



TSB061615

## TECHNICAL SERVICE BULLETIN

**SUBJECT:** Improved Ground Speed/Foot Count Sensor

### MODELS BR and SR Series Harvesters

A new, more accurate and durable system to determine ground speed and foot count is available. If the foot count on your Magnum counter is inaccurate or inconsistent, consider upgrading the ground speed sensor.

SR Models.....Part No. 13609-3-900

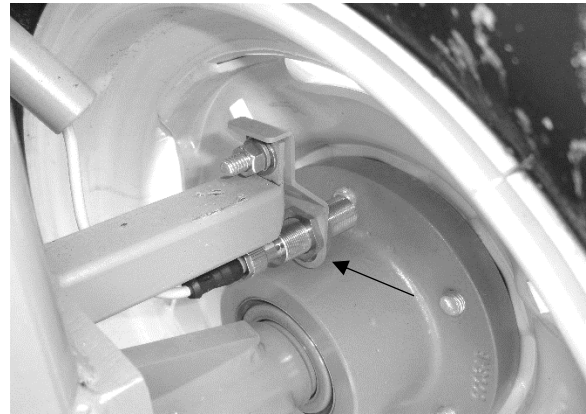
BR Models.....Part No. 13609-3-901

Install the upgrade as follows:

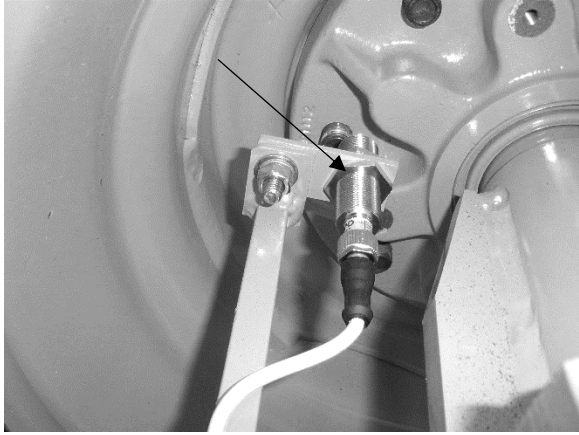
1. First disconnect the existing magnetic reed switch sensor from the Magnum counter at the black two-pin connector.
2. Remove the reed switch from its mounting bracket located inside and adjacent to the right-side wheel.
3. Next, remove the magnet plate. On BR models, it is necessary to remove the right wheel to remove the fasteners and magnet plate. On SR models, remove the fasteners that attach the magnet plate to the inside of the wheel hub and remove the two magnet plate halves.
4. Attach the new mounting bracket to the existing reed switch mounting fixture using the provided fastener. See **Figure 1** (BR models) or **Figure 2** (SR models). Do not tighten the bracket fastener yet.
5. Install the sensor into the bracket. On BR models, carefully adjust the sensor mounting bracket so the tip of the sensor is aligned with the wheel studs protruding through the hub. See **Figure 1**. On SR models adjust the bracket so the tip of the sensor is aligned with the rounded tip of the hub casting as shown in **Figure 2**.
6. Tighten the bracket fastener.
7. Adjust the sensor inward or outward as necessary to obtain 1/8 to 3/16 in. (3.2-4.8 mm) air gap between the tip of the sensor and the wheel studs (BR) or hub casting (SR). Securely tighten the sensor nuts while making sure the air gap remains as specified.
8. Route the sensor cable up to the Magnum counter avoiding moving parts and sharp edges. Connect the

sensor cable to the counter at the black two-pin connector. Attach the eyelet of the brown wire in the sensor harness to the fuse panel stud (12 volts).

9. Set the CAL factor to 6.123 on SR models or 7.059 on BR models. If necessary, refer to your Magnum Counter operator's manual or visit [www.magnumenp.com](http://www.magnumenp.com) for instructions to set the CAL factor.



**Figure 1—Ground speed sensor on BR models.**



**Figure 2—Ground speed sensor on SR models.**

To order the sensor or if you have any problems or questions with this installation, call Bucyrus Equipment Co. Inc. at 800-330-0867.