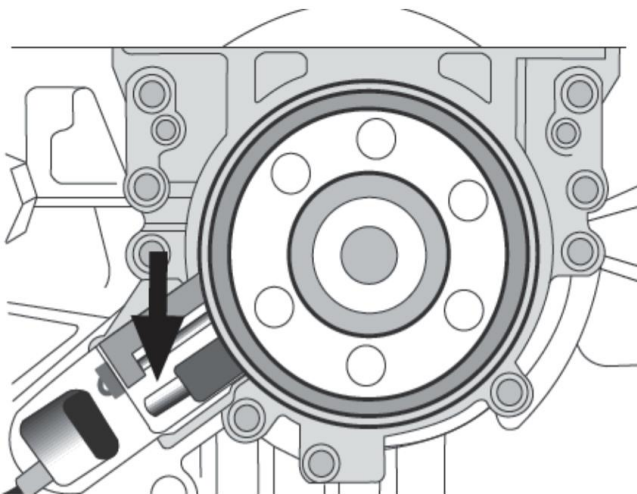


## REAR MAIN OIL SEAL HOUSING WITH ENGINE SPEED SENSOR

Images and information below are for general and illustration purposes and may differ from your vehicle. Certain modern vehicles come equipped with a rear main oil seal housing that includes a Hall Effect Speed Sensor to provide engine timing. When replacing a faulty rear main oil seal on these vehicles, a special service tool is required. Removing the oil seal housing will also remove the timing ring from the end of the crankshaft. Care must be taken to refit the ring in its correct alignment. The correct air gap between the sensor and the timing ring must be maintained. All components are fitted with precise tolerances.

**If any of these components are removed and replaced incorrectly the engine may run poorly or not at all. Engine damage may occur.**  
**Refer to the vehicle manufacture for the correct procedure and tools required.**



Rear of engine showing Rear Main Seal and housing indicating engine speed sensor



Special Service Tool

When deciding to replace the rear main seal it is worth considering these units are typically fitted with Teflon seals. These seals do not wear a groove in the crank like traditional rubber-spring oil seals and in general have a much longer service life. This needs to be weighed against the difficulty and investment in tools required to complete the job as well as the age and intended use of the vehicle.