

2009 BMW 750i (F01) V8-4.4L Turbo (N63)

Vehicle > Powertrain Management > Fuel Delivery and Air Induction > Turbocharger > Intercooler > Service and Repair > Removal and Replacement

17 51 001 REMOVING AND INSTALLING/REPLACING LEFT CHARGE AIR COOLER

17 51 001 Removing and installing/replacing left charge air cooler (N63)



Warning!

Risk of scalding!

Only perform this repair work after engine has cooled down!

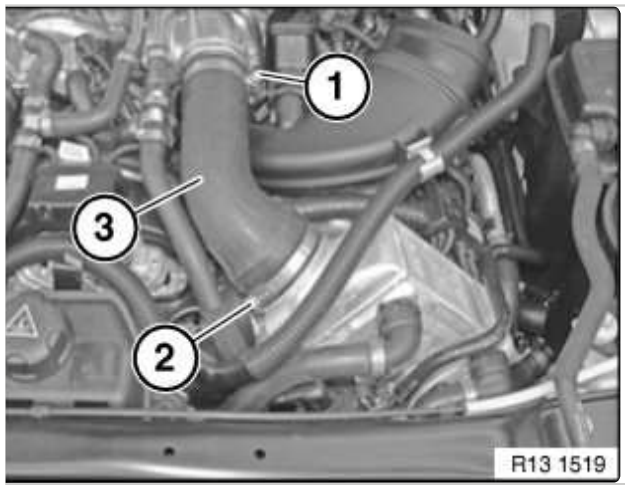


Necessary preliminary work:

- ^ Remove acoustic cover
- ^ Remove front underbody protection.
- ^ Remove fan cowl.
- ^ Drain coolant for charge air cooler.

Release clamp (1).

Tightening torque 13 71 8AZ.



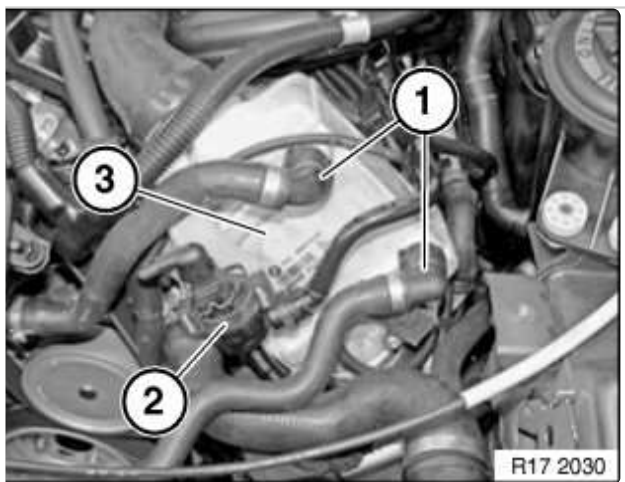
Release clamp (2).

Replace clamp (2).

Remove left charge-air duct (3).

Installation note:

Check the gasket on the exhaust turbocharger. replacing if necessary.

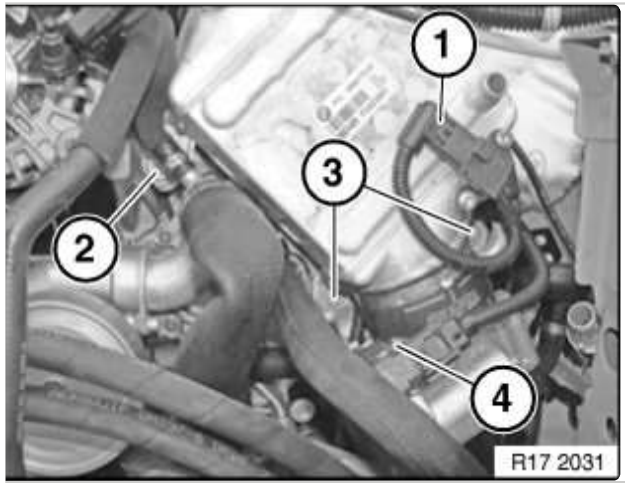


Important!

When loosening the coolant hoses from the charge air cooler, make sure that the connector remains connected to the throttle body. Coolant may not penetrate the plug connection at the throttle body.

Release and disconnect coolant hoses (1).

Remove tank vent valve (2) from charge air cooler (3).



Unlock connector (1) and remove.

Release screw (2).

Tightening torque 13 71 6AZ.

Installation note:

Screw (2) is longer than screws (3)

Release screws (3).

Tightening torque 13 71 6AZ.

Release clamp (4) on throttle valve unit.

Tightening torque 13 71 7AZ.

Lift out charge air cooler.

Replace faulty hose clamps.



Reassemble the vehicle.

After completing all repair work, bleed the cooling system for the charge air cooler.

13 71 Air intake system

	Type	Thread	Tightening specification	Measure
1AZ Clean-air pipe to turbocharger	N63	M6		10 Nm
2AZ Intake filter housing to clean-air pipe	N63	Hose clamp		3 Nm
3AZ Carrier plate, cylinder 1-4 to cylinder head cover	N63	M6		10 Nm
4AZ Carrier plate, cylinder 5-8 to cylinder head cover	N63	M6		10 Nm
5AZ Carrier plate for acoustic cover	N63	M6 Snaploc bolt		10 Nm
6AZ Intercooler to engine	N63	M6		10 Nm
7AZ Hose to throttle valve	N63	Screw clamp		3.5 Nm
8AZ Hose to turbocharger	N63	V-band clamp		3.5 Nm

13 71 Intake muffler

	Type	Thread	Tightening specification	Measure
1AZ Charge-air duct to compressor outlet	N54	V-band clamp		3.5 Nm
2AZ Clean air Y-pipe to intake muffler	N54	L89-96	Clamp	3 Nm
3AZ Clean air duct to clean air Y-pipe	N54	L53-60	Clamp	3 Nm
4AZ Clean air duct to EPPC bracket	N54	K50x30		3.5 Nm
5AZ Charge-air duct, cold (body-fixed to engine-fixed)	N54	L65-72	Clamp	3 Nm
6AZ Rubber mount to electric fan cowl	N54	K60x45		5 Nm
7AZ Raw air diversion to lock support	N54	K50x20		6 Nm