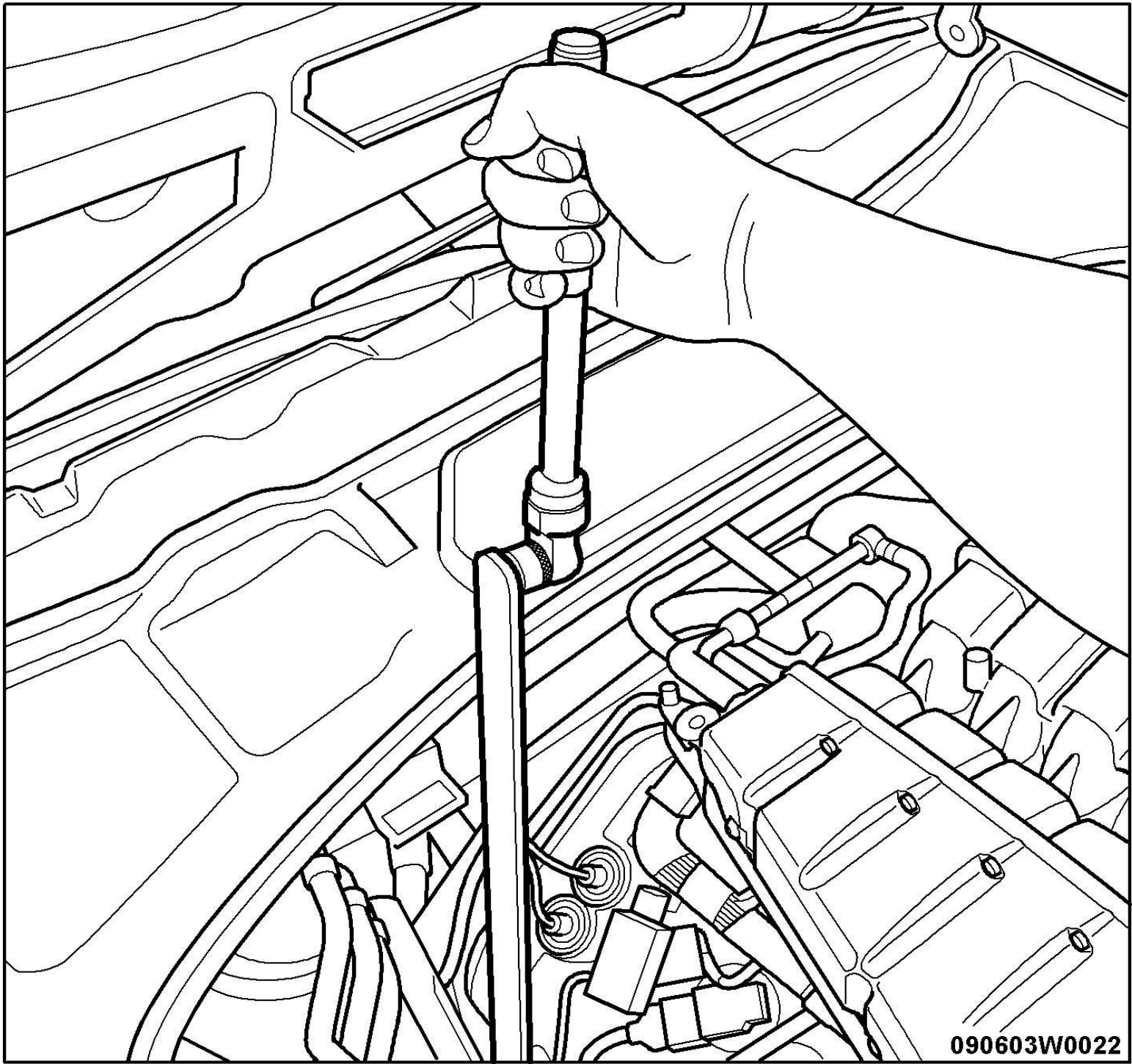
090603W0019



090603W0020



090603W0021



090603W0022

## Sensor exhaust gas temperature Bank 2 (W12 twin turbo) - To remove and fit

Position the vehicle on ramp.

Disconnect the battery negative leads. ([refer to bin: 0915](#))

Remove the engine compartment covers. ([refer to bin: 0100](#))

Remove bank 2 air cleaner assembly. ([refer to bin: 0129](#))

Disconnect the electrical connection.

<b>Important:</b>
-------------------

Note the position of the sensor, fit the new sensor in the same position.
---

Remove the sensor control module.

 [090603w0009](#)

Remove the sensor from the exhaust manifold.

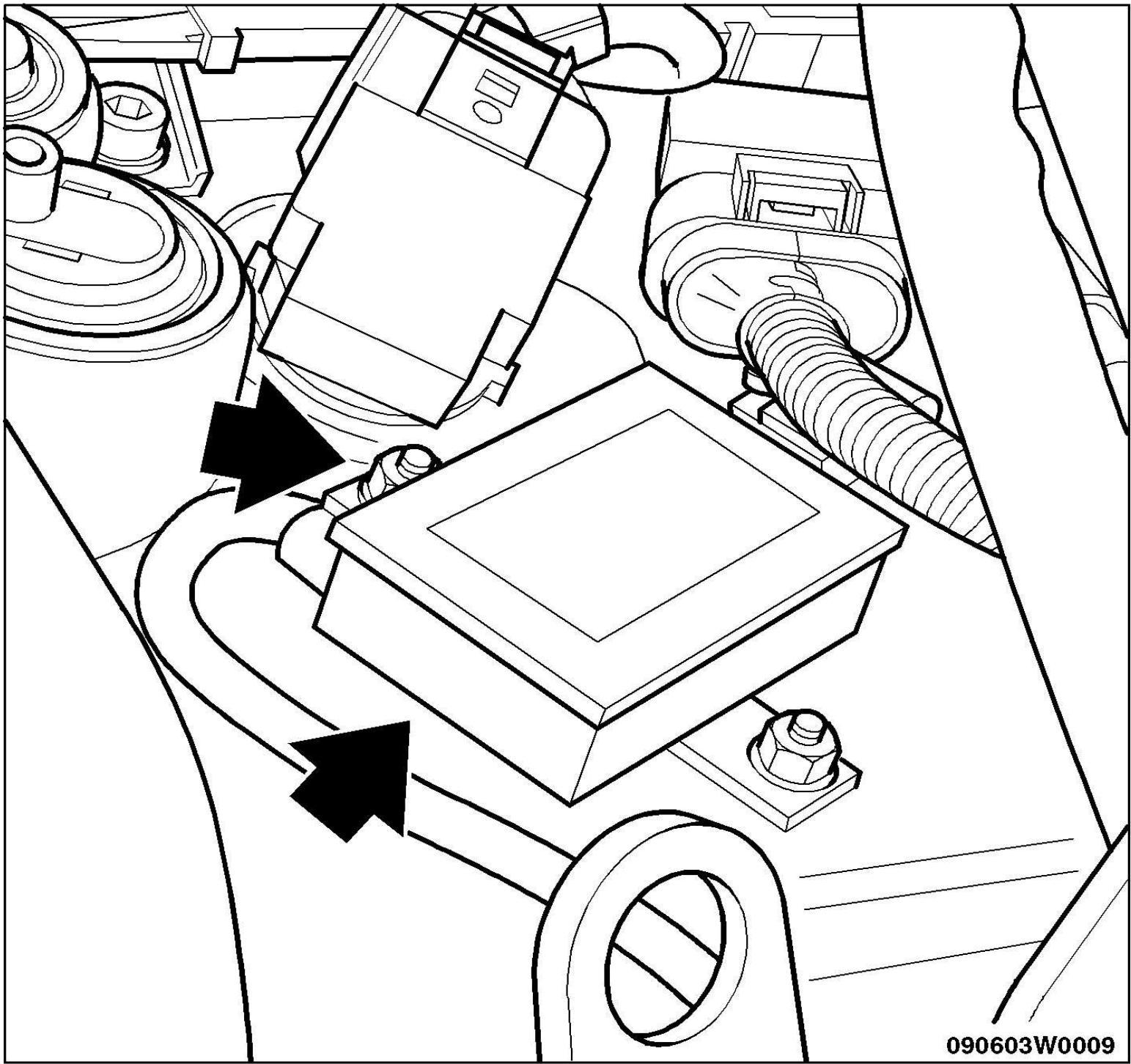
### Installation:

<b>Caution:</b>
-----------------

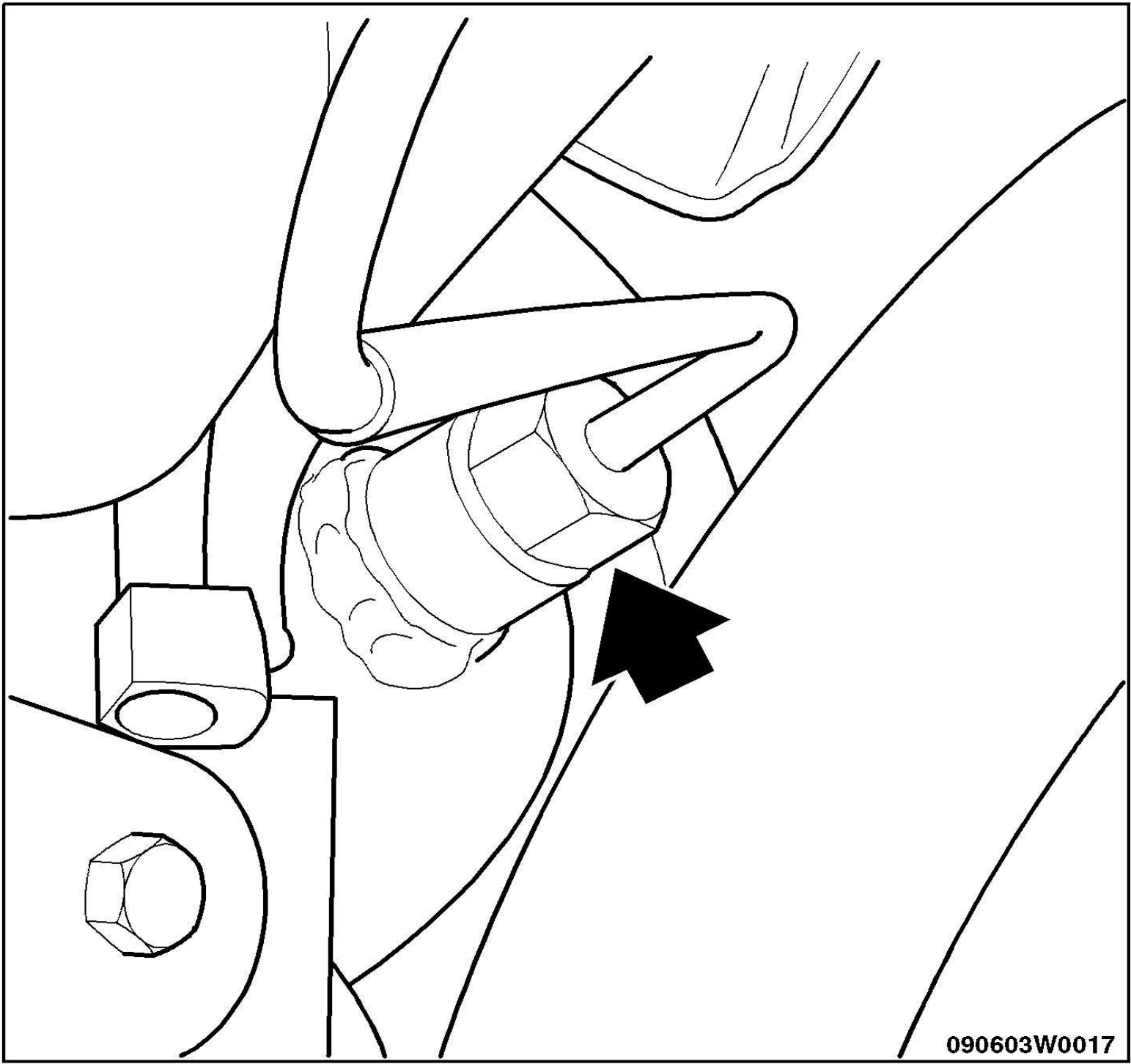
Position the sensor in its original position, do not force or bend the sensor to achieve clearance or alignment.
--

Torque tighten all fasteners. ([refer to table: torq\\_090603\\_by614\\_01](#))

 [090603w0017](#)











090603W0009



090603W0017

## Special torque tightening figures BIN 090603

Component	Nm	kgf m	lbf ft	Angle	Graphic
Air intake temperature sensor	8	0,8	5.9	-	 090603w0005 #
Oil pressure switch	20	2,0	15	-	 090603w0001 #
Exhaust gas temperature sensor	35	3,5	26	-	 090603w0008 #
Crankshaft timing sensor	9	0,9	6.6	-	 090603w0004 #
Camshaft position sensor	10	1,0	7	-	 090603w0018 #
Oil level/temp sensor	10	1,0	7	-	 090603w0014 #
Screw - Exhaust gas temperature sensor bracket to cylinder head cover, bank 1	10	1,0	7.4	-	 090603w0020 #
Capscrews - Exhaust gas temperature sensor bracket and engine loom to cylinder head cover, bank 2	10	1,0	7.4	-	 010302w0008 #