



Tip Sheet #11001

Sensor Circuit Function Check Electric Leveling

© Power Gear 5/08 Tip Sheet #11001 Rev 0A

Electric Leveling Sensor Circuit Function Check

Instructions



WARNING

Extreme caution must be used when attempting to manually retract the hydraulic leveling jacks. Access to the manual override valves is at the hydraulic power unit that is generally mounted on the coach where accessibility is limited. Failure to heed all warnings may result in serious injury or death.

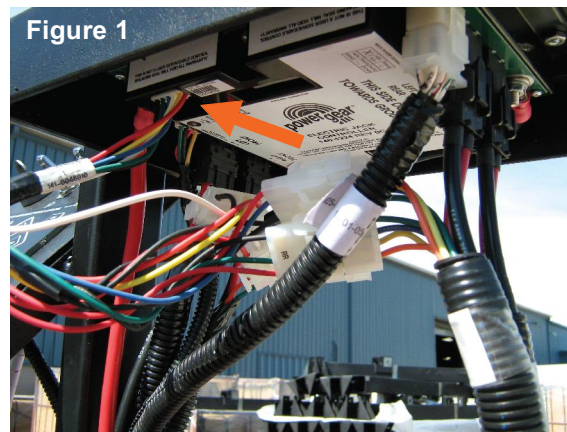


Figure 1

1. The sensor harness is plugged into the leveling controller (*see figure 1*).

The sensor circuit is used to indicate jack position, either fully retracted or fully extended.

The sensor is a hall type and is powered by the control. A magnet is mounted onto the jack inner leg and triggers the sensor when it passes.

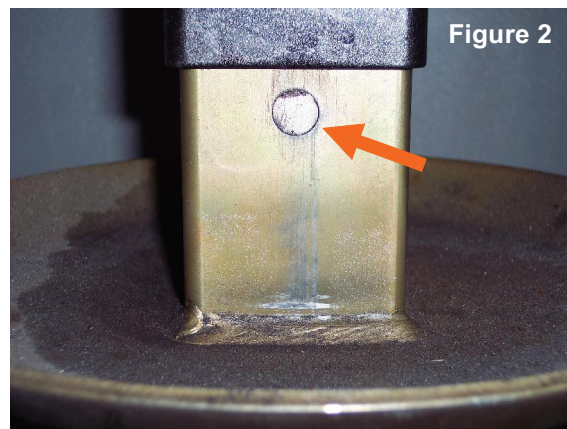


Figure 2

2. Magnet on the leveling inner leg (*see figure 2*).

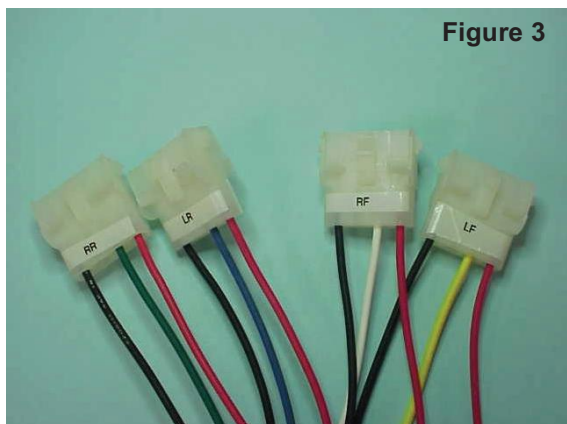


Figure 3

3. The sensor harness has 4 connectors, one for each jack leg (*see figure 3*).

The red and black wire power the sensor.

The color wire is used as the "signal" wire.

Figure 4

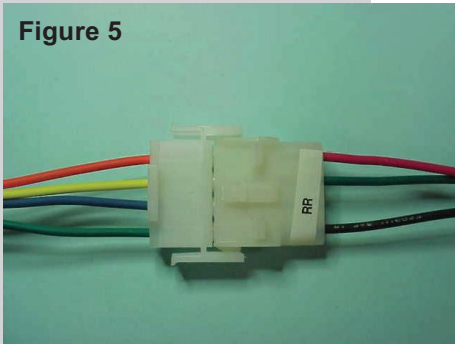


4. A single 6 pin connector attaches to the control (*see figure 4*).

5. At attached to the Power Distribution harness which attaches to the jack leveling leg, the blue wire is not used (*see figure 5*). The remaining wires are

Power Dist	-	Sensor Harness
Orange	-	Red
Yellow	-	Color
Green	-	Black

Figure 5



6. With the leveling touch pad turned ON, the sensor should be powered.

Check for voltage between the sensor connector RED and BLACK wire using a meter (*see figure 6*).

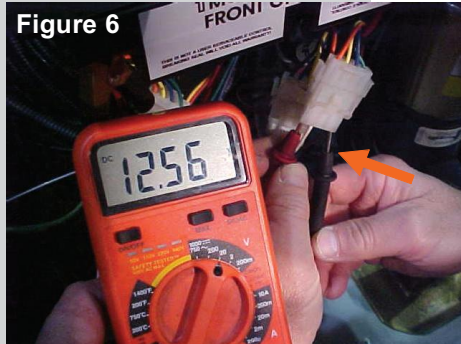
Probe from the back of the sensor harness. Red probe on RED wire, Black probe on BLACK wire.

12v (or battery voltage) indicates that the sensor is powered and ON.

If no voltage, check harness for connection and damage

Check for voltage between the sensor connector RED and COLOR wire using a meter.

Figure 6



7. Probe from the back of the sensor harness. Red probe on RED wire, Black probe on COLOR wire (*see figure 7*).

12v (or battery voltage) indicates that the sensor is triggered by the magnet.

The jack leg should be either fully retracted or extended positioning the magnet under the sensor

8. Check for voltage between the sensor connector RED and COLOR wire using a meter (*see figure 8*).

Probe from the back of the sensor harness. Red probe on RED wire, Black probe on COLOR wire.

If the jack leg magnet is not positioned under the sensor, is missing, or the sensor is not working, there will be no voltage.

Figure 7

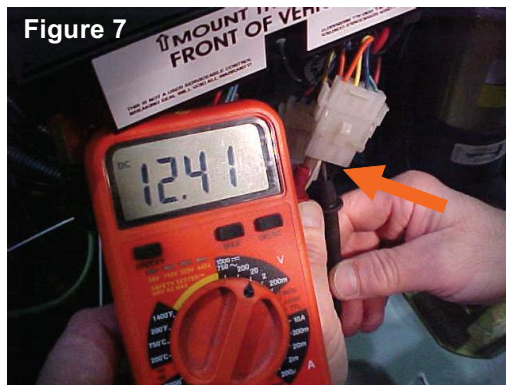


Figure 8

