

AutoMate™ Equipment Specific Installation Kit

P/N: 750-3006


Fits John Deere 4700/4710/4720/4730, 4830, 4920/4930 Sprayers

Overview

A series of equipment-specific kits have been developed to allow the interface of the AutoMate system with your product rate controller. This kit contains the necessary components and instructions to connect AutoMate with the equipment models listed above. Please read this manual thoroughly before beginning the installation.

Kit Contents:

Unpack the installation kit and identify the required parts as shown.

REF	ITEM	QTY	COMMENTS	PHOTOGRAPH
A	Interface Cable	1	John Deere 4700/4710	
B	Tie Straps	6	Black, 13 inch	Not Shown
C	Installation Instructions	1		Not Shown

Installation:

Install the AutoMate interface onto the sprayer with the following steps.

1. Remove the screw and retainer plate to access the boom section switches.



Fig. 1: Boom switch control panel

2. Locate the boom switch wire connector for each boom section.

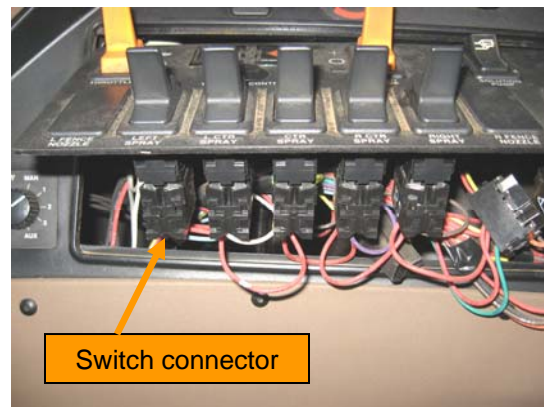


Fig. 2: Boom switch connectors

3. Route the end of the interface cable (A), with the male and female spade connectors, between the window and control panel housing to the boom switches.

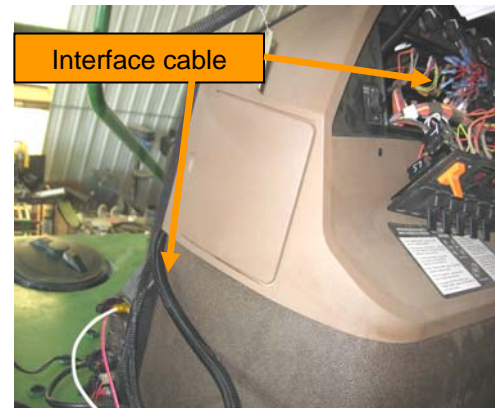


Fig. 3: Interface cable routing

4. Locate the #2 and #3 Pins on the boom switches.
5. Disconnect the wire connector from left boom switch, boom switch #1.

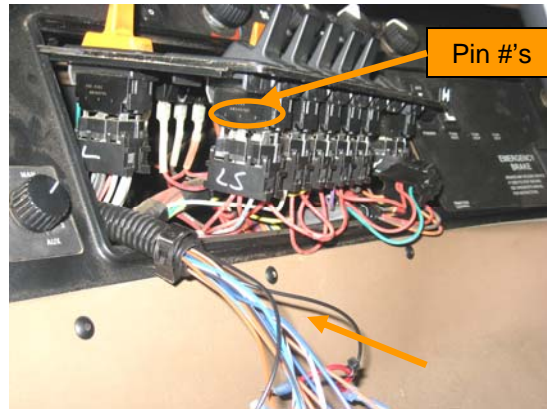


Fig. 4: Boom #1 pin connectors

6. Use the following chart to connect the interface cable (A) to the boom switch wire connector. The AutoMate interface simply tees into Pin #3 and passes power through to Pin #2.

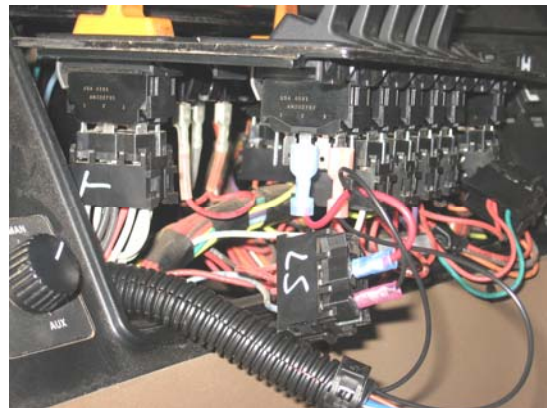


Fig. 5: Boom #1 connected

	AutoMate Wire	Connection Location
Boom #1	Black male Black female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch
Boom #2	Brown male Brown female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch
Boom #3	Blue male Blue female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch
Boom #4	Black/White male Black/White female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch
Boom #5	Brown/White male Brown/White female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch
Boom #6	Blue/White male Blue/White female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch
Boom #7	White/Black male White/Black female Red male Red female	Pin #3 wire connection Pin #3 boom switch Pin #2 wire connection Pin #2 boom switch

7. Connect the remaining boom switches following the chart



Fig. 6: Boom switches connected

8. Connect the red power wire from the AutoMate interface to switched power and the white wire to ground.
9. Connect the Power and Control connectors of the interface cable (A) to the AutoMate console.



Fig. 7: AutoMate console

10. There are two options to start and stop logging/operation with the AutoMate. You can use the Automate console or connect 12v to the orange/white wire of the AutoMate interface through an external switch.
11. In order for AutoMate to have control of the boom sections the joy stick master switch must be ON and all individual boom switches must be OFF.
12. Secure all wiring with tie-straps and clean up the installation. The AutoMate interface installation is now complete.



Fig. 8: Boom Sections Off

Important: If the conditions of step 11 are met, AutoMate will begin to spray if 1) AutoMate recognizes that it is in an un-applied area and 2) AutoMate recognizes a positive ground speed.

