

# PPII to PPIII Envelop Upgrade Installation Instructions 2018–2022 Miller Nitro/ New Holland Guardian

**Table 1: Parts List**

Part Number	Description	Qty
713501-433	BOLT, 5/ 16-18 X 6, CARRIAGE	4
713501-412	BOLT 5/ 16-18 X 1 55 HEX HEAD	4
706530-464	DUST CAP, 12-PIN, B KEY	1
706530-456	DUST PLUG 8-PIN DEUTSCH DT	1
123150-015	EXT CAN-BUS, 15' UNFUSED	1
713501-447	NUT, FLANGE, 5/ 16 - 18, ZINC	8
123000-150	ASSY, POWER HUB PPIII	1
713501-406	BOLT 5/ 16" X 3/ 4" SS	2
118640-108	BRACKET MOUNTING UNIVERSAL	2
118640-048	HARNESS, CAN,Y	2
123000-229	INSTALLATION, MILLER, PPIII	1
122100-010	INSTALLATION KIT PINPOINT	1
123000-230	INTEGRATION, MILLER, PPIII	1
123000-013	MOUNTING PLATE, PPIII	1
123000-018	MOUNTING PLATE, PPIII, MILLER	1
123000-210	OP MANUAL PPIII ENVELOP	1
118606-811	SHUTOFF HARNESS, 10 SEC, NITRO	1
118606-822	SIGNAL HARNESS PC2 REPLACEMENT	1
715005-145	TERMINAL RING 8GA 1/ 4" INS	2
713600-002	WASHER FLAT 5/ 16" SS	2
713600-001	WASHER LOCK 5/ 16" SS	2

## Requirements

- 2018–2022 Miller/ New Holland Sprayer
- Fully functioning PinPoint II system with no faults/errors
- ISOBUS Compatible Controller - Confirm Maximum Task Control Section Capabilities with Controller Manufacturer

## PPII to PPIII Retrofit Procedure

1. Prepare the machine for PPIII installation.
  - Manually trip the circuit breaker at battery. Check for voltage across the **12+V** and **-GND** posts on the gateway hub if needed to verify that power has been disconnected.
  - Remove the PPII Gateway hub cover.
  - Cut off the existing ring terminals from the PPII power harness at the gateway hub side and replace them with supplied 1/4" terminals (PN 715005-045).
2. Remove PPII system components.
  - Label each VCM Extension harness by location on boom (Boom 1 = VCM ext 1, Boom 2= VCM ext 2, etc) and remove VCM Extension harnesses 1–7 from the Gateway hub.
  - Remove the harness for the CapView display.
  - Remove the CapView II, key switch power cable if needed, and GPS Harness from the sprayer cab.
  - Remove rest of the PPII chassis harnessing from the Gateway hub.
  - Remove the Gateway hub and mounting.
  - Remove the PPII chassis harness from the machine.
3. Install the PPIII Envelop system in accordance with Miller NH Install instructions (PN 123000-229).
  - Connect PPII power harness to the PPIII Gateway hub.
  - Plug the machine VCM extension harnesses into the Gateway Hub as shown in Table 2.
  - Close the breaker at the battery.

**Table 2: Gateway Hub VCM Port Connections**

Gateway Hub Port	Machine Harness Connection
VCM Port 1 (CAN-Y cable installed)	VCM 1 (Boom 1) extension harness (via CAN-Y cable PN 118640-048)
	VCM 2 (Boom 2) extension harness (via CAN-Y cable PN 118640-048)
VCM Port 2	VCM 3 (Boom 3) extension harness
VCM Port 3	VCM 4 (Boom 4) extension harness
VCM Port 4	VCM 5 (Boom 5) extension harness
VCM Port 5 (15' extention installed)	VCM 6 (Boom 6) extension harness (via 15' extention PN 123150-015)
VCM Port 6	VCM 7 (Boom 7) extension harness
VCM Port 7	VCM 8 (Boom 8) extension harness
VCM Port 8 (CAN-Y cable installed)	VCM 9 (Boom 9) extension harness (via CAN-Y cable PN 118640-048)
	VCM 10 (Boom 10) extension harness (via CAN-Y cable PN 118640-048)

4. After installation is complete, set up the system in accordance with integration instructions (PN 123000-230) Miller Nitro PP3 Integration.