

**CHAPTER 3**  
**CONTAINER TROUBLESHOOTING PROCEDURES**

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**FPU SYSTEMS OPERATION MANUAL  
(INCLUDING REPAIR PARTS & ACCESSORIES)  
FOR  
FPU/BOH CARGO CONTAINERS  
MODELS FPU-8-2, BOH-CARGO-12-1, BOH-CARGO-6 & FPU-20-1 & FPU-20-2  
TROUBLE SHOOTING INTRODUCTION**

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## **INTRODUCTION**

The malfunction/symptom index in WP 0011 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 0012 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 task.
- You understand what you are to do.
- 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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MALFUNCTION SYMPTOM INDEXES**

**TABLE 1 MALFUNCTION SYMPTOM INDEX (OPERATOR)**

Malfunction/Symptom	Refer to WP 0012 Table 1, Procedure Number
<b>INITIAL SETUP</b>	
<b>Connecting/Disconnecting FPU</b>	
Unable to Insert Horizontal Interconnectors into ISO Corner Blocks of BOH-CARGO-12 or FPU-8-2.	1
Unable to Join FPU-8-2 to BOH-CARGO-12.	2
Unable to Separate FPU-8-2/BOH-CARGO-12 Containers.	3
<b>Securing FPU to PLS Trailer</b>	
Unable to Insert the 1 ½-inch PLS Trailer Load Securing Pin.	4
<b>OPERATION OF FPU CONTAINERS</b>	
<b>Operation of FPU Pocket Doors FPU8, FPU 20</b>	
Unable to Open Door	5
Unable to Close Door	6
Doors Leaking	7
<b>Operation of FPU Barn Style Doors FPU 12-1 &amp; 2 and FPU-6</b>	
Unable to Open Door	8
Unable to Close Door	9
Doors Leaking	10
<b>Removing/Installing Load Constraint Bars Boh-Cargo-12</b>	
Unable to Install Load Constraint Bar.	11
<b>Operating Adjustable Drawers (BOH-CARGO-12 and front section of the FPU-20-2 configured with Parts Storage Aids)</b>	
Unable to Remove Drawer Slide Ledge Assembly from Vertical Rack Frame.	12
Unable to Install Drawer Slide Ledge Assembly onto Vertical Rack Frame.	13
<b>Opening and Closing Drawers ((Boh-Cargo-12 configured with Parts Storage Aids)</b>	
Unable to Open Drawer.	14
Drawer Does Not Lock in the Fully Extended Position.	15
Unable to Close Drawer.	16



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TROUBLESHOOTING PROCEDURES**

**INITIAL SETUP:****Materiel/Parts**

None

**Personnel Required**

One

**Tools**

General Mechanic's Tool Kit

**References**

None

**Equipment Condition**

FPU set up

**NOTE**

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

**TABLE 1 OPERATOR TROUBLESHOOTING**

<b>Malfunction</b>	<b>Test or inspection</b>	<b>Corrective action required</b>
1. Unable to Insert Horizontal Interconnectors into ISO Corner Blocks Of FPU-8-2 or BOH-CARGO-12-1.	Ensure jaws on corner horizontal interconnectors are fully open. Inspect for debris in ISO corner blocks.	Using appropriate tools fully retract horizontal interconnector bolts. Clean as required.
2. Unable to Join FPU-8 to BOH-CARGO-12-1.	Inspect BOH-CARGO-12-1 for proper orientation.	Reorient as required
3. Unable to Separate FPU-8-2/ BOH-CARGO-12-1 Containers.	Check for cocked/twisted condition. Check to ensure horizontal interconnectors are fully retracted.	Push back into connected position, realign MHE and repeat disconnecting process. Retract horizontal interconnector adjuster bolt to the fully retracted position.
4. Unable to Open Door/Doors on FPU-8-2, FPU-20-1 and FPU-20-2.	Inspect container position to ensure it is on level ground. Inspect door for misalignment. Inspect to determine if inner door handle is in the open position.	Relocate container to level ground.  Align door/doors (refer to work package 0006 00). Close inner door and retry.
5. Unable to Close Door/Doors on FPU-8-2, FPU-20-1 and FPU-20-2.	Inspect for debris or obstructions in door threshold.  Inspect door for misalignment. Inspect container position to ensure it is on level ground. Inspect to ensure door is being closed with proper seal orientation.	Clean debris from threshold. Close outer doors and retry.  Align door/doors (refer to work package 0006 00). Relocate container to level ground.  Retry with right door slightly ahead of the left to ensure proper seal orientation.

TABLE 1 OPERATOR TROUBLESHOOTING (cont'd)

Malfunction	Test or inspection	Corrective action required
6. Doors Leaking	Inspect container door threshold for dirt, gravel or other obstructions. Inspect door seals for proper lubrication.	Clean as necessary. Lubricate as required.  Replace Seals if necessary.
7. Unable to Open Door/Doors on BOH-CARGO-12-1 Container.	Inspect container position to ensure it is on level ground. Inspect door for misalignment. Inspect to determine if inner door handle is in the open position.	Relocate container to level ground.  Close inner door and retry.
8. Unable to Close Door/Doors on BOH-CARGO-12-1 Container.	Inspect for debris in door threshold. Inspect outer doors to ensure they are in the closed position. Inspect door for misalignment. Inspect container position to ensure it is on level ground. Inspect to ensure door is being closed with proper seal orientation.	Clean debris from threshold. Close outer doors and retry.  Align door/doors (refer to work package 0006 00). Relocate container to level ground.  Retry with right door slightly ahead of the left to ensure proper seal orientation.
9. Doors Leaking	Inspect container door threshold for dirt, gravel or other obstructions. Inspect door seals for proper lubrication.	Clean as necessary. Lubricate as required.  Replace Seals if necessary.
10. Unable to Remove Drawer Slide Ledge Assembly from Vertical Rack Frame.	Inspect to ensure all securing bolts have been removed. Check drawer ledge position to ensure it is clear of the vertical rack stanchion windows.	Ensure all four carriage bolt nuts are loose. Using 2X4 or similar object, tap upward on the drawer ledge until clear of vertical rack frame window.
11. Unable to Install Drawer Slide Ledge Assembly on the Vertical Rack Frame.	Inspect ledge tabs to ensure they are inside vertical rack frame windows.	Remove and reposition with all bayonet tabs inside vertical rack frame windows and the four carriage bolts are aligned inside their appropriate slots. Tap downward with a 2X4 or similar object until carriage bolts are completely at the bottom of their slots.

TABLE 1 OPERATOR TROUBLESHOOTING (cont'd)

Malfunction	Test or inspection	Corrective action required
12. Unable to Open Drawer.	Inspect drawer-locking handles to ensure they are in the unlocked position. Inspect for an obstruction inside the drawer.	Position drawer locking handles into the unlocked position and extend outward. Clear obstruction and open.
13. Drawer Does Not Lock in the Fully Extended Position.	Inspect drawer to ensure drawer is fully extended.	Pull back firmly on drawer to fully extend and turn locking handles to their locked position.
14. Unable to Close Drawer.	Inspect drawer-locking handle to ensure they are in the open position. Check for an obstruction in the drawer.	Position handle in the open position and push inward. Clear/remove the obstruction.
15. Unable to Insert a Pallet.	Inspect pallet-locking rod to ensure it is in the fully retracted position. Inspect pallet and pallet ledge area to ensure nets or straps on the pallet are not hung up on the pallet ledge.	Fully retract the pallet-locking rod. Untangle and continue inserting pallet.
16. Unable to Remove a Pallet.	Inspect pallet-locking rod to ensure it is in the fully retracted position. Inspect pallet and pallet ledge area to ensure nets or straps on the pallet are not hung up on the pallet ledge.	Fully retract the pallet-locking rod. Untangle and continue removing pallet.
17. Unable to Remove Pallet Ledge Assembly From Vertical Rack Frame.	Inspect to ensure all securing bolts have been removed. Check pallet ledge position to ensure it is clear of the vertical rack stanchion windows.	Ensure all ten carriage bolt nuts are loose. Using 2X4 or similar object, tap upward on the drawer ledge until clear of vertical rack frame window.
18. Unable to Install Pallet Ledge Assembly onto Vertical Rack Frame.	Inspect pallet ledge tabs to ensure they are inside vertical rack frame windows.	Remove and reposition with all bayonet tabs inside vertical rack frame windows and the ten carriage bolts are aligned inside their appropriate slots. Tap downward with a 2X4 or similar object until carriage bolts are completely at the bottom of their slots.

**TABLE 1 OPERATOR TROUBLESHOOTING (cont'd)**

<b>Malfunction</b>	<b>Test or inspection</b>	<b>Corrective action required</b>
19. Male Parachute Clips on Nets Do Not Align with Female Clips on Drawer/Pallet.	Check the orientation of net to ensure it is proper fitted.	Turn net to orientate properly.
20. Safety Snaps on Floor Nets Will Not Stretch Between Rings at Bottom of Vertical Rack Frames.	Check orientation of net to ensure it is proper fitted.	Turn net to orientate properly.
21. Unable to Insert Module and Lock In Position.	Check module adapter plate cradles for debris. Check floor adapter plate cradles to ensure rubber pads are in place. Check module-locking arm to ensure it is in the full open position.	Clean as necessary. Insert rubber pads as necessary. Check module locking-arm for obstructions. Clear if necessary and fully extend outward to its full open position.
22. Unable to Remove Module.	Check module-locking arm to ensure bit is in its full open position.	Extend module-locking arm to its full open position.
<b>End Of Table</b>		

**END OF WORK PACKAGE**