

# PinPoint™ III ENVELOP upgrade from PinPoint™ II on 2019+ Apache

Table 1: Parts List

Part Number	Description	Qty
118640-048	HARNESS, CAN, Y	2
123000-150	ASSY, POWER HUB, PPIII	1
123000-219	INSTALLATION APACHE PPII-PPIII	1
123100-038	HARNESS, FENCE ROW, FAST AG	2
123100-081	HARNESS, APACHE PCII NODE	1
715005-045	TERMINAL RING, 8 GA, 1/4", INSULATED	2

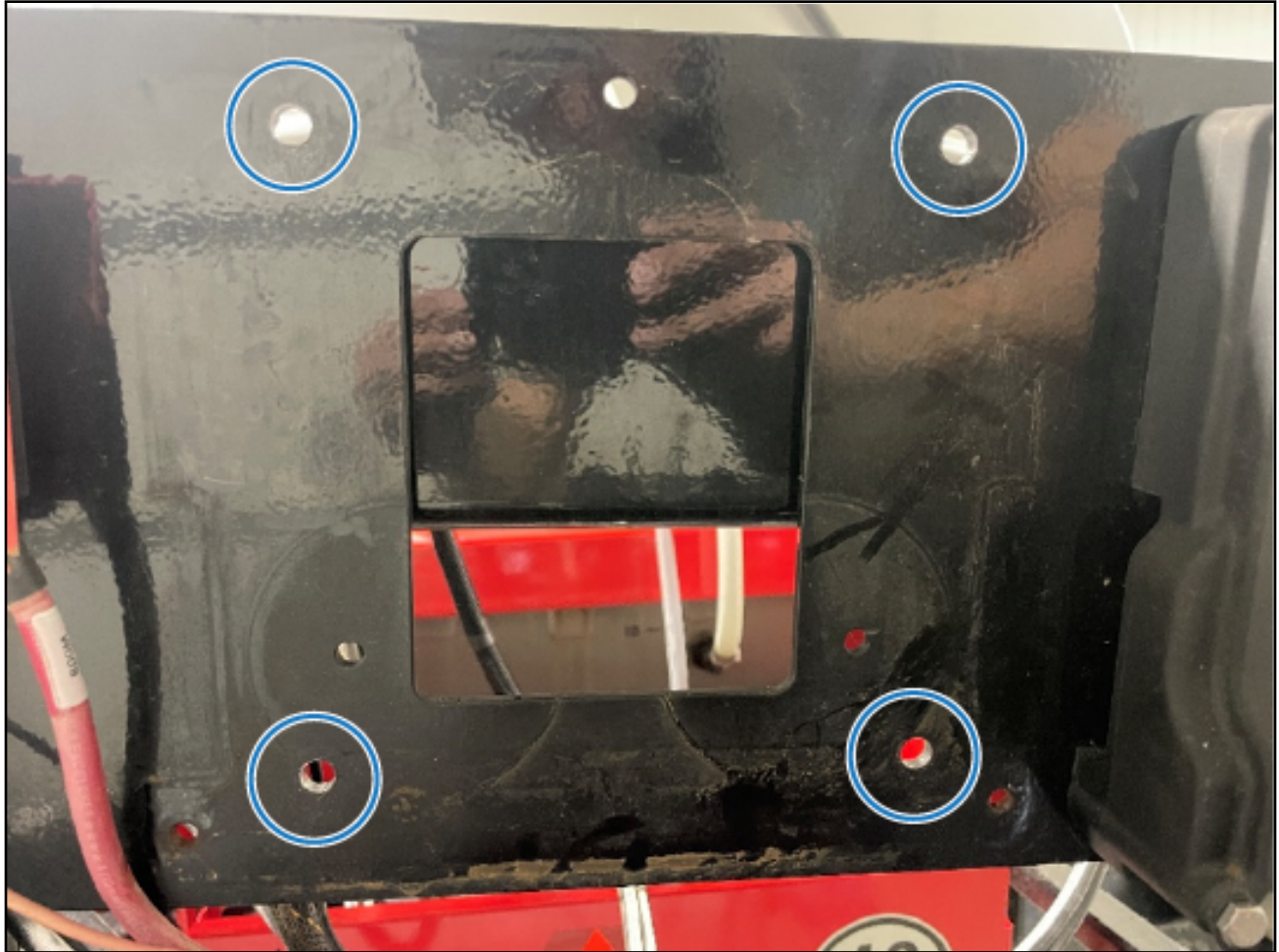
## Requirements

2019 or Newer Equipment Technologies Apache Sprayer  
Factory Installed PinPoint II on Sprayer  
ISOBUS Compatible Controller

**Note:** PinPoint II Gateway Hub, CapView II, and chassis harness are removed from the machine before PinPoint III ENVELOP installation.

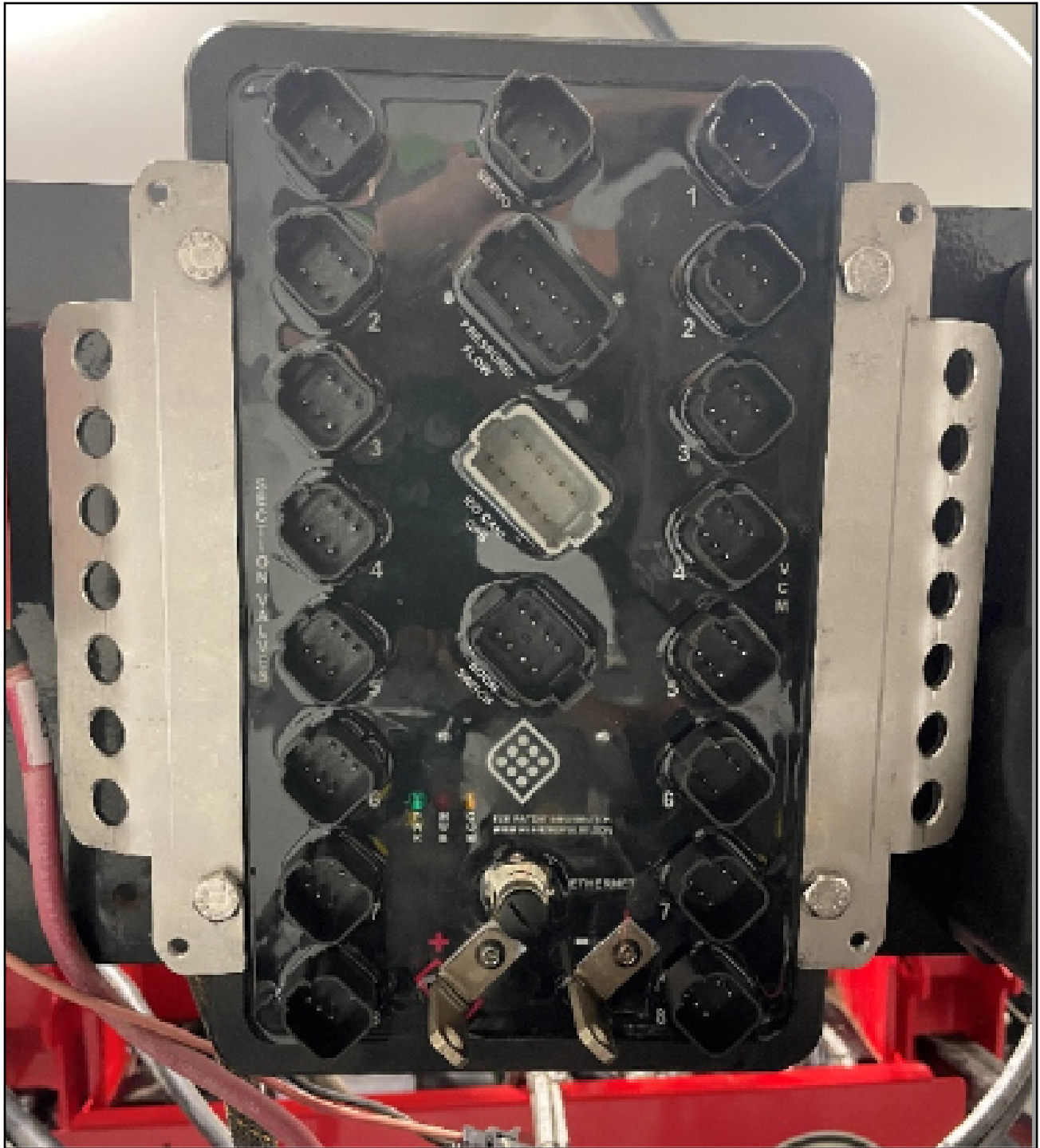
## Installation

1. Remove RCM or PC2 Node from Rear Rack



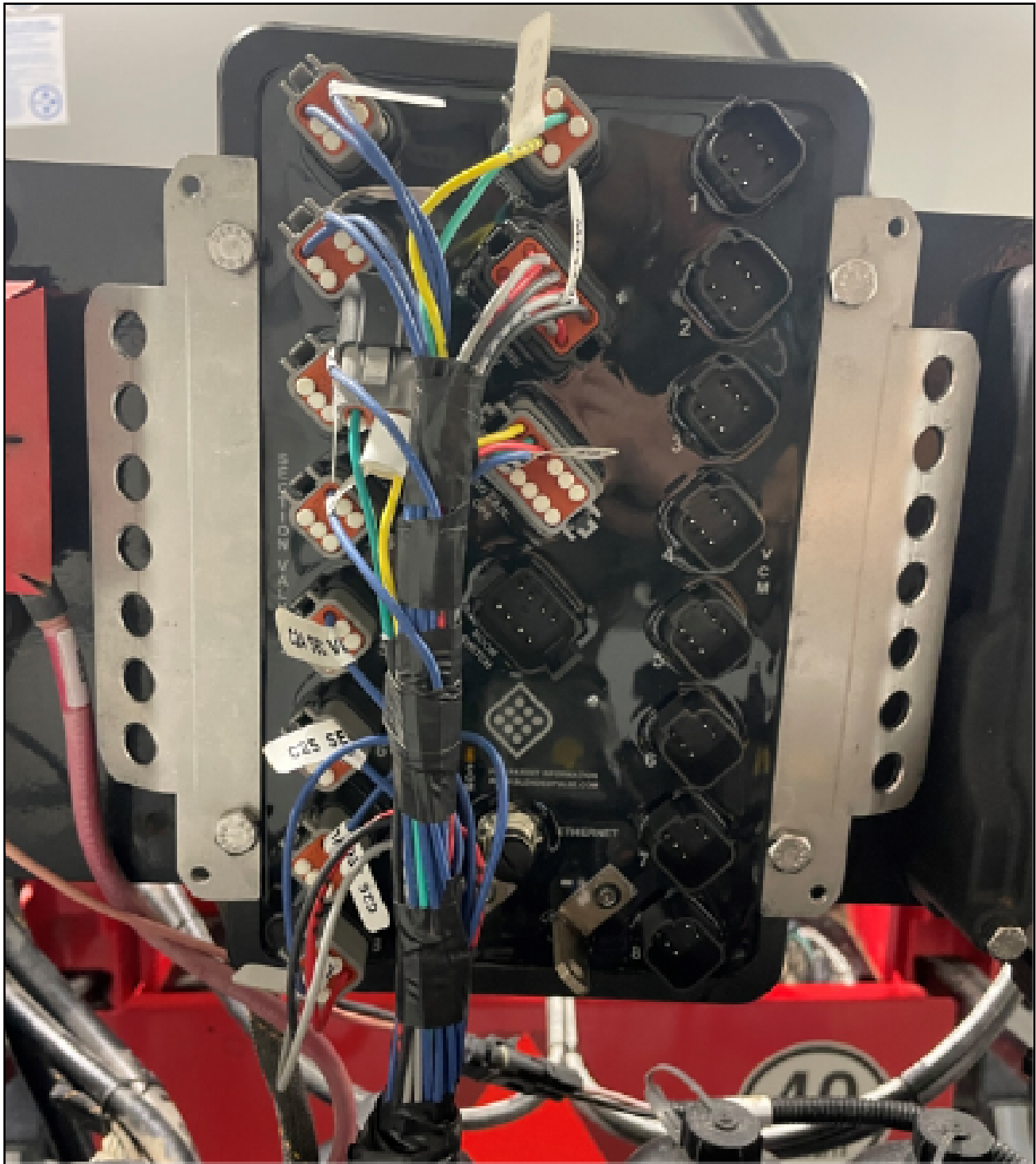
**Figure 1: Mounting Holes**

2. Use the Gateway Hub to mark bolt hole mounting locations.
3. Drill the Gateway Hub mounting holes with a 5/16" drill bit.



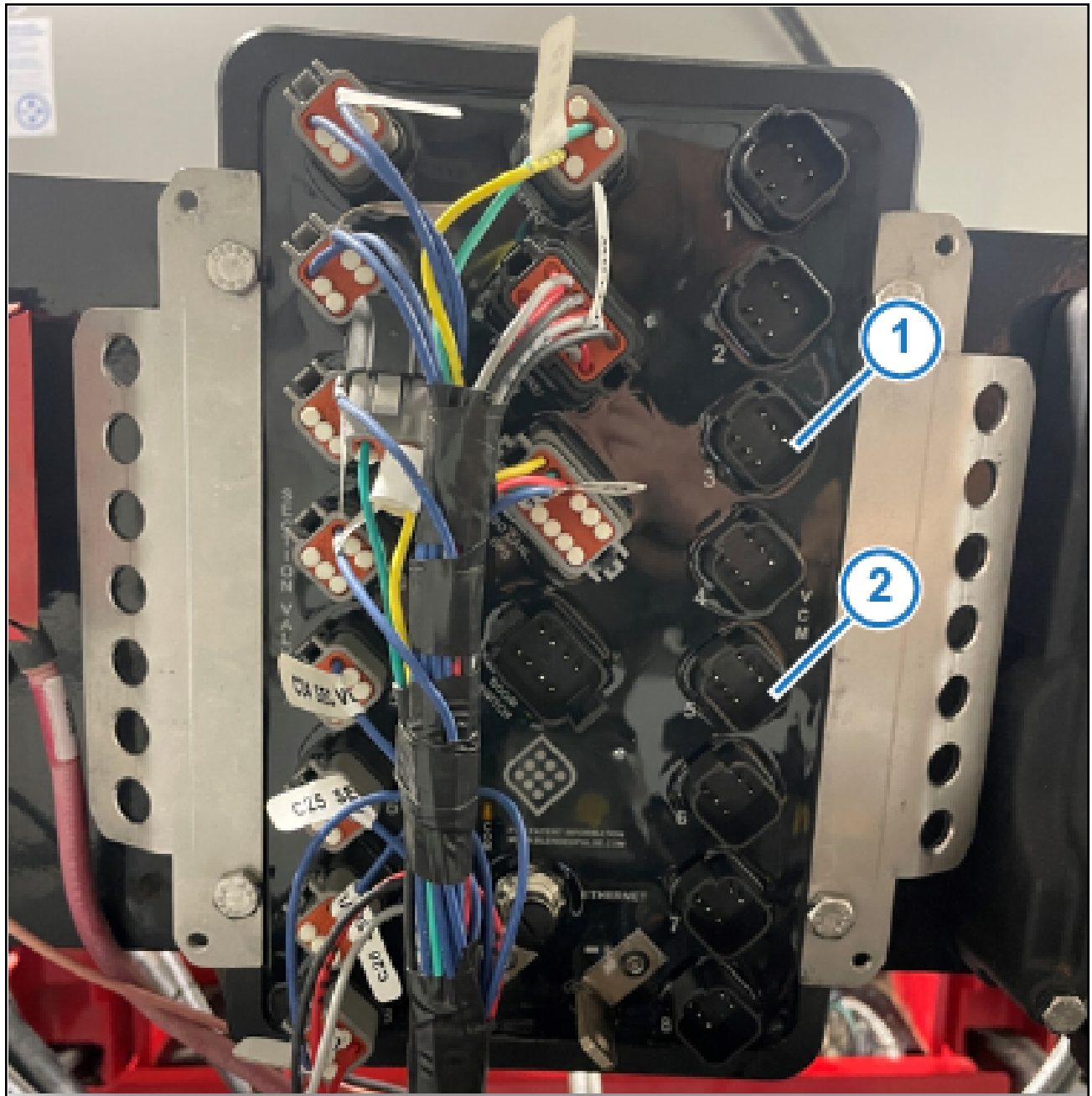
**Figure 2: Gateway Hub Mounting**

4. Secure Gateway Hub to machine using mounting hardware.



**Figure 3: ET Harness Installation**

5. Install Equipment Technologies (ET) chassis harness to Gateway Hub and machine per ET installation instructions.
6. Cut off the existing ring terminals from the PPII power harness and replace them with supplied 1/4" terminals (PN 715005-045). Connect PPII power harness to the Gateway Hub



**Figure 4: CAN-Y Harness Installation**

7. Locate the two CAN-Y cables (PN: 118640-048) in the installation kit.
8. Install one CAN-Y cable into VCM port 3 (Figure 4, Item 1) on the Gateway Hub and the other into VCM port 5 (Figure 4, Item 2).



**Figure 5: CAN-Y Cable**

9. Plug the machine VCM extension harnesses into the Gateway Hub as shown in table 2.

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

Gateway Hub Port	Machine Harness Connection
VCM Port 1	VCM 1 (Section 1) extension harness
VCM Port 2	VCM 2 (Section 2) extension harness
VCM Port 3 (CAN-Y cable installed)	VCM 3 (Section 3) extension harness (via CAN-Y cable)
	VCM 4 (Section 4) extension harness (via CAN-Y cable)
VCM Port 4	VCM 5 (Section 5) extension harness
VCM Port 5 (CAN-Y cable installed)	VCM 6 (Section 6) extension harness (via CAN-Y cable)
	VCM 7 (Section 7) extension harness (via CAN-Y cable)
VCM Port 6	VCM 8 (Section 8) extension harness
VCM Port 7	VCM 9 (Section 9) extension harness

10. If the machine is equipped with fence row nozzles, proceed to Step 11. If not, skip to Step 14.

11. Locate the TeeJet Fence Row Nozzle Adapter Harnesses: PN 123100-038



**Figure 6: Fence Row Adapter Harness**

12. Unplug the factory harness from the fence row nozzle(s) and install the adapter harness in its place.

13. For left fence row nozzles, plug the last drop from VCM 1 into the weather pack end of the fence row nozzle adapter harness.

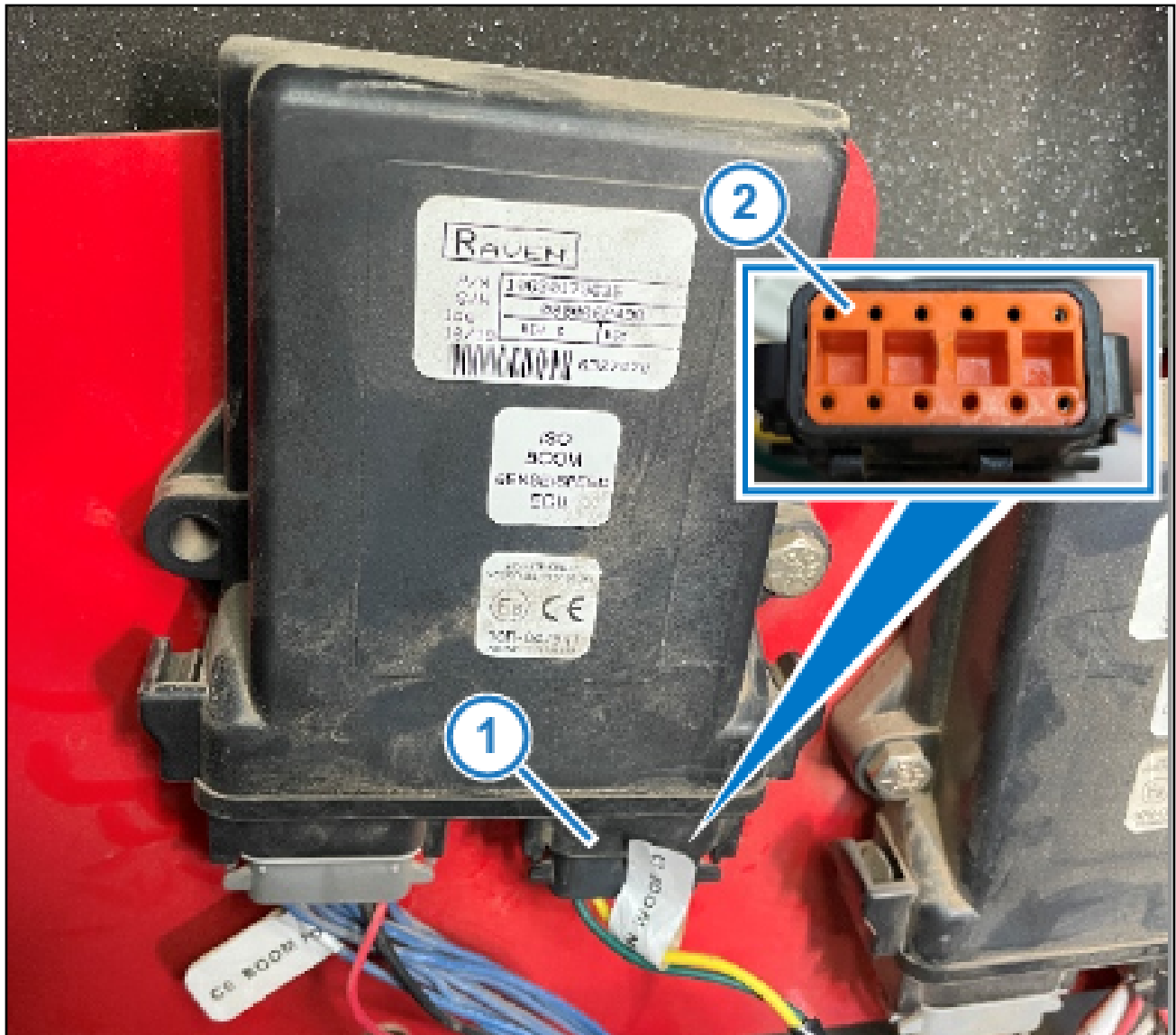
For right fence row nozzles, plug the last drop of VCM 9 into the weather pack end of the fence row nozzle adapter harness.

14. Install dust plugs into any unterminated connections

15. If the machine was equipped with an RCM node, installation is now complete. Setup and Integration instructions can be found at [www.capstanag.com/ET](http://www.capstanag.com/ET).

If the machine is equipped with both a PC2 node and Fence Row Nozzles, proceed to Step 16.





**Figure 7: PC2 Node**

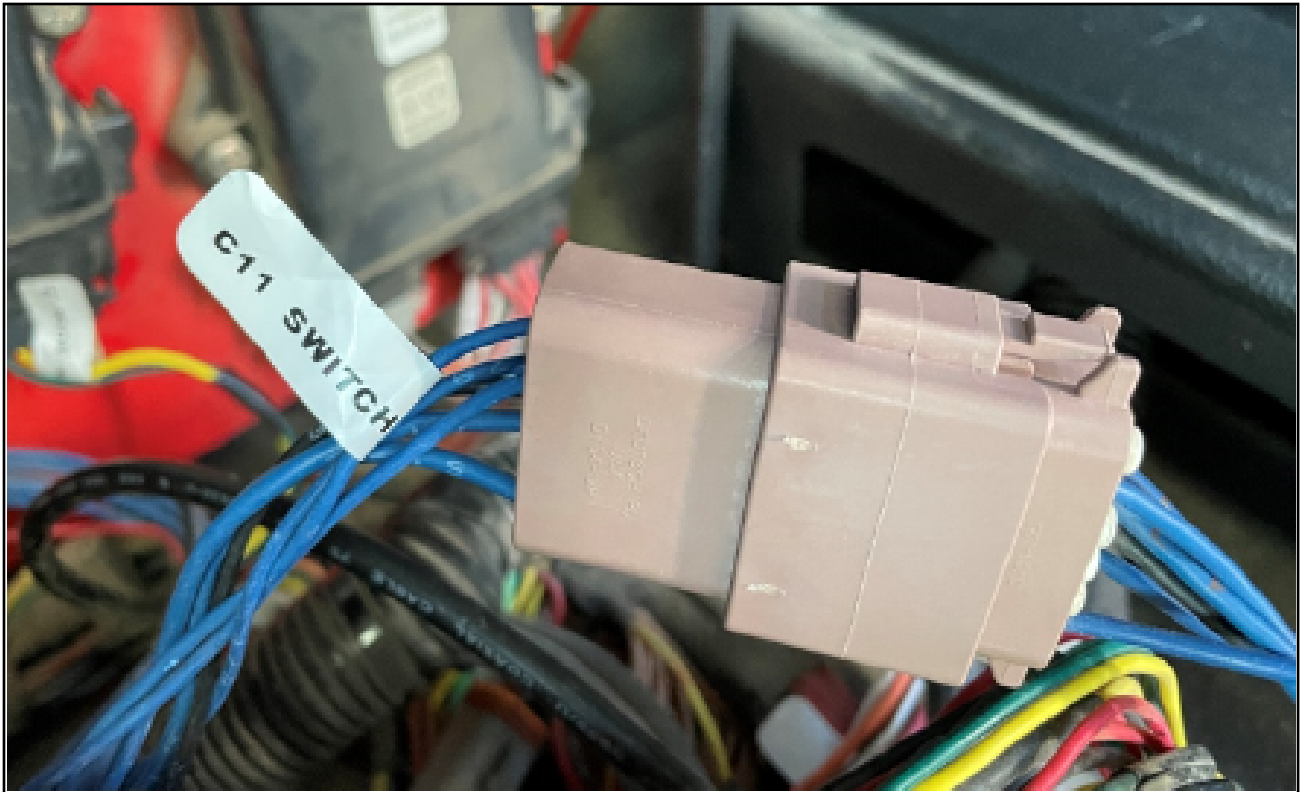
16. Locate the boom speed node under the arm rest
17. Remove Plug C7 (Figure 7, Item 1).
18. Remove wedge lock from C7 Plug (Figure 7, Item 2).



**Figure 8: C7 Plug Detail**

19. Locate fence row adapter harness (PN: 123100-081)
- Install the blue wire into Pin 6 on the C7 Connector
  - Install the brown wire into Pin 7 on the C7 connector





**Figure 9: C11-C4 Connection**

20. Locate the C11 and C4 12 Pin DT connections near the boom speed node
21. Unplug the C11 and C4 connection and install the other end of the fence row adapter harness into the disconnected plugs to form a T-junction.
22. Install dust plugs into any unterminated connections
23. Installation is now complete.

Setup and Integration instructions can be found at [www.capstanag.com/ET](http://www.capstanag.com/ET).