

**FPU® SYSTEMS OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
BOH CONTAINERIZED LATRINES
BOH FPU Field Pack-up Units**

**CHAPTER 3
TROUBLESHOOTING PROCEDURES**

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TROUBLESHOOTING PROCEDURES

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INTRODUCTION

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The malfunction/symptom index in WP 0009 00 is a quick reference for finding the troubleshooting procedures. Associated with each symptom name is a table number representing the starting point in a troubleshooting sequence contained in WP 0010 00. The troubleshooting index is broken down by component. Find the component and malfunction/symptom, review the referenced table for the test or inspection and perform the corrective action. This type of activity continues until successful fault isolation is achieved.

Troubleshooting Procedures

The troubleshooting work package contains tables listing the malfunctions, checks or inspections, and corrective actions required to return the equipment to normal operation. Perform the steps in the order they appear in the tables.

The work package is headed by an initial setup. This setup outlines what is needed as well as the conditions that must be met before starting the task. **DO NOT START A TASK UNTIL:**

- You understand the malfunction.
- You understand what you are to do to correct the malfunction.
- You understand what is needed to do the work.
- You have the things you need.

This manual cannot list all malfunctions that may occur, or all tests, inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify unit maintenance.

General Information

When troubleshooting the electrical system with power connected, place all switches and circuit breakers in the OFF position. Ensure all switches and circuit breakers are identified as "in work" to prevent accidental powering of equipment while servicing equipment in work. If any circuit breaker trips after it has been reset, notify unit maintenance.

END OF WORK PACKAGE

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TROUBLESHOOTING PROCEDURES

INITIAL SETUP:
Materiel/Parts

None

Personnel Required

Two

Tools

General Mechanics Tool Kit, Flashlight

References

None

Equipment Condition

Latrine set up

NOTE

If malfunction corrective action does not correct the malfunction, notify unit maintenance.

TABLE 1 OPERATOR TROUBLESHOOTING

Malfunction	Test or Inspection	Corrective Action Required
1. Unable to light Interior Lighting.	Check fluorescent tubes for connection in the fixture.	Twist fluorescent tube in place. Replace fluorescent tube if needed.
	Check circuit breakers in panel box.	Operate the circuit breakers. Have an electrician replace the circuit breakers if needed.
	Ensure the electrical service is operating.	Have an electrician reconnect the service hookup.
2. No water to sinks or toilets.	Ensure there is water service, Shutoff valve is open.	Open the Shutoff valve.
	Check that there are no kinks in the service line.	Relieve the crimps or kinks in the water source hoses.
	Ensure all supply valves are open, See WP 0004 00-4.	Establish water service. (See WP 0004 00-4)
3. Door Seal leaking.	Check for crack or damage to the door seal.	Replace door seal.
4. Doors difficult or unable to operate.	Check door hinges for rust or corrosion.	Lubricate the door hinge with silicon spray.
	Check the container for levelness.	Establish a level site and adjust the level of the container.

TABLE 1 OPERATOR TROUBLESHOOTING (cont'd)

Malfunction	Test or Inspection	Corrective Action Required
5. Vanity sink clogged.	Check for debris.	Use a plunger to clear debris.
	Check trap under sink.	Remove trap under the sink and clear trap.
6. Toilets overflow (one or more).	Check toilet for obstruction.	Use a plunger to clear obstruction.
	Check black water line for kinks and obstructions.	Remove black water line, straighten kinks and clear obstruction.
	Check level of the container.	Adjust the level of the container.
7. Unable to flush toilets.	Check water supply.	Establish water flow.
	Check water fill valve to toilet.	Open water fill valve to toilet.
	Check float operation.	Adjust float valve.
	Check flush mechanism.	Replace flush lever and/or mechanism.
8. Toilets water flows continuously.	Check flap valve for obstructions or hang-ups.	Adjust connection to flap valve.

TABLE 1 OPERATOR TROUBLESHOOTING (cont'd)

Malfunction	Test or Inspection	Corrective Action Required
9. Lighting failure.	Check for loose Fluorescent Tube contact by twisting the tubes.	Replace failing Fluorescent tubes. NOTE Fluorescent tubes may contain hazardous material. For proper disposal of Fluorescent tubes refer to: DOD 4160.21-M page 10.1-12.
10 Unable to flush urinal.	Check water supply valve located under the sink.	Open supply valve. Replace flush valve if needed.
11. Urinal clogged.	Check for debris	Use a plunger to clear debris.
	Check trap under urinal.	Remove trap under the urinal and clear trap.
End of Operator Troubleshooting Table		

END OF WORK PACKAGE

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