

# SECTION 7: TROUBLESHOOTING

## 7.1 GENERAL INFORMATION

The information contained in **Section 7.2, Troubleshooting Guide** has been compiled from field report data and factory experience. Although the troubleshooting guide contains symptoms and usual causes for the described problems, **DO NOT** assume that these are the only problems that may occur. All available data concerning the trouble should be systematically analyzed before undertaking any repairs or component replacement procedures.

A detailed 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. Always remember to:

1. Check for loose wiring.
2. Check for parts damaged by heat or an electrical short circuit, usually noticeable by discoloration or a burnt odor.

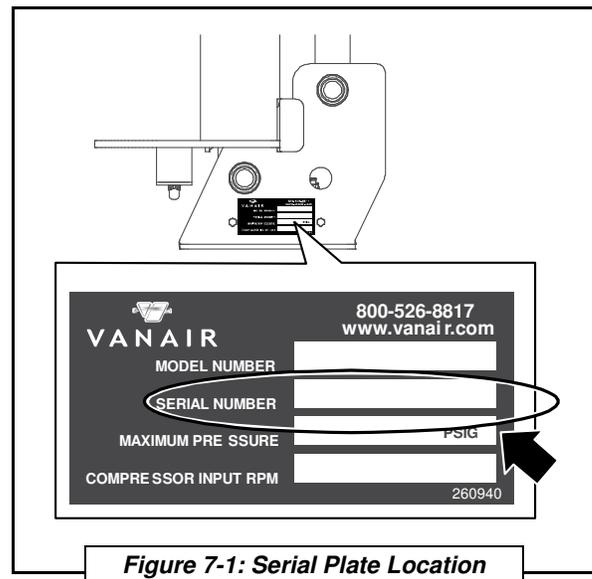
Should the problem persist after making the recommended check, consult the nearest Vanair<sup>®</sup> representative or Vanair Manufacturing, Inc.

 <b>WARNING</b>
<p><b>DO NOT</b> operate the electric tool lift or any of its systems if there is a known unsafe condition. Disable the equipment by disconnecting it from its power source. Install a lock-out tag to identify the equipment as inoperable to other personnel to prevent accidental application.</p>

 <b>WARNING</b>
<p><b>DO NOT</b> attempt to service the equipment while it is operating. Always follow safety guidelines as given in the Safety Section (Section 1) when operating or performing maintenance on the tool lift.</p>

<b>NOTE</b>
<p>When contacting the Vanair Service Department, please have machine serial number on hand to quickly expedite service.</p>

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**Figure 7-1: Serial Plate Location**

<b>7.2 TROUBLESHOOTING GUIDE</b>			
<b>Fault/Malfunction</b>	<b>Possible Cause</b>	<b>Corrective Action</b>	
ETL-500 LIFT DOES NOT RESPOND TO CONTROLLER	Power wires are loose	Check wires and wire connections. Secure connections if loose; replace wires if damaged.	
	Power wires are crossed	Confirm that the wires are connected correctly.	
	Actuator motor overheated or burned out	Let system rest for several minutes and try operating again. If motor is burned out (burnt odor present), replace the actuator solenoid/motor.	
	Solenoid malfunctioning/faulty		Secure connections if loose; replace wires if damaged.
			Replace the solenoid.
	Overworking or not allowing rebound time for duty cycling	Allow enough time in between full cycle operations for actuator to recover.	
Loss of power	Battery drained. For prolonged periods of operation, run the vehicle to keep the battery charged.		
SAFETY SWITCH DOES NOT RESPOND TO STIMULUS	Wire connections are loose or damaged	Check wires and wire connections. Secure connections if loose; replace wires if damaged.	
	Solenoid malfunctioning/faulty	Secure connections if loose; replace wires if damaged.	
		Replace the solenoid.	
ETL-500 LIFT MAKES "CLICKING" NOISE AND LIFTS OR DROPS SUDDENLY	Clutch malfunction	Contact Vanair®. Do not operate.	
"CLICKING" NOISE FROM SOLENOID	Too much weight	Remove some weight.	