

Fitting Instructions – Twin Shorty Exhaust (Turbo Back)

Tools required:

10mm socket and/or spanner
14mm socket and/or spanner
300mm extension bar
Stanley knife or air saw
Loctite (optional)
Antisieze

This exhaust is a DPF delete system. If your model vehicle is a DPF model, ensure that the required tuning has taken place prior to starting vehicle.

*316 Engineering takes no responsibility in the suitability of this product for your requirements.
We recommend you check your local state laws prior to fitting this product.*

Step 1. Fitting the Dump Pipe

Ensure the factory 3 bolt gasket remains in place on the turbo studs. Place the dump pipe section onto the studs, aligning the bolts with the holes. Install the 3 x 10mm factory nuts retained from the original exhaust by placing your hand inside the dump pipe and finger tighten. The dump pipe will generally position itself in the correct position, tighten the bolts.

NOTE: a 300m extension bar and knuckle may be required to tighten bolts.

Place the 3 x 3/8" bolts into the flange of the opposite end of the dump pipe with the ends of the bolts pointing in the direction of the exhaust flow.

NOTE: The dump pipe section has a 1/8 NPT female port installed for an EGT gauge, if this is not used, you will need to install a 1/8 NPT brass male plug.

Step 2. Fitting the DPF Delete Section (for DPF models only)

Remove the 3 x temperature sensors and O2 sensor from the factory DPF and install into the DPF delete section in the same sequence you removed them from the factory DPF.

Generally, this section is easier installed by sliding it over the top of the back of the gear box cross member, ensure that the hanger is placed onto the factory mount and the 2 x M6 nuts are finger tight before attempting to connect this piece to the dump pipe section. Place the supplied gasket between the dump pipe section and the DPF delete section, align the holes and slide the bolts through and install 1 x flat washer and 1 x spring washer on each bolt prior to the nut. Finger tighten.

NOTE: Each bolt is recommended to be coated with anti-seize, handle with care to ensure the coating remains on the bolt.

Place the 3 x 3/8" bolts into the flange of the opposite end of the dump pipe with the ends of the bolts pointing in the direction of the exhaust flow.

Step 3. Fitting the Centre Pipe Section

Install the next section of pipe and place the supplied gasket between the two flanges, align the holes and slide the bolts through, install 1 x flat washer and 1 x spring washer on each bolt prior to the nut. Finger tighten.

Step 4. Installing the Chassis Mounts

Install the supplied chassis mounts, align the bend in lower tabs to slot into the rectangular chassis holes. Ensure brake lines have sufficient clearance on drivers side to prevent rubbing.

2 x M8 bolts/washers & flange nuts are required for this installation, the M8 flange nuts with the welded tags are inserted through the matching rectangular outside chassis hole.

Bend rods to line up the flange nuts to the bolts inside the chassis rail & tighten, flange nuts are self-tightening and do not require a secondary spanner. Snap off welded tags after flange nuts have been tightened.

****Loctite is recommended on the thread of the flange nuts.****

Step 5. Trimming the Spats

A small radius is required for clearance in the factory plastic spat/guard to allow pipe clearance. This can be done using either an air saw or Stanley knife.



Step 6. Installing the Tip Sections

Bolt cylindrical rubber mounts to the chassis brackets using the supplied M8 washer and M8 locknut and tighten to the chassis mounts.

Install drivers' side and passenger pipe after radius has been cut in spat/guard.

Ensure the pipe mounting tabs have a M8 washer & locknut holding them to the top of the cylindrical rubber mount.

Use supplied P clip and M8 bolt to hold the excess loop of the Handbrake cable to the floor of the chassis using the factory M8 hole directly above the handbrake cable.

****This needs to be done before Y piece install****

Step 7. Re-locating the Diesel Line

Remove the 90-degree bracket and white clip off the diesel supply line, locate the higher white bracket on top of the cross member and move the diesel line back 2-3 clips and cut off plastic excess if needed.

****the diesel lines sit side by side and cable tie together to allow room for pipes****



Step 8. Installing the Y Pipe

Install the Y pipe.

Place one bolt into each hole of the Y pipe flange to hold into place and loosely install the nut, once this done remove the bolts one at a time and slide the gasket in-between the flanges & re-install all 3 bolts.

Once all the gaskets are installed, firm up the bolts but don't tighten, check the alignment of the exhaust, and adjust side to side as needed for correct clearance.

Once the exhaust is aligned, tighten all bolts starting from the dump pipe working towards the back of the vehicle, ensuring the gaskets are aligned with the outside profile of each flange before tightening.