

CONTROLLER TROUBLESHOOTING GUIDE

Hubbell Industrial Controls recommends these steps for identifying potential operational problems for users of Yardmaster and Yardmaster Pup lifting magnet controllers.

SYMPTOM	POSSIBLE CAUSE	DIAGNOSIS / ACTION
"Lift" contactor does not pick up.	Polarity not observed at the time of controller installation.	Reverse the supply power connections to the controller.
	Lift contactor coil circuit open.	Check continuity of Lift contactor coils. Check master switch contacts.
	CFU or Diode D1 open.	Replace CFU or D1.
Magnet does not clean properly.	Reverse current cycle time is too short. Drop contactor does not remain closed long enough to clean magnet.	Increase the Drop Time potentiometer setting (clockwise rotation).
	Reverse current cycle time is too long. Drop contactor remains closed too long and allows excessive current to build-up.	Decrease the Drop Time potentiometer setting (clockwise rotation).
	Drop contactor operates but no reverse current flows.	Replace RFU fuses.
	4292P DVA varistor circuit is open.	Check DVA. If the fins are warped or ohm value is under 50k ohms, varistor may be defective. Replace DVA varistor.
"Drop" contactor does not operate.	Drop contactor coil circuit open.	Check continuity of Drop contactor coils. Check master switch contacts.
	Reversed M2-M1 connections to DSM.	Check DSM wiring and correct if necessary.
	Fault drop relay.	Replace drop relay.
	Faulty DSM.	Replace DSM.
"Drop" contactor operates but does not drop.	Faulty drop time adjustment potentiometer or open potentiometer circuit.	Repair or replace potentiometer assembly or wiring.
	Faulty DSM.	Replace DSM.
No adjustment of the reverse current cycle.	Faulty drop time adjustment potentiometer.	Replace potentiometer assembly.
	Faulty DSM.	Replace DSM.
Magnet discharge device overheats.	Too many magnet discharges per minute.	Avoid frequent cycling or use controller with greater capacity.
	Blocking rectifier is shorted. Full line voltage applied to magnet discharge device during lift cycle.	Replace blocking rectifier assembly.

Contact Winkle Industries for complete factory-authorized sales, service and support for industry-preferred Hubbell products: magnet controllers and associated replacement components.