

CRYSTEEL MFG. INC.
LOBOY HOIST TROUBLE SHOOTING GUIDE (ELECTRIC HYD)

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This document is to be used as a guide for trouble shooting LoBoy Hoists with Electric Hydraulics.

Hoist Will Not Go Up: (Electric Hydraulics)

- Check that all connections are secure and are not corroded. Make sure that the battery is producing the correct amperage and voltage. Make sure battery cables are at least size 1-0. For more details and other information see the Monarch Trouble Shooting Guide.
- Confirm that the hoist is plumbed correctly. On a Monarch electric pump, the C1 port is the power up and should be connected to the port at the base end of the cylinder, which is opposite the end of the cylinder shaft. If double acting, the C2 port is the power down and should be connected to the port at the shaft end of the cylinder.
- Confirm that the rear hinge and hoist frame has been greased.
- If the body is loaded, how much weight is in it.
- If it is a Loboy hoist, what dump angle is the body set at.
- Check the pressure on the power up side of the valve. On electric pumps, the C1 port is the power up side. Connect the hose that runs to the power up port of the cylinder directly into a pressure gauge (called deadheading). **Do not tap into the line with a pressure gauge.** This would measure only the amount of pressure needed to raise the hoist with the amount of weight on it at that time. If the pressure is okay, the cylinder's internal bypass valve may be stuck open. The LoBoy 4" cylinders do not have internal bypass valves.
- Check cylinder internal by-pass valve. To determine if the internal by-pass valve is open, remove the hose from the valve that comes from the shaft end of the cylinder. Put the end of the hose into a bucket to catch any oil that might come out. Now try raising the hoist. If oil comes out of the loose hose and the hoist does not go up, the bypass valve is stuck open. If the cylinder is in warranty, change out the cylinder.

Hoist Will Not Come Down: (Electric Hydraulics)

- Check that all connections are secure and are not corroded. Make sure that the battery is producing the correct voltage. Make sure battery cables are at least size 1-0. For more details and other information see the Monarch Trouble Shooting Guide.
- Confirm that the rear hinge and hoist frame has been greased.
- If the pump is single acting how much of the body is behind the rear hinge and is there anything in the body.
- Prepare to try and lower the cylinder manually. Secure the body in the up position by using the body prop, blocking, or chain hoist. Once the body has been secured in the up position, remove the hose from the power up port of the valve and put it into a bucket. Now you can remove the body prop and attempt to lower the hoist. If the hoist comes down, the oil will run into the bucket and the problem is probably in the valve. If the hoist still will not come down, the problem is in the hoist frame, rear hinge, or possibly a bent cylinder shaft. You will now have to check further for galled pivot pins or a bent cylinder shaft. If the problem has been isolated to the power unit see the Monarch Trouble Shooting Guide.