



364 Edward Street P. +61 2 6925 4348
Wagga Wagga NSW 2650 F. +61 2 6925 3314

if it's diesel injection or turbo DENCO DO IT.

FITTING INSTRUCTIONS

TOYOTA LANDCRUISER 80 SERIES UPGRADE WITH 1HDT ENGINE

AS AT March 26, 2009

1. Remove heat shield from exhaust then remove factory turbo complete with water and oil pipes.
2. Block 2 water pipes near front of exhaust manifold with blanking caps and clamps supplied
3. Fit new 12mm oil banjo fitting to side of engine block with oil fitting facing forward. Now fit oil line.
4. Remove exhaust dump pipe and studs from original turbo and refit to upgrade turbo using new gasket supplied.
5. Fit new turbo and dump pipe to exhaust manifold and connect oil inlet line, oil outlet and exhaust.
6. Re fit heat shields. Note: Holes in dump pipe heat shield may have to be elongated.
7. If turbo support bracket is to be reused the single hole may need to be elongated and height adjusted so as not to pre load turbo housing
8. Adjust turbo boost to 11-13 PSI max and pyro not to exceed 500°C.
9. A 2 ½ mandrel bent exhaust system with straight through muffler will give lower back pressure and better performance.
THIS IS AVAILABLE FROM DENCO TURBO SYSTEMS.

WARNING TO ALL FITTING STATIONS

INSTALLATION OF DIESEL TURBOCHARGER EMISSION CONTROL SYSTEMS SHOULD NOT BE UNDERTAKEN UNLESS YOU HAVE A BOOST GAUGE AND A PYROMETER.

ALL DENCO DIESEL AND TURBO SYSTEMS RUN AT 90 KPA BOOST MAXIMUM AND A MAXIMUM OF 500°C UNDER POWER LOAD UNLESS OTHERWISE STATED.

REMEMBER OVER FUELING NOT ONLY CAUSES BLACK SMOKE IT ALSO GENERATES EXCESS HEAT. EXCESS HEAT CAN ALSO BE CAUSED BY AIR AND EXHAUST RESTRICTIONS SO CHECK ALL AIR CLEANERS AND DUCTING TO THEM FOR RESTRICTIONS BEFORE TESTING. EXHAUST BRAKES AND EXHAUST SYSTEMS SHOULD ALSO BE CHECKED FOR CORRECT OPERATION AND RESTRICTIONS.

EXCESS HEAT CAUSES MANY PROBLEMS INCLUDING HIGH NO_x EMISSIONS, LAMINATION OF TURBINE HOUSING AND MANIFOLD, STUD STRETCH AND PREMATURE ENGINE FAILURE.

DENCO DIESEL AND TURBO WILL NOT ACCEPT LIABILITY FOR ANY PARTS RETURNED FOR WARRANTY THAT SHOW ANY OF THE ABOVE SIGNS.

WARRANTY WILL NOT BE CONSIDERED IF REPAIRS ARE CARRIED OUT WITHOUT DENCO DIESEL AND TURBOS AUTHORISATION.

ALL KITS NOW HAVE DUMP PIPES WITH THE PROVISION FOR VDO PYROMETERS.

REMEMBER: IF SET CORRECTLY OUR PRODUCT IS ENVIRONMENTALLY FRIENDLY AND SAFER TO THE ENVIRONMENT THAN PETROL ENGINES.

**PARTS LIST FOR
TOYOTA LANDCRUISER 80 SERIES FACTORY TURBO WITH 1HDT
ENGINE**

ITEM	QTY	PART NO.	BIN	DESCRIPTION	CHECK
1	1	318276		Core assembly	
2	1	TOY265		Denco Turbine Housing	
3	1	TDM304	3 X 185166 6X 0057- 06-12	Compressor cover with clamps and bolts	
4	1	313023		Core assembly V band	
5	1	TDM011		Actuator bracket modified for extra clearance	
6	1	TDM443		Actuator set	
OIL IN					
7	1	TDM329		Flat plate oil in	
8	2	826.7082		M8 X 25 Bolts and spring washers	
9	1	A80502		1/8 BSP x 5/16 x 90° elbow	
10	1	A70502		1/8 BSP x 5/16 straight fitting	
11	1	HOS300		Straight oil hose Total length 370	
12	1	B321		12mm Banjo taped to 1/8 BSP	
13	2			12mm Banjo washers	
OIL OUT					
14	2	826.7082		25 x 8mm Bolts and spring washers	
15	1	1 x PC46 100mm pipe		Oil out pipe (7 ½ ° 22mm pipe)	
AIR OUT					

16	2	HS32		No 32 hose clamps	
17	1	670BLK-200		2" Turbo hose 85mm long	
WATER BLANKING					
18	2	WC38B		Water closing cap 10mm	
19	2	MH004P		Hose clamps	
20	1	R2435096		Dump pipe gasket	
21	1	R2435068		Mounting Gasket	