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

FITTING INSTRUCTIONS

NISSAN NAVARA D22 WITH TD27 AND QD32 DIESEL ENGINES

As at 24 April 2008

1. Remove exhaust system, exhaust manifold and the entire air cleaner system.
2. Remove oil plug from side of block on LHS in front of oil filter and regulator assembly using 5mm allen key. Remove larger plug just below alternator on side of block to facilitate oil return.
3. Screw the 3/8 male hose tail into the large oil return hole in the block. This thread to be sealed with Loctite Hydraulic Sealant 569. Again using Loctite 569 screw the small oil feed nipple into the 1/8 BSP hole in the cylinder block.
4. Using new gaskets if necessary bolt the TurboDyn manifold and turbo assembly on using original nuts and washers. Now bolt on exhaust dump pipe and connect oil supply and oil return pipes.
5. Connect turbo air outlet to intake manifold using cast aluminum elbow and turbo hoses and clamps supplied.
6. Bolt air cleaner bracket to inner guard with long end facing out towards centre of wheel. Now fit air cleaner to bracket using original bolts, air inlet to face towards rear of alternator. Measure original plastic ducting, cut and fit to inner guard so as to connect to air cleaner inlet using hose and clamps provided. Place actuator tube on flat section of what is now the bottom of the air cleaner. Mark and drill a 25mm hole. Now pop rivet from inside air cleaner and fit original rubber actuator valve. Straighten out the 30mm wide bracket and bend on welded nut end around 27mm from end to 90°. The nut is to be on the inside of the bend. Now bolt to top air cleaner mount with long end facing forward over the radiator support panel. Bend over panel, cut and drill to enable it to be bolted to hole near washer bottle cap. Connect air cleaner to turbo using original convoluted hose.

Note: small breather pipe to be connected to rocker cover breather using extension tube and spacer supplied.

7. It will be necessary to readjust the position of the wiring around the alternator region so it won't rub on the air hose. Cable ties are supplied for this purpose.
8. Fit flexible exhaust to dump pipe already fitted to turbo then fit long pipe, expanded end forward then the muffler and lastly tail pipe. Secure with clamps and hangers.
9. Fit pyrometer and boost gauge, start engine and check for air and oil leaks. Adjust maximum boost to 65 KPA maximum under full power. Note this may be done in 4th gear full power on dyno or road but allow at least 1 minute under full power for full reading. Maximum temperature 500°C under full load.

**WARNING TO ALL FITTING STATIONS
AS AT 1ST MAY 1996**

Installation of diesel turbocharger emission control systems should not be undertaken unless you have a boost gauge and a pyrometer.

All denco turbo systems run at 50 kpa boost maximum and a maximum of 500°C under power load unless otherwise stated.

Remember: over fuelling 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 restriction.

Excess heat causes many problems including high n^ox 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 turbo dynamics 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.

NISSAN D22 PARTS LIST						
NO	QTY	PART NO.	BIN	DESCRIPTION		
1	1	313798 313297		Turbocharger for QD32 Turbocharger for TD27		
2	1	TDMNISS004		Pulse manifold		
3	4	TDM010	X18	Incanol studs 8mm		
4	4	DNF	X17	Locknuts 8mm		
5	1	TDM020	F6	Heatshield for manifold		
6	2	826.0650	X12	16 x 8mm bolts		
7	2	826.7170	X11	S/S spring washers		
8	1	TDM068		Aluminium Sleeve for turbo inducer		
9	1	TDM060	X28	Oil out pipe		
10	1	TDM104	F7	QD32, TD27 actuator bracket		
11	2	SP3-0407	X7	¼ hose x 7/16 x 24 UNS fitting		
12	1	80-025	W7	80mm Purosil hose		
13	1	MS8241	X2	¼ goss hose clips		
14	1	TDS1		Turbo back plate (TDM068)		
15	3	826.0652	X14	25 x 8mm bolts		
16	3	826.7170	X11	S/S spring washers		
17	2	826.0650	X12	16 x 8mm bolts		
18	1	6020-002	D19	3" V band clamp		
19	4	DSF128	E14R	Manifold gasket		
20	1	670BLK-200	V2	2 ¼" X 2" Turbo hose		
21	2	HSO32P	HCB9	No 32 hose clamps		
22	1	670BLK-250	V4	3" x 2 ½" turbo hose		
23	2	HSO40P	HCB9	No 40 hose clamps		
24	1	TD32001	F10	Cast air out elbow		
25	1	A64-02	T13	1/8 BSP plug		

26	1	TDM053	F18	Air cleaner mounting bracket with support bracket and 2 x 6mm nyloc nuts					
27	1	TDM379		Front air cleaner bracket					
28				Deleted					
29				Deleted					
30	1	TDM069	F9	Vacuator tube					
31	3	186752	F9	1/8 pop rivets					
32	1	1365057	F7	3/8 Bundy tube 2" long					
33	1	FH1010	W4	9" of 3/8 breather tube					
34	2	MH004P	HCB3	No 4 hose clamps					
35	4	CT200B	X42	Cable Ties					
36	1	HOS580	F8	Oil line					
37	1	A7-0402	T11	1/4" x 1/8 BSP flare male union					
38	1	TD80*270*16	W22	90° x 5/8 oil return hose					
39	1	BP3-1006	C11R	5/8 x 3/8 BSP male connector					
40	2	HSO10P	HCB5	No 10 hose clamps					
41	1	TDS1DP		Cast dump pipe					
42	3	TDM105	F6	Dump pipe heat shield					
43	3	826.0650	X12	16 x 8mm bolts					
44	3	826.7170	X11	S/S spring washers					
45	1	DDNAV-2MB	F4	Adaptor pipe					
46	1	TDM378	F8	Engine pipe assembly with flex					
47	1	DDNAV3.2-5MB	R4	Intermediate pipe					
48	1	TR616CC250-GP		2 1/2" muffler					
49	1	DDNAV3.2-6MB	R4	Tail pipe					

50	3	C12	W11	Exhaust Clamp					
51	1	TDM380		Exhaust Stay Bracket					
52	1	TDM065	F14R	Gear Box bracket					
53	1	TDM066	F13	Straight rod centre hanger bracket					
54	1	TDM067	F14F	Rear bracket					
55	1			Stickers					
56	1			Fitting Instructions					
57	1			Warranty Forms					

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