



Thank you for purchasing your VW 1.9-to-W56 adapter from Doomsday Diesel LLC! Please read this entire page **BEFORE** installation. Please be aware of potentially sharp edges!

It is always a good idea to install the bellhousing on the adapter plate (with dust shield in between, if supplied) and fully install hardware to ensure hardware does not protrude out the back side in areas that may cause interference. If a bolt protrudes beyond the back side of the adapter plate, you will need to grind it to where it rests flush. This will also give you the opportunity to drill out bellhousing holes if they are not big enough for the supplied hardware.

Be aware that this kit positions the Toyota starter in place of the OEM turbo on the AHU and ALH engines. Relocation of the turbo is necessary.

Adapter Plate to Engine:

- (3) M12-1.75x30 10.9 FHCS (flat head) Position 1 in diagram
Use medium strength thread locker and torque to 40 lb*ft.
- (1) M12-1.75x40 10.9 FHCS (flat head) Position 2 in diagram
Use medium strength thread locker and torque to 40 lb*ft.
- (3) M12-1.75x50 10.9 FHCS (flat head) Washer and Nut - Position 3 in diagram
Torque to 60 lb*ft.

The adapter plate must first be mated to the engine block. The back of the block should be bare. Make sure both dowel sleeves are in the engine block. Install the plate over the dowels and tap it tight against the block with a dead-blow hammer. You may install a couple bolts dry, to secure the plate. Take note of the dowel sleeves. They must rest below the counter sunk portion of the adapter plate so the FHCS can fully seat. You may need to use a flap disc or other suitable method to shorten the dowel sleeves. If the dowel sleeves are too long, the bellhousing will not rest flush against the adapter plate. It is highly advised that you mock up the dust shield and bellhousing before final installation of the adapter plate.

Flywheel to crankshaft:

- (6) M10x1.0 ARP Flywheel Bolts
Use medium strength thread locker and torque to 60 lb*ft in a star pattern.

After installing the adapter plate, the dust shield must be installed. If you install the flywheel first, you won't be able to get the dust shield on. You may cut a slot into the dust shield, if you desire. This will allow you to install/uninstall the shield with the flywheel installed. This will also allow dirt/water in easier, however.

You may also now install the supplied pilot bearing. The pilot bearing dimensions are $\varnothing 21\text{mm}$ OD x $\varnothing 12\text{mm}$ ID.

Bellhousing to Adapter Plate:

Begin by installing the dowel pins in the adapter plate. This will help ensure the bellhousing goes on straight.

*****Holes may have to be drilled out on bellhousing for hardware to fit thru*****

- (2) M12-1.25x35 HCS (no washer) – Position 4 on diagram
Use medium strength thread locker and torque to 60lb*ft.
- (2) M12-1.25x35 HCS and Washer – Position 5 on diagram
Torque to 60lb*ft.
- (2) M12-1.75x50 HCS, Washer, and Nut – Position 6 on diagram

Use medium strength thread locker and torque to 60lb*ft.

All torque values were attained from Fastenal. This product is for off road use only. This kit carries no warranty.

