


Section/Rate Control Kit Installation Guide

Kit: SECT RATE CTRL M5000
P/N 911-0012-000

Fits Miller Nitro 4000/5000 Series Sprayers:

Read and Follow Safety Messages

- In these instructions, you may see the heading WARNING and the safety alert symbol . They indicate a hazardous situation that, if not avoided, could result in death or serious injury. The safety messages provide information to identify a hazard associated with potential injury.
- Before installing, operating, or performing maintenance or service on any part of the system, read and understand this installation guide.
- Do not allow anyone to operate without instruction.
- Keep these instructions and all related safety information with the manuals for your machine and other implements.



If you have questions or need assistance, contact your local dealer or distributor.



Overview

A series of equipment-specific kits has been developed to enable the AC110 section/rate controller to interface with your product rate controller. This kit contains the components and instructions to connect an AC110 with a Miller Nitro 4000/5000 series sprayer.

Please read this manual thoroughly before beginning the installation.

Kit Contents

Unpack this kit and identify the required parts as shown. Kit items are referenced A, B, C etc. and those references are used in the installation steps and pictures.

REF	PART NUMBER	QTY	DESCRIPTION	PHOTOGRAPH
A	054-0201-000#	1	Interface cable	
B	750-5006-000#	1	Section/rate controller (AC110)	

Kit Contents (continued)

REF	PART NUMBER	QTY	DESCRIPTION	PHOTOGRAPH
C	054-0144-000#	1	Power cable	
D	054-0185-000#	1	Power switch cable	
E	051-0067-005#	1	Input/output splitter ('Y') cable	
F	051-0288-000#	1	CAN loop back connector (terminator)	
G	677-2001	20	Tie strap, 11" heavy duty	

Connections and Installation

1. Install and connect the AC110.

NOTE:

The text and figures in this section detail the installation of the AC110 and the connections you will need to make. Exactly when you install the AC110 and make the connections depends on individual installations and your working preferences. See “Appendix - AC110 Cables and Connections” on page 4.

- a. Under the machine, locate the forward face of the box bracket in line with the front wheels (between the remote fill station pivots—Figure 1a).

Using ties **G** (or your own hardware), attach the AC110 **B** to the box bracket (Figure 1a—see next step for AC110 connections).

- b. Install the loop back connector (terminator) **F** in the appropriate connector on interface cable **A** then connect **A** (main plug and power connectors) to AC110 **B**, red to + positive, black to - negative (Figure 1b). Do not refit terminal nuts yet.

Connect the non-fused end of power cable **C** to AC110 **B**. Refit the terminal nuts and tighten the power connections (Figure 1b).

- c. Route the power switch and CAN end of interface cable **A** up and into the machine’s cab (not shown). You will connect these cables in steps 1d and 1e.

- d. Using the splitter (‘Y’) cable **E** (but see note following), tie into the existing CAN connection. For example, connect **E** between the 7-pin CAN connector labeled “ECU” on the Outback MAX cable (with the white main connector) and the 7-pin CAN connector on interface cable **A** (Figure 1c).

NOTE:

You can use splitter cable **E** as an extension cable between interface cable **A** and the CAN connection “ECU” on the (white connector) Outback MAX cable. You can also use cable **E** to connect the switchbox if installed (Figure 1c).

- e. Connect power switch cable **D** to the 4-pin connector on interface cable **A** (Figure 1d).

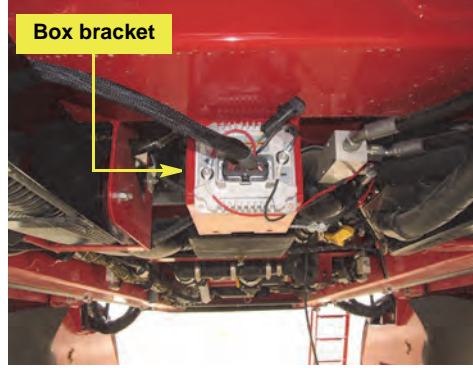


Figure 1a: AC110 installation

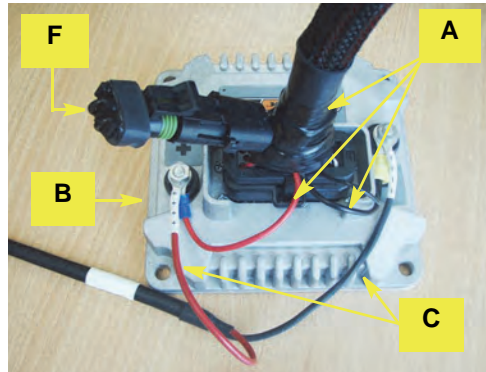


Figure 1b: Connections at AC110

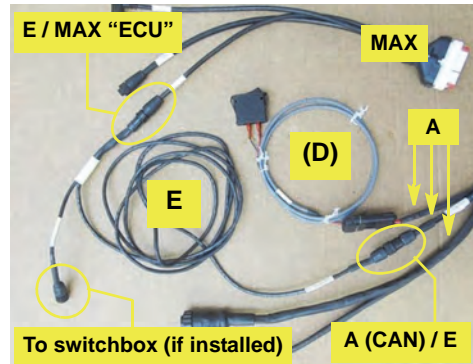


Figure 1c: Splitter cable connections

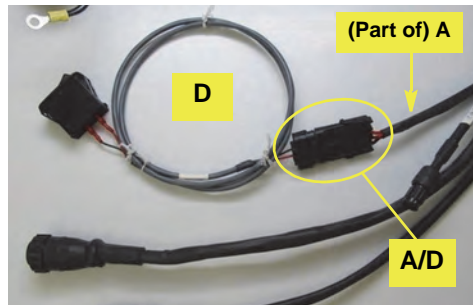


Figure 1d: Connecting the power switch cable

2. **Install the interface cable.**

a. Locate the machine's 31-pin connection to the boom switch bulkhead connector inside the right side frame just inboard of the right front wheel (Figure 2a).



Figure 2a: Boom switch connection—before and after disconnection

b. Disconnect the machine's connector and connect the 31-pin connector of interface cable **A** (Figure 2b). Dust/weatherproof unused/exposed connections.

NOTE: *If your AC110 connections are not yet complete, refer to **Install and connect the AC110**, page 3.*

c. Connect the fused end of power cable **C** to the machine's battery.

d. Secure all cabling with tie straps **G**.

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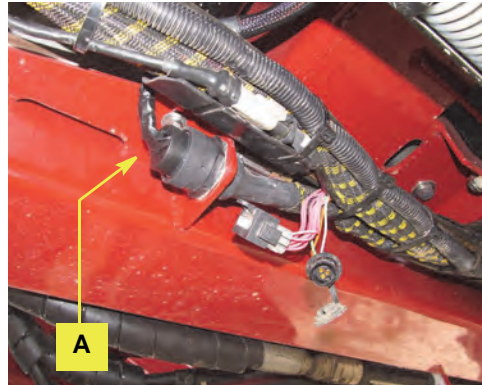


Figure 2b: Interface cable installed

Appendix - AC110 Cables and Connections

