

Control box in rest mode.

1. Check wiring from control box to the control valve.
(Pay close attention to harness wire tied to hose with wire wrap on it).
2. If there is no short in wiring. Then reset the control box.
 - a) Turn the key off.
 - b) Press and hold both unlock and lock buttons.
 - c) While holding the buttons turn the key back on and count to five. The control box will reset.
 - d) Release buttons and turn the key off.
 - e) Start machine and try to release coupler again.

Coupler will not release bucket. Control box is working normal.

1. Check for broken wiring from control box to control valve.
2. Check voltage with a volt meter at coils.
 - a) Unhook wiring at the control valve.
 - b) Start machine.
 - c) With help, push and hold unlock button till voltage reading is made. (voltage should be 25 volts or higher)
 - d) If voltage is below 25 volts check for bad ground wire
3. If voltage is within spec. then check coil resistance.
With coil wiring unhooked check the resistance one coil at a time. (coils should be between 21-ohms and 30-ohms) If coil is 0-ohms the coil is open and bad. (replace coil) If coil is above 30-ohms coil is shorted out. (replace coil)
4. If voltage and coils are ok. Check hydraulic pressure at manifold block on boom. (pressure side)
 - a) With pressure gauge rated to 6000psi connect into pressure side of manifold block.
 - b) With help, start the machine and curl bucket (as you would to unlock coupler) push and hold unlock button. Check pressure (should be full operating pressure).
If the no pressure or low pressure then check and clean spool valves in main hyd. valve.
 - c) If the pressure is good check pressure on the return side. Use same procedure as listed above. The pressure should be less than pressure side.
If pressure is the same as pressure side replace the cylinder it is bypassing.
 - d) If all of the above is good. Check the safety bar

make sure it is moving far enough to clear locking jaw.

If it isn't moving far enough make appropriate repairs to locking bar.

- e) If all of the above is good call JRB Paladin for assistance 800-428-2538

ABS Jaw is staying unlocked.

The ABS spring has jumped above the finger that operates it.

- 1) The spring should be in between the two fingers.
- 2) Remove the ABS spring and install in position between fingers (do not reuse bolts install new bolts). Use reusable lock tight and torque to 30 ft lbs.

ABS jaw is not opening all the way

With the coupler in the unlocked position. Check to make sure the ABS spring is making full contact with the magnet.

- 1) If the ABS spring is not making contact with the magnet adjust the magnet down until the ABS spring makes full contact
- 2) If the ABS spring is making full contact check for debris on the ABS spring or magnet. Clean both surfaces

The coupler unlocks when lock button is pressed or it locks when unlock button is pressed.

Hyd. hoses are hooked up backward from control valve.

Be advised any time the hyd. circuit is opened you must cycle the coupler 25 to 30 times. With no attachment of any kind on coupler to get all of the air out of the system.