

The information contained in the Troubleshooting Chart has been compiled from information gathered. It contains symptoms and usual causes for the most common types of problem. All available data concerning the trouble should be systematically analyzed before undertaking any repairs or component replacement.

A visual inspection is worth performing for almost all problems, which may avoid unnecessary additional damage to the machine. The procedures that can be performed in the least amount of time and with the least amount of removal or disassembly of parts should be performed first.

**WARNING:** Before working on any machine, ensure it is shut down, keys are removed, air pressure is relieved, battery is disconnected and unit has cooled down.

<u>SYMPTOM</u>	<u>PROBABLE CAUSE</u>	<u>POSSIBLE REMEDY</u>
1. Failure to Start	1.1 No fuel-----	Fill if necessary.
	1.2 Pinched fuel line-----	Replace or reroute
	1.3 Plugged fuel filter-----	Replace
	1.4 Low battery voltage-----	Recharge or replace
	-----	Loose connections-tighten
	-----	Dirty connections-clean
	1.5 Plugged air filter-----	Replace
	1.6 Defective oil pressure switch----	Check continuity-replace
	1.7 Defective air temp. switch-----	Check continuity-replace
	1.8 Blown fuse-----	Check continuity-replace
1.9 Poor ground connection-----	Check and clean/renew	
1.10 Engine problems-----	Refer to Engine Operator Manual	
2. Compressor Shuts Down with Air Demand	2.1 No fuel -----	Fill if necessary
	2.2 Compressor temperature-----	Low oil level-top up
	switch opening-----	Restricted cooling air intake-clean-reposition machine
	-----	Fan not operating-check ground-check fan switch
	2.3 Plugged oil filter-----	Replace
	2.4 Dirty cooler core-----	Clean
	2.5 Contaminated cooler core-----	Remove and clean
2.6 Defective engine oil press switch	Replace	
2.7 Engine speed too low-----	Adjust and reset	

<u>SYMPTOM</u>	<u>PROBABLE CAUSE</u>	<u>POSSIBLE REMEDY</u>
3. Compressor will Not Build Up Pressure	3.1 Air demand too great-----	Check for leaks/correct -- Too much air demand
	3.2 Air filter plugged-----	Check and replace
	3.3 Defective pressure regulator-----	Replace
	3.4 Press. Reg. out of adjustment---	Reset
	3.5 Engine does not speed up-----	Pressure regulator
		----- Speed control adjustment
		----- Engine governor stuck
3.6 Control cylinder stuck-----	Replace	
3.7 Belts slipping-----	Readjust	
4. Compressor Over pressures	4.1 Press. Regul. Out of adjustment---	Reset
	4.2 Defective Press. Regulator-----	Replace
	4.3 Leak in air control line-----	Check and correct
	4.4 Inlet valve stuck-----	Free or replace
	4.5 Restriction in control line-----	Dirt or ice, clean/free up
	4.6 Check valve stuck-----	Replace
	4.7 Faulty gauge-----	Check with shop air/replace
		4.8 Defective Safety Valve-----
	4.9 Plugged Coalescer-----	Replace
5. Insufficient Air Delivery	5.1 Plugged Air Filter-----	Replace
	5.2 Plugged Coalescer-----	Replace
	5.3 Defective Press. Regul.-----	Replace
	5.4 Engine speed too low-----	Adjust and reset
	5.5 Inlet valve stuck-----	Free or replace
	5.6 Belts slipping-----	Readjust
6. Oil Carryover	6.1 Oil level overfull-----	Drain to correct level
	6.2 Plugged oil scavenge orifice-----	Remove and clean
	6.3 Scavenge return line kinked----	Replace/re-route
	6.4 Check valve stuck-----	Replace
	6.5 Discharge Pressure too low-----	Review air usage
		----- Check press. regul. setting
6.6 Defective coalescer-----	Replace	

<u>SYMPTOM</u>	<u>PROBABLE CAUSE</u>	<u>POSSIBLE REMEDY</u>
7. Compressor Overheating	7.1 Insufficient oil-----	Check level and top up
	7.2 Restricted cooling air flow-----	Reposition machine
	7.3 Fan not operating-----	Check ground connection
	-----	Check fan switch
	-----	Check air pressure switch
	-----	Check circuit breaker
	-----	Check for shorted wires
	-----	Check fan motor
8. System Retains Pressure After Shutdown	7.4 Plugged oil filter-----	Replace
	7.5 Cooler core plugged-----	Clean
	7.6 Pressure set too high-----	Readjust
	7.7 Restricted cooling air flow-----	Reposition machine
	7.8 Contaminated cooler core-----	Remove and clean
	8.1 No signal to blowdown valve---	Check pilot line for leak/fold
	8.2 Blowdown silencer plugged-----	Clean or replace
	8.3 Blowdown valve plugged-----	Replace
8.4 Plugged coalescer element-----	Replace	
9. Improper Control Operation	9.1 Engine does not speed up-----	Cylinder stuck, replace
	-----	Governor stuck, free/lube
	-----	Operating pressure too high
	-----	Fuel filter partly plugged
	9.2 Engine does not slow down-----	Leak in control line
	-----	Press. regul. out of adjustment
	-----	Press. regul. faulty
-----	Air cylinder stuck, replace	
-----	Governor stuck, free/lube	
10. Engine Overheating	10.1 Low oil level-----	Top up
	10.2 Oil filter plugged-----	Replace
	10.3 Restricted cooling air in/out---	Clean engine intake grill
	-----	Too close to obstruction
	-----	Engine oil cooler plugged
10.4 Compressor pressure-----	Readjust	
too high		
10.5 Check engine manual		