

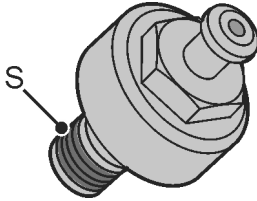
Knock Sensor, fault for poor ground

Gas engines 4.3, Gas engines 5.0, Gas engines 5.7

Binder:

Date: 08-2014

Page: 1(1)



P0019993

New knock sensor **22024631** was introduced in production beginning with serial number A348643. The new sensor is also offered as a service part and replaces the previous sensor 3850357.

The new knock sensor does not have a patch of sealer **S** on the mounting threads.

Testing has determined that the sealant material can prevent the sensor from grounding to the engine. This produces fault codes that indicate an open circuit for the knock sensor circuit.

Fault codes

Fault codes;

- KS 1 Open Circuit / No Signal DTC 0327 / SPN 731 FMI4
- KS 2 Open Circuit / No Signal DTC 0332 / SPN 520197 FMI 4
- DTC 44 (MEFI)

EVC codes;

- MID 128 SID 90 FMI 4 for KS 1
- MID 128 SID 91 FMI 4 for KS 2

When diagnosing these codes the knock sensor should be considered as a potential source of the problem.

Installation

Apply pipe thread sealer to the threads before installing the sensor. Use Loctite® 592 or equivalent. Customers outside the US can use Volvo Penta sealer part number 1161099.

Torque the sensor to 28–33 Nm (21–25 ft.lb.).