

Turbo Prelubrication Guide

Please note this pre-lubrication notice is provided for your technical reference and is not an authorization for repair nor is it meant to be a complete guide to turbo installation or a replacement to common sense.

Turbochargers are close-tolerance, high-precision, high-speed, rotating units with speeds exceeding 100,000 RPMs. The turbine wheel shaft is centered on a film of pressurized engine oil, and if not pre-lubricated correctly before engine start-up the turbo will be destroyed. **Scorched, scored, seized, grooved, or melted bearings and or turbine shaft will void any warranty.** To avoid dry starting the turbo follow the oiling procedure described below.

- **The engine oil, oil filter(s), and air filter(s) must be replaced with new equivalent items before installing the turbo.** Some units have a micro screen filter inside the oil supply fitting that must be replaced as well.
- **Note:** Don't forget to inspect air and exhaust inlets and outlets for any obstructions, damage, or debris.
- A new oil supply line is highly recommended due to possible Petroleum Coke (carbon buildup) breaking loose and stopping up oil ports.
- Make sure the oil drain line has been cleaned and installed with a new gasket and is completely clear of any obstructions or kinks. Any silicone use will void warranty. **Any restriction in oil drainage will cause seal leakage.**
- Before the engine is started, lubricate the turbo with correct, clean, engine oil. Slowly pour 2 to 3 ounces (50 to 60 cc) of oil into the supply fitting while carefully rotating the turbine wheel by hand. Be patient as it may take a while. **DO NOT use compressed air or air tools to turn the turbine.**
- Flush/prime the oil supply line by turning the engine over but not letting it start up. Do this until the supply line has unrestricted free flow of oil. **DO NOT** hold compressor wheel to flush / prime oil line. Any air left in the oil supply line can cause turbine shaft and or bearing damage and void warranty.
- After completing the install, let engine idle at a low idle for 3-5 minutes.



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