

Trouble Shooting Guide for 2 & 4 Post Lifts with Motor & Hydraulic Power Unit Problems

Failures		Possible Causes	Solutions
Motor runs but the cylinder doesn't rise	1	Wrong wire connection leads to motor rotating in wrong direction	Correct the wire connections – this happens on the 3ph motors
	2	Insufficient hydraulic fluid in tank	Add hydraulic fluid in tank
	3	Suction tube is damaged	Replace the suction tube
	4	Coupling is damaged	Replace the coupling
	5	Suction Filter clogged	Clean or replace suction filter
	6	Release valve is blocked by contamination	Inspect valve and clean or replace it
	7	The seal in buffer valve failed	Inspect valve and clean or replace it
	8	Relief valve is contaminated	Inspect valve and clean or replace the relief valve
	9	Relief valve's setting pressure is low	Reset the valve
	10	The emergency device of the electric release valve is not closed	Close the emergency lowering device
	11	Gear pump is damaged	Change the pump
	12	Cylinder is damaged	Repair or replace cylinder
	13	The emergency release valve is not fully closed	Inspect valve and clean or replace it
Motor runs but the cylinder rises slowly	1	Insufficient hydraulic fluid in the reservoir	Add hydraulic fluid into the tank
	2	Suction tube is damaged	Replace the suction tube
	3	Suction filter clogged	Clean or replace the suction filter
	4	Release valve is blocked by contamination	Inspect valve and clean or replace it
	5	The seal in buffer valve failed	Inspect valve and clean or replace it
	6	Relief valve is contaminated	Inspect valve and clean or replace the relief valve
	7	Relief valves setting pressure is low	Reset the valve
	8	Hydraulic fluid is deteriorated or contaminated	Change hydraulic fluid as well as cleaning suction filter and reservoir
	9	Gear pump is damaged	Change the pump
	10	Cylinder is damaged	Repair or replace cylinder
	11	The emergency release valve is not fully closed	Inspect valve and clean or replace it
	12	Hydraulic fluid temperature is too hot	Stop running and cool down



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Failures		Possible Causes	Solutions
Platform comes down automatically	1	The poppet of check valve is stuck open by contamination	Clean the poppet of check valve or replace it with new one
	2	The poppet of release valve is stuck open by contamination	Clean the valve or change it
	3	Poor outlet tube connection leads to leakage	Tighten the pipe joint or change the seal
	4	Hydraulic fluid is deteriorated or contaminated	Change the hydraulic fluid as well as cleaning suction filter and tank
Platform comes down slowly	1	Throttle valve is not adjusted rightly	Re-adjust the throttle valve
	2	The poppet of release valve is clogged with contamination	Clean the valve or change it
	3	Release valve is blocked by contamination	Inspect valve and clean or replace it
Platform doesn't come down	1	Release valve is blocked by contamination	Inspect valve and clean or replace it
	2	The coils are damaged or voltage is too low	Change the coil and check the power supply
Abnormal Noise	1	The motor is damaged	Change the motor
	2	Insufficient hydraulic fluid in the tank	Add hydraulic fluid into the tank
	3	Motor is overloaded	Reduce load or increase the relief valve setting pressure (if manufacturer allows)
	4	Suction Filter clogged	Clean or replace the the suction filter
	5	Gear pump is damaged	Change the pump
	6	Hydraulic fluid is deteriorated or contaminated	Change hydraulic fluid as well as cleaning suction filter and reservoir
	7	Relief valve is damaged	Change the relief valve
Abnormal start up	1	Power supply voltage is insufficient	Increase to required voltage
	2	The cable run is too long – voltage drop	Shorten the cable and check voltage
	3	The thin diameter of the wire leads to voltage loss	Use strong wire and configure regulator
	4	Start capacitor is damaged	Change the start capacitor



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