



# Turbocharger Installation instructions

## Caution:

- Failure to follow these instructions may result in premature Turbocharger failure and warranty denial
- Do not use silicon or other sealers on the Oil Supply or Oil Drain Gasket surfaces
- Use Anti-seize compound on Turbine (Exhaust) Housing Threads
- Torque values shown below apply to the Turbochargers external attachment threads only, they do not apply to any internal thread within the Turbocharger. Be aware attaching bolts, studs and fittings used by the customer may require much lower torque values due to their material composition. (reference ISO Standards)
- When installing a replacement Turbocharger the fitting of a new oil supply (and inline Oil Filter where fitted) is recommended.
- Ball Bearing Turbochargers require a maximum of 40 to 45psi Oil pressure, pressure in excess of 45psi may cause oil leaks
- Before installing a replacement Turbocharger verify root cause of damage to the original unit.

Thread Size	Maximum torque into Steel & Cast iron Threads		Maximum torque into Aluminium Threads	
	ft*lb	N*m	ft*lb	N*m
M6	6	8	5	7
M8	16	21	12	16
M10	30	41	24	33
M12	55	75	43	58
M14	87	118	68	92
5/16"	27	37	15	20
3/8"	49	67	27	37
7/16"	78	106	43	58
7/16"UNS	Turbo Models GT2554R to GTW3884R inverted flare oil supply thread		n/a	n/a
1/2"	120	163	66	89
1/4" UNF (V-Band Bolt)	Coat thread with Anti-seize compound. Initially tighten V-Band Nut to 18Nm (to seat V-Band) then loosen to 6Nm, retighten to 13-15Nm final torque value.			

## Pre Installation Checks

1. Clean all gasket surfaces
2. Check for any foreign material, damage or debris from previous Turbocharger in the Air Filter, Air inlet/intercooler Ducting, Exhaust Manifold, Exhaust Outlet, Oil inlet and Oil Drain Systems (clean or replace as necessary)
3. Check Exhaust Manifold Flange for flatness
4. It is recommended a new oil supply line be fitted when installing a replacement Turbocharger
5. Replace engine oil and oil filter