

PARTS & SERVICE NEWS

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Page 1 of 2

- SUBJECT:** PAYLOAD METER II SUSPENSION PRESSURE SENSOR KIT (AK4599)
- PURPOSE:** To inform the field of kit (AK4599) that replaces the Payload Meter II suspension pressure sensor (PC0310).
- APPLICATION:** Komatsu Electric Drive Dump Trucks that are presently using suspension pressure sensor (PC0310)
730E: AFE47-A & Up, A30079 & Up;
830E: AFE32-A & Up, A30544 & Up;
930E: AFE48-A & Up, A30019, A30026 & Up
- FAILURE CODE:** 7P72Z9
- DESCRIPTION:** This bulletin contains information regarding the replacement of a failed Payload Meter II suspension pressure sensor.

A new kit has been developed to replace a failed Payload Meter II suspension pressure sensor (PC0310). Suspension pressure sensor (PC0310) is mounted to the suspension cylinder using valve assembly (3, Figure 1), that contains Schrader Valve (4). The sensor can be replaced without releasing the nitrogen charge in the suspension.

The contents of kit (AK4599) are as follows: 1 - Suspension Pressure Sensor (EF8669); 1 - Adapter (EF8677); 1 - O-Ring (07000-51009).

REMOVAL OF SUSPENSION PRESSURE SENSOR (PC0310)

▲ DANGER

Make certain that only sensor (1, Figure 1) is removed from valve assembly (3). Removing the complete valve assembly (3) will result in the component being forced out of the suspension by the nitrogen gas pressure inside the suspension.

1. Clean entire area around suspension pressure sensor that is to be removed.
2. Disconnect suspension pressure sensor (1, Figure 1) from the truck wiring harness.

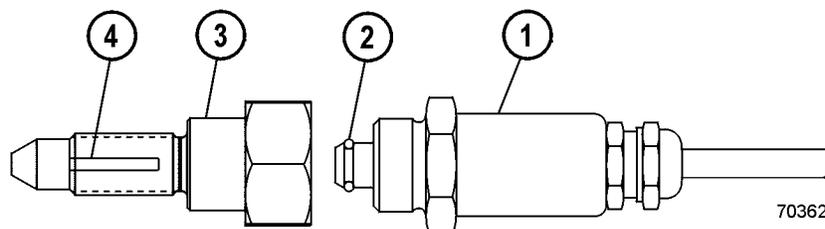


FIGURE 1. SUSPENSION PRESSURE SENSOR (PC0310)
1. Pressure Sensor (PC0310) 3. Valve Assembly (TZ8627)
2. O-Ring (0700-51009) 4. Schrader Valve (TD7179)

NOTE: *The Schrader Valve in the valve assembly will prevent nitrogen gas from escaping when the sensor is removed. If valve assembly (3) is removed allowing nitrogen gas to escape, recharging of the suspension will be required*

3. Hold valve assembly (3) stationary with a wrench while removing pressure sensor (1).
4. Remove suspension pressure sensor (1) from adapter (3).

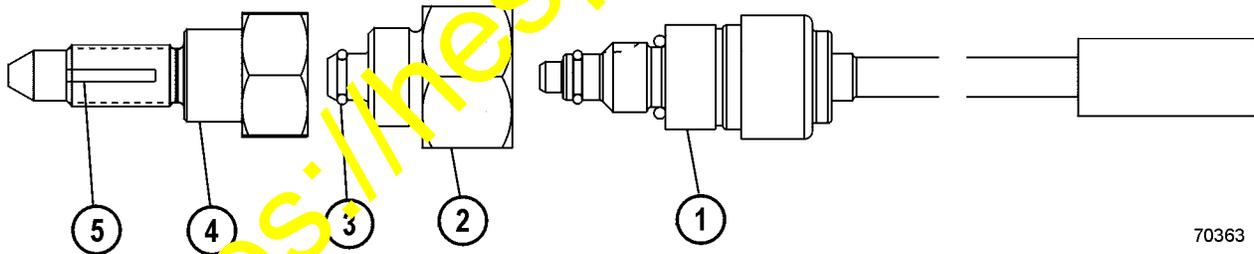
INSTALLATION OF SUSPENSION PRESSURE SENSOR KIT (AK4599)

1. Thoroughly clean valve assembly (4, Figure 2) where the suspension pressure sensor had been.
2. Lubricate and install new O-ring (3) on adapter (2).

▲ DANGER

Do not install adapter (2) into valve assembly (4) unless sensor (1) is installed into adapter (2) first. Otherwise, nitrogen gas will escape from suspension under pressure.

3. Install pressure sensor (1) into adapter (2). Tighten sensor (1) to 23 ft. lbs. (31 N.m) torque.
4. Install the adapter / sensor assembly into valve assembly (4). Tighten adapter / sensor assembly to 22-29 ft. lbs. (30-39 N.m) torque.
5. Reconnect the electrical connections to the suspension pressure sensor.
6. Recalibrate the Payload Meter system as outlined below:
 - a. With the engine running and the truck stopped, press and hold the CAL/CLR switch until "CAL" is flashing on the payload meter display.
 - b. Drive the truck until the speed is approximately 5-10 MPH (10-15 Km/H)
 - c. Press the CAL/CLR switch once.
 - d. Drive the truck until the payload meter display switches back to the clock mode. This will take up to 30 seconds.
 - e. The payload meter is now calibrated and ready for normal operation.



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FIGURE 2. SUSPENSION PRESSURE SENSOR (EF8669)

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|-----------------------------|----------------------------|
| 1. Pressure Sensor (EF8669) | 4. Valve Assembly (TZ8627) |
| 2. Adapter (EF8677) | 5. Schrader Valve (TD7179) |
| 3. O-ring (07000-51009) | |

▲ DANGER

In the event that suspension pressure sensor (EF8669) needs to be removed, make certain that the adapter (2) and sensor (1) are removed together from the valve assembly (4). Removing the complete valve assembly or just the sensor will result in the component being forced out of the suspension by the gas pressure inside.