

N55 DV upgrade install guide

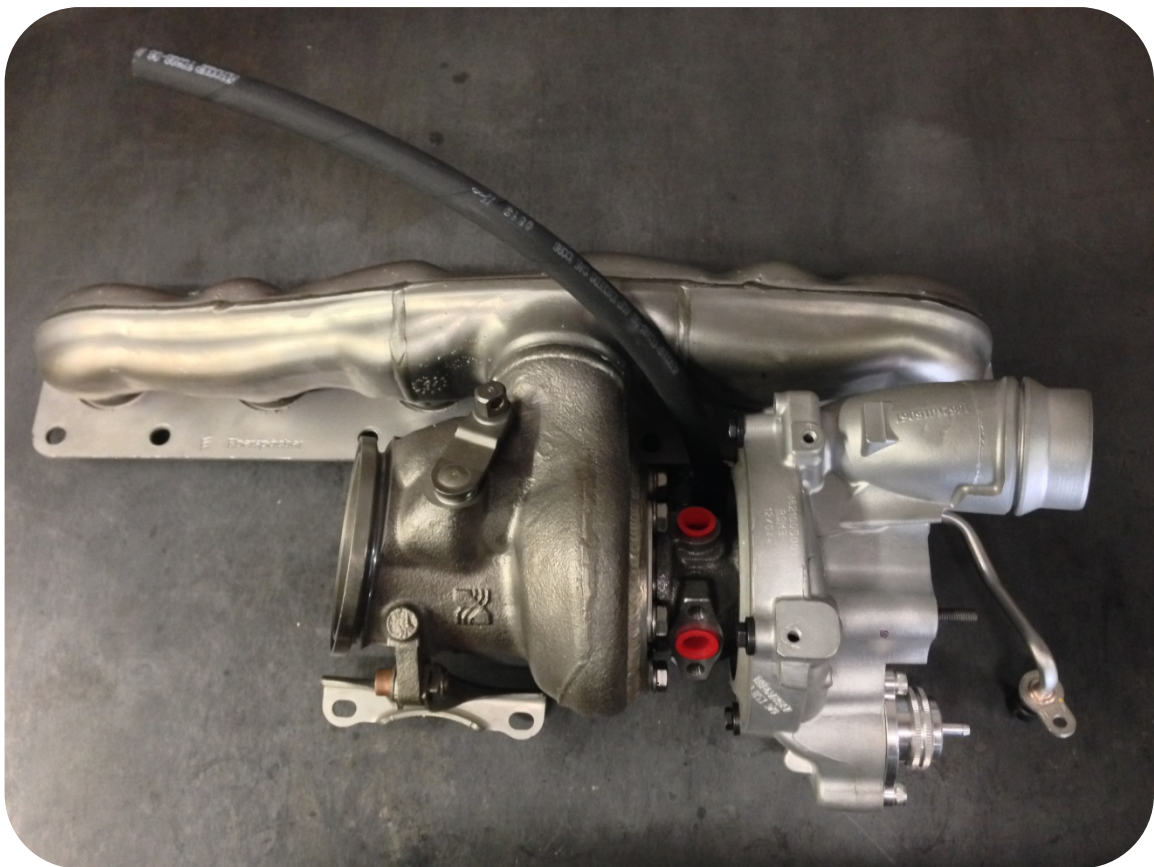


Thank you for your purchase of the VTT BMW N55 Billet DV Upgrade! First thing to do when you open your box is to make sure all parts are in their respective bags and nothing has been left out or lost during shipping. Here is a breakdown of what you should have.

- 1 VTT DV
- 1 DV solenoid
- 4.5 ft. Vacuum hose
- 1 DV plug and play wiring harness
- Vacuum Tee
- 4 zip ties
- 1/8NPT hose barb, or silicone tap kit



Once all parts are accounted for you can proceed with the DV Installation. We suggest this only be done by a qualified technician. If something was missing from your upgrade, please contact us immediately so we can remedy this. Contact info is on the last page of this guide.



INSTALL GUIDE

1. Following all factory procedures to remove the steering rack from the vehicle. It only needs to be dropped down and pulled out of the way, not completely removed
2. Remove as many water pump and thermostat components are required to gain access to the Stock DV
3. Locate the stock DV on the turbocharger, unplug the connector, and remove the 3 bolts securing it, the DV will now come off.
4. Reusing the 3 bolts removed from the old DV, install the new VTT Billet DV making sure both orings stay in place. Tighten 3 bolts to factory specs, do NOT over tighten. Once DV is installed you can loosen the cap of the DV and rotate the nipple to whichever orientation suits your installation the best, retighten the cap of the DV. This is to be done by HAND, no tools are required to relock the DV.
5. Now reroute the stock DV plug and wiring up towards the valve cover and secure for use later.
6. Cut supplied vacuum hose in half, using half of supplied vacuum hose route vacuum hose from nipple on DV following the vacuum hose coming down to the wastegate actuator up towards valve cover, and secure for later use. (Fig 1, 2).
7. If you have an aftermarket intercooler installed use the supplied hose tap to install the hose barb into the silicone connector connecting the charge pipe the intercooler inlet (See silicone tap instructions). If you do not have an aftermarket intercooler, you will be installing the tap into the charge pipe using an empty meth bung
8. Once you have the tap installed using other half of supplied vacuum hose connect hose to barb, and route it up towards the valve cover. Now move up to the top of the engine, find the vacuum hose coming from the REAR nipple in the valve cover, it will be a little hard to access, be VERY careful not to break the nipple. Cut this hose right in the center, and install the supplied Vacuum Tee in this hose. (Fig 3)
9. Now using the supplied Vacuum hose, Following the routing guide (Fig 10) and Vacuum diagram, attach the hose from the DV, Boost nipple, and Vacuum tee to their correct ports on the supplied solenoid. Using supplied zip tie, secure solenoid away from any heat sources.
10. Now find the stock DV plug moved up top earlier, and plug the matching end of the plug and play harness into it. Take the other end and plug it into the supplied DV solenoid.
11. This concludes the installation of the DV kit. Reinstall the rack and water pump components according to factory procedure and tighten all bolts to factory specs
12. Drive the car easy for the first 5-10 miles checking for any leaks, non-standard noises, etc.
13. Enjoy your new VTT DV upgrade...)

Fig 1

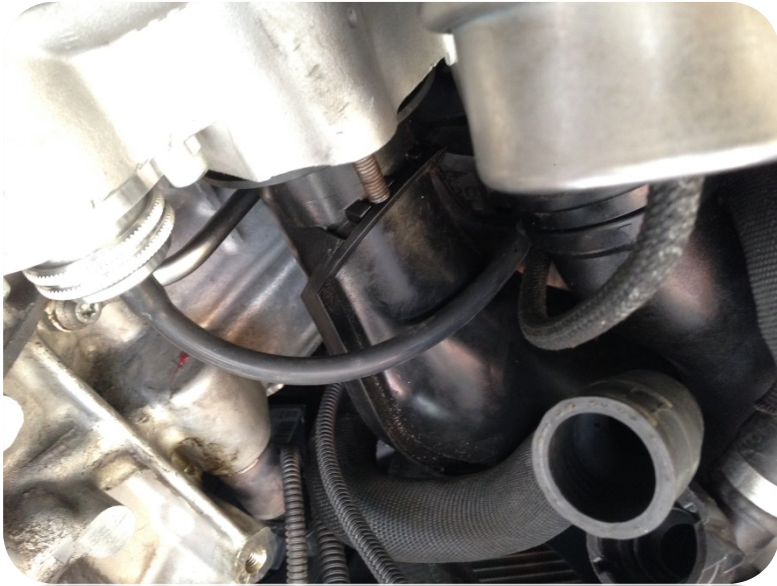


Fig 2



Fig 3



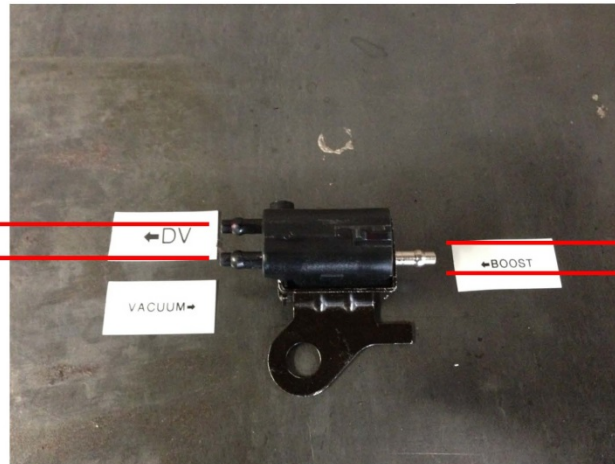
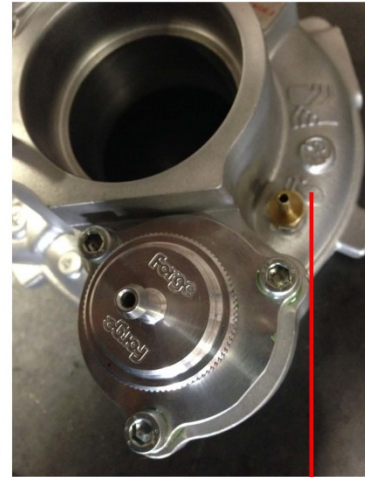
Fig 3



DV



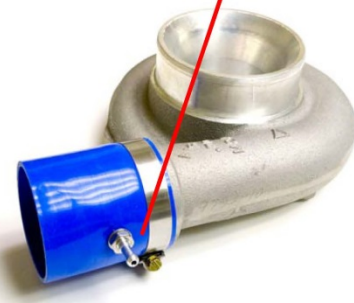
Boost port on housing



This OR This



Vacuum source from valve cover



Silicone hose tap

Silicone Tap Instructions

To use the Quicktap kit, simply punch a 5/16" (8mm) hole directly into the silicone connector and install the fitting kit. This can be easily done using an off-the-shelf hole puncher with a long throat. The product has been thoroughly tested on the type of reinforced multi-layer silicone connectors that we sell. The intricate design of the fitting assembly does not leak boost or damage the silicone connector if used properly. The fitting assembly is also designed to accommodate other similar silicone connectors on the market with varying thicknesses. You can find a hole punch set here

(http://www.amazon.com/gp/product/B000KE17JO/ref=ox_ya_os_product_refresh_T1) Or you can use a drill bit very carefully, by hand. If the hole is not precise it will not seal.





ANY QUESTIONS, OR FITMENT PROBLEMS, PLEASE EMAIL TONY@VARGASTURBO.COM BEFORE TRYING TO FORCE OR MODIFY ANYTHING. THIS UPGRADE IS PLUG AND PLAY IF THESE INSTRUCTIONS ARE FOLLOWED, ANY ISSUES NEED TO BE ADDRESSED TO AVOID PROBLEMS.

VTTT 
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