



Outback Guidance
Hemisphere GPS, L.L.C.
2005 West Oregon Street, Box 238
Hiawatha, Kansas 66434 USA
Phone (785) 742-2949 • FAX (785) 742-4584
Customer Service & Ordering : 1-800-247-3808
www.outbackguidance.com

Outback S2™

Ground Speed Interface Kit

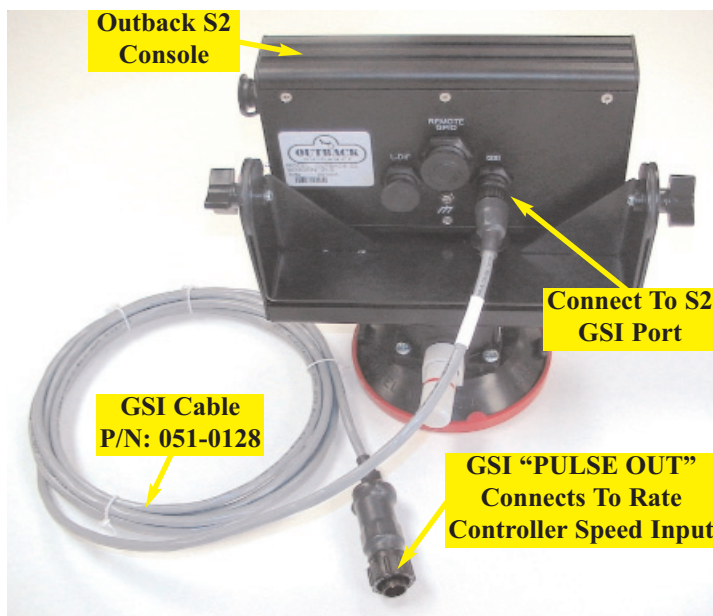
P/N: GSI-S2-RDJM

Overview

The Outback S2™ includes a ground speed interface (GSI) port on the back of the console. The internal GSI module, as factory installed, is pre-activated with a one-time subscription code. The GSI module converts the GPS velocity signal of the Outback S2™ to a doppler radar compatible pulse output. This output may be used as the ground speed input to any agricultural 3rd-party monitor/controller designed for use with a DICKEY-john RVS-II radar gun (or equivalent).

Installation - General Application

1. First install the Outback S2™ and any other Outback products as normal. Refer to the respective products owner's manual for proper installation.
2. Locate the GSI cable, P/N: 051-0128, included in this kit.
3. Connect the smaller 6 pin connector end of the GSI cable to the GSI port on the rear panel of the Outback S2™ console. Twist connector firmly until it snaps into place.
4. Connect the larger 4 pin connector end of the GSI cable to the rate controller speed input. An adapter cable may be required. See the reverse side of this page for controller specific instructions.
5. Power up the rate controller, the Outback S2™, and any other Outback consoles. Once the Outback S2™ has acquired GPS (or DGPS), and the vehicle is moving between 1 MPH and 60 MPH, the internal GSI module will send output pulses to the rate controller.
6. It is necessary to calibrate the rate controller speed input signal. Refer to the owner's manual provided with the rate controller for proper speed input calibration.



Pulse Output Signal Specifications

The GSI pulse output signal and connector is equivalent to a DICKEY-john RVS II radar gun. The output is a square wave (Ground to +12 VDC Battery) with a frequency proportional to GPS estimated ground speed, 44.21 Hz per MPH speed. Minimum ground speed is 1 MPH, below which the output frequency is zero. Maximum ground speed is 60 MPH, above which the output frequency is zero.

The pulse output connector is a 4-pin AMP #206429-1:

- Pin 1 = Ground
- Pin 2 = Pulse Output Signal
- Pin 3 = +12 VDC Battery
- Pin 4 = No Connection

The mating cable connector is a 4-pin AMP #206430-2.

This kit includes a special adapter cable to connect the GSI pulse output to a Raven SCS 440, 450, or 700 controller, PGM. E or later.

- RAVEN SCS 440 / 450
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- SPRAYER CONTROL CONSOLE

