

Raven 4xx 5xx AutoSPRAY cable (Part No. 1-2810) Installation Manual

Part Number: 1-1271

Revision: D

Issue Date: October 2008



- when it has to be **right**

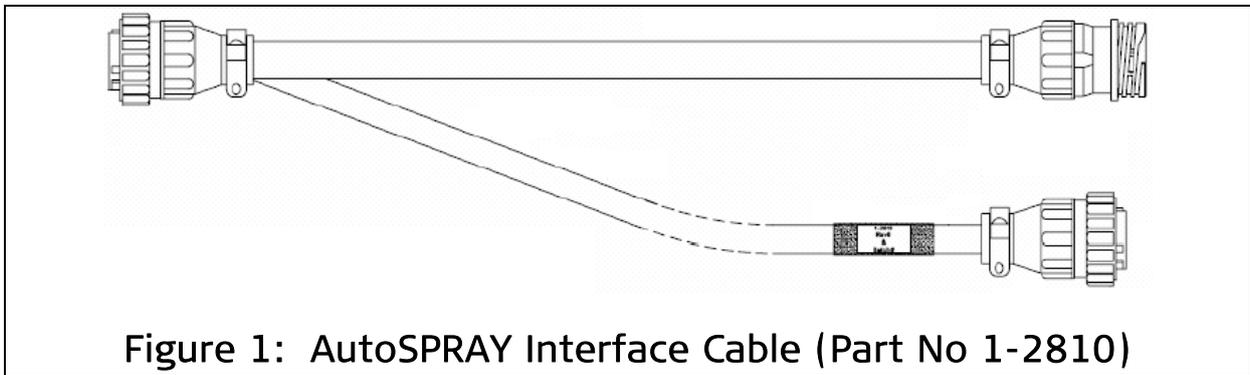


INTRODUCTION

The Raven SCS 4xx 5xx AutoSPRAY Cable (Part No 1-2810) is designed to suit the following installations:

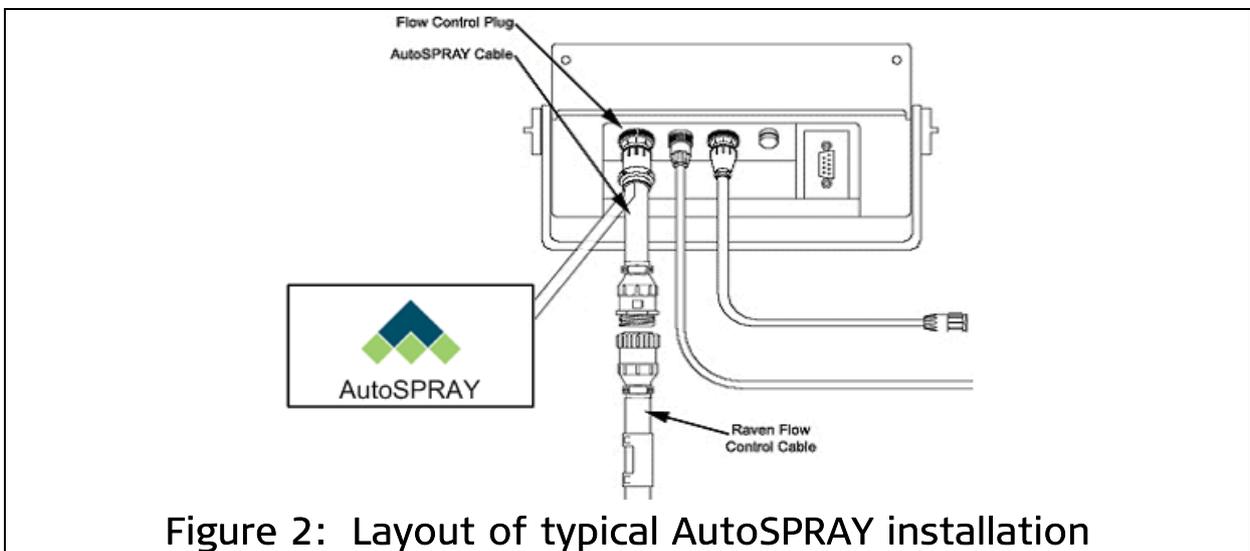
Compatible Spray Controllers		
Raven SCS 440	Raven SCS 460	Raven SCS 550
Raven SCS 450		

The cable will control up to six individual boom sections; where the controller is configured with a Master Switch sense line it will be detected. See APPENDIX B for detecting an external Master Switch.



INSTALLATION

A diagram of the cable installation is shown in Figure 2.





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.

The installation and configuration of the RINEX AutoSPRAY controller is detailed in the appropriate User Manual.

Step	Instruction
1.	Check that the spray controller and boom section switches are functioning correctly before commencing the installation.
2.	Locate the main boom cable, 16 pin AMP circular connector, on the back of the Raven spray rate controller. Disconnect it by twisting the connector anti-clockwise.
3.	Plug the supplied 1-2810 Raven 4xx 5xx AutoSPRAY tee cable in-line between the two mating connectors from Step 2.
4.	Confirm that the spray controller and boom section switches function correctly before connecting the cable to the RINEX AutoSPRAY controller. Check that all section switches function correctly and the controller still displays the correct flow rate.
5.	Connect the 16 pin circular AMP connector on the other end of the 1-2810 Raven 4xx 5xx AutoSPRAY cable to the RINEX AutoSPRAY controller.
6.	Confirm that the spray controller and boom section switches function correctly.

Note: If the RINEX AutoSPRAY controller is not connected directly to a 12Vdc source (vehicle power), then it is necessary to connect the AutoSPRAY cable to the vehicle power supply for correct operation of the system. Refer to APPENDIX A for connecting to vehicle power.

APPENDIX A CONNECTING POWER



Power for the AutoSPRAY Controller /cable must be a clean 12Vdc source. Connecting the AutoSPRAY controller to 24Vdc will cause damage to the controller. If connecting to a 24Vdc vehicle, 12Vdc power must be connected to the same power source the spray rate controller is using.

Step	Instruction
1.	Connect the RED wire, labelled POWER to a 12Vdc power source that is controlled with the vehicle ignition wiring (power with the vehicle is ON). Then connect the BLACK wire, labelled GROUND to a ground point on the vehicle.

APPENDIX B CONNECTING EXTERNAL MASTER

If the spray rate controller does not output a 12Vdc signal from the Master Switch, an external Master Switch can be detected. The Master Switch detect cable is embedded within the wiring loom near the AutoSPRAY controller connector as shown in

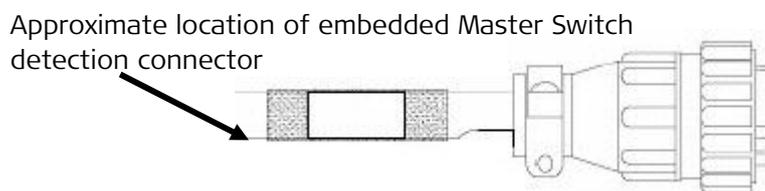


Figure 3: Embedded Master Switch Detection Connector

Step	Instruction
1.	Locate the spade connector which is approximately 50mm from the connector. Expose the connector from beneath the braiding which protects the cable. Connect this to an external Master Switch which outputs a 12Vdc signal