

REP-REP-RAE9011N47T-1161550 Removing and installing/replacing air intake plenum (N47 D20 O1)

VIN:	E563507	Vehicle:	3/E90/SEDAN/320d/N47/MANUAL/EUR/LL/2011/01
System Version:	3.42.40.11060	Data Version:	R3.42.40.11060

11 61 550

Removing and installing/replacing air intake plenum (N47 D20 O1)



Installation note:

If the air intake plenum is replaced, the stop values for the swirl flaps must be deleted and taught in again.

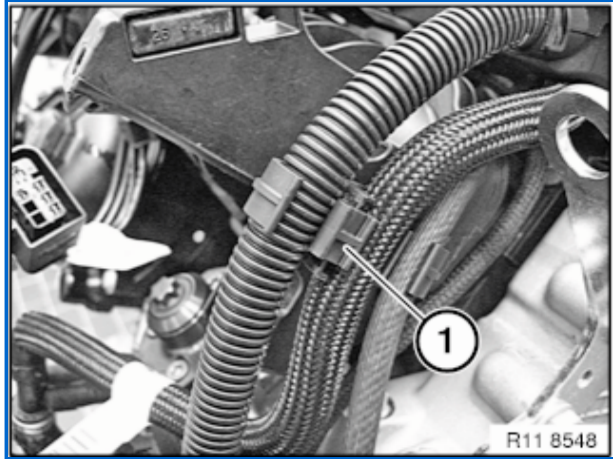
Follow diagnosis instruction.



Necessary preliminary tasks:

- Disconnect negative battery cable.
- Remove [acoustic cover](#)
- Remove lower section of [microfilter housing](#) (only E9x, E84).
- Remove [pressure pipe](#) at throttle body.

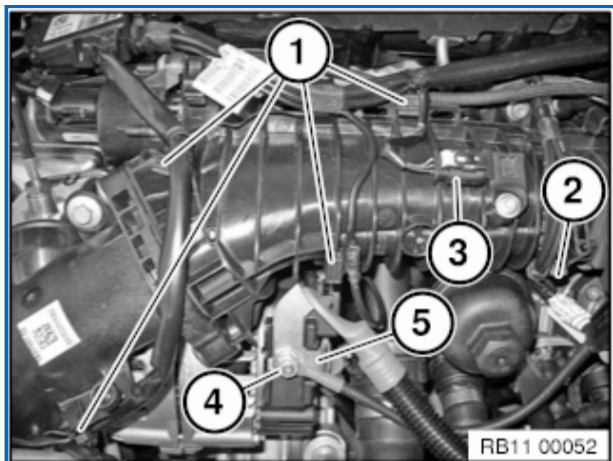
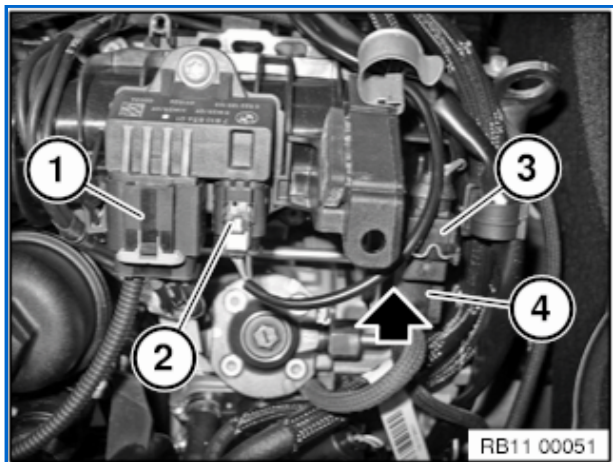
Push the cable clamps (1) on both halves apart and pull them off the holder.



Disconnect plug connection (1 and 2) from the preheating control unit.

Disconnect plug connection (3) from the electric changeover valve (4) of the engine mount.

Detach the electric changeover valve (4) in direction of arrow and lay to one side.



Loosen all cable clamps (1 and 2) on the intake plenum.

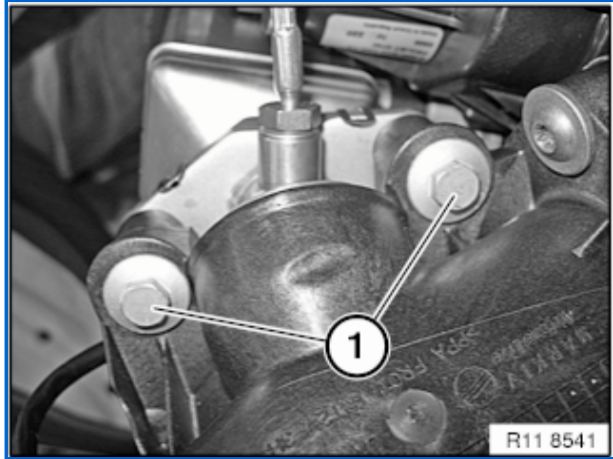
Disconnect plug connection (3) at charge air pressure sensor.

Release nut (4) on alternator.

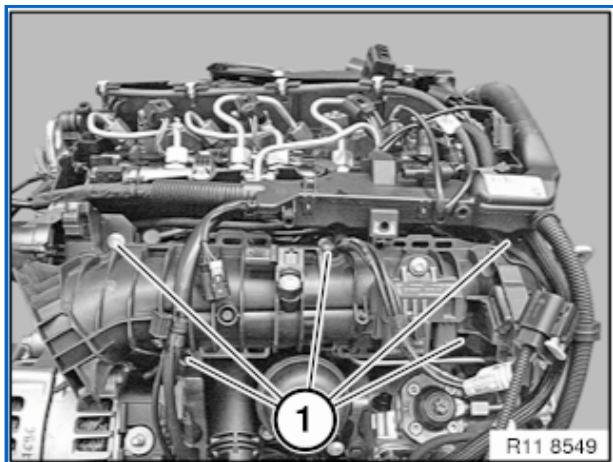
Tightening torque: 12 52 2AZ

Lay positive battery cable (5) to one side.

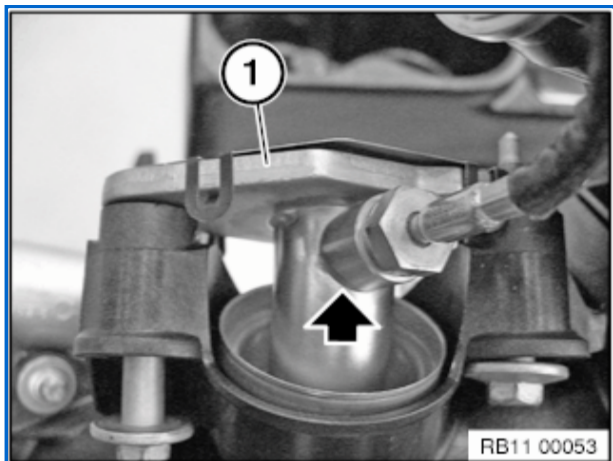
Loosen screws (1) on the exhaust-gas recirculation cooler.



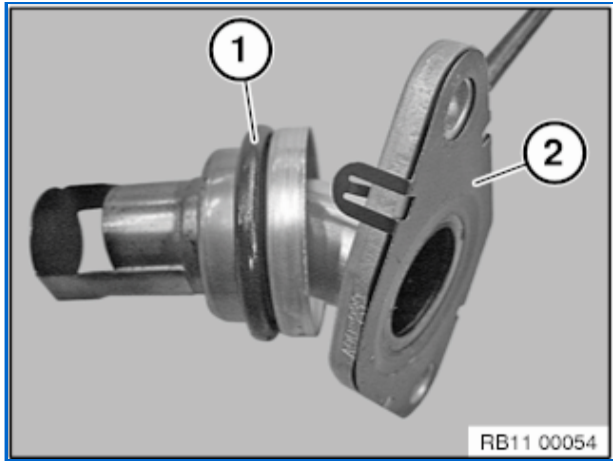
Release screws (1).
Remove the air intake system toward the top.



Remove the exhaust-gas recirculation pipe (1) in
direction of arrow.



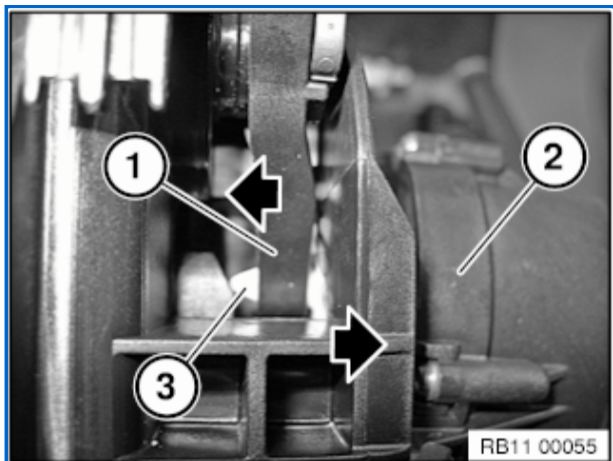
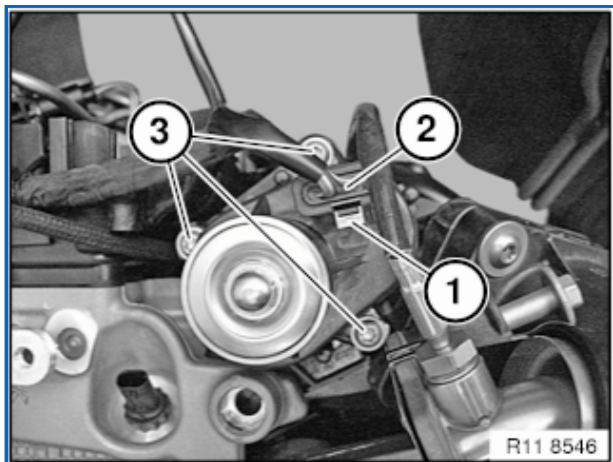
Installation note:
Replace O-ring (1).
Replace beaded metal gasket (2).



Replace intake plenum.

Release screws (3).

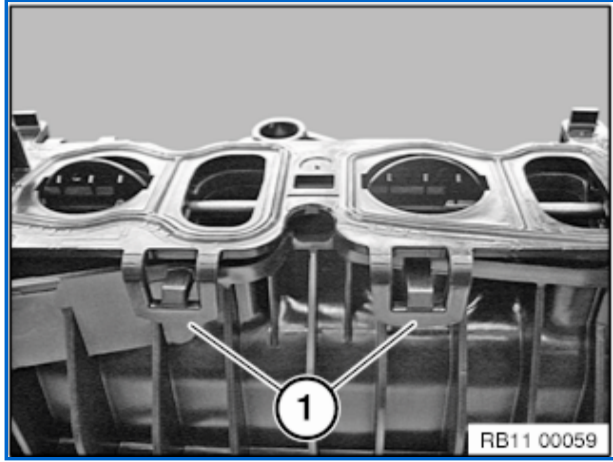
Modify the swirl-flap actuator (2).



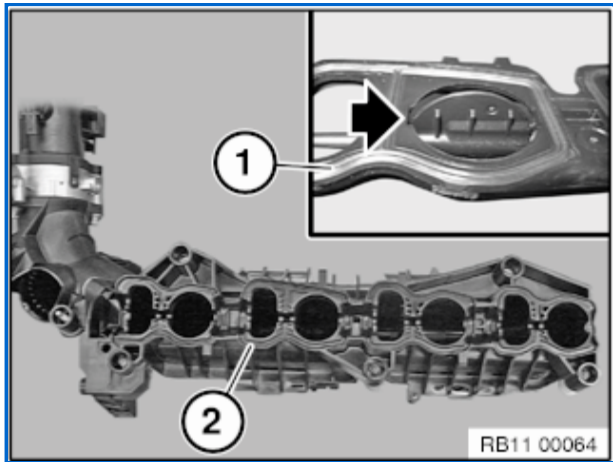
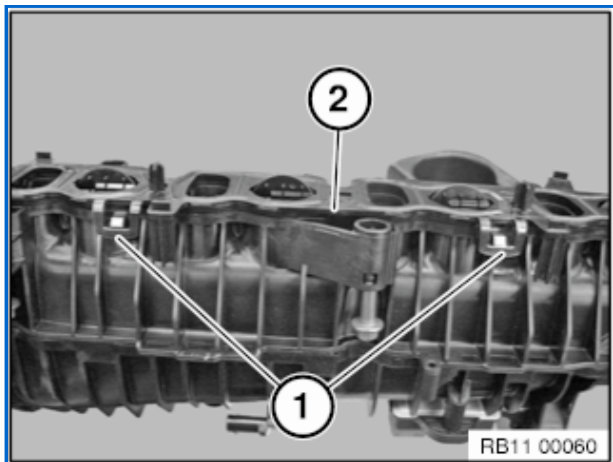
Slide the drive unit for swirl flaps (2) forward in direction of arrow.

Lift the connecting lever (1) with a screwdriver in direction of arrow until the guide lever (3) is disconnected from the connecting lever (1).

Unclamp retaining clamps (1) from the seal holder.



Unclamp retaining clamps (1) from the seal holder.
Remove the seal holders (2) with swirl flaps.



Installation note:

Open all swirl flaps to install the seal holder (1). This prevents jamming the seal holder (1).

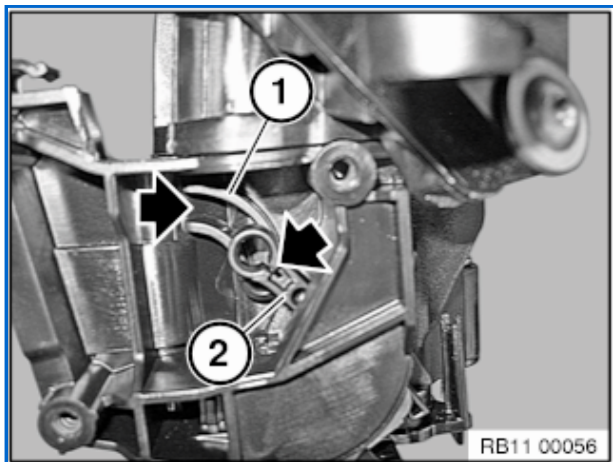
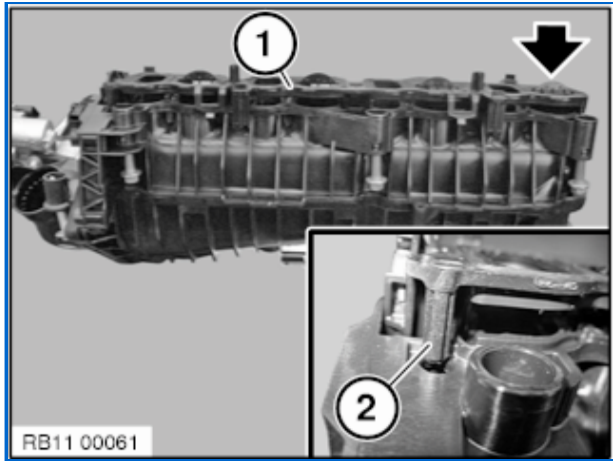
Clean the sealing ring on the intake plenum (2).

Position the seal holder (1) with open swirl flaps on the intake plenum (2).

Installation note:

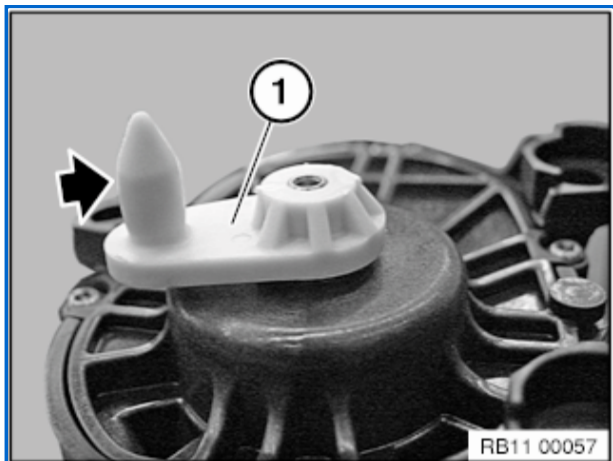
Note fixing (2) on the seal holder (1).

Attach the seal holder (1) with the retaining clamps on the air intake system.



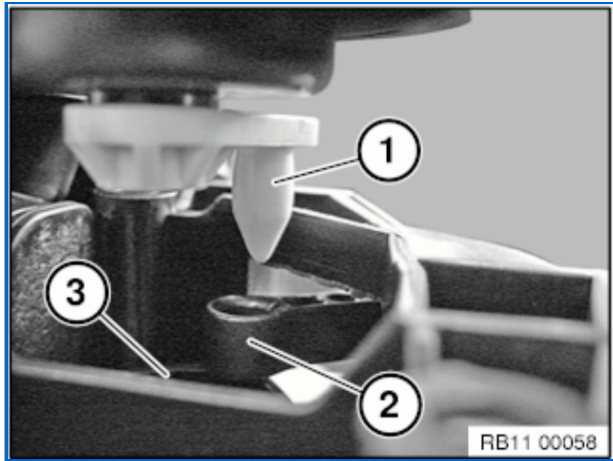
Before the swirl flap drive can be installed, the connecting lever (1) must be positioned toward the intake plenum.

Prepare the connecting lever (2) for the guide (1) on the intake plenum.

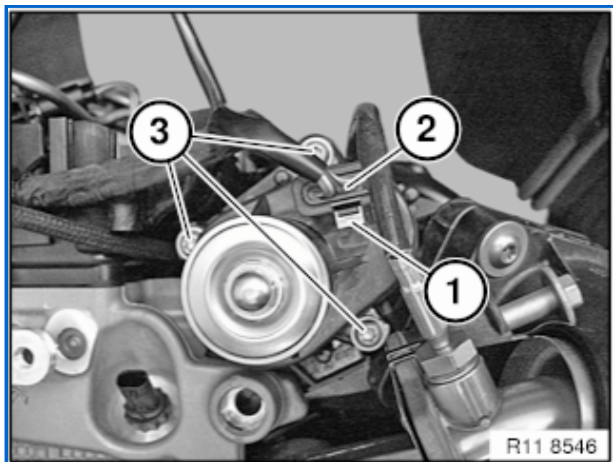


The adjustment lever (1) on the swirl flap drive is worked at the marked area.

The adjustment lever (1) on the swirl flap drive must be positioned with the connecting lever (2) of the swirl flaps toward the guide groove (3) on the intake plenum before the swirl flap drive can be attached.



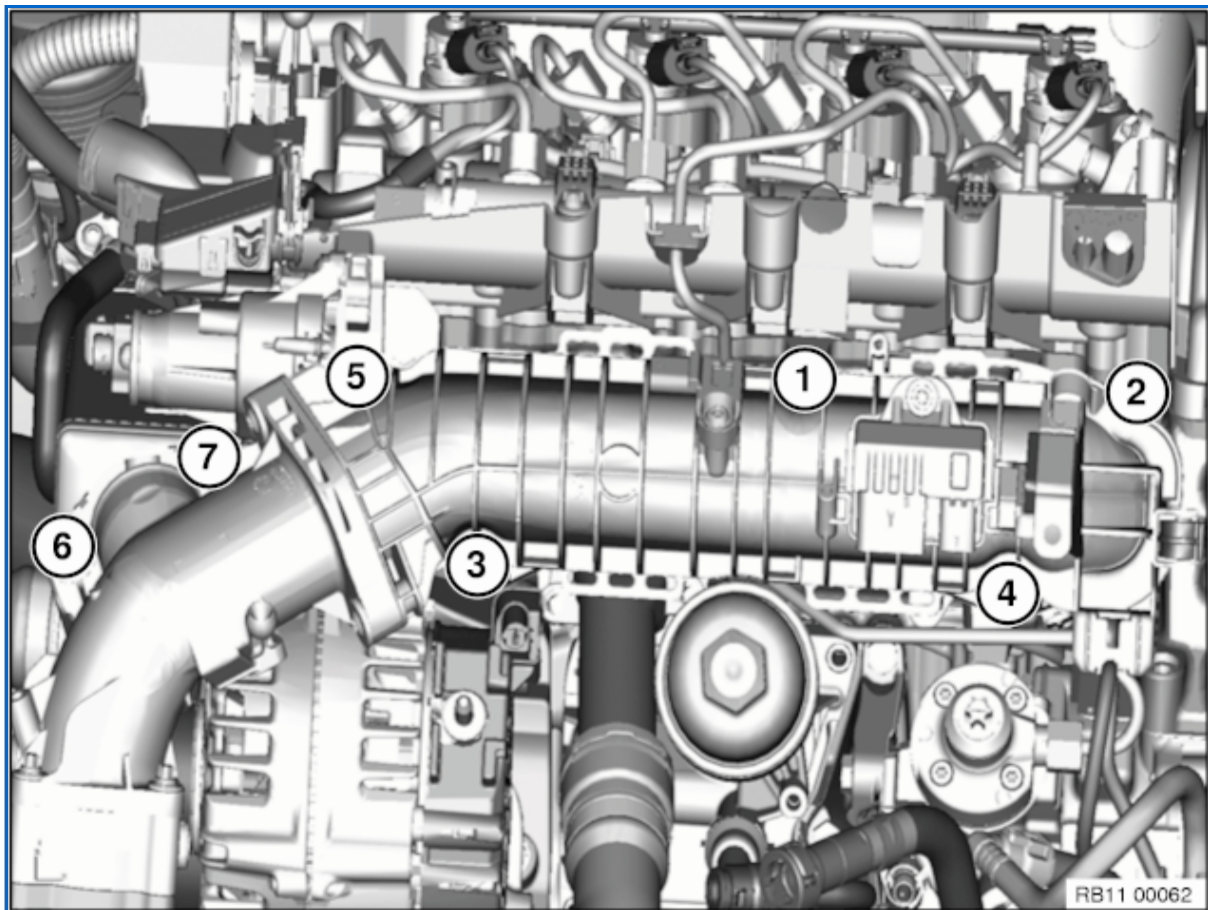
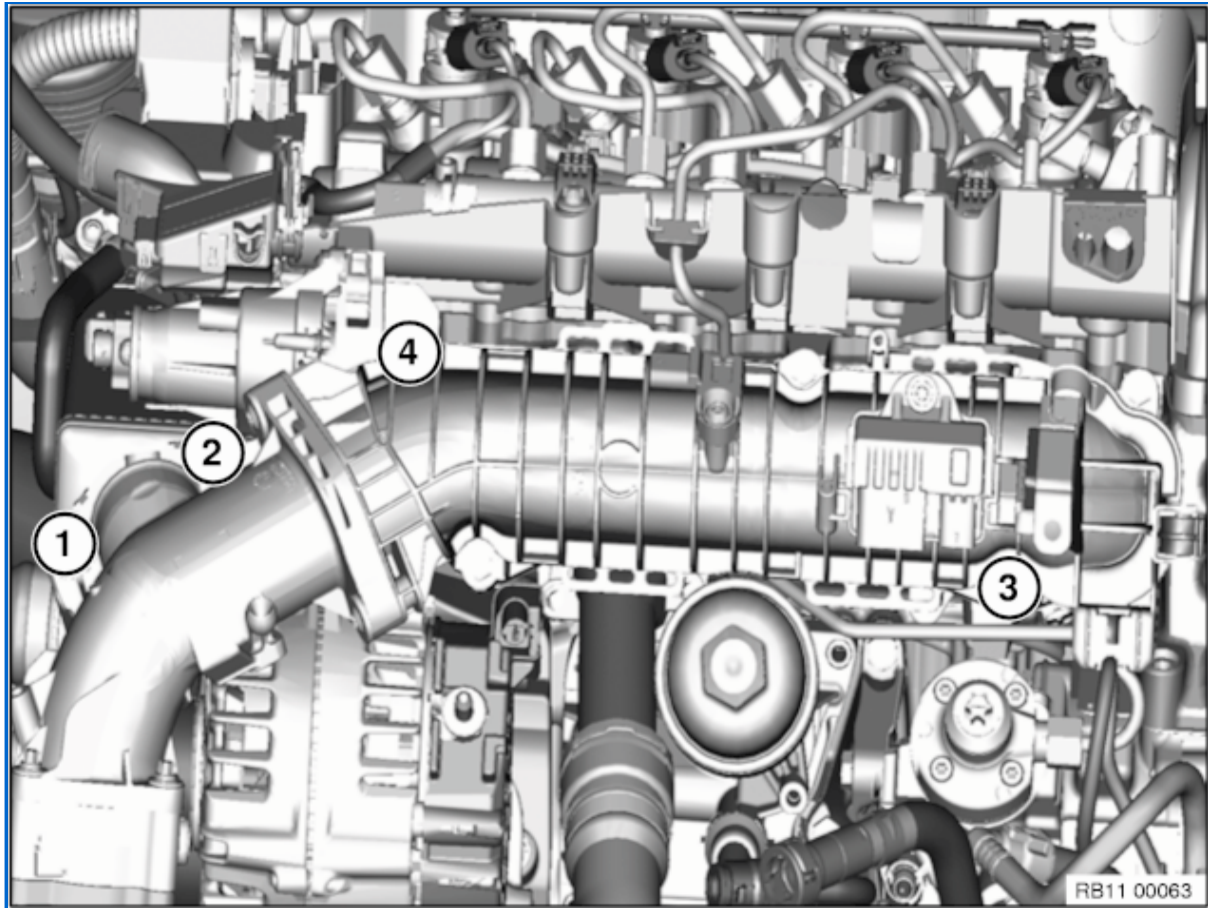
Secure the actuator drive (1) with screws (3).



*Installation
note:*

Position the air intake system on the cylinder head.

Tack the air intake system on in the following order (from 1 to 4).



Installation note:

To ensure tightness of the air intake system, the tightening sequence must be complied with.

Tighten the air intake system in sequence (1 to 7).

Tightening torque:

[11 61 1AZ.](#)



Assemble engine.

Check air intake system for leaks.

Check function of DDE.