



**SERVICE
ENGINEERING
BULLETIN**

SB2163.1

Camshaft Replacement and Start Up

A worn camshaft spreads debris throughout the engine. Replacing worn components without an oil and filter change is likely to result in continued wear and possible re-failure.

Use a good quality flushing oil to remove any residual debris before removing the old camshaft.

During assembly, generously coat the camshaft lobes, journals, tappets or lifters with Prelube or a good quality engine oil. This protects the new camshaft until full engine oil pressure is established. Clean, check and replace all other components associated with the lubrication system such as oil pump, oil feed pipes and relief valves where necessary.

Replace the engine oil filter and fill the engine with the correct grade of oil as specified by the vehicle manufacturer.

The first few minutes of engine operation are critical to camshaft service life. Always follow the manufacturer's recommended start up procedure or if that is unavailable follow the procedure below:

1. Start engine and hold at fast idle (1500 rpm) for 1 minute
2. Increase to 3000 rpm and hold for 1 minute
3. Reduce to 1500 rpm and hold for 1 minute