

Installation instruction do88 performance intercooler pipe and hoses BMW F20 F30 F87

This instruction shows how to replace the OEM intercooler pipe with do88 performance intercooler pipe kit.

At this type of installation we always recommend that you have mechanical experience and knowledge about safety during work on vehicles.

Parts included in TR-190:

1. Intercooler pipe
2. Silicone hose
3. Intercooler outlet adapter
4. Hose clamps 1x 60-80mm and 1x 70-90mm
5. 2x M6x14 screws
6. Cover cap
7. 2x NPT plugs

Parts included in TR-180:

8. Silicone hose
9. Turbo outlet adapter
10. Intercooler inlet adapter
11. Hose clamps 1x 50-60mm and 1x 60-80mm



1. Remove the plastic cover underneath the engine 21pcs Hex 8mm.



3. Disconnect both intercooler hoses. Push the hose towards the intercooler connection while loosening the metal clips. Then pull hose off.

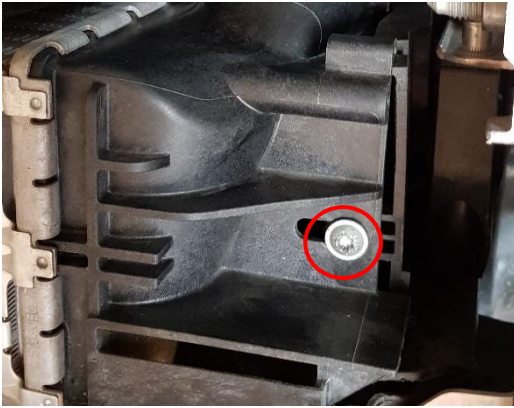


2. Pry the plastic tabs free on both sides for the front intercooler air guide.

Then gently fold the air guide in front of the intercooler so the underside of the intercooler is free.



4. Remove 1x Torx T27 on each side of the intercooler then gently remove the intercooler from the car.



6. Remove the intercooler pipe:
1. Remove throttle body clip
 2. Disconnect sensor connector and remove sensor 2x Torx T20 Screws.
 3. Pull the pipe free from throttle body and bracket.

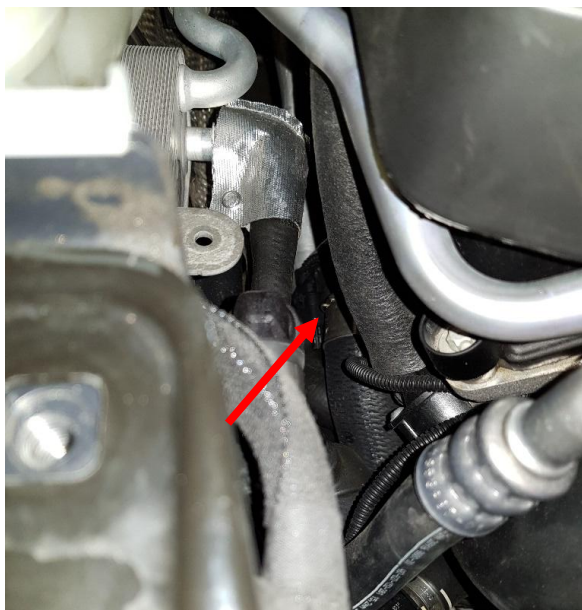


5. Remove the metal cover underneath the engine. 8x Hex 16mm screws and 9x Hex 8mm screws.



7. Gently pull out the pipe from the intercooler side.

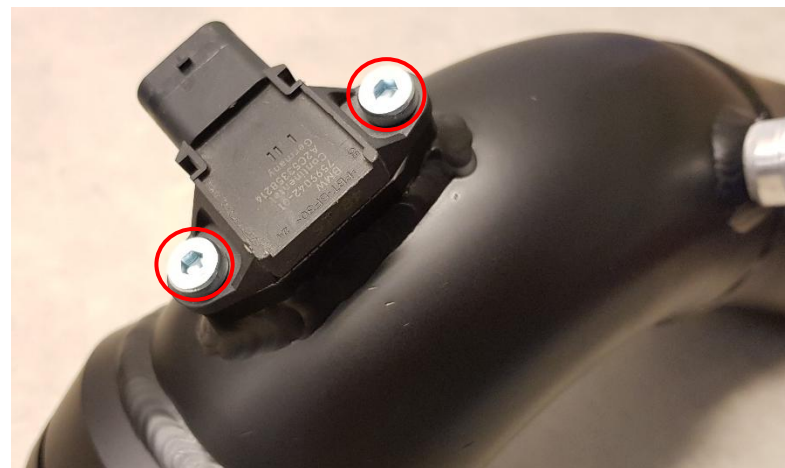
- 8.** Remove the turbo outlet hose, you can reach the fastening clip from the upside.



- 9.** When installing intercooler pipe on cars that don't use the small quick connection (manual gearbox cars) use the included cover cap to block this connection.

- 10.** If the two optional 1/8 NPT ports will not be used, install the supplied NPT plugs. Add oil or grease to the threads before installing plugs, then carefully thread them down so you don't damage the aluminum threads.

- 11.** Install the sensor into the do88 intercooler pipe, fasten it with the included M6x14 screws.



- 12.** Remove the throttle body O-ring from the OEM pipe and install it into the do88 intercooler pipe.



- 13.** The OEM sealings and clips needs to be gently removed from the OEM hoses and installed into the do88 adapters. Make sure to install the sealings in same position as in the OEM hoses. Pry away the plastic bracket to be able to remove the clips.



- 14.** Fasten the do88 adapters in the silicone hoses with the included hose clamps. Before tightening the clamps try to align the grooves in same as the OEM hoses.



- 15.** Install the pressure pipe into the car. It is most easy to do this from the upside. Reinstall clip, cable connector and small hose connection.



- 16.** Push on the intercooler outlet hose onto the pressure pipe, do not tighten the hose clamp yet.



- 17.** Install the do88 turbo outlet hose.



- 18.** Now reinstall the intercooler. Before installing it put some lubrication on the connections to make the sealing slide on more easily.



- 19.** Now tighten the intercooler outlet hose hose clamp. Reinstall all other parts in reverse order.