

**FPU® SYSTEMS OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
BOH Modular Workshop Container (MWC)
BOH FPU Field Pack-up Units**

**CHAPTER 3
TROUBLESHOOTING PROCEDURES**

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TROUBLESHOOTING PROCEDURES

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INTRODUCTION

Introduction

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 0010 00 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.

END OF WORK PACKAGE

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TROUBLESHOOTING INDEX

TROUBLESHOOTING INDEX (OPERATOR)

Malfunction/Symptom	Refer to WP 0010 00 Table 1, Malfunction Number
INITIAL SETUP	
MWC Stairway Setup	
Unable to remove stairway from ladder	1
Unable to Access Roof Via Ladder	2
Stairway Handrail Not Stable	3
Operating MWC Door	
Unable to open door	4
Unable to close door	5
MWC door leaking	6
Operating Cabinet Drawers	
Unable to open drawers	7
Unable to close drawer	8
MWC Interior lighting	
No overhead red/white lights operate	9
No Workbench fluorescent lights operate	10
One Workbench fluorescent light will not operate	11
Workbench power outlets will not operate	12
HVAC Heater and Air Conditioner	
HVAC Will Not Operate	13
HVAC Overheating	14
Ventilation Fan	
Ventilation fan will not operate	15
Ventilation fan will not remove vapors and smoke	16

END OF WORK PACKAGE

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TROUBLESHOOTING PROCEDURES

INITIAL SETUP:**Materiel/Parts**

None

Personnel Required

One

Tools

General Mechanic's Tool Kit

References

None

Equipment Condition

MWC set up

NOTE

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

OPERATOR TROUBLESHOOTING TABLE 1

Malfunction	Test or Inspection	Corrective Action Required
1. Unable to remove stairway from ladder.	Ensure the strap is undone.	Undo the strap at the bottom of the ladder. See Chapter 2 pages 0005 00- 4 and 00- 5.
	Inspect the Stairway for damage	Make necessary repairs to the ladder or replace.
2. Unable to Access Roof Via Ladder.	Ensure that the container is positioned on the transport vehicle, and the stairway has been removed.	Reposition the stairway to line up with the doorway. See Chapter 2 pages 0005 00-5 and 00-6.
3. Stairway Handrail is not stable	Inspect for missing Handrail Securing Pins.	Reposition the handrail and install or replace the securing pins, See Chapter 2 pages 0005 00-4 to 00-7.
	Inspect handrail hinge joints for damage.	Replace damaged handrail and/or hinge joints.
4. Unable to open door	Inspect container position to ensure it is on level ground.	If on the ground, relocate container to level ground. See Chapter 2 pages 0005 00-1 and 00-2.
	Inspect to determine if Door Lockset is clear of debris.	Apply lube spray, to key slot and lock set. See Chapter 2 pages 0005 00-9 and 10 Chapter 4 pages 0013 00-1 to 00-3.
	Inspect Door Lockset for damage	Replace Lockset.
5. Unable to close door	Inspect container door threshold for dirt, gravel, mud or other obstructions.	Clean as necessary.
6. MWC door leaking	Inspect door seals for damage and for proper lubrication.	Lubricate or replace seals as required, See Chapter 5 pages 0017 00-4 and 00-5, Chapter 4 pages 0013 00-1 to 00-3
7. Unable to open workbench drawer	Inspect drawer-locking handle and to ensure they have spring action to the unlocked position.	Actuate the drawer latches into the unlocked position, lubricate as required. See Chapter 2 pages 0006 00-9, 00-10 00-11 and 00-12 Chapter 4 pages 0015 00-1 to 00-2.
	Inspect for an obstruction inside the drawer.	Clear any obstruction and open.

OPERATOR TROUBLESHOOTING TABLE 1 (cont'd)

Malfunction	Test or Inspection	Corrective Action Required
8. Unable to close workbench drawer	Check for an obstruction in or behind the drawer.	Remove drawer and Clear/remove the obstruction in, or behind the drawer.
	Inspect drawer-locking latches to ensure they are spring operating freely. See Chapter 2 Page 0006 00-10.	Actuate and lubricate latches in the open position and close the drawer. See Chapter 2 Page 0006 00-10.
9. No Overhead red/white lights operate	Check circuit breaker and power source connection. See Chapter 5 WP 0019.	Actuate circuit breaker. Actuate light switch. See Chapter 5 WP 0019. Actuate door switch.
	Check exterior cable connections See Chapter 5 WP 0019.	Seek electrical repair. See Chapter 5 WP 0019.
10. No Workbench fluorescent lights operate.	Check circuit breaker and power source connection. See chapter 2 pages 0006 00-1 and 00-2.	Actuate circuit breaker. Actuate switch. See Chapter 5 WP 0019.
		Seek electrical repair. See Chapter 5 WP 0019.
11. One Workbench fluorescent light will not operate.	Actuate switches. See Chapter 2 pages 0006 00-5.	Seek electrical repair. See Chapter 5 WP 0019.
	Check fluorescent tube for correct position. See Chapter 5 pages 0019 00-7.	Replace fluorescent tube. See Chapter 5 WP 0019.
12. Workbench power outlets will not operate	Check circuit breaker and power source connection See chapter 2 pages 0006 00-1 and 00-2.	Actuate circuit breaker. Seek electrical repair. See Chapter 5 WP 0019.
13. HVAC Will Not Operate.	Check circuit breaker and power source connection. See chapter 5 WP 0019.	Actuate circuit breaker. Actuate HVAC switch. See Chapter 5 WP 0019.
		Seek electrical repair. See Chapter 5 WP 0019.
14. HVAC Overheating.	Check filter and vents for debris. See chapter 2 pages 0006 00-6 and 00-7.	Remove vinyl weather cover. See Chapter 5 WP 0019. Replace Filter.
		Seek electrical repair. See Chapter 5 WP 0019.
15. Ventilation fan will not operate.	Check circuit breaker and power source connection. See Chapter 2 page 0006 00-1 and 00-2.	Actuate circuit breaker. Actuate switch.
		Seek electrical repair. See Chapter 5 WP 0019
16. Ventilation fan will not remove vapors and smoke.	Check vent hood for debris. See Chapter 4 page 0016 00-3.	Clean debris from hood. Seek electrical repair. See Chapter 5 page 0016 00-3.

END OF TABLE 1**END OF WORK PACKAGE**