

DEMT Recommended Break-In Procedures

Before starting the engine for the first time, make sure all fluid levels are to OEM specification. Add Joe Gibbs Break-In oil (when applicable). Make sure fuel system components have been cleaned, tightened and all accessories and brackets are torqued to OEM specification and all sensors are working properly. If not, replace as needed.

1. Start engine and make sure you have proper oil pressure (DO NOT idle). Take RPM's to 1500 for 5 minutes while checking for any leaks. After this, vary RPM's to 1800 for an additional 15 minutes. If the coolant should "boil over", stop and allow to cool. Remove any and all air from cooling system and restart recommended break-in procedure again.
2. After initial 20 minute start-up break-in, **DO NOT** allow to idle more than 3 minutes. **This is extremely important.** Idling will glaze over the cylinders and burnish the rings, preventing the rings from seating. Do a highway load run. The best way to describe this procedure is to mimic accelerating on the highway on-ramp at flow of traffic speed. Repeat the on-ramp load approximately every 3 minutes while on the highway avoiding too heavy a load or too much heat. Do this for approximately 10 miles. When you return, **do not** idle for longer than 3 minutes.
3. Your DEMT engine is now ready for the road. The rings at this point are mostly seated. Still avoid extreme loads and excessive heat and continue to avoid idling for more than 3 minutes until the first oil change of 500 to 600 miles. Do not use synthetic oil for at least 5,000 miles.
4. DEMT has provided a good article by Jay Chlebowski for breaking in diesel engines. Make this a template (or bible, if you will) and your engine will last as you properly maintain and take care of it.
5. Do not start up on high performance tune setting as this will prevent the rings from properly seating. This may also wipe out the rings prematurely from excess fuel during the break in process. Breaking the engine in on a high performance tune will void the warranty.