

PART VI: TROUBLESHOOTING

6.1 GENERAL INFORMATION

The information contained in this section has been compiled from years' worth of information gathered from the field. It contains symptoms and usual causes for the most common types of problems that may occur. 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 and may avoid unnecessary additional damage to the machine. The procedures which can be performed in the least amount of time and with the least amount of removal or disassembly of parts, should be performed first. Adherence to a routine maintenance regimen will minimize the occurrence of many common problems. Refer to the V-TEC operation manual, the compressor system operation manual, the engine operation manual, and the vehicle operation manual to get an idea of a typical maintenance regimen program.

Although Vanair® strives to anticipate situations that may occur during the operation life of a machine package, the **Troubleshooting Guide** may not cover all possible situations. Be aware that additional troubleshooting information may be found in other sources such as the various operation manuals listed above. Should the situation remain unresolved after exhausting available sources, contact the Vanair Service Department at:

Vanair Manufacturing, Inc.

10896 West 300 North
Michigan City, IN 46360

Toll Free: (800) 526-8817

Service (toll free): (844) VAN-SERV
(844) 826-7378

Telephone: (219) 879-5100

Service Fax: (219) 879-5335

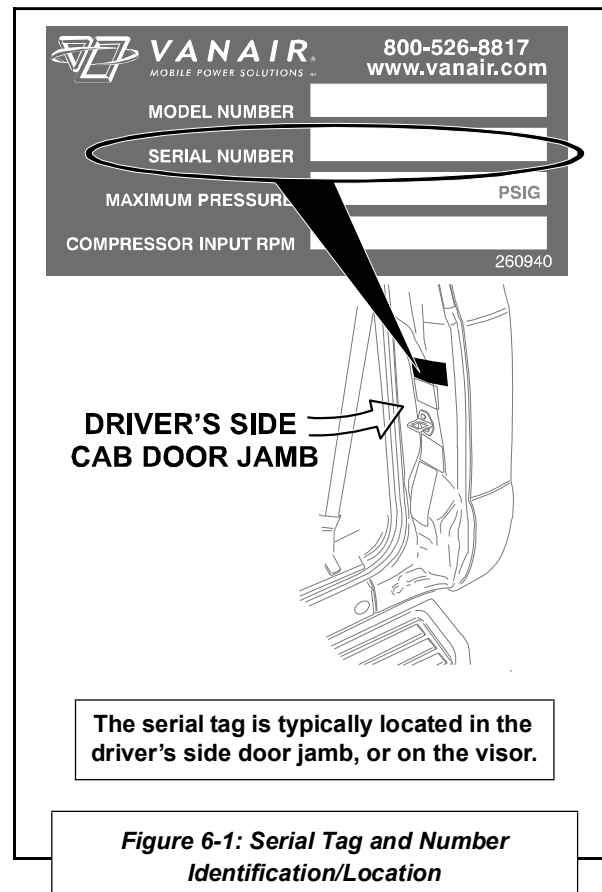
Parts Fax: (219) 879-5340

Sales Fax: (219) 879-5800

www.vanair.com

NOTE

When contacting the Vanair Service Department, please have machine serial number on hand to quickly expedite service. See *Figure 6-1* for serial tag identification and number location.





6.2 TROUBLESHOOTING GUIDE - ERROR MESSAGES

DISPLAY SCREEN ERROR MESSAGE	INDICATION	CAUSE	CORRECTIVE ACTION
I/O Module Com Error Click key to restart	Display Module cannot communicate with the I/O module	Faulty J1939 channel wiring	Confirm that it is connected to the vehicle. Check wiring. Replace if faulty or damaged.
		Power wiring to the I/O Module faulty	Check wiring. Replace if faulty or damaged
		I/O Module is faulty	Reprogram or replace I/O Module
Setup Check Error Setting to Defaults Click key to restart	Display Module memory corrupted (most likely to occur when unit is first powered up out of the box.)	Display Module is faulty	Replace or replace both the Display Module and the I/O Module with the same software version.
Display Module and I/O module mismatch. For Example: D 001.061 I 001.060 (Display version shows 001.061, and I/O version 001060) NOTE: If mismatched module versions display after initial set up, then display and/or I/O module may be faulty.	Upon power up the Display Module confirms that the I/O Module's version of the software does not match the Display's version. This message should only appear if a module was replaced with an incompatible version. Display Module cannot communicate with the I/O Module.	I/O Module is faulty or out of version. BOTH MODULES MUST HAVE THE SAME SOFTWARE VERSION.	Reprogram or replace both the Display Module and the I/O Module with the same software version.
Shift to Park or Shift to Neutral	Vehicle out of gear.	Vehicle is not running.	Start vehicle; put gear in Park or Neutral.
		Faulty J1939 channel wiring	Check wiring. Replace if faulty or damaged.
NOTE: Restart system, or press ENTER key once error has been resolved to reset speed controller system.			
Set Parking Brake	Vehicle in park or stationary, but Parking Brake not set.	Safety interlock requires that the Parking Brake is set.	Set Parking Brake.
			Check wiring, and/or consult vehicle operation manual.
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6.2 TROUBLESHOOTING GUIDE - ERROR MESSAGES			
DISPLAY SCREEN ERROR MESSAGE	INDICATION	CAUSE	CORRECTIVE ACTION
Stop vehicle motion	I/O Module senses vehicle not in gear.	Vehicle is moving.	Stop vehicle. Put gear in Park or Neutral.
			Consult vehicle operation manual for vehicle issue.
Alarms must be clear	Triggered alarm condition is not resolved.	Speed controller will not be accessible until alarm condition is cleared.	Check corresponding error message and remove faulty condition.
Sump PSI too high	Sump pressure becomes higher than regulation set point	Regulating valve out of adjustment.	Readjust valve setting.
PTO Engage Fail	Possible transducer location issue.	PTO did not engage.	Make sure vehicle is stationary. Set in either Park or Neutral.
		System does not begin building pressure after the 25 second interval.	
Disch. temp	Cooling system problem	Discharge temperature over set point.	Check cooler fan or shut down system to cool down. Consult compressor system operation manual.
	Faulty thermistor		
Temp sender error	Cooling system problem	Thermistor unplugged for more than 15 seconds.	Check that thermistor is plugged in. Replace bad thermistor. Consult compressor system operation manual.
	Faulty thermistor		



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