

# PinPoint™ III ENVELOP Installation Instructions

## AGCO Rogator B-Series MY2012–2017

Table 1: Parts List

| Part Number | Description                   | Qty |
|-------------|-------------------------------|-----|
| 123100-095  | HARNESS, CHASSIS, RGB SERIES  | 1   |
| 123100-094  | HARNESS, VIPER 4 TO 3 PIN ISO | 1   |
| 116301-014  | PRESSURE TRANSDUCER ASSY      | 1   |
| 118640-038  | PPIII, HUB MOUNT              | 2   |
| 118640-040  | KEY FOB PP WITH KEY CHAIN     | 1   |
| 122100-010  | INSTALLATION KIT PINPOINT ZIP | 1   |
| 123000-013  | MOUNTING PLATE PPIII          | 1   |
| 123000-150  | ASSY, POWER HUB PPIII         | 1   |
| 123000-210  | OP MANUAL PPIII ENVELOP       | 1   |
| 620137-001  | BOLT FLANGE 3/ 8"-16 X 1" GR8 | 4   |
| 706530-348  | DUST PLUG 6-PIN DEUTSCH OT    | 11  |
| 706530-357  | DUST CAP 12-PIN RECEPTACLE OT | 1   |
| 706530-513  | DUST CAP, 12 PIN, DTM         | 1   |
| 708000-051  | TAPE TEFLON                   | 1   |
| 713501-406  | BOLT 5/ 16" X 3/ 4" SS        | 4   |
| 713501-447  | NUT, FLANGE, 5/ 16 -18, ZINC  | 4   |
| 713501-905  | NUT 3/ 8"-16 HEX W/K-LOCK     | 4   |
| 713600-003  | WASHER FLAT 3/ 8              | 4   |

## Requirements

- MY2012–2017 AGCO Rogator B-Series sprayer.

## ENVELOP Hub Installation

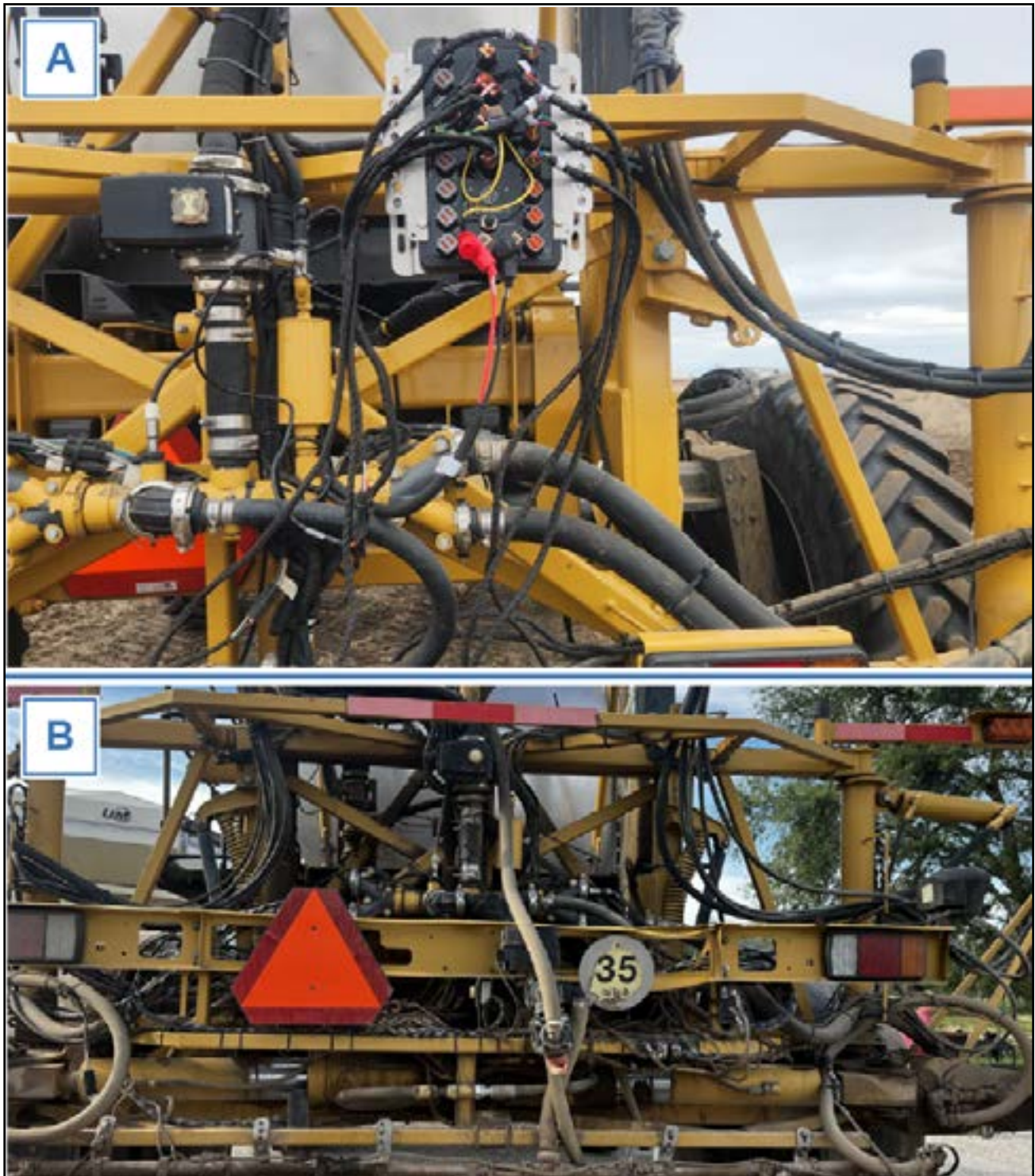
- 1. Open main power breaker before beginning installation.**



### Figure 1: Hub Bracket Installation

2. Assemble the hub mounting plate (Figure 1, Item 1) and strain brackets (Figure 1, Item 2) to the hub (Figure 1, Item 3) using the provided hardware.



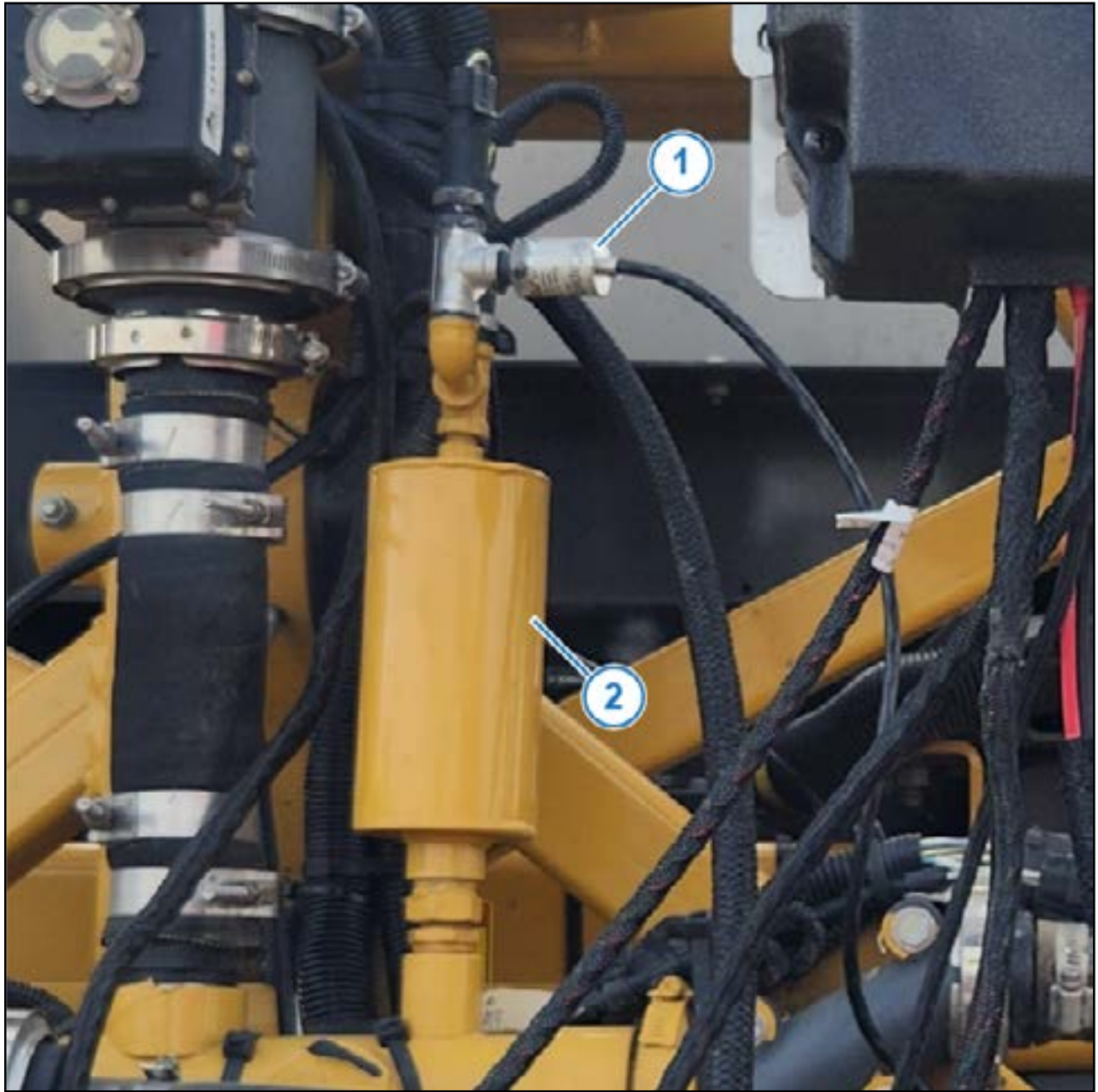


**Figure 2: Envelop Hub**

3. Mount the Envelop Hub to the rear rack using supplied hardware (Detail A).

**Note:** B-Series Rogators were available with two different sizes of rear racks. Some older machines with smaller booms used a smaller rear rack (Detail B). For these machines, use of the supplied angle brackets and bolts may be necessary.

## Pressure Sensor Installation



**Figure 3: Pressure Sensor**

4. Install the supplied pressure sensor (Figure 3, Item 1) and fitting in the accumulator (Figure 3, Item 2).
5. Connect the Chassis Harness pressure sensor lead.
6. Route harness along existing harnesses and hoses going over back rack.



## Bulkhead Connector



**Figure 4: Bulkhead Connector**

7. Disconnect the section bulkhead connector (Figure 4, Item 1), located at the top of the rear rack, below the hydraulic block.

The section bulkhead connector is the upper connector, closest to the product tank, labeled **Boom Shutoff**.

8. Install the bulkhead connector lead from the Chassis Harness (Figure 4, Item 2) in line with existing machine harness.
9. Continue to route chassis harness down the center of the rear rack, following existing machine harnessing.

**Note:** Do not zip tie harness at this time. The power harness will be routed with these harnesses.

## Controller Box Connections

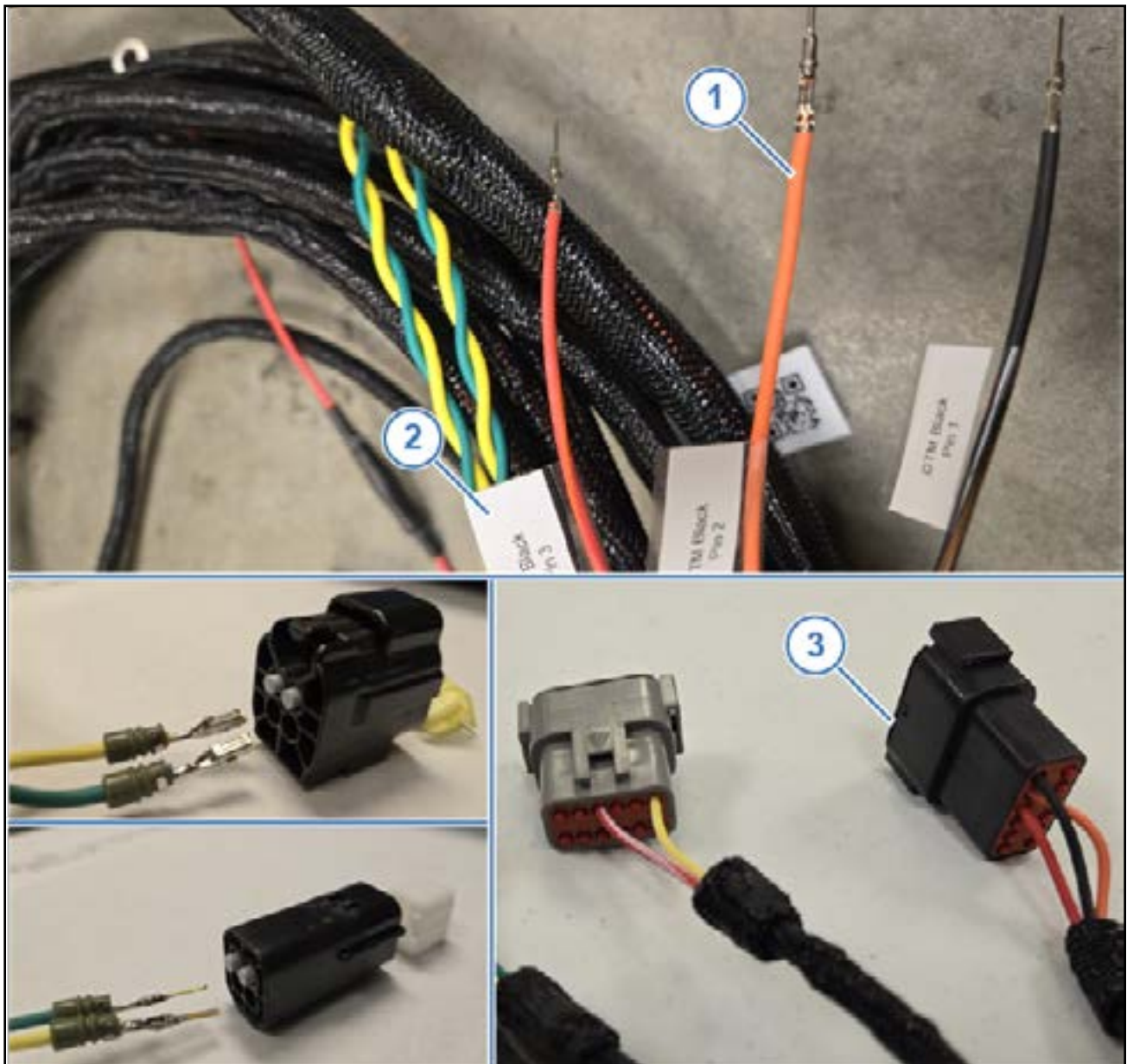


**Figure 5: Controller Box**

10. Route the Chassis Harness (Figure 5, Item 1) along the inside right frame rail to the controller box on the right side of the machine, behind the toolbox and fuel tank (Figure 5, Item 2).
11. Open the box and locate the hole in the bottom. Install the supplied grommet in the hole and route the Chassis Harness leads with unterminated wires through the hole.



## Controller Box Connector Installation



**Figure 6: Chassis Harness Connectors**

12. Install unterminated wires (Figure 6, Item 1) from the Chassis Harness, labeled (Figure 6, Item 2) on each wire, into their corresponding connectors (Figure 6, Item 3).

Refer to [Table 2](#), [Table 3](#), [Table 4](#), and [Table 5](#).

**Note:** Connectors are not installed on harness to allow harness to fit through hole in box.

**Note:** On Black ISO Connectors, Yellow and Green wires are lined up with appropriate pin location. Install as laid out.

**Table 2: Black 12-Pin DTM Connector Pinout**

| Pin | Description | Wire Color   |  | Pin | Description | Wire Color |
|-----|-------------|--------------|--|-----|-------------|------------|
| 1   | Flow Ground | Black/Orange |  | 7   | Unused      | --         |
| 2   | Flow Signal | Orange       |  | 8   | Unused      | --         |
| 3   | Flow Power  | Red/Orange   |  | 9   | Unused      | --         |
| 4   | Unused      | --           |  | 10  | Unused      | --         |
| 5   | Unused      | --           |  | 11  | Unused      | --         |
| 6   | Unused      | --           |  | 12  | Unused      | --         |

**Table 3: Gray 12-Pin DTM Connector Pinout**

| Pin | Description | Wire Color |  | Pin | Description        | Wire Color   |
|-----|-------------|------------|--|-----|--------------------|--------------|
| 1   | Unused      | --         |  | 7   | Servo Out +        | Yellow/White |
| 2   | Unused      | --         |  | 8   | Unused             | --           |
| 3   | Unused      | --         |  | 9   | Unused             | --           |
| 4   | Unused      | --         |  | 10  | Key-Switched Power | Red/White    |
| 5   | Unused      | --         |  | 11  | Unused             | --           |
| 6   | Unused      | --         |  | 12  | Unused             | --           |

**Table 4: Black 4-Pin Male Connector Pinout**

| Pin | Description | Wire Color |  | Pin | Description | Wire Color |
|-----|-------------|------------|--|-----|-------------|------------|
| 1   | Unused      | --         |  | 3   | CAN High    | Yellow     |
| 2   | CAN Low     | Green      |  | 4   | Unused      | --         |

**Table 5: Black 4-Pin Female Connector Pinout**

| Pin | Description | Wire Color |  | Pin | Description | Wire Color |
|-----|-------------|------------|--|-----|-------------|------------|
| 1   | Unused      | --         |  | 3   | CAN High    | Yellow     |
| 2   | CAN Low     | Green      |  | 4   | Unused      | --         |



## ISO Bus Bar Chassis Harness Connections



**Figure 7: ISO Bus Bar**

13. Locate the ISO buss bar at the back of the Controller box. Locate the connector labeled Norac C1 (Figure 7, Item 1).
14. Remove the Norac C1 connector from the bus bar and install the Chassis Harness ISO lead into the bus bar.
15. Install the machine Norac C1 connector into other ISO connector on the Chassis Harness so that the ISO lead from the Chassis Harness sits inline with the machine Norac C1 connection.

## Product Node Removal



**Figure 8: Product Node**

16. Locate the product node (Figure 8, Item 1) and disconnect it from the machine harness.

17. Connect the two product node connectors (Figure 8, Item 2) into the Chassis Harness.

**IMPORTANT:** If machine was equipped with Hawkeye PWM Control, it is required to disconnect the ISO Boom Speed Node connections located above the Raven Product Control Node.



## Accuboom Tee Connections



**Figure 9: Accuboom Tee Finished Connections**

18. Disconnect one half of the harness labeled Accuboom Tee (Figure 9, Item 1) from the other half of the Accuboom Tee (Figure 9, Item 2).
19. Connect the two connectors as shown in Figure 9, Item 2. If the machine is equipped with ISO/CAN, Proceed to Step 24.
20. If the machine is equipped with serial GPS, locate the 2-pin connector on the Chassis Harness (Detail A), next to the connectors inserted into the Controller box (Figure 10, Item 1).
21. Remove the dust cap and install the Serial GPS Harness (P/N 123100-112).
22. Route the Serial GPS Harness along the frame rail and into the back right corner of the cab (Detail B).



## Serial GPS Cable Installation



**Figure 10: Serial GPS Cable**

23. Remove the cover (Detail C). Locate the GPS Out serial connector (Detail D) and connect it to the Serial GPS Harness (Figure 10, Item 2).

If no other ISO components are present, a Cab ISO Harness may be necessary.

24. Locate the upper access panel on the right side of the cab (Figure 11, Item 1). Remove the cover.
25. Remove the access panel screw shown (Figure 11, Item 2).
26. Route the Raven ISO connector from inside the access panel toward the front of the machine and out of the gap (Figure 11, Item 3). This may require prying the panel outwards to fit the connector through. Other

## Cab ISO Harness Installation



**Figure 11: Cab ISO Harness**

Panels may need to be removed for routing.

27. Remove the existing terminator from the ISO connector (Figure 11, Item 4) and plug the Cab ISO Tee harness into both sides to complete the wye.
28. Route the Cab ISO harness up the corner post to the back of the Raven Viper 4. Connect it to Port 5 of the Viper 4 (Figure 11, Item 5). Connect the power harness to the power lugs on the hub.
29. Route the Power Harness, following the previously routed Chassis Harness to the back of the cab.
30. Continue routing the Power Harness across the lower frame rail crossmember to the batteries.
31. Connect the red power (+) and black ground (-) cables to the batteries, installing the provided 80 amp circuit breaker inline with the red power (+) cable.



## Power Harness Installation



**Figure 12: Power Harness and Circuit Breaker**

**Note:** Take care not to mount circuit breaker in a position where it may accidentally be tripped.

32. Secure all harnessing as necessary with cable ties.
33. After installation is complete, set up the system in accordance with integration instructions (PN 123000-244) AGCO B-Series PPIII Integration.
34. Prior to performing wet/dry system tests, machine must be taken out of road mode and the main boom valve must be opened.
35. To take the machine out of road mode, on the armrest control panel, toggle the road mode switch (Figure 13, Item 1).



## Perform Dry/Wet Tests



Figure 13: Cab Switches

36. To open the main boom valve, toggle the Main Boom Valve switch (Figure 13, Item 2)