

COE
120 Conventional
FLA COE

FLB COE
FLD Conventional
Business Class

FLC 112 Conventional
> Century Class

**Freightliner
Service Bulletin**

Description of Revisions: *This bulletin replaces the previous version dated December, 1997. The part number for the new sensor has been revised.*

General Information

The optimized idle feature on vehicles equipped with a DDEC III engine and ESS (Electronic Syncro Shift) has been "dropping out," or not working at all. This can occur because the vehicle speed sensor may be too sensitive.

Production plants will begin installing a new sensor that will have a Metri-Pak connector instead of a Weather-Pak connector.

Use the following work instructions to install the new sensor and connector. Parts are available through the PDCs.

Work Instructions

1. Park the vehicle, shut down the engine, apply the parking brakes, and chock the front and rear tires. Tilt open the hood.
2. Disconnect the vehicle speed sensor connector located in the transmission bearing cover.
3. Remove the sensor jam nut, then remove the sensor from the cover. Discard the sensor.
4. On Rockwell transmissions only, check the bearing cover for an O-ring. Remove the O-ring if it did not come off with the sensor.

IMPORTANT: When installing a new sensor, leave the plastic shim on the end of the sensor. This shim serves as a gap gauge. On Rockwell transmissions only, install a new O-ring on the bearing cover.

5. Screw the new sensor (p/n 681 542 13 17) into the transmission cover until it bottoms out in the transmission. If no plastic shim is installed on the sensor, back the sensor out one-half turn. See [Fig. 1](#).

NOTE: If the plastic shim is installed, do not back out the sensor. The gap has already been set by the plastic shim.

6. Hold the sensor in place to keep it from turning. Tighten the jam nut 18 lbf-ft (24 N·m).
7. Connect the jumper harness (p/n A06-19868-020) to the sensor and the wiring harness.
8. Remove the chocks from the tires.

Warranty

Normal warranty applies. When submitting claims, reference this service bulletin by number in the story of the claim. Use the following damage code and Time Guide information.

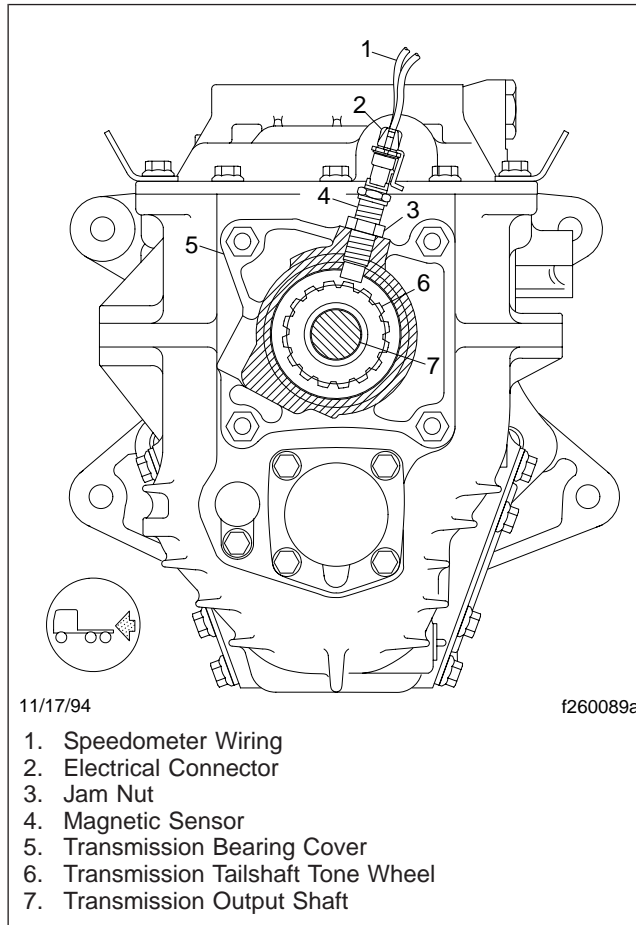


Fig. 1, Magnetic Sensor Installation (cutaway view)

Damage Code	Operation Number	Description	Time
810-000548982	817-0020A	Sensor, Speedometer, Trans. Mounted R & R	0.5 hour

Table 1, Damage Code and Time Guide Information