

## **Fitting Guidelines for the VXR (Z20LEH) Turbocharger.**

### **Turbocharger Installation Guidelines.**

- 1 - Check there is no foreign material in the compressor inlet, air intake or exhaust manifold. Even small objects can cause extensive damage to the compressor wheels.
- 2 - Avoid getting dirt into the turbo when installing.
- 3 - Install with a new exhaust manifold gasket.
- 4 - Ensure the turbo is securely mounted before making any rigid connections.
- 5 - Check oil feed and return pipes for kinks, blockages, restriction or any signs of deterioration. Replace with new if in doubt of their condition. Any oil starvation will be fatal to the turbocharger.
- 6 - Check and breather systems are not blocked.
- 7 - Use new gaskets where needed. Do NOT use any exhaust sealant compound on the turbo inlet flange or any form of instant gasket on the oil inlet or outlet unions.
- 8 - Change oil and filter. Courtenay Sport Ltd recommend a Fully Synthetic oil with an API rating of SL/SM and viscosity of 5w-40. Do not mix with normal mineral oil. If in any doubt please contact us.
- 9 - Prime the turbo with oil. Prime the new oil filter. This is essential to prevent initial oil starvation to the turbo bearings inside the turbocharger. Crank the engine without firing with the return disconnected until oil runs from the oil return (it is suggested to place a clear bag over the oil return to catch the oil). Connect the oil return and then crank over for another short period to ensure turbo is fully primed prior to firing up.
- 10 - Once everything is fully installed start the engine and allow it to idle for 5 minutes without revving it before running at high speeds.

Always ensure that for maximum turbo life the engine has regular oil changes (using the oil we recommend, and we suggest every 5,000 miles/6 months whichever occurs first) and the correct start up/hot stop procedure is followed.

When used on ZLET/ZLEL/ZLER engines ensure the water feed pipe is swapped over from VXR location (Top) to ZLET location (Front).

### **Warranty Note:**

VXR turbo units supplied by Mail Order are supplied without warranty. As Vauxhall will only warrant these units for their intended purpose i.e. fitment to factory specification Astra/Zafira VXR, we are unable to extend a warranty onto them due to the varied nature of fitment, fitting environment and application outside of these parameters.