



SUBJECT**Engine Replacement: Filling Engine with Engine Oil Before First Start****MODEL**

All

INFORMATION

New and remanufactured replacement engine assemblies **are NOT pre-filled** with engine oil.

After replacing an engine with a new or remanufactured engine assembly, the engine oil level must be verified as outlined in the procedure below first, before starting the engine for the first time.

SITUATION

If the new or remanufactured replacement engine is started to determine electronically if the engine is filled with the appropriate amount of engine oil, damage to the replacement engine can occur immediately.

The engine may have some residual engine oil from assembly, but this is not enough engine oil to properly lubricate the engine to measure the engine oil level electronically when it is started for the first time.

Further, the electronic engine oil measurement is only operational when the engine is running at its full operating temperature. Checking the engine oil without the engine running at operating temperature will lead to an incorrect or incomplete measurement.

PROCEDURE

The following procedure applies to all engines equipped with an electronic engine oil level sensor, with or without an engine oil dipstick.

1. After installation of the engine and before starting the engine for the first time, remove the engine oil drain plug and drain any residual engine oil from the crankcase.
2. Reinstall and torque the engine oil drain plug (with a new seal ring) per the applicable repair instruction.
3. Remove the oil filter housing cover and verify the oil filter is present. Reinstall the oil filter housing cover and torque it to the proper specification noted in the applicable repair instruction.
4. Fill the engine with the proper type and amount of engine oil, as specified in the applicable repair instruction.
5. Check the engine oil electronically or with the dipstick after the engine has reached operating temperature; top up the engine oil as needed.

This procedure applies to all engines that are equipped with an electronic engine oil level sensor, with or without an engine oil dipstick.

WARRANTY INFORMATION

Not applicable.

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