



Service Bulletin #13

Phantom Alarm

Field Failure: Alarm turns on intermittently though the PTO is not engaged.

Cause: The Power Touch system is detecting a “phantom” or false ground caused by contact contamination internal to the PTO pressure switch.

Note: Similarly poorly sealed inline splices and or cut, cracked or nicked insulation anywhere along the signal wire can cause similar symptoms.

Diagnosis: Disconnecting the signal feedback wire turns off alarm. Try disconnecting the wire at the PDC first, and then at the pressure switch (the PTO switch) to isolate the source of the fault. The switch may seem OK when checked with a test light but when checked with a high ohm DVM it will show an erratic resistance. This intermittent alarm condition is an early warning indicator of imminent switch failure.

Field Service: Deactivate the PTO “Engaged” (feedback) alarm and replace it with a PTO “Power” Alarm. Inside the PDC, on the main control board move the violet wire from the PTO- (J27) stab to the PTO+ (J25) stab. On the J-Board move the violet wire from the PTO- (J39) stab to the PTO+ (J38) stab and run a wire (PowerUp Products PN 1500412) from the PTO power post (Output #3) to the PTO+ (J22) input stab.

Recommended Corrective Action: Replace the PTO Ground Switch ASAP.

If the circumstances of installation necessitate the use of an inline Butt Splice on any signal or electrical wire, or on any chassis wire where the terminal connector will be exposed to the elements, then permanent weatherproofing is required. Do NOT use electrical tape for permanent installations. The use of Butt connectors with an integral adhesive sealant (PowerUp Products PN 1701102) or Heat Shrink Tubing with an integral sealant (PN 3601001 which is 1/4”d by 1” long, or PN 3601006 which is 5/16” d by 3” long) is strongly recommended.

Power Up Products

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