

## Hydraulic Drive System



Before performing any troubleshooting procedures:

1. Relieve pressure, page 27.

2. Turn main power OFF



3. Allow equipment to cool.

### Problems

Try the recommended solutions in the order given for each problem, to avoid unnecessary repairs. Also, determine that all circuit breakers, switches, and controls are properly set and wiring is correct before assuming there is a problem.

PROBLEM	CAUSE	SOLUTION
Electric motor will not start or stops during operation.	Loose connections.	Check connections at motor control board.
	Circuit breaker tripped.	Reset breaker (813); see <b>Circuit Breaker Module</b> , page 30. Check 230 Vac at output of breaker.
	Damaged motor control board.	Replace board. See <b>Motor Control Board</b> , page 32.

# Hydraulic Reactors - Troubleshooting - Hydraulic Drive

Troubleshooting

PROBLEM	CAUSE	SOLUTION
<p>Hydraulic pump does not develop pressure. Low or zero pressure with screeching noise.</p>	<p>Pump is not primed or lost its prime.</p>	<p>Check electric motor rotation. Both motor and hydraulic pump must rotate counterclockwise when viewed from shaft end. If rotation is incorrect, reverse leads L1 and L2. See <b>Connect Electrical Cord</b> in Operation manual 312062.</p>
		<p>Check dipstick to ensure that hydraulic reservoir is properly filled (see Operation manual).</p>
		<p>Check that inlet fitting is fully tight, to ensure no air is leaking into the pump inlet.</p>
		<p>To prime pump, run unit at lowest pressure setting and slowly increase pressure. In some cases it may be necessary to remove motor cover and drive belt to allow for manual (counterclockwise) rotation of hydraulic pump. Turn fan pulley by hand. Verify oil flow by removing oil filter to see flow into filter manifold. Reinstall oil filter. Do NOT operate unit without a properly installed oil filter.</p>
		<p>If noise continues longer than 30 seconds, press motor  key to shut off the motor. Check that the inlet fittings are tight and that the pump has not lost its prime.</p>
<p>Hydraulic fluid is too hot.</p>	<p>Ensure that the reservoir is properly serviced. Improve ventilation to allow more efficient heat dissipation.</p>	
<p>Electric motor operating in wrong direction for 3 Phase system.</p>	<p>Motor must operate counter-clockwise from pulley end.</p>	
<p>Drive belt loose or broken.</p>	<p>Check drive belt condition. Replace if broken.</p>	