

11 65 020**Removing and installing / replacing
exhaust turbocharger (N55)****Warning!**

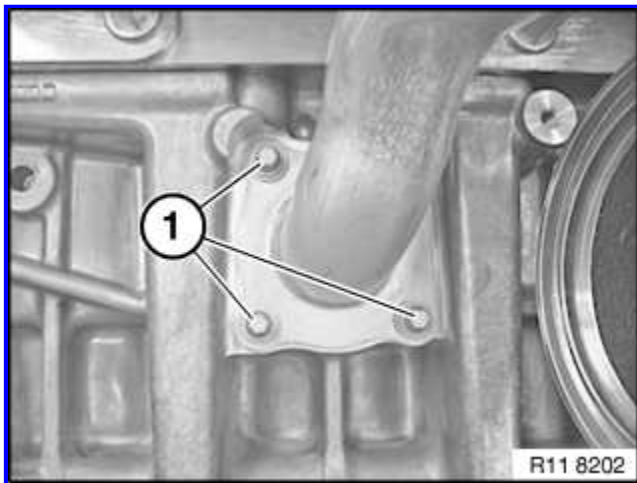
The module consists of exhaust turbocharger and exhaust manifold.

The weight of the turbocharger is approx. 15 kg.

*Necessary preliminary tasks:*

- Remove the [catalytic converter](#).
- Remove [charge air duct](#).
- Drain [coolant](#).
- Remove [expansion tank](#).
- Remove [air duct](#)
- Remove right [engine mount](#).

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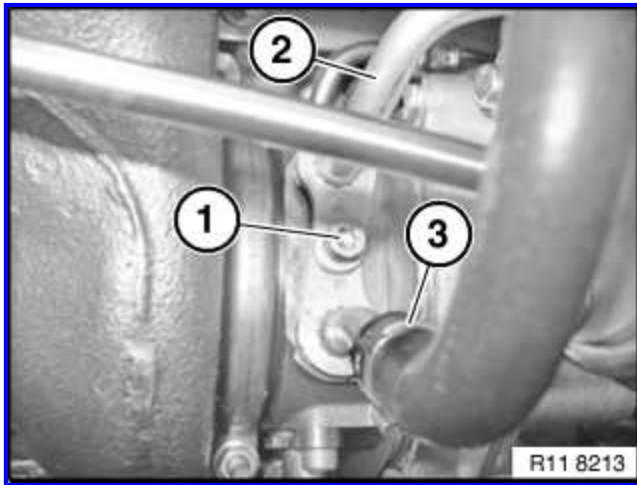
Release screws (1).

Tightening torque [11 53 4AZ](#).

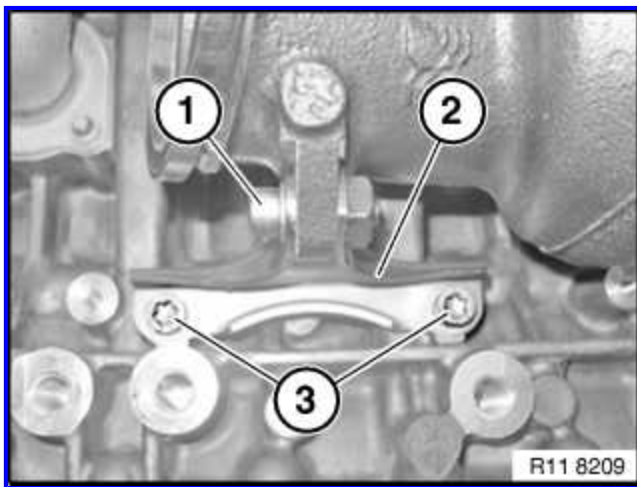
Release screw (1).

Tightening torque [11 53 10AZ](#).

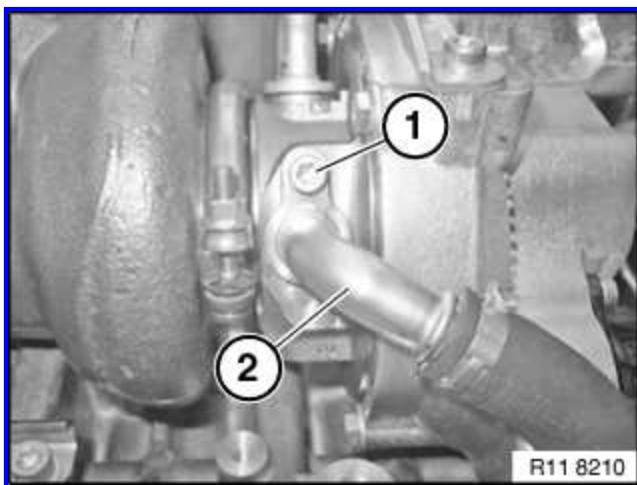
If necessary, use appropriate tool to loosen coolant return line (3) and coolant flow line (2) at connection point.



Installation note:
Replace sealing rings.



Release screw (1).
Loosen screws (3) but do not remove.

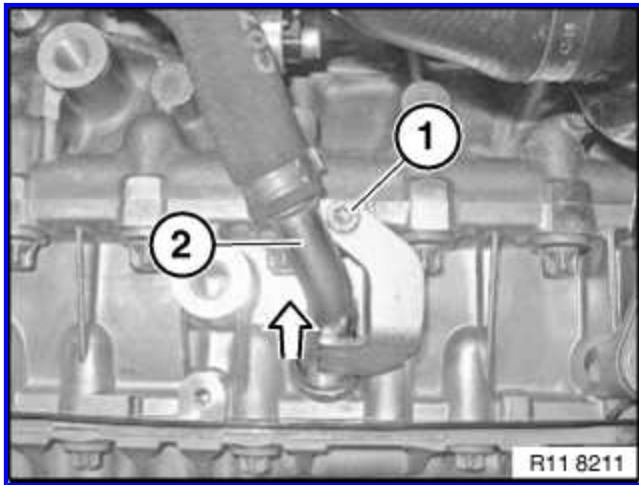


Release screw (1).
Tightening torque [11 42 6AZ](#).
If necessary, use appropriate tool to loosen oil return lines (2).

Installation note:
Replace sealing ring.

Release screw (1).
Tightening torque [11 42 7AZ](#).
If necessary, use appropriate tool to loosen oil return lines (2).
Oil may escape when the oil return line is disconnected.

Installation note:
Replace sealing ring.



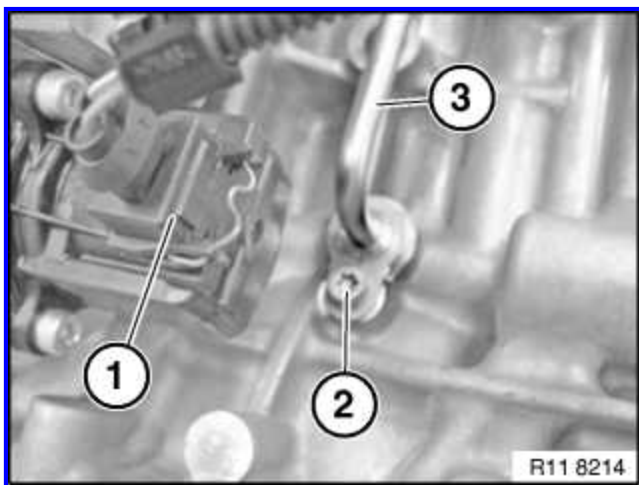
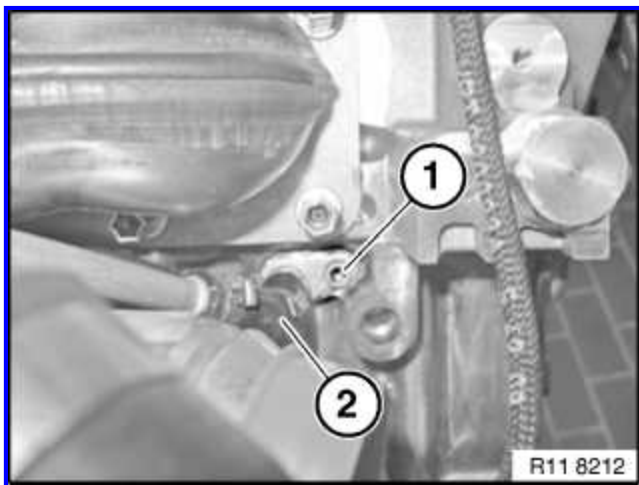
Release screw (1).

Tightening torque: [11 42 4AZ](#).

If necessary, use appropriate tool to loosen coolant return lines (2) at connection point.

Installation note:

Replace sealing ring.



Loosen plug connection (1) at blow-off valve.

Release screw (2).

Tightening torque [11 65 4AZ](#).

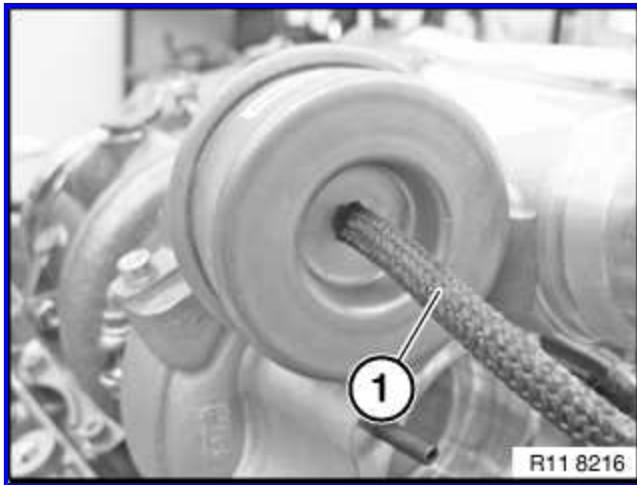
If necessary, use appropriate tool to loosen oil feeder lines at point of connection (3).

Oil may escape when the oil return line is disconnected.

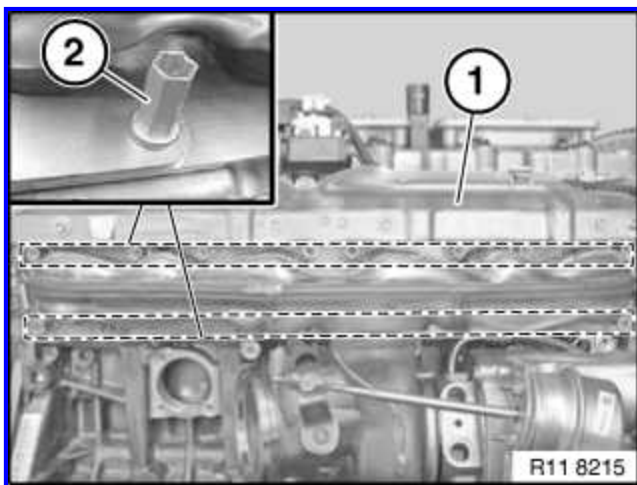
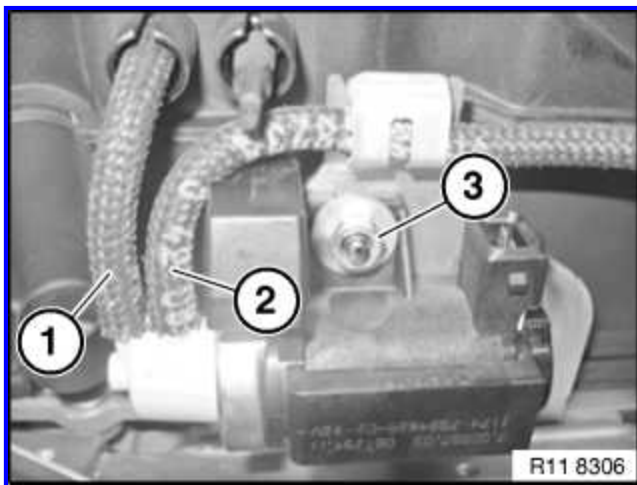
Installation note:

Replace sealing ring.

Disconnect vacuum hose (1) from vacuum line.



Disconnect vacuum hose (1) from cylinder head cover.



Remove heat shield (1).

Tightening torque: [11 65 2AZ](#)

Loosen all flange nuts (2) along the line.

Remove module by manoeuvring downwards on gearbox side.

Note:

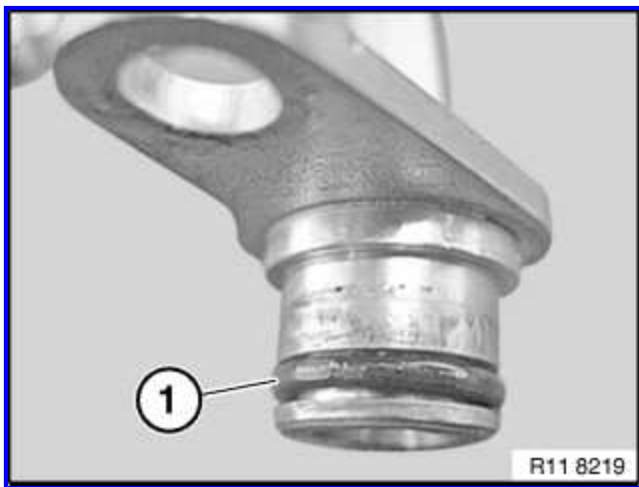
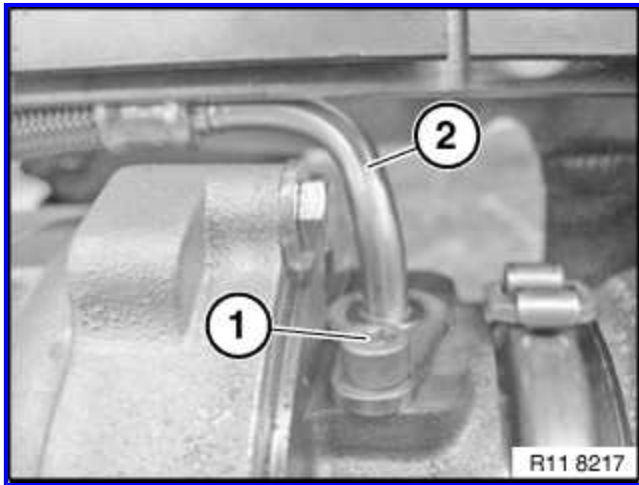
Overall weight of module is **approximately 15 kg**.

Note:

Oil supply line (2) can only be replaced after removal of the exhaust turbocharger.

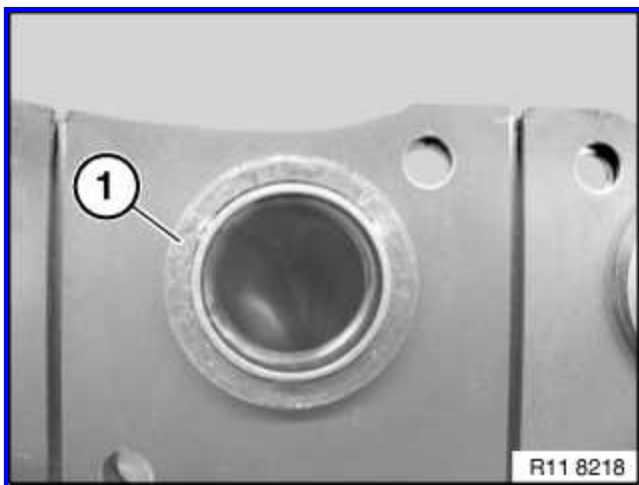
Release screw (1).

If necessary, use appropriate tool to loosen oil feeder lines at point of connection (2).



Installation note:

Replace all sealing rings (1).

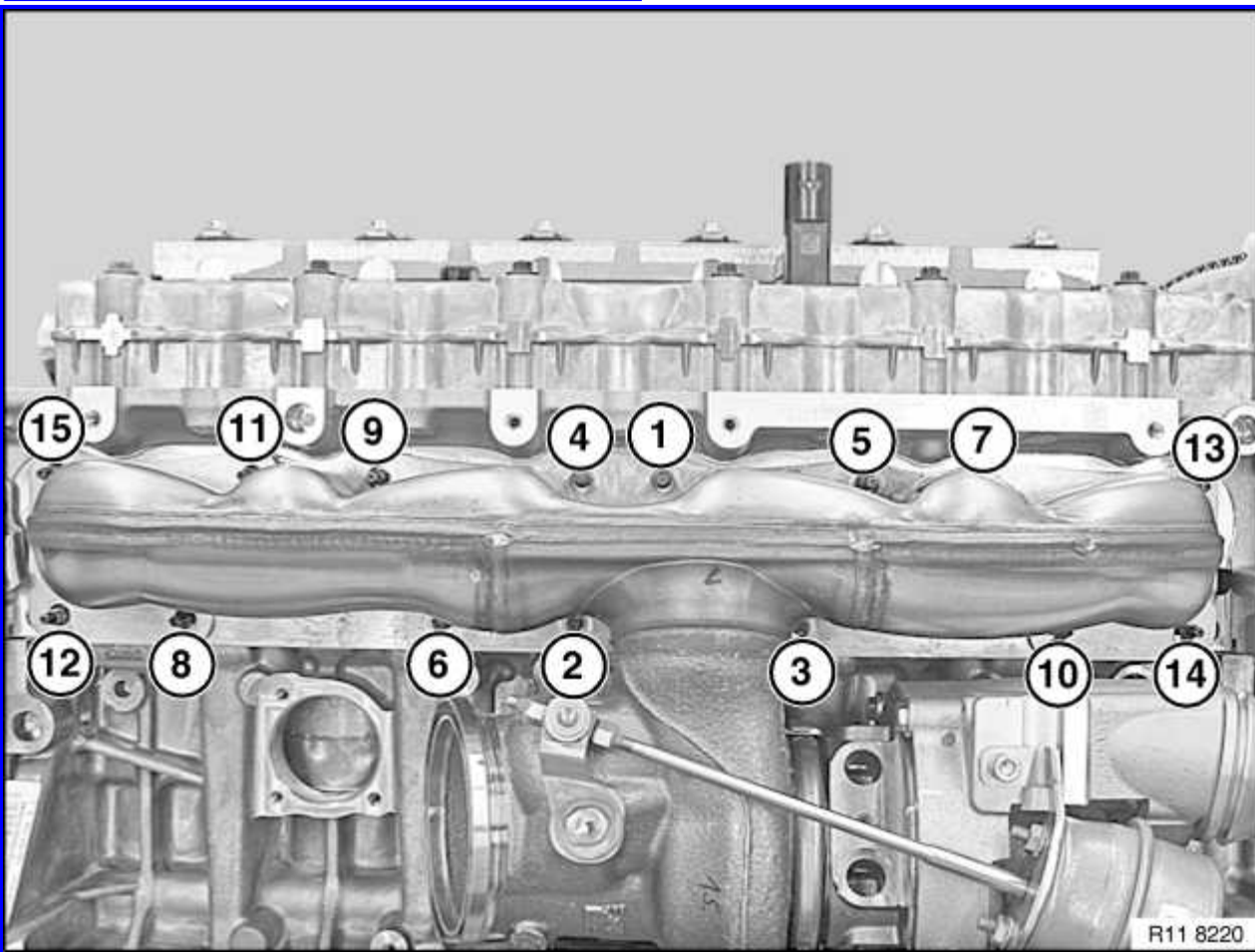
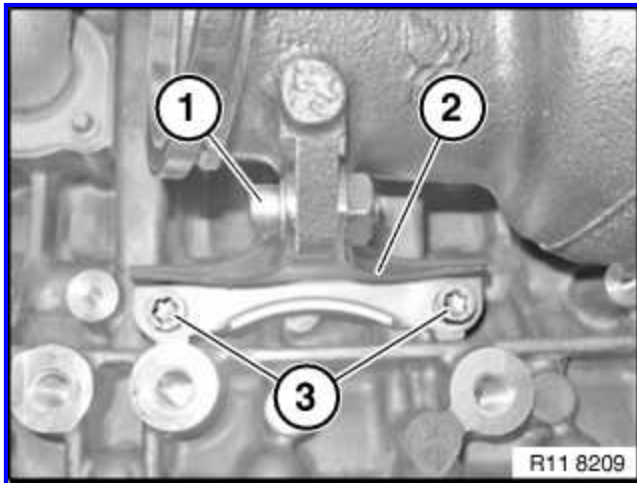


Installation note:

Replace all graphite seals (1).

Position exhaust turbocharger on cylinder head and hold in place with two bolts.

Insert bolt (1) but do not tighten at this point.



Important!

The module consists of exhaust turbocharger and exhaust manifold and must be installed stress-free.

Torque and tightening sequence must be observed without fail.

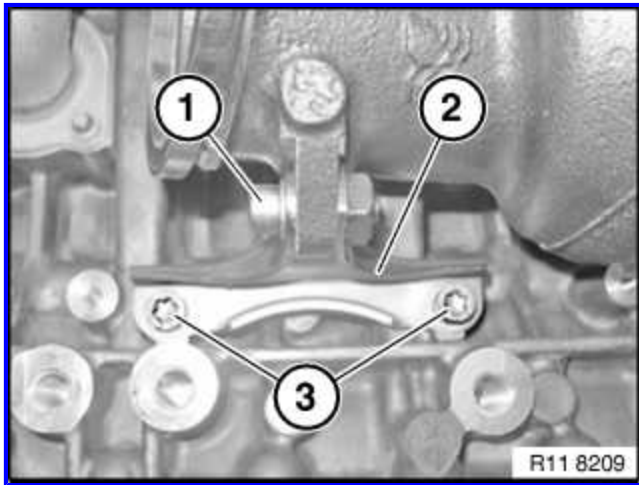
Tightening torque: [11 65 1AZ](#).

1. Join all flange nuts in sequence 1 to 15 to **8 Nm**.
2. Tighten all flange nuts to a torque of **13 Nm** in sequence (1 to 15).

Installation note:

Flange nuts 1 to 5 are accessible from above.

Flange nuts 6 to 15 are accessible from below.



Secure screws (3).

Tightening torque: [11 65 9AZ](#).

Tighten bolt (1).

Tightening torque [11 65 8AZ](#).



Top up with [coolant](#).

Assemble engine.

Observe BMW Diagnosis System instruction.

Carry out BMW leakage test for intake system.