



## ***ENGINE BREAK-IN PROCEDURE***

*In order to ensure a long lasting life your newly rebuilt engine must go through what's referred to as a "break in procedure". The "break in" allows crucial engine parts to mate together such as the camshaft and lifters, as well as the piston rings and cylinders. There are a few simple ways to do this, but first let's start with what not to do. **Do not** let the engine idle for a prolonged period of time (more than 2 minutes). When the engine is idling there is little oil pressure as well as little oil splash which is crucial to engine lubrication. It is recommended that you allow a cold engine to high idle for 1 minute to warm up and then ease into driving. Also do not run the vehicle for prolonged periods of time at a steady RPM (highway driving). Steady RPM does not allow the engine to vary its load, which is important for piston ring seating.*

*The best way to "break in" your new engine is to vary the vehicle speed and the engine load. A good example of this is driving in the city (lots of stop and go and varying loads).*

*The "break in" period is 1500km's (the first 500 being the most crucial) during this period it is important to follow a strict oil change schedule. This allows you to flush harmful contaminants from the engine. The first oil and filter change should be done at 500km's (except when engine is equipped with a flat tappet camshaft, see flat tappet cam break in sheet). The next at 2500km's, and regular 5000km oil changes after that. Failure to follow this schedule could result in internal engine damage and will void the warranty. Canadian Crate Engines recommends Joe Gibbs Driven engine oil HR2 10W-30 conventional oil for engines equipped with a flat tappet camshaft. For engines equipped with roller camshafts, mineral based oil (conventional oil) in the manufacturer's weight is recommended. **Do not run synthetic oil in your engine!** If you do want to run synthetic oil please contact us before doing so.*

*As with any new engine it is important to monitor your gauges closely. With any rise in temperature or drop in oil pressure you should pull over when safe immediately.*

### **Key points:**

- *No prolonged idling!*
- *Follow the oil change schedule! 500km, 2500km, 5000km!*
- *Vary the engine RPM and load!*

*Note: It is the customer's responsibility to monitor the engine extremely closely especially during the first 5000km's. This includes frequently checking oil and coolant levels, listening for odd sounds, noting any odd smells, checking for unusual vibrations, etc. Failure to report any of the above immediately will affect the engines warranty.*

*Call us immediately if you notice anything out of the ordinary!*

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