

Auto-steer Override Sensor Switch Cable (Part No. 1-0357) Installation Guide

Part Number: 1-1297

Revision: B

Issue Date: May 2009

- when it has to be **right**

Leica
Geosystems

Introduction

The Auto-steer override sensor switch kit allows the Auto-steer controller to automatically disengage when the steering wheel is turned manually. The override kit comprises of a magnetic sensor switch and interface cable, two magnets and mounting hardware. The magnets are mounted to the shaft of the steering wheel and the sensor switch is mounted alongside. If the switch detects an opening or closing of an edge of the magnets within two seconds, such as when the operator turns the steering wheel manually, to one side or the other, the Auto-steer will disengage.

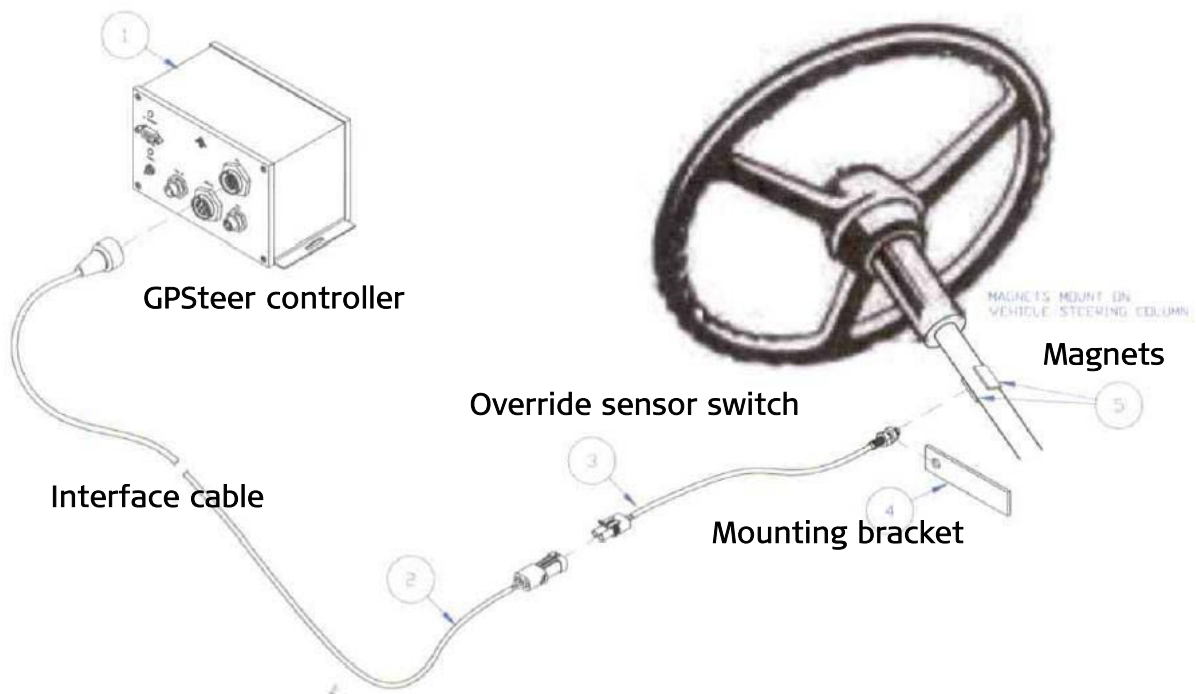
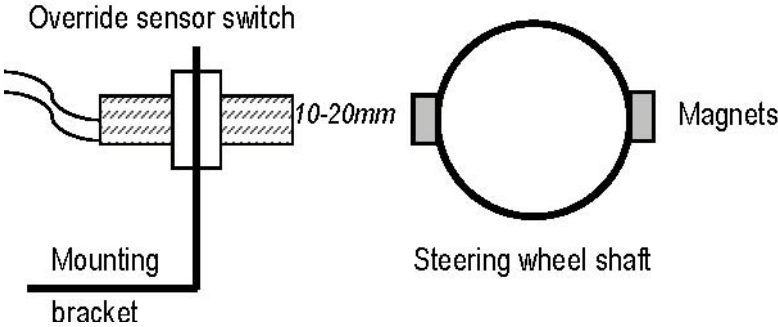


Figure 1. Schematic layout of the Auto-steer override sensor switch installation

Installation

Step	Instruction
1.	<p>Locate the steering shaft that connects the steering wheel to the hydraulic steering orbital. It is likely that the shaft will be covered inside the vehicle's cab, most tractors and models will have different panels, however it is necessary to locate the shaft and identify a suitable mounting spot for the sensor switch and magnets. The sensor needs to be mounted approximately 10-20mm from the magnets for correct operation.</p>
2.	<p>Once the mounting location has been decided, clean the steering shaft so that the epoxy will hold the magnets securely in place on the shaft. Typically the magnets should be installed 180 degrees apart on the steering shaft.</p>  <p style="text-align: center;">Figure 2. Detail installation for the override switch & magnets.</p>
3.	<p>Next install the sensor switch onto the mounting plate and using the supplied nuts. Select a suitable mounting location for the sensor switch and clean the area so that the epoxy will hold the bracket securely in place. Install the mounting bracket so that the sensor switch is approximately 15mm from the face of the magnets as the steering shaft turns.</p>
4.	<p>Connect the sensor switch cable to the interface cable and connect the other end to the Auxiliary port on the GPSteer controller. Secure the sensor switch and interface cable with the supplied cable ties ensuring that it does not obstruct the operation of the vehicle in any way.</p>

Testing

Commence operating the vehicle in accordance with the vehicle specifications and engage the Auto-steer in accordance with the user manual. To use the override sensor switch manually commence to steer the vehicle away from the guideline one way or the other. If the AutoSTEER does not disengage automatically try moving the sensor switch a bit closer to the magnets.

Safety & Warnings



Caution

It is recommended that all electrical wiring should be installed by a qualified auto-electrician. Incorrect wiring may damage the controller.



Warning

The use of the Auto-steer system is strictly limited to providing steering assistance to the operator who must remain in control of the vehicle at all times and operate the vehicle in accordance with the instructions provided. The operator should observe their surroundings where the vehicle is working and be alert to any nearby personnel and objects.

RINEX recommends that in all cases when the steering assistance is not being used that the AutoSTEER controller and any peripheral attachments are to be switched Off.

The safe operation of the vehicle when using either manual guidance, or steering assistance is imperative to the operator.