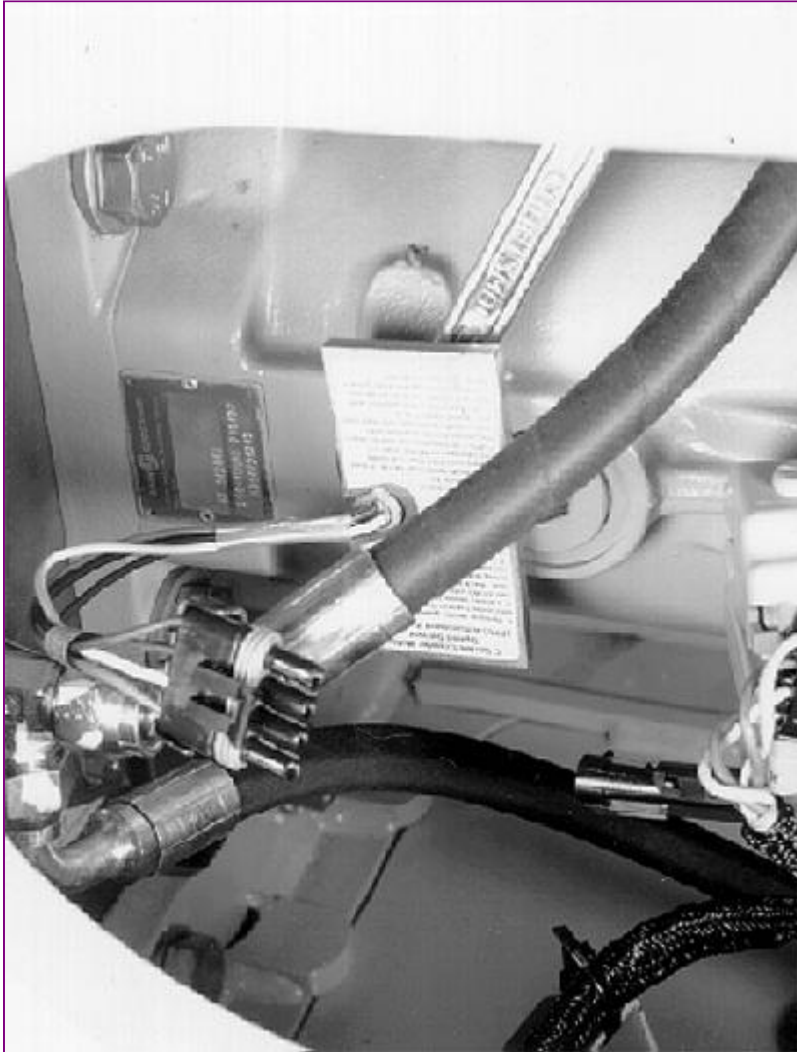


## TM1859 - 700H Crawler Dozer Adjust Hydrostatic Motor Speed Sensor

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### Adjust Hydrostatic Motor Speed Sensor



T109073-UN: Hydrostatic Motor Speed Sensor Adjustment

**NOTE:**

*The speed sensors provide speed and direction information to the transmission controller. It is **IMPORTANT** that the air gap be adjusted as specified. The speed sensor has two sensing components. The relative position of these two components in relation to the magnetic segments on the speed ring is extremely important. The transmission controller must know machine direction to function properly. It gets this information from the relative phasing of the two outputs from the sensor.*

1. Remove sensor guard and disconnect sensor from harness.

2. **NOTE:**

*It may be necessary to use a O-ring pick or turn sensor out several turns to access O-ring.*

Loosen sensor lock nut and turn out (counterclockwise) until O-ring is free from seat. Back lock nut out and move O-ring until it is at upper position on sensor.

3. Turn sensor in (clockwise) until contact is made with speed ring (FINGER TIGHTEN ONLY).
4. Turn sensor out (counterclockwise) 1/2 turn. Install bracket on sensor and continue to turn out (counterclockwise) until holes in bracket align with housing.

**NOTE:**

*Sensor MUST NOT be turned out (counterclockwise) more than one full turn total. If necessary, reposition bracket to keep sensor within 1/2 to 1 full turn out from speed ring.*

5. Install sensor guard.
6. Tighten lock nut on sensor.
7. Connect sensor wire harness connector to guard with a tie band.
8. Test left track motor speed sensor. (See Left Hydrostatic Motor Speed Sensor Test Group 9015-15.)
9. Test right track motor speed sensor. (See Right Hydrostatic Motor Speed Sensor Test Group 9015-15.)
10. Route all wiring harnesses back to their original location and replace all tie bands that were removed.

**NOTE:**

*Recalibrate whenever sensors are adjusted or replaced.*