

## Technical Bulletin – PinPoint III Envelop Flowmeter Circuit

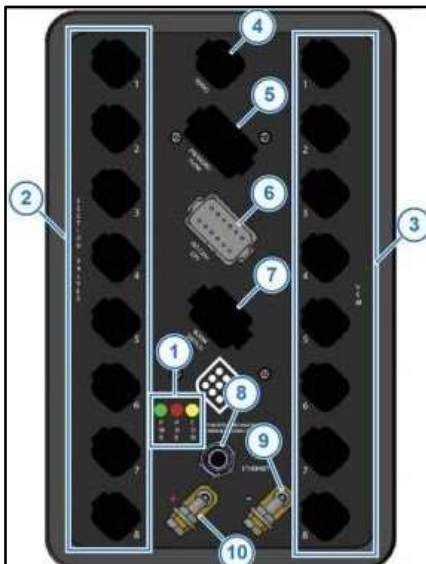
PinPoint III Envelop hubs (PN:123000-150) with a serial number of 190 or below are vulnerable to a failure in the Flowmeter circuit. If this failure occurs, *Fault 110: Flowmeter Short Circuit Error* will display on the PinPoint III UT screen and the system will be affected as follows:

- In Correction mode: The fault code will display along with a flowmeter error alarm. Proper rate and pressure control will still be maintained. The system will calculate flow based on the nozzle size, valve size, pressure and number of nozzles spraying.
- In Calculation mode: The fault code may display, but the flowmeter alarm will not display. Proper rate and pressure control will still be maintained. The system will ignore the flowmeter signal and calculate the flow for proper operation.
- In Transparent mode: The fault code will display along with a flowmeter error alarm. Proper rate and pressure control will not be maintained.

To resolve this issue, order kit 123100-039 and use the following procedure.

### Repair Procedure:

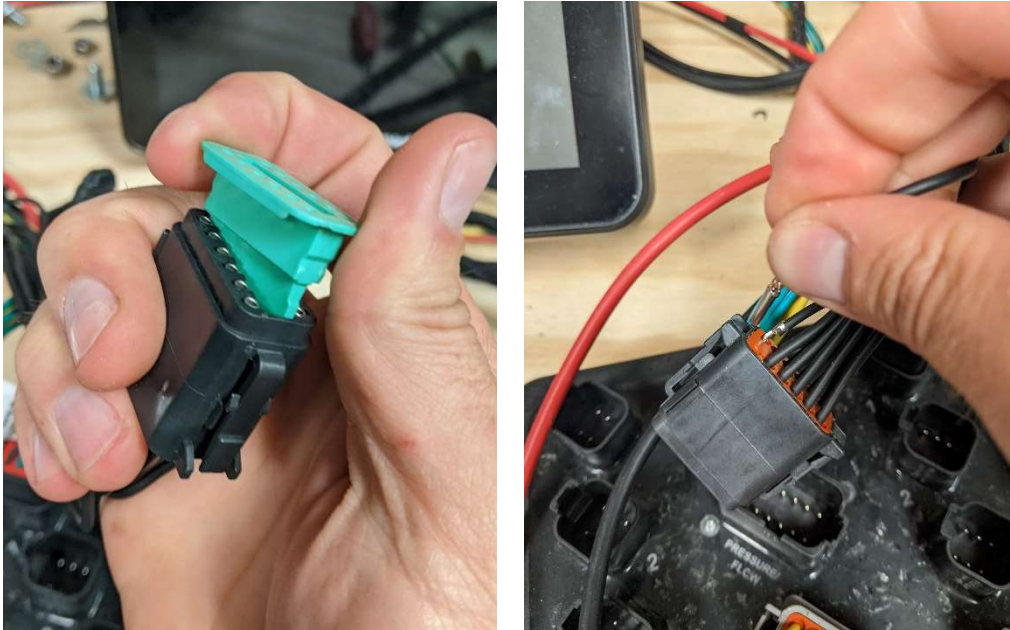
1. *Figure 1*: Locate the PRESSURE/FLOW (5) and ISO-CAN/GPS (6) plugs on the PinPoint III hub.



Item	Name	Description
(1)	LEDs	Green—PWR: Power—On when there is key-switch power to the hub
		Red—HUB: Blinks when the main hub processor is running
		Yellow—COM: Blinks when the hub is communicating over CAN or Ethernet
(2)	SECTION VALVES	The Section Valve ports
(3)	VCM	The VCM ports
(4)	SERVO	The Servo port
(5)	PRESSURE/FLOW	The Pressure/Flow port
(6)	ISO CAN/GPS	The ISO CAN/GPS port
(7)	BOOM SWITCH	The Boom Switch port
(8)	ETHERNET	The Ethernet port is used to connect the hub to the CapMod
(9)	Ground Lug	Connect the ground wire to this lug
(10)	Power Lug	Connect the power wire to this lug

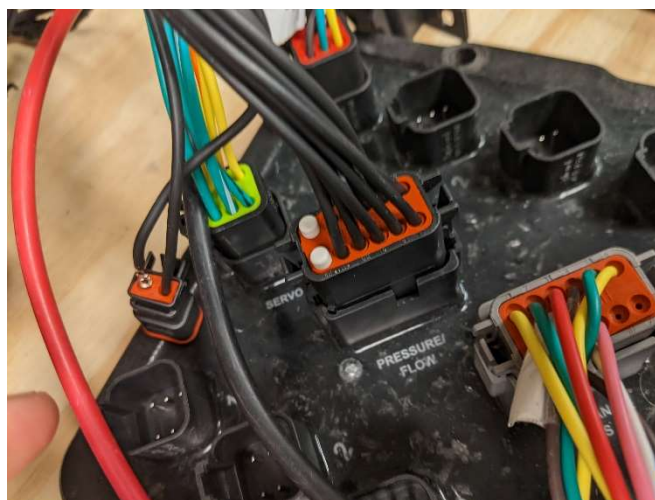
**Figure 1 — PinPoint III Hub Pinout**

2. Remove the Pressure/Flow connector from the hub.
3. Locate the wires at ports 1 and 12 of the 12-pin Pressure/Flow connector.
4. *Figure 2:* Remove the wedgelock from the connector. Remove the wire and socket assemblies from ports 1 and 12 and replace them with white socket plugs, one from the kit, the other from port 7 of the ISO-CAN/GPS plug.



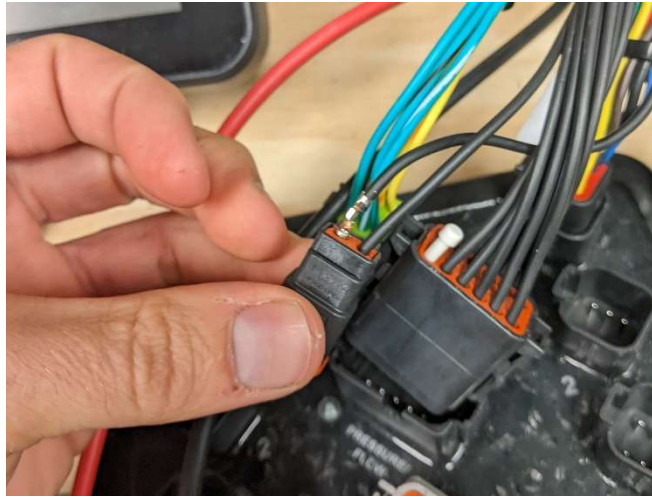
**Figure 2 — Pressure/Flow Connector Disassembly**

5. *Figure 3:* Replace the wedgelock and reinstall the Pressure/Flow connector into the PinPoint III hub.



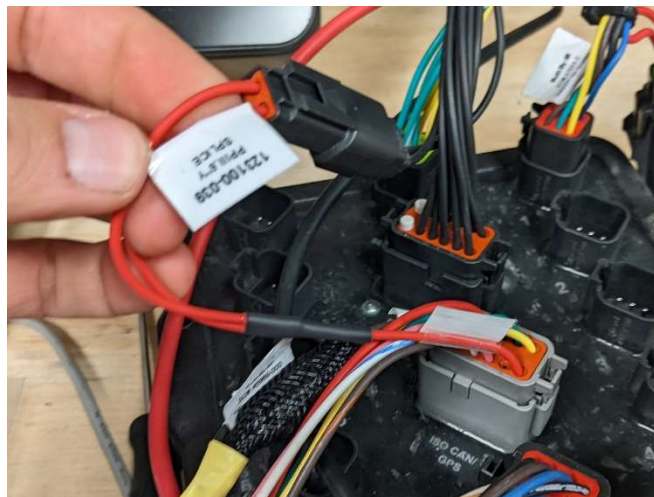
**Figure 3 — Pressure/Flow Connector Installation**

6. *Figure 4:* Insert the wire/socket assemblies removed from ports 1 and 12 of the Pressure/Flow Connector into ports 1 and 2 of the 2-port male Deutsch plug from the kit.



**Figure 4 — Deutsch Connector Assembly**

7. Insert the 2-port male Deutsch plug into female Deutsch plug Y-harness from the kit.
8. Remove the ISO CAN GPS plug from PinPoint III hub and remove the wedgelock.
9. *Figure 5:* Insert the plug/wire assembly from the female 2-pin Deutsch plug Y-harness into port 7 of the ISO-CAN/GPS plug.



**Figure 5 — Y-Harness Installation**

10. Replace the wedgelock and reinstall the ISO-CAN/GPS plug into the PinPoint III Hub.
11. Test the system for proper functionality.