



Technical Service Information

4T65-E

ERRATIC OR NO ISS SIGNAL WITH CODE P0716

COMPLAINT: A complaint of an erratic Input Shaft Speed sensor signal or no signal at all. A code P0716 may be present as well. In some cases gear ratio codes may also accompany this complaint.

CAUSE: One cause may be that an incorrect Input Shaft Speed Sensor was installed into the vehicle. All General Motors applications utilize an AC Pulse Generator (Figure 1) while Volvo applications uses a two wire Hall Effect Sensor (Figure 2). Both will install into the channel plate and plug into the wire harness without incident. These speed sensors will not interchange.

Typically the AC Pulse Generator type can be quickly identified by the magnetic pole protruding off the tip of the sensor while the Hall Effect does not. Also, if the sensors are not defective the Hall Effect will NOT have any resistance values while the AC generator has a resistance of 893 to 1127 ohms.

The most common error is that the AC pulse generator is used in Volvo's instead of the Hall Effect as the AC pulse generator is less expensive than the Hall Effect.

CORRECTION: Install the correct ISS.

SERVICE INFORMATION:

Volvo ISS Hall Effect Sensor.....	1275599
GM ISS AC Pulse Generator.....	10456509

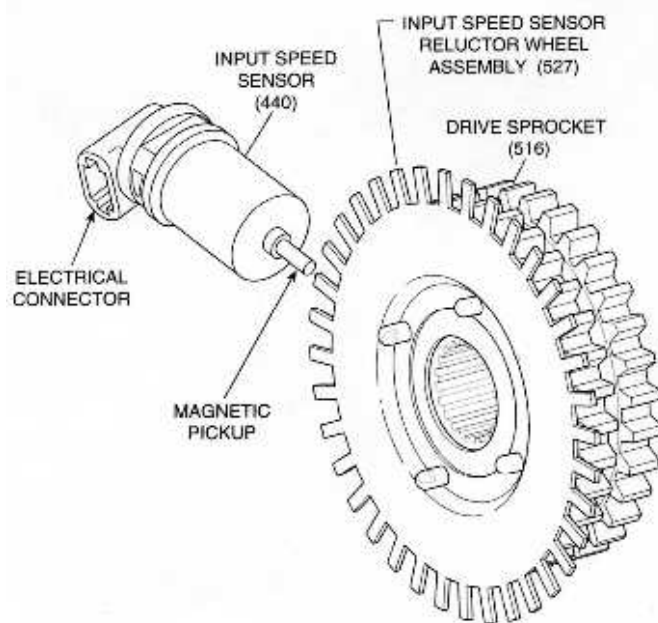
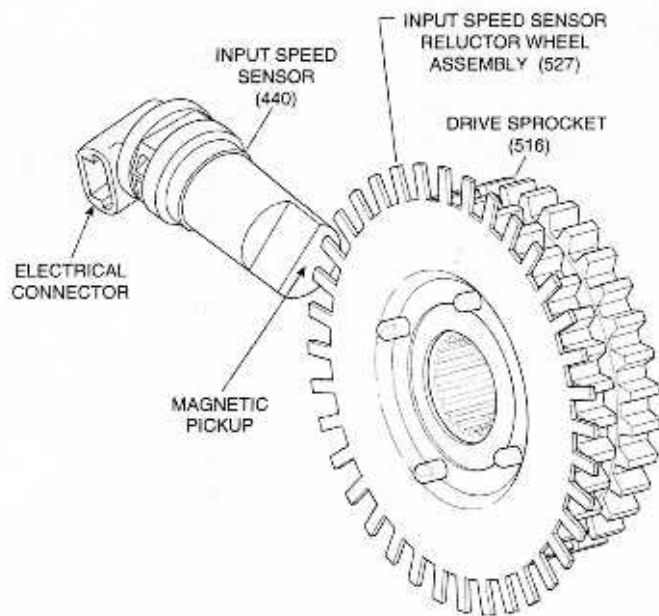


Figure 1



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Figure 2