

Installation Instructions

PinPoint™ III ENVELOP on Case IH 3000-4000 Series MY2017-2022

Parts List

Part Number	Description	Parts Drawing Description	Qty
118606-819	PCII Node Replacement Signal Harness	SIGNAL HARNESS, PC2 REPLACEMENT	1
118606-827	PCII Node Replacement Shut-off Harness	SHUTOFF HN, PC2 REPLACEMENT	1
118640-038	Case IH Mounting Brackets	PPIII, HUB MOUNT, 3000, 4000	2
123000-013	Envelop Hub Universal Bracket	MOUNTING PLATE, PPIII	1
123000-150	Envelop Hub	ASSY, POWER HUB PPIII	1
123100-040	Power Harness	POWER HARNESS 40' PPIII	1
620137-001	Bolt	BOLT FLANGE 3/8"-16 X 1" GR8	4
713501-517	Cap Screw	SCREW 3/8"X16X3/4" HEX HEAD	4
713501-530	Flange Nut	NUT, HEX FLANGE 3/8-16	4
713501-905	Locknut	NUT 3/8"-16 HEX W/K-LOCK	4
713600-003	Washer	WASHER FLAT 3/8	4

Envelop Hub Installation

1. Open main power breaker before beginning installation.

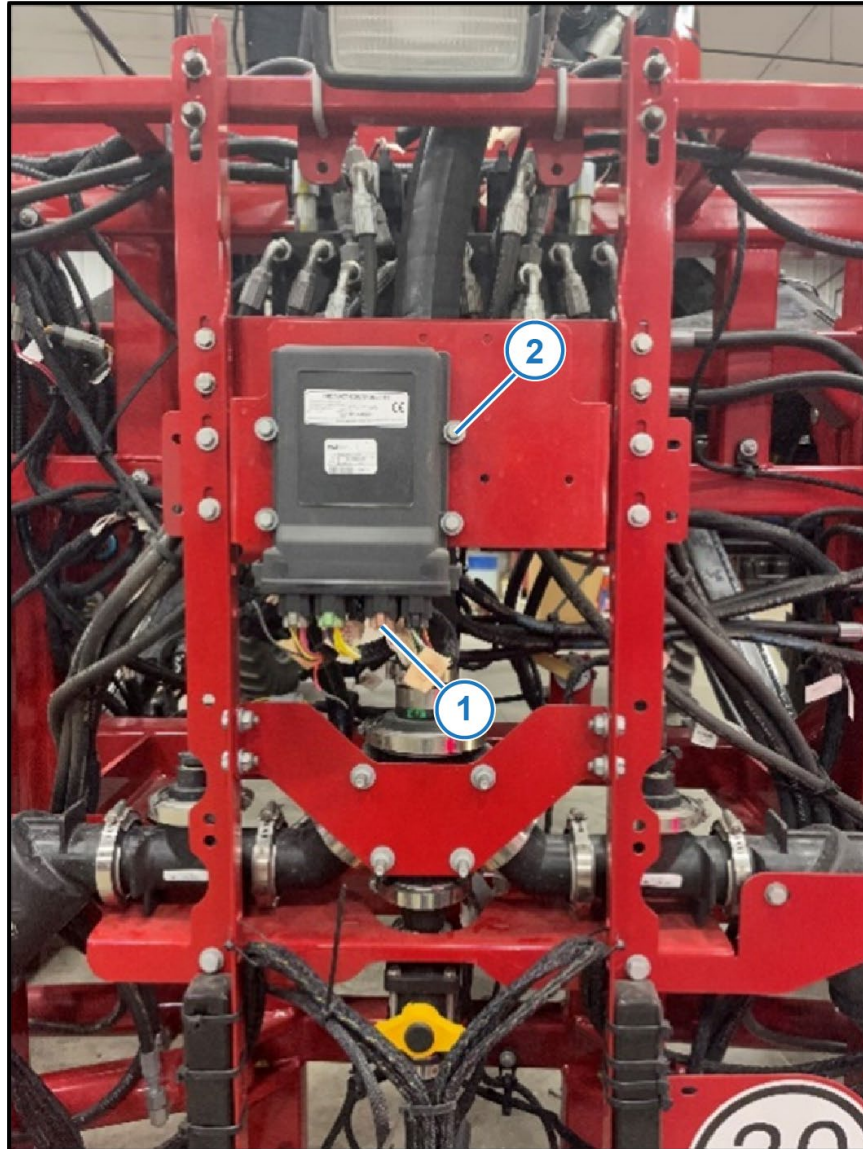


Figure 1 — Product Control Node Removal

2. *Figure 1:* Remove Product Control II Node (PCII) from machine by unplugging gray, green, brown, and black connectors (1) and removing mounting bolts (2)

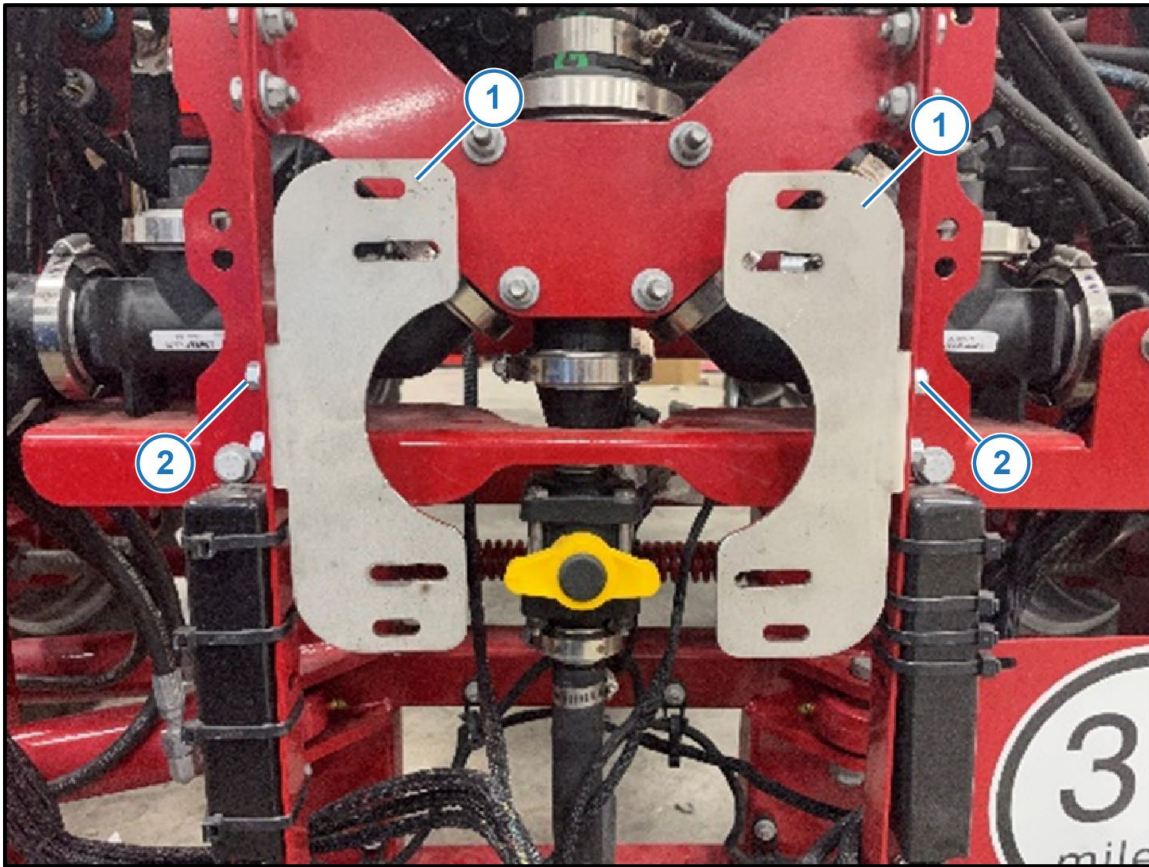


Figure 2 — Mounting Bracket Installation

3. *Figure 2:* Install Case IH mounting brackets (118640-038) (1) using supplied flange bolts (620137-001) and lock nuts (713501-905) (2).

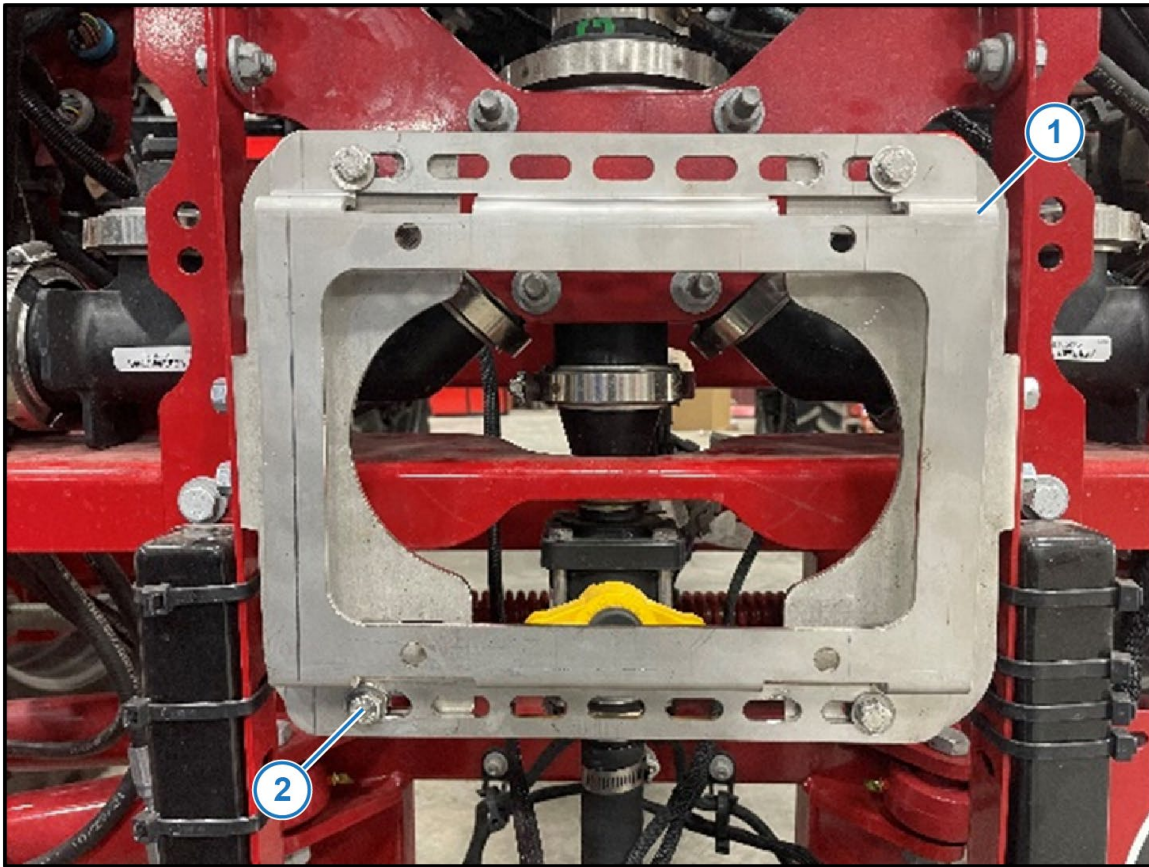


Figure 3 — Universal Bracket Installation

4. *Figure 3:* Install Envelop Hub universal bracket (123000-013) (1) on Case IH mounting brackets using supplied cap screws (713501-517), washers (713600-003), and flange nuts (713501-530) (2).

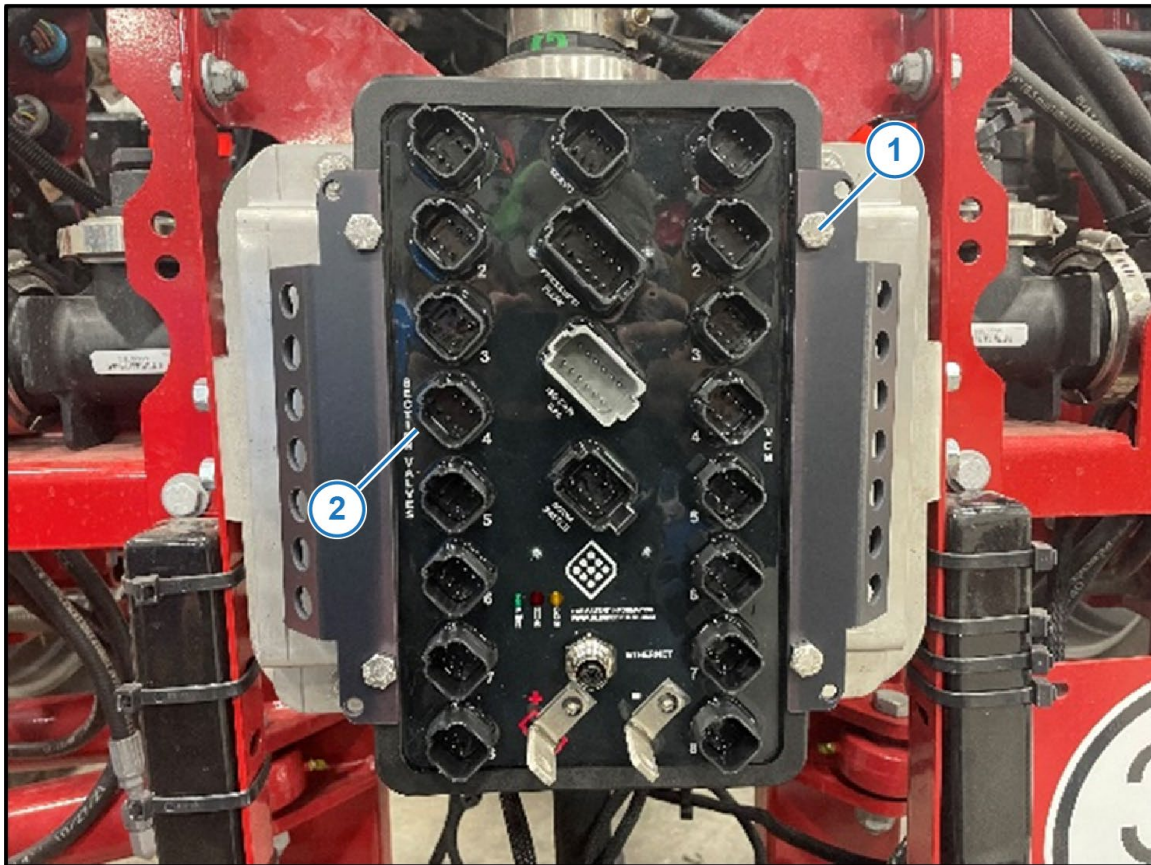


Figure 4 — Envelop Hub Installation

5. *Figure 4:* Insert 5/16" x 2 1/4" bolts included with Envelop Hub through strain relief bracket holes (1), through Envelop Hub (2) mounting holes, and attach to universal bracket installed in previous step with included flange nuts.

PCII Node Replacement Signal/Shut-Off Harness Connections

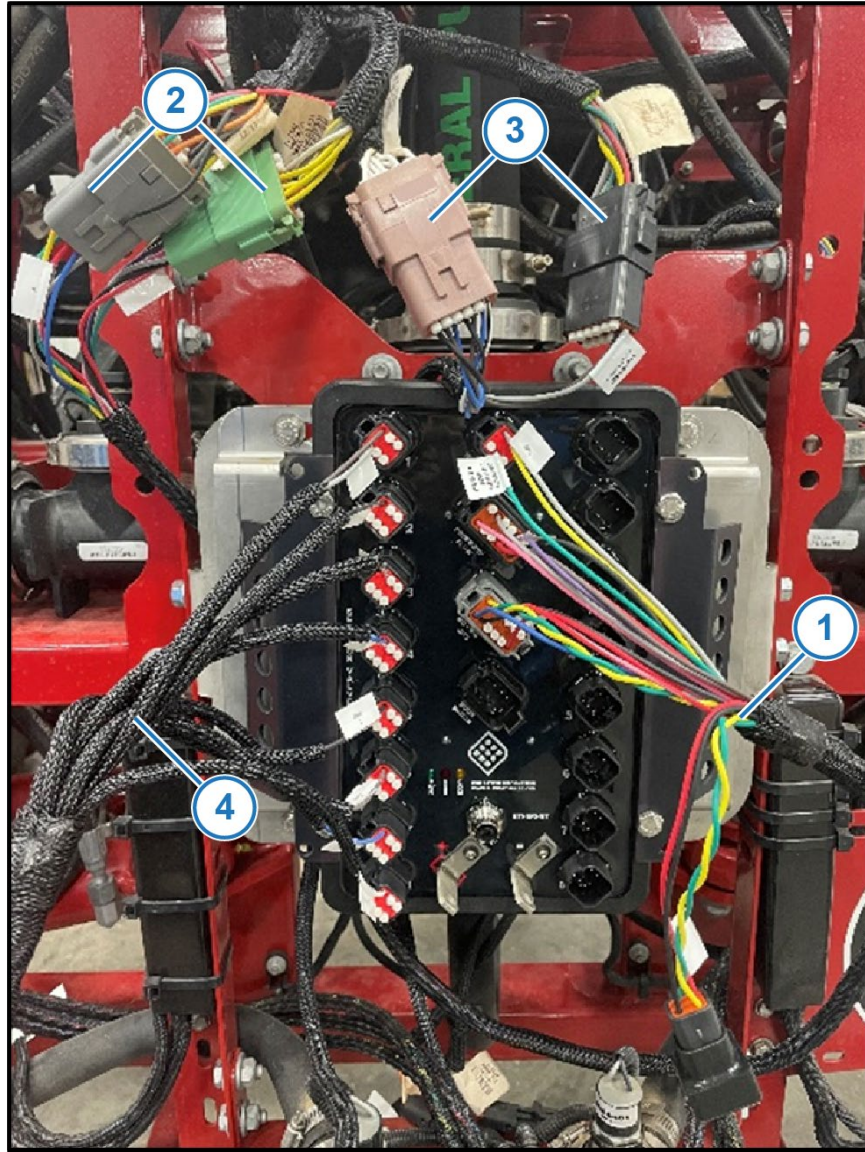


Figure 5 — PCII Replacement Harness Connections

6. *Figure 5:* Plug PCII Node Replacement Signal Harness (118606-819) (1) into Envelop Hub's Servo, Pressure/Flow, and ISOCAN/GPS ports and into corresponding green and gray plugs on machine (2).
7. Plug PCII Node Replacement Shutoff Harness (118606-827) into corresponding brown and black plugs on machine (3) and boom section signals connectors into their matching labeled Section Valve ports (4).

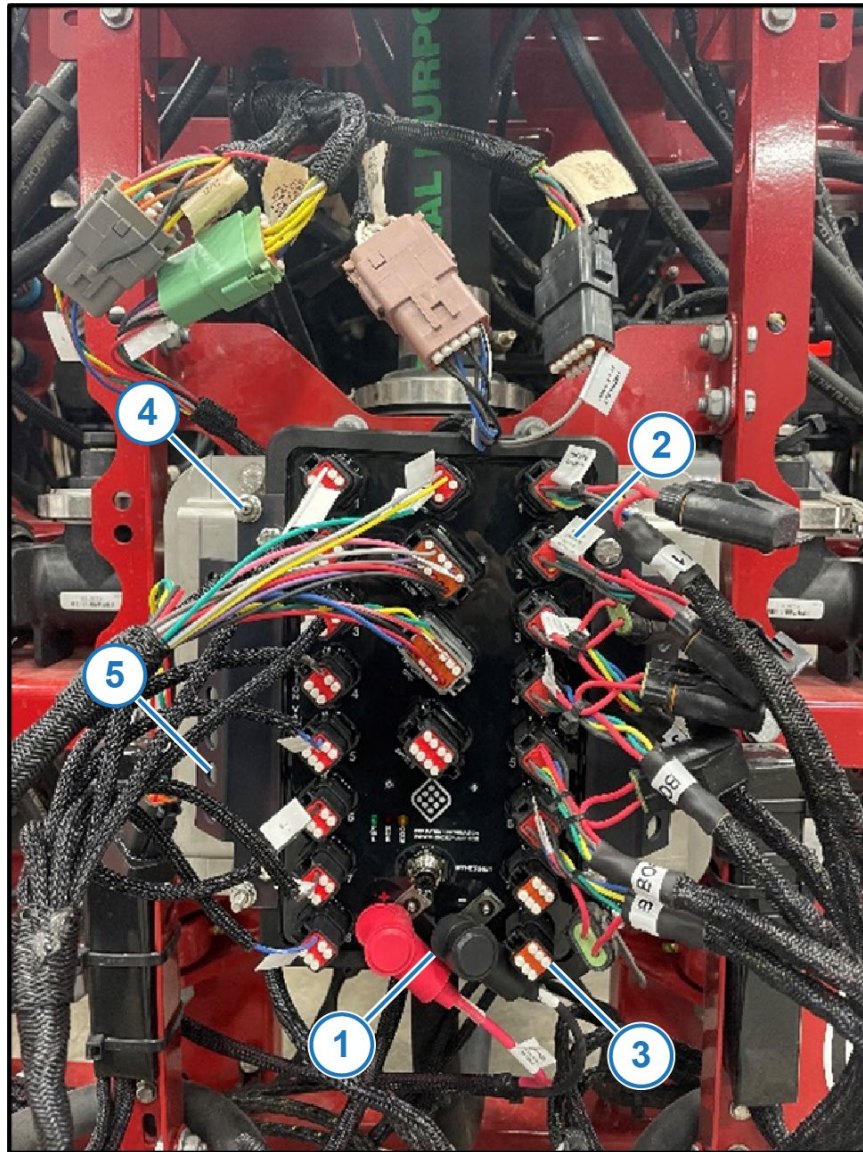


Figure 6 — PCII Replacement and Power Harness Connections

8. *Figure 6:* Attach power harness to Envelop Hub positive and negative terminals (1) using supplied bolts and flange nuts.
9. Plug each VCM extension harness into its corresponding numbered port (2).
10. Insert dust plugs into unused ports (3).
11. Insert ¼" bolts from backside of strain relief brackets and attach with flange nuts (4).
12. Zip tie harnesses to strain relief brackets (5) so that there is a small amount of slack in hub side wiring.

Power Harness Connections



Figure 7 — Power Harness

13. *Figure 7:* Route Envelop Hub power harness towards machine battery box following existing machine harnesses (1). Secure harness with zip ties.

Note: Do not route power harness along side fluid plumbing. Ensure harness is secured in such a way that it will not be prone to wear by rubbing on machine frame or other components.

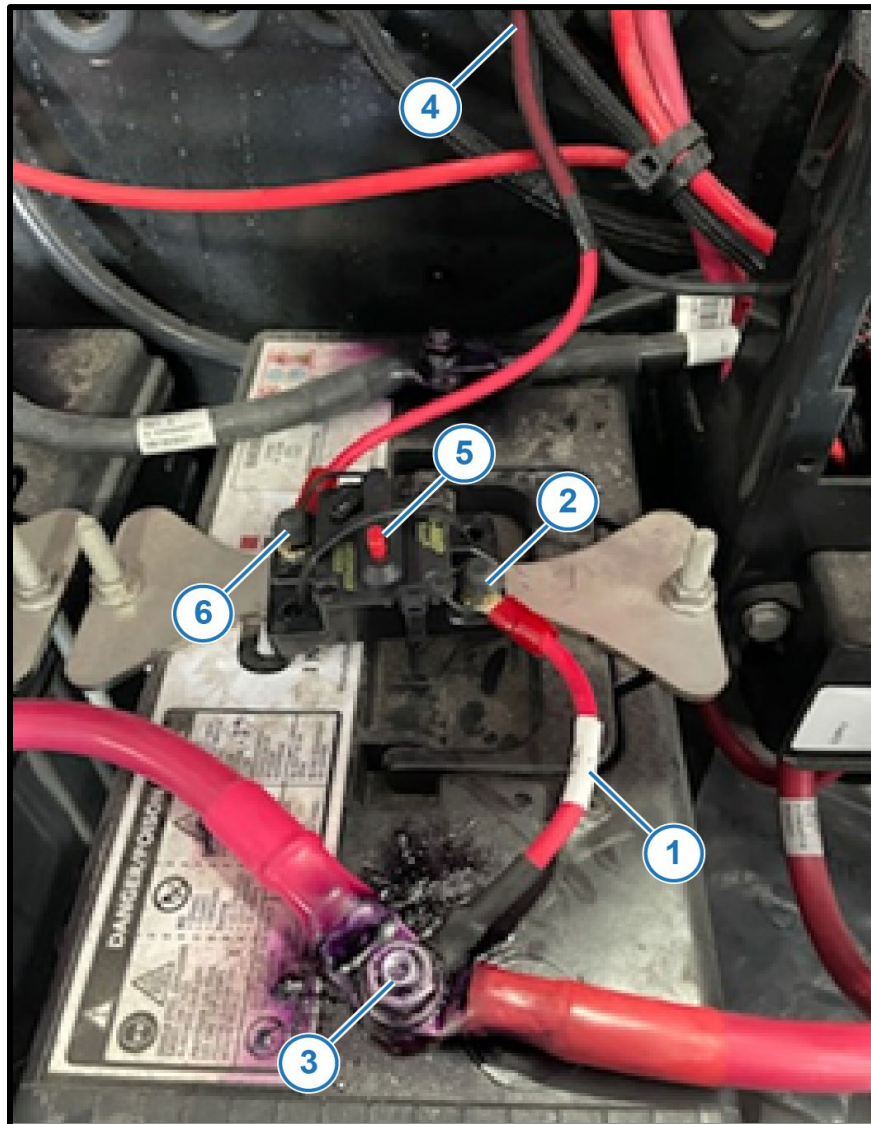


Figure 8 — Battery Box

14. *Figure 8:* Cut a short length (4" to 6") of wire (1) from positive power harness cable and cap one end with ¼" ring terminal (2) included to fit supplied circuit breaker and the other end with a ring terminal correctly sized for positive battery lug (3).
15. Route Envelop Hub positive power harness cable through grommeted hole in battery box (4).
16. Secure circuit breaker appropriately in battery area. Ensure it is open prior to installation by pressing red button on top (5).
17. Cut positive power harness cable to length, strip, and cap it with included ¼" ring terminal.
18. Attach ring terminal to the breaker lug labeled AUX (6).
19. Attach short length of wire trimmed from the positive power harness cable earlier to breaker lug labeled BAT (2). Attach the other end to positive battery lug (3).

©2022 Capstan Ag Systems, Inc. All Rights Reserved. | All trademarks are owned by Capstan Ag Systems, Inc. This product may be covered by one or more U.S. Patents. For more information go to www.BlendedPulse.com



Figure 9 — Negative Power Cable

20. *Figure 9:* Route negative power harness cable to machine ground lug, cut to length, strip, and cap with a ring terminal correctly sized for ground lug.

21. Secure to ground lug with machine hardware (1).

Cover Installation

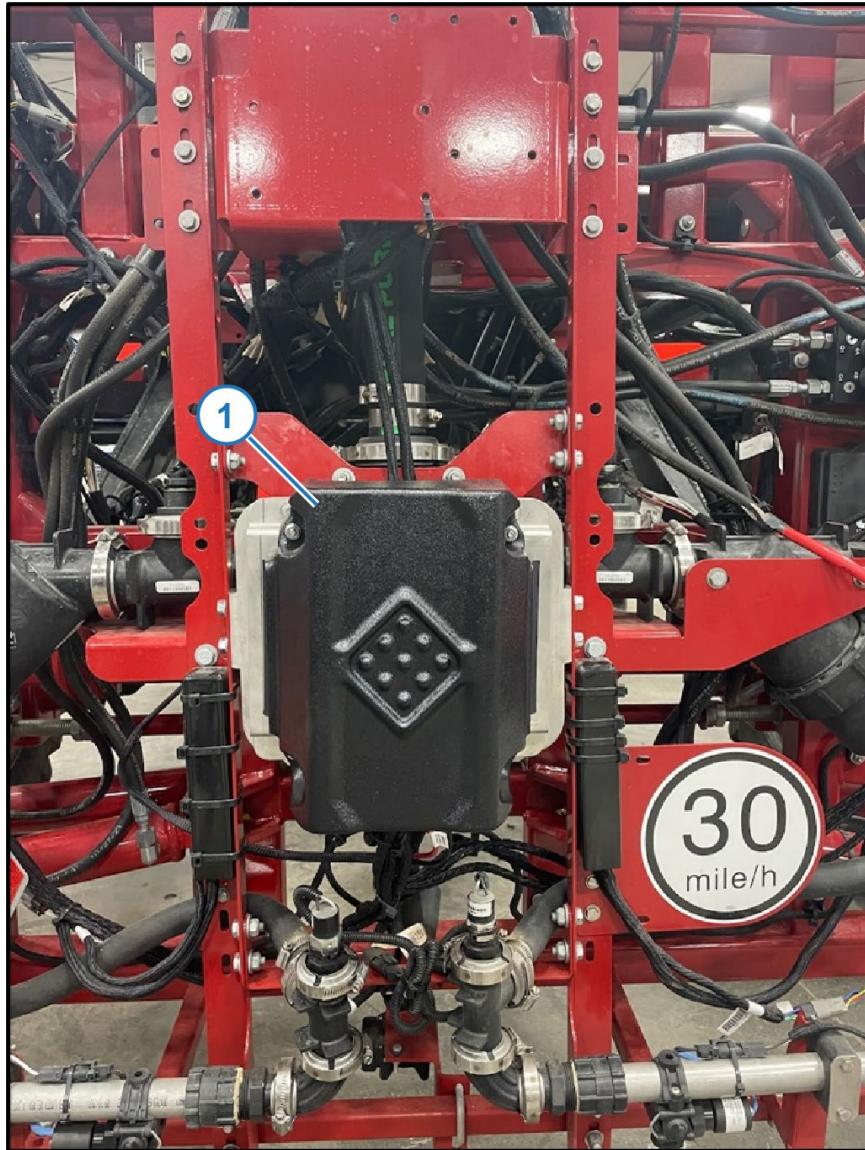


Figure 10 — Envelop Hub Cover

22. Slide Envelop Hub cover onto $\frac{1}{4}$ " bolts previously installed and secure it with supplied flange nuts (1).
23. Reset Envelop power harness breaker at battery box and machine main power breaker.