

## **AutoSPRAY** **Rogator 12x4 Installation Manual**

### I. Description

- a. The Leica AutoSPRAY is compatible with a wide variety of spray rate controllers. Leica has a range of easy to install interface cables available for most spray rate controllers.
- b. Most spray rate controllers have a single wire for each section from the controller to the solenoid or valve on the actual boom spray which regulates when the section is ON or OFF. Different controllers will have section switches built into the controller unit, whereas others will have separate or remote switches installed elsewhere in the vehicle for ease of use.
- c. The Leica AutoSPRAY works in a similar format to the remote switches. The AutoSPRAY will energize individual wires for each section which will open the solenoid or valve for that respective section. When necessary, the sections will be de-energized and the sections will close accordingly.
- d. There are two different Rogator AutoSPRAY cables
  - i. Boom Cable (1-2816): A general cable which controls up to six individual boom sections on the spray rate controller
  - ii. Vehicle Cable (1-2817): Controls the master switch
- e. Compatible vehicles
  - i. Rogator 1254
  - ii. Rogator 1264
  - iii. Rogator 1274

- ### II. Installation: How to connect and install the Rogator 12x4 AutoSPRAY cable. The installation and configuration of the Leica guidance system is detailed in the appropriate User Manual. Refer to the figure 2.1 for a schematic layout of the Leica AutoSPRAY and its relevant cabling to the Leica guidance system, GPS receiver and spray rate controller.

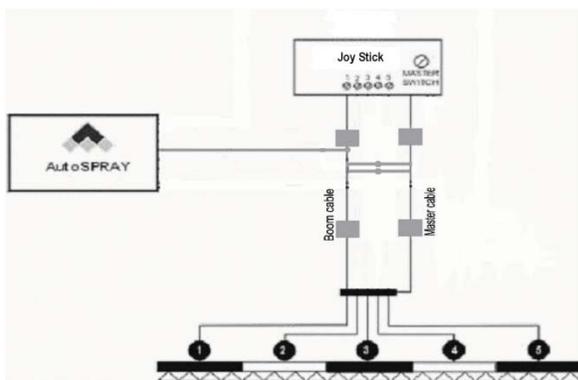


Figure 2.1 Schematic layout of typical AutoSPRAY installation

Please Note! It is recommended that all electrical wiring should be installed by a qualified auto-electrician. Incorrect wiring may damage the AutoSPRAY controller and/or the spray rate controller.

- a. Installing the Rogator 12x4 Boom AutoSPRAY cable (1-2816)
  - i. Locate the wiring panel inside the cabin with the spray control wiring harness
  - ii. Plug the supplied Rogator 12x4 Boom AutoSPRAY interface cable (1-2816) inline with the harness with the orange and yellow colored wiring.
  - iii. The spray rate controller should be tested for typical function before connecting the Rogator 12x4 AutoSPRAY cable to the Leica AutoSPRAY controller. Check all section switches function correctly and the controller can still actually display flow rate correctly.
  - iv. Subsequent to the test being successfully completed, the remaining circular AMP connector on the other end of the Rogator 12x4 AutoSPRAY cable plugs into the Leica AutoSPRAY controller as detailed in the AutoSPRAY installation manual. All AMP connectors have keys so that they will only fit one way and are twisted clockwise to lock the connector in position.
  - v. Leave two wires disconnected to link them to Master cable wires later on.
- b. Installing the Rogator 12x4 Master AutoSPRAY cable
  - i. Locate the wiring panel inside the cabin with the spray control wiring harness.
  - ii. Plug the supplied Rogator 12x4 Vehicle AutoSPRAY interface cable (1-2817) in line with the harness with the multicolored wiring.
  - iii. Link the two disconnected wires of the master cable with two wires of the Boom cable.
- c. Power Connection
  - i. The AS4080 does not require a power connection
  - ii. The AS100 can be powered via Micro-Trak AS cable. To execute this, simply connect the red and black wires to a suitable 12vdc ignition power source.

### III. Testing

- a. The test will require that the AutoSPRAY controller be connected to the Leica guidance system with a GPS receiver and that the spray rig be partially filled with water to undertake an in-field test.
- b. The test will require the spray rig to be in a field where the boom spray can be operated in a typical manner. All further testing details can be found in the AutoSPRAY User Manual.

### IV. Disclaimer

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