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# Generic 13 Section AutoSPRAY cable (Part No. 1-2806) Installation Manual

Part Number: 1-1269

Revision: A

Issue Date: October 2008



- when it has to be **right**



## INTRODUCTION

The Generic 13 Section AutoSPRAY Cable (Part No 1-2806) is designed to suit the following installations:

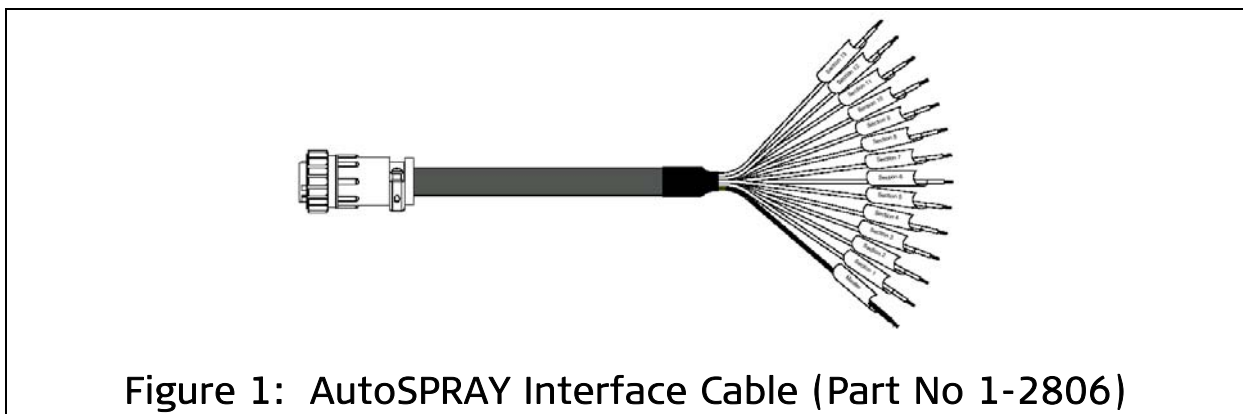
Compatible Spray Controllers		
Farmscan 2400*	Micro-Trak Spraymate II	Mid Tech TASC 6300
Hiniker 8150	Micro-Trak MT3000	Mid Tech TASC 6500
Hiniker 8160	Mid Tech ARC 6000	Mid Tech TASC 6600
Hiniker 8605	Mid Tech TASC 6100	RDS PRO-SERIES 8000
	Mid Tech TASC 6200	

\*fitted with a 2403 switch controller

Compatible Self Propelled Sprayers		
AGCO Rogator 854*	AGCO Eagle 8100	AGCO Eagle 8500
AGCO Rogator 864*	AGCO Eagle 8400	AGCO Eagle 8600
AGCO Rogator 874*		AGCO Eagle 8650

\* if fitted with Raven 661 spray controller

The cable will control up to thirteen individual boom sections; and may detect the status of the Master Switch in the installation.



## INSTALLATION

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

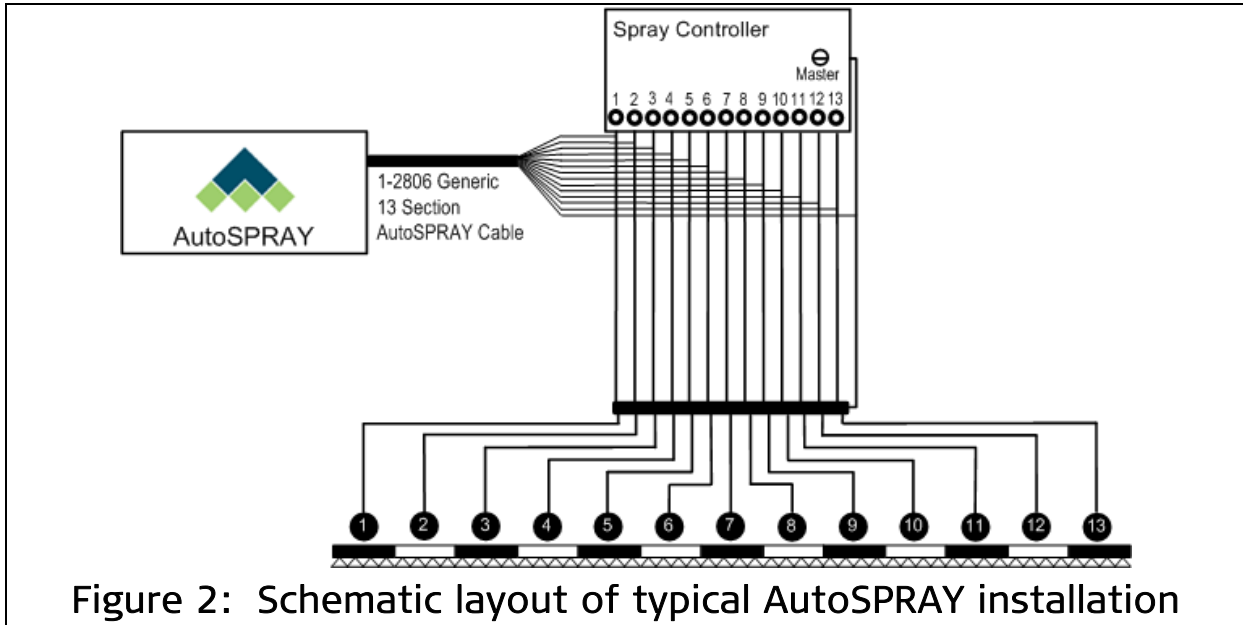


Figure 2: Schematic layout of typical AutoSPRAY installation



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.	Determine the number of sections or valves for the spray rate controller. This is the number of switches on the controller. Record this in Table 1. Note that the 1-2806 Generic 13 Section AutoSPRAY cable will control a maximum of thirteen (13) sections.

Step	Instruction
3.	<p>Identify the wires that are connected from the solenoid or valves on the boom spray for each respective section.</p> <p>Record the colour and/or identification code for each individual section in Table 1.</p> <p>Note1: Section one is referred to as the left most section when standing at the rear of the boom spray looking forward. The section numbers increase towards the right hand side.</p> <p>Note 2: Any fence-line or end nozzles should not be included in these sections.</p>
4.	<p>Trace the individual wires for each section through to the operator's cabin of the vehicle. Then identify a location where the generic AutoSPRAY cable can be spliced into the wiring loom. <b>DO NOT CUT</b> the wires at this point in time.</p>
5.	<p>Check that each section wire, as noted in Table 1, has +12Vdc when the respective section switch is turned ON. This should be done using a voltmeter. It is important to check that each section wire is <b>NOT CONNECTED TO GROUND</b> when the section switch is turned OFF.</p>
6.	<p>Join the matching 1-2806 Generic 13 Section AutoSPRAY cable section wire to the boom spray section wire as noted in Table 1.</p> <p>It is important that a good reliable connection is made between the two wires.</p> <p>It is recommended that the connecting wires be soldered together and insulated accordingly. Any section wire from the generic AutoSPRAY cable that is not connected should be insulated from all other wires.</p>
7.	<p>Follow the instructions in APPENDIX B to connect the Yellow/Red wire (labelled MASTER) of the 1-2806 Generic 13 Section AutoSPRAY cable to the Master switch.</p>
8.	<p>Confirm that the spray controller and boom section switches function correctly <b>before</b> connecting the 1-2806 Generic 13 Section AutoSPRAY cable to the RINEX AutoSPRAY controller. Check that all section switches function correctly and the controller still displays the correct flow rate.</p>

Step	Instruction
9.	Connect the 16 pin circular AMP connector on the other end of the 1-2806 Generic 13 Section AutoSPRAY cable to the RINEX AutoSPRAY controller.
10.	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.

Generic AutoSPRAY Cable				BoomSpray	
Pin	Function	Colour	Label	Colour	Label
1	Section 1	White	Section 1		
2	Section 2	White	Section 2		
3	Section 3	White	Section 3		
4	Section 4	White	Section 4		
5	Section 5	White	Section 5		
6	Section 6	White	Section 6		
7	Section 7	White	Section 7		
8	Section 8	White	Section 8		
9	Section 9	White	Section 9		
10	Section 10	White	Section 10		
11	Section 11	White	Section 11		
12	Section 12	White	Section 12		
13	Section 13	White	Section 13		
14	Boom 12Vdc+ Master switch sense	Yellow/ Red	Master	See APPENDIX B.	

**Table 1: Generic 13 Section AutoSPRAY cable pinouts**

## 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 MASTER SWITCH

The Yellow/Red wire (labelled MASTER) of the 1-2806 Generic 13 Section AutoSPRAY cable can be connected to any 12 V source that is on when the spray rate controller master switch is on.

Alternatively, the Yellow/Red Master wire can be connected to another switch with 12Vdc + that is to be used as the AutoSPRAY master switch.