

**FPU® SYSTEMS OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3
BOH FPU Field Pack-up Units**

CHAPTER 5

UNIT MAINTENANCE INSTRUCTIONS

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UNIT MAINTENANCE INSTRUCTIONS
FPU® SYSTEMS OPERATION MANUAL
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MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3
BOH FPU Field Pack-up Units

DOOR ASSEMBLIES

INSPECT, SERVICE

INITIAL SETUP:

Materiel/Parts

Lubricant (see Table 2 Lubrication in WP 0014)

Personnel Required

One

Tools

Rags, General Mechanic's Tool Kit, Ladder with hand rail

References

Chapter 5 WP 0021 00-2 & 0021 00-3

Equipment Condition

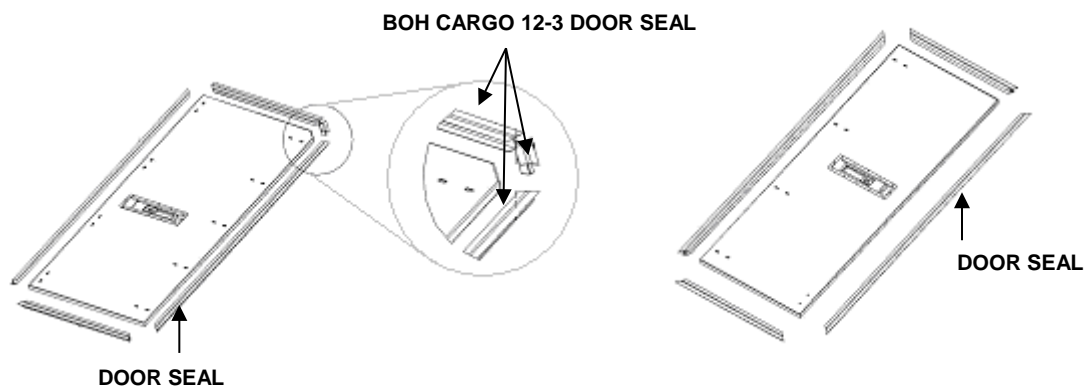
FPU SYSTEM Inspect and Repair

INSPECT

With doors open, inspect seal surfaces, and report problems with door seal to maintenance maintenance.

SERVICE

1. Wipe seal surfaces clean and apply a light coat of lubrication (refer to Table 2 Lubrication in WP 0014) to seal mating surfaces.
2. Report gouges, cracks, rips, tears, etc. in door seal to maintenance maintenance.



WARNING



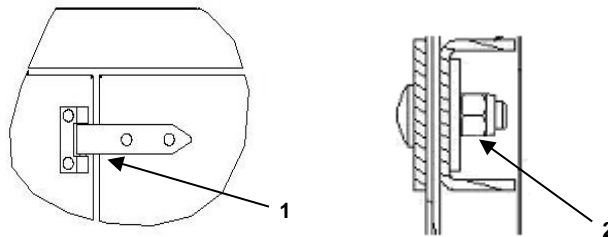
Ensure the container is out of the wind before attempting repair of the doors.
 Review door strap arrangements chapter 2 WP 0006 00-4 to 00-8.

WARNING

Ensure the container is out of the wind before attempting repair of the doors.
Review door strap arrangements chapter 2 WP 0006 00-4 to 00-8.

ALIGN

Refer to door diagram, WP 0021 00-2 and WP0021 00-3.

**Align BOH-CARGO-12-3 and FPU-20-3 bi-fold type doors as follows:**

See diagrams page 0022 00-2 and 0022 00-3.

EXAMPLE

1. Ensure the container is on a level surface.
2. Remove drawers/pallets directly behind the door to be aligned.
3. With door #1 and #2 in the open position, loosen hinge locknuts (2) on the door that is misaligned, i.e. door #3 is with door #4.
4. Close the misaligned door #3 and #4 leaving the opposite door #1 and #2 open to allow access for measurements.
5. Using a pry bar, or wood wedge, center door with equal distance from top of door edge to header and bottom door edge to threshold.
6. Retighten locknuts (2) on the door #3 and #4 hinges (1).
7. Reopen the door #3 and #4 to check alignment with door #1 and 2.
8. Close the misaligned door #3 and #4 and opposite doors #1 and #2.
9. Visually check the door alignment of door #3 and #4 to door #1 and #2.
10. Retighten hinge locknuts (2) on the misaligned door #3 and #4.

Align FPU-8-4 and FPU-20-3 barn type doors #5, #6,#11 and #12 as follows:

See page 0022-002 and 0022 00-3

EXAMPLE

1. Ensure the container is on a level surface.
2. Remove drawers/pallets/modules directly behind the door #5 to be aligned.
3. With doors #5 in the open position, loosen hinge locknuts on the door #5 and to be aligned.
4. Close the misaligned door #5 leaving the opposite doors #6 open to allow access for measurements.
5. Using a pry bar, or wood wedge, center door with equal distance from top of door edge to header and bottom door edge to threshold.
6. Retighten locknuts (2) on the door #5 hinges (1).
7. Reopen the door #5 to check alignment with door #6.
8. Close the misaligned door #5 and opposite door #6.
9. Visually check the door alignment of door #5 to door #6.
10. Retighten hinge locknuts (2) on the misaligned door #5.

REPLACE

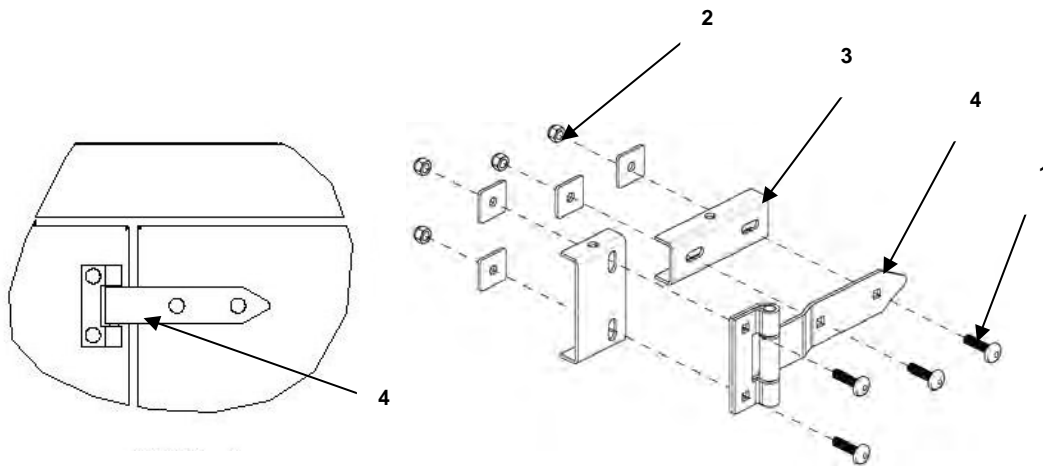
Replacement of Door Hinge

1. Remove hinge bolts (1), locknuts(2) and brackets (3), and hinge (4) to be replaced.

NOTE

Only replace one hinge at a time to avoid alignment problems.

2. Install and tighten brackets (3), bolts (1), locknuts (2), and replacement hinge (4).
3. Check door operation, alignment and align as required.



Replacement of Door Assembly

Refer to door diagram WP 0021 00-2 and WP0021 00-3 for door arrangements. The primary components are the door, handle assembly, hinges (4), carriage bolts (1), lock nuts (2) and door seals.

REPAIR

NOTE

Hinges on the corners of the container are welded to the container frame.

Repairs Requiring Welding

Welding repairs are only required when the FPU SYSTEM container is pierced, punctured, or cracked. Standard welding principles and materials apply to FPU SYSTEM repairs. Welding procedures will not be discussed in this tech manual, refer to TC 9-237.

END OF WORK PACKAGE

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UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3 BOH FPU Field Pack-up Units

DOOR SEALS

REPAIR, REPLACE

INITIAL SETUP:

Materiel/Parts

Prescribed Door Seal Kit

Personnel Required

One

Tools

Ladder, Pocket Knife, ½ hp drill, 3/16" drill bit, pop rivet tool, needle nose pliers

References

Chapter 5 WP 0021 00-2 & 0021 00-3

Equipment Condition

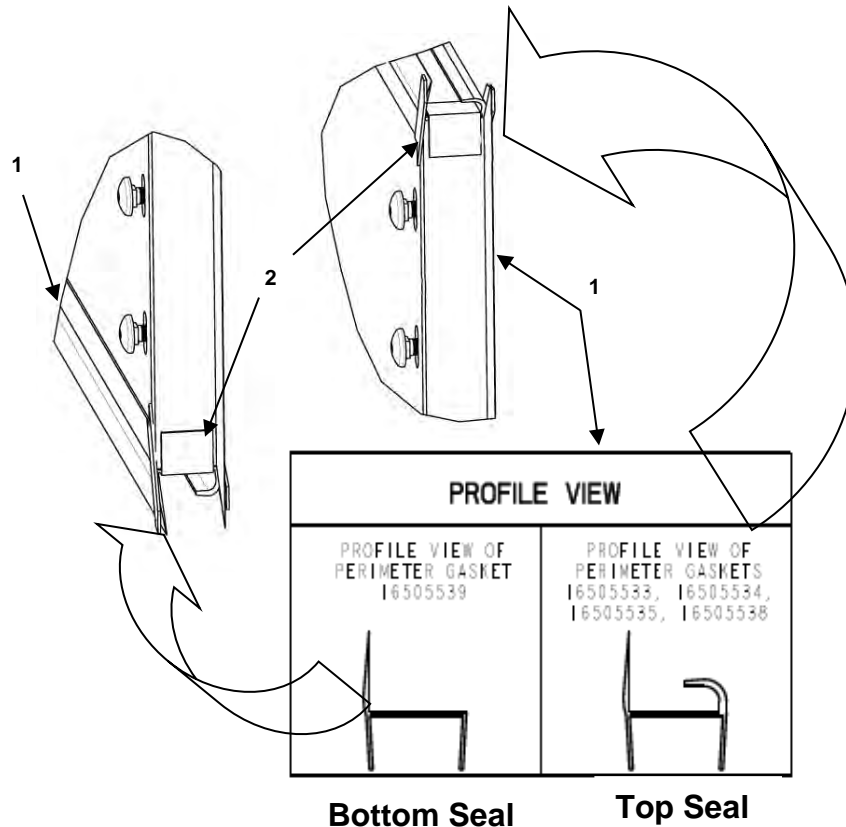
FPU SYSTEM Repair

REPLACE

The door perimeter seals (1) are secured with 3/16" x ¼" pop rivets, the corner tab gaskets (2) are secured with adhesive provided with the door seal kit.

NOTE

Refer to door diagram WP 0021 00-2 and WP0021 00-3 for the door type, number of hinges and door seal kits, which vary with each door location.



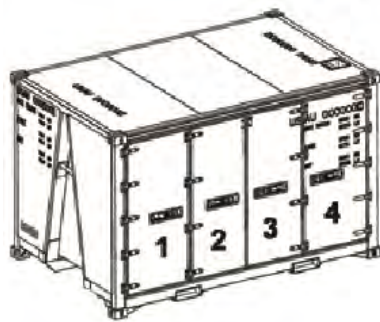
WARNING



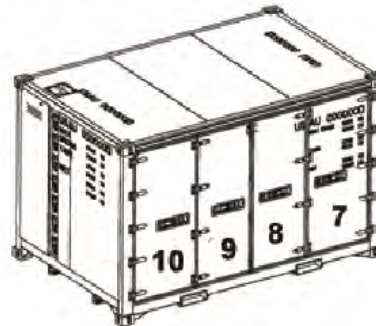
Ensure the container is out of the wind before attempting repair of the doors.

Door Location Diagrams

CARGO 12-3 DOOR NUMBERS



**STREET SIDE
BAIL BAR END**

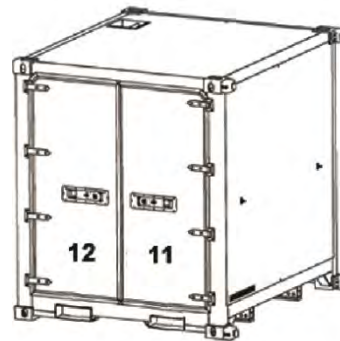


**CURB SIDE
FOLDING STEPS END**

FPU 8-4 DOOR NUMBERS



**STREET SIDE
STEPS END**



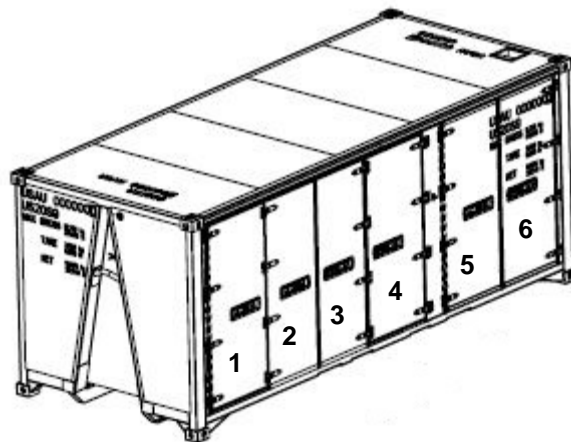
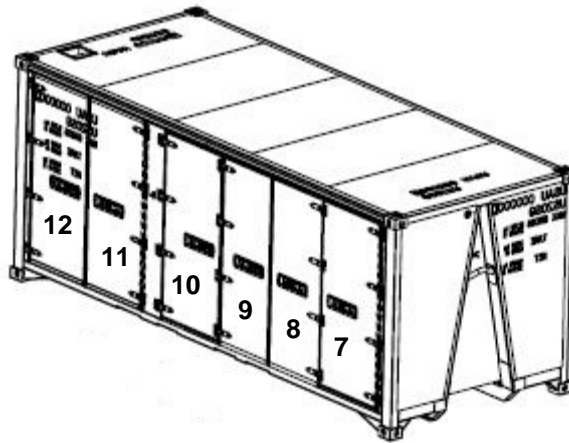
**CURB SIDE
PLAIN END**

WARNING



Consider the wind conditions before attempting repair of the doors.

FPU 20-3 Door Diagram



Door Seal types and Profiles

MODEL FPU-8-4/BOH-CARGO-12-3

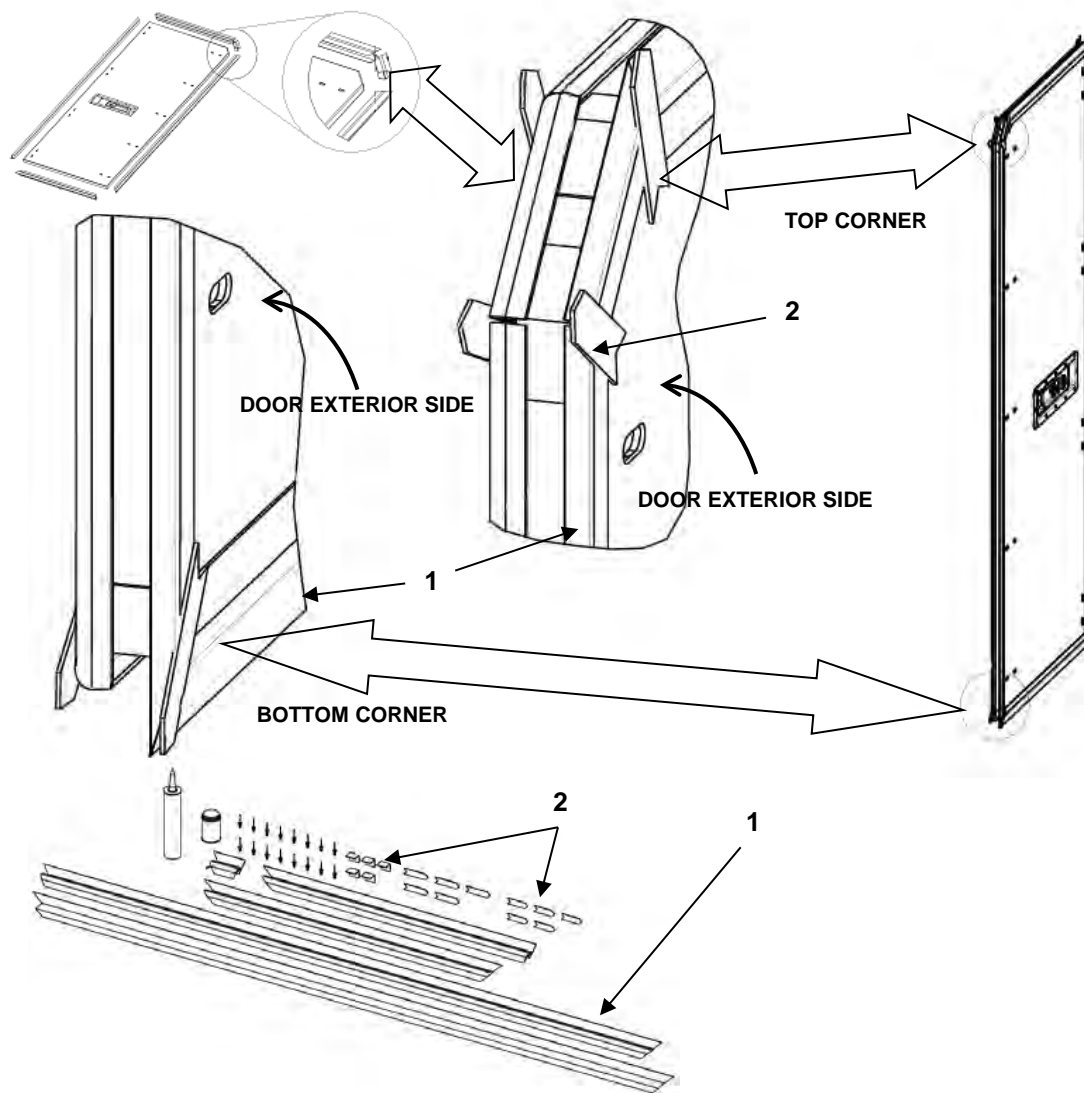
Doors #1, #10, #4, #7, #5, #6, #11 and #12 have the upper corners cut on a bias to fit the container frame.

Refer to door diagram, WP 0021 00-2 and 00-3. The seals (1) and gaskets (2) have been specifically designed for each door.

CAUTION

Ensure the proper seal kit for each door is available before starting.
See chapter 6 WP 0035 FPU-8-4/BOH-CARGO-12-3 and WP 0036 FPU-20-3 for door seal kits to the specific door.

1. Apply a ¼" wide bead of sealant to the inside of the perimeter seal (1) before installing the seal.
2. Align the rivet holes and install the pop rivets See page WP 0021 00-6
3. Gaskets (2) are used to cover mating seal segments and make the seal integrity continuous.



Door Seal types and Profiles

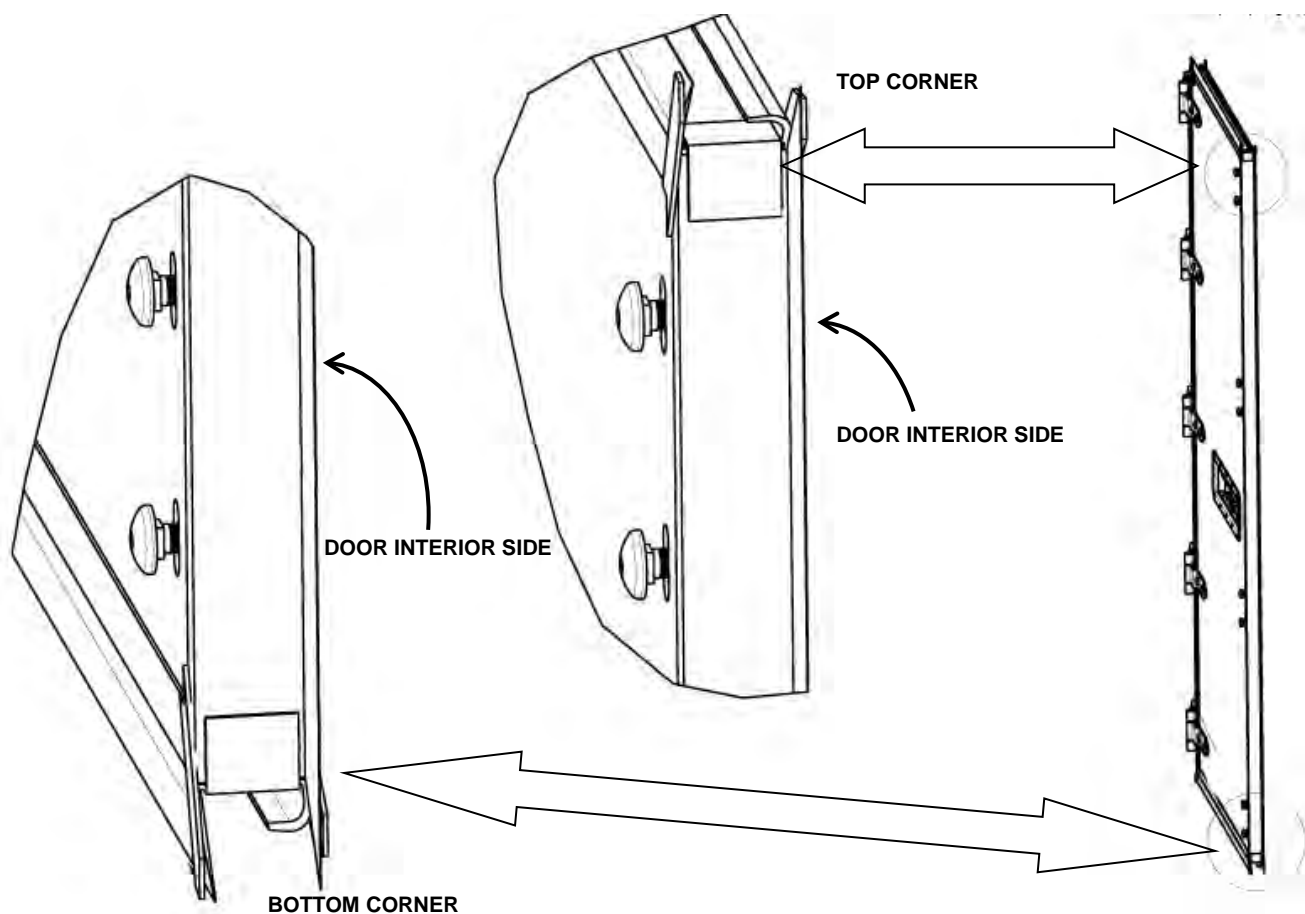
MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3

Doors #2 and #3, #9 and #8 are rectangular bi-fold doors. (See pages WP 0021 00-2 and 00-3)
The seals (1) and gaskets (2) have been specifically designed for each door.

CAUTION

Ensure the proper seal kit for each door is available before starting.
See chapter 6 WP 0035 FPU-8-4/BOH-CARGO-12-3 and WP 0036 FPU-20-3 for door seal kits to the specific door.

1. Apply a ¼" wide bead of sealant to the inside of the perimeter seal (1) before installing the seal.
2. Align the rivet holes and install the pop rivets (See page 0021 00-6)
3. Gaskets (2) are used to cover mating seal segments and make the seal integrity continuous.



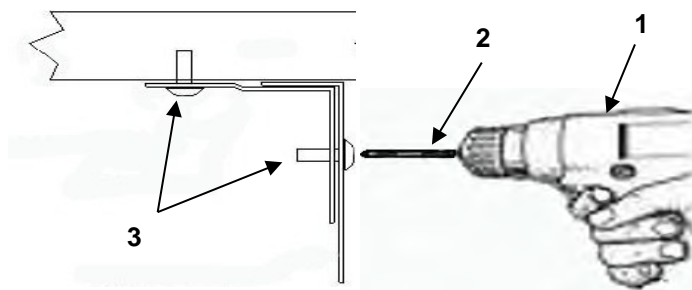
Remove and Replace Rivets

1. Wipe the rivet surfaces clean, use a 1/2 hp electric drill (1) with a 3/16" drill bit (2), and drill through the center core of the rivet (3).

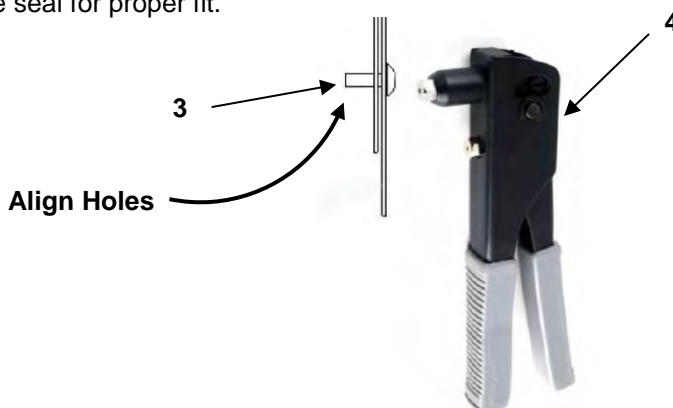


WARNING

Use proper eye protection when operating a drill.



2. Remove the remainder of any pop rivet debris with needle nose pliers and wipe the hole clean with a rag.
3. Remove the seal and install the new seal.
4. Insure the holes are properly aligned.
5. Insert a new 3/16" DIA pop rivet (3), through the holes of seal and door to be installed (aligning top and bottom).
6. Use the pop rivet tool (4) to secure each pop rivet and seal in place.
7. Check for proper alignment and tight attachment of the seal.
8. Ensure the seal surfaces are dry and clean before applying adhesive.
9. Install new gaskets with sealant and adhesive to cover the mating edges of the seals.
10. Close the door and inspect the seal for proper fit.



UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3 BOH FPU Field Pack-up Units

VERTICAL RACK FRAME

REPAIR, REPLACE

INITIAL SETUP:

Material/Parts

None

Personnel Required

One

Tools

Ladder with hand rail

References

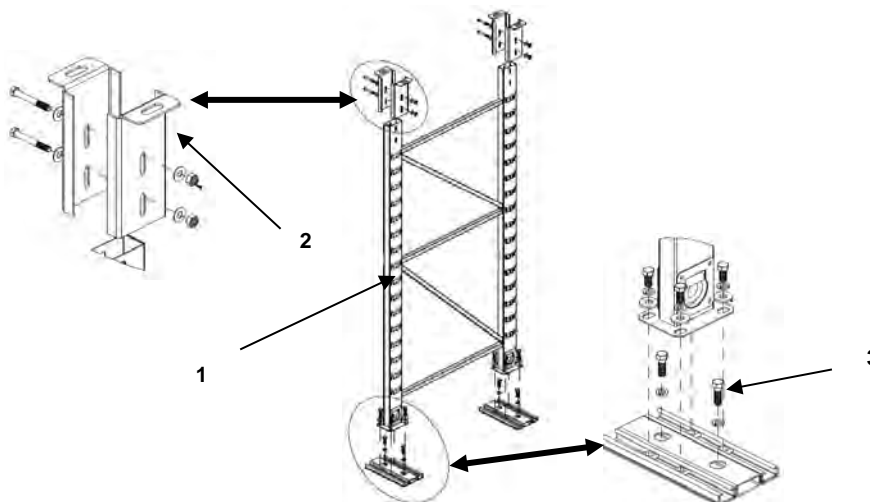
Chapter 2 WP 0006 00

Equipment Condition

FPU SYSTEM Set-up

REPAIR

Welding repairs are only required when the FPU SYSTEM container is pierced, punctured, or cracked. Standard welding principles and materials apply to FPU SYSTEM repairs. Welding procedures will not be discussed in this manual. Refer to TC 9-237 for welding procedures.



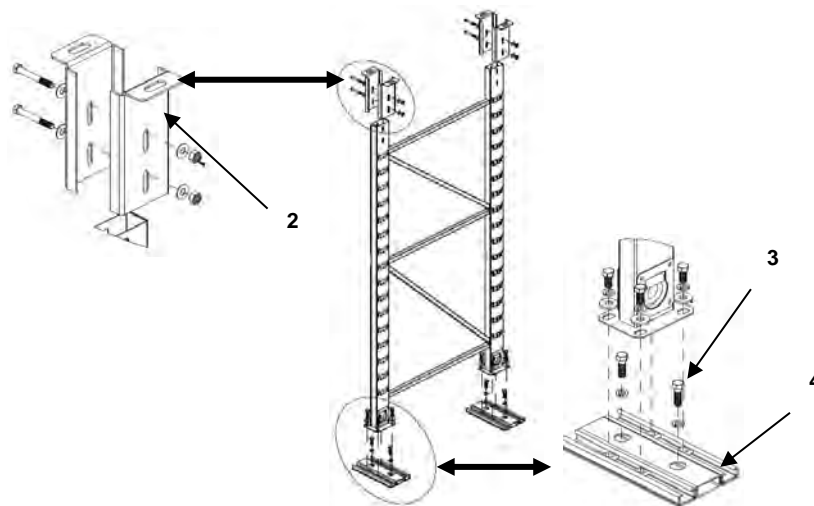
REPLACE

1. Remove all drawers/pallets, drawer/pallet ledges that are attached to the vertical rack frame (1) to be replaced. Review WP 0006 00-12 and 0006 00-17 for drawer and pallet ledge removal procedures.
2. Remove the 1/2-inch hex head bolts from the upper rack attachment assembly (2) and vertical rack frame base using a 3/4-inch socket with ratchet.
3. Slide the rack upper attachment assembly (2) down and remove vertical rack frame.

4. Remove the bottom base frame bolts (3) from the base (4).
5. Insert the repaired/replacement vertical rack frame in the approximate position.
6. Attach upper attachment assembly (2) and vertical rack base with 1/2-inch hex head bolts (Apply Loctite 262 to bolt threads). Hand-tighten only.
7. Reattach drawer/pallet ledges in their desired positions. Review WP 0006 00-12 and 0006 00-17 for drawer and pallet ledge removal procedures.
8. If the vertical rack frame is being installed on a pallet-configured container, use the pallet ledge stabilizer to obtain proper spacing by attaching, but not tightening, the stabilizer.
9. For parts- configured container, use the following table to obtain proper spacing:

30-Inch Drawers	29-7/8 Inches
48-Inch Drawers	47-5/8 Inches

10. Tighten all 1/2-inch bolts on the rack upper attachment (2) and vertical rack frame base (3) using a 3/4-inch socket with ratchet.
11. Reattach drawers/pallets to vertical rack frame Review WP 0006 00-12 and 0006 00-17 for drawer and pallet ledge removal procedures.



END OF WORK PACKAGE

UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3 BOH FPU Field Pack-up Units

FOLDING STEPS (FPU-8-4 FPU BOH-CARGO-12-3 and FPU-20-3)

INSPECT, SERVICE, REPLACE

INITIAL SETUP:

Material/Parts

Lubricant

Personnel Required

One

Tools

General Mechanic's Tool Kit/Ladder

References

WP 0016 00

Equipment Condition

FPU SYSTEM Set-up

INSPECT

Raise and lower each of the steps (1) to ensure they stow and operate properly.

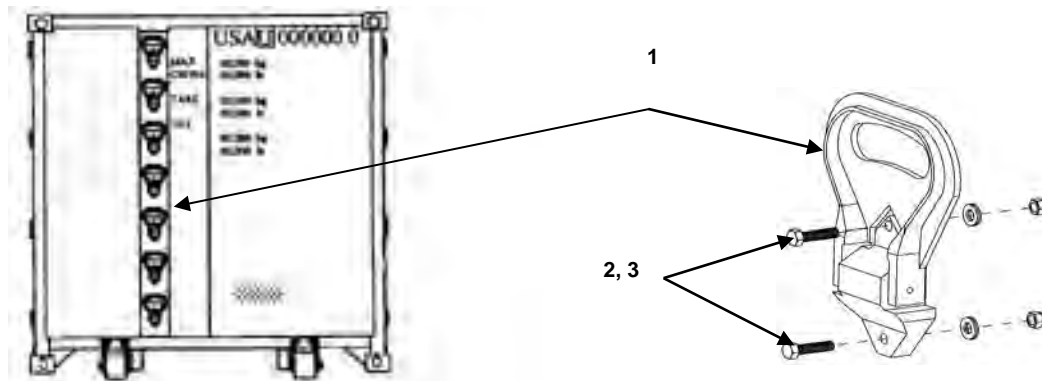
SERVICE

Apply 10W40 lube oil between the moving parts.

REPLACE

1. Remove the mounting bolts and washers (2, 3) with a 9/16 inch socket and ratchet.
2. Install replacement step (1), apply Loctite 262 to the bolt threads, replace bolts and washers (2, 3) with the 9/16" socket and ratchet.

FPU SYSTEM FOLDING STEPS



END OF WORK PACKAGE

BOH-PM-07-5
Chapter 5 Rev. 7.00

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NIT MAINTENANCE INSTRUCTIONS**FPU® SYSTEMS OPERATION MANUAL
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MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3
BOH FPU Field Pack-up Units****DRAWER ASSEMBLY****INSPECT, SERVICE, REPLACE****INITIAL SETUP:****Materiel/Parts**

Rags, Water

Personnel Required

One

Tools

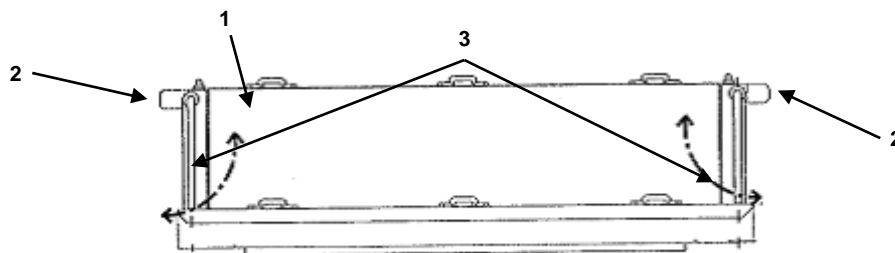
General Mechanic's Tool Kit

References

Chapter WP 0006 00

Equipment Condition

FPU SYSTEM Setup

INSPECT

1. Inspect drawer (1) for cracks, excessive dents or sagging. Notify maintenance if any repairs are necessary. Replace drawer if necessary.
2. Open and close drawer assemblies (1) following steps outlined in WP 0006 00-12 and 00-13 to ensure proper operation (opens/closes without any binding, drawer stops work properly). Notify maintenance if any repairs are necessary.

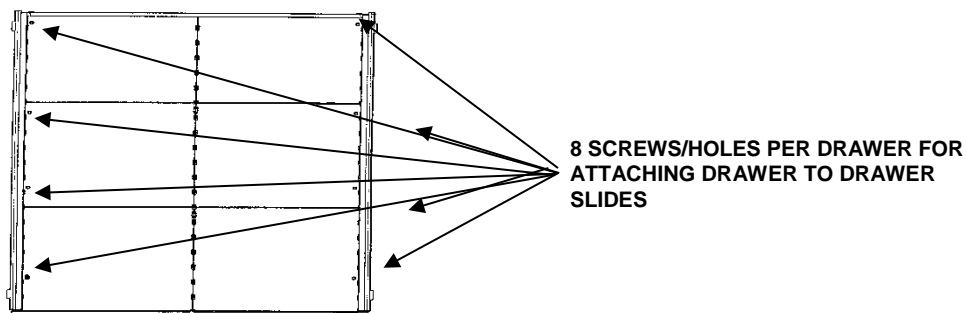
SERVICE

1. Remove debris and trash from drawer (1) as necessary.
2. Wipe Drawer (1) interior and exterior with a wet rag as required.

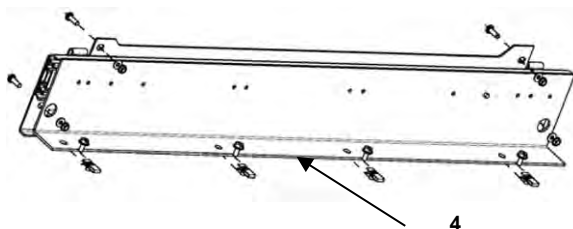
REPLACE

Replace drawer assembly if required. Drawer must be replaced if the locking tabs (2) or handles (3) fail to hold the drawer in the open or closed position and if there is excessive sagging or bending.

To replace:



1. Fully extend drawer to the open position. (If drawer will not stay in the open position, this task will require two people. One to hold the drawer in the extended position and the other to perform drawer removal task).
2. Remove all stored material from drawer.
3. Remove eight ¼-inch screws located in the bottom of the drawer at either side.
4. Lift drawer from slide ledge (4).



CAUTION

If a bolt is lost or damaged beyond use, obtain a replacement. Do not install with less than the proper number of bolts or equipment damage may occur.

5. Position new drawer on the slide ledge being careful to align mounting holes.
6. Install eight ¼-inch screws and slightly hand-tighten.
7. After hand tightening, push drawer completely closed and pull back to the full open position to allow drawer to seat into its proper location on the drawer slide ledge.
8. Being careful not to over tighten, secure the eight ¼-inch mounting screws.

END OF WORK PACKAGE

UNIT MAINTENANCE INSTRUCTIONS**FPU[®] SYSTEMS OPERATION MANUAL
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MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3
BOH FPU Field Pack-up Units****DRAWER SLIDE****INSPECT, SERVICE, REPLACE****INITIAL SETUP:****Materiel/Parts**

Rags, Water

Personnel Required

Two

Tools

General Mechanic's Tool Kit

References

Chapter WP 0006 00-13

Equipment Condition

FPU SYSTEM Set-up

INSPECT

1. Inspect BOH CARGO -12-3 and FPU-20-3 drawer slides for operation, missing hardware per Chapter WP 0006 00-12 to 00-20.
2. Inspect BOH CARGO -12-3 and FPU-20-3 drawer slides for dirt/debris that would affect performance.

SERVICE

Wipe surfaces as necessary to keep equipment clean.

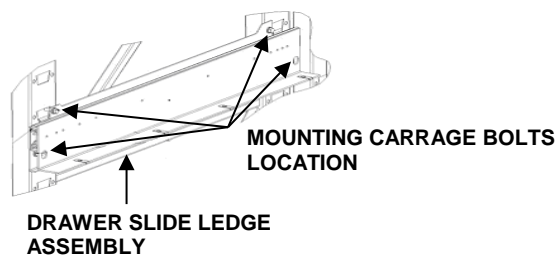
REPLACE

1. Fully extend drawer to the open position. (If drawer will not stay in the open position, this task will require two people. One to hold the drawer in the extended position and the other to perform drawer removal task).
2. Remove all stored materiel from drawer.

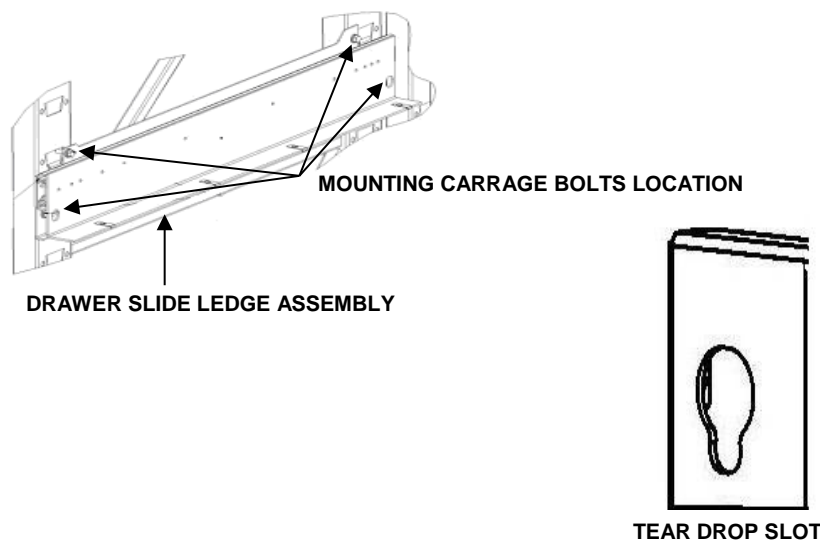
CAUTION

If a bolt is damaged beyond use, obtain a replacement. Do not install with less than the proper number of bolts or damage to equipment may occur.

3. Loosen, but do not remove, the four ¼-inch nuts on the carriage bolts using a ¼-inch socket with ratchet and extension.



4. Slide ledges are retained on the vertical rack frame by four bayonet tabs protruding into the windows of the vertical rack frame. This requires the ledge to be loosened from the vertical rack frame. While one person securely holds the slide ledge, the second person applies an upward force by tapping the underside of the slide ledge at the attached points with a 2 x 4 soft wooden block or similar material.
5. Place the drawer slide ledges in their desired positions by inserting the bayonet tabs into the vertical rack frame windows while aligning the four carriage bolts into their appropriate slots. Slots are tear drop to retain the head of the ¼" carriage bolts. Tap down on the ledge a 2 X 4 soft wooden block or similar material. Ensure the carriage bolts drop completely down in the slots.



6. Apply Loctite 262 red to the four ¼-inch nuts on the carriage bolts.
7. Tighten drawer slides ledge to rack frame by tightening the four ¼ -inch carriage bolt nuts using a ¼ -inch socket with ratchet and extension.
8. Position new drawer on the slide ledge being careful to align mounting holes.
9. Install eight ¼-inch screws and slightly hand-tighten.
10. After hand tightening, push drawer completely closed and pull back to the full open position to allow drawer to seat into its proper location on the drawer slide ledge.
11. Being careful not to over tighten, secure the eight ¼-inch mounting screws.
12. Reinstall drawer in accordance with chapter 2 WP 0006 00-13.

END OF WORK PACKAGE

UNIT MAINTENANCE INSTRUCTIONS

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PALLET

INSPECT, SERVICE, REPLACE

INITIAL SETUP:

Material/Parts

Rags, Water

Personnel Required

Two and MHE Support

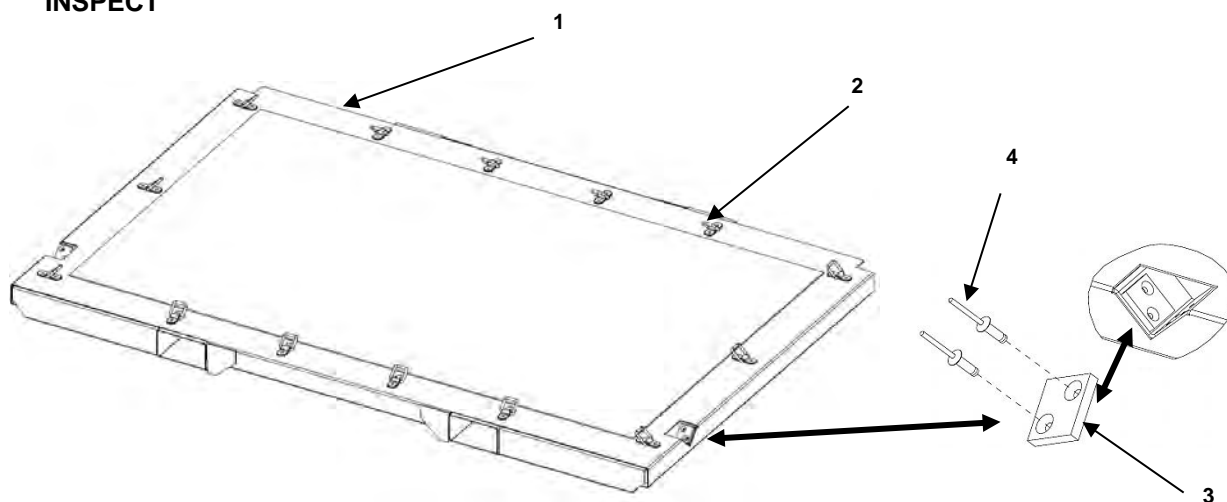
References

WP 0006 00-14 to 0006 00-15

Equipment Condition

FPU SYSTEM Set-up

INSPECT



1. Inspect pallet (1) for cracks, excessive dents or sagging. Report to Maintenance maintenance for repair or replacement.
2. Inspect pallet for missing or damaged D-rings (2). Report to maintenance for repair or replacement.
3. Inspect for missing or damaged Pallet Lock Pads (3).

SERVICE

Wipe surfaces as necessary to keep equipment clean.

REPAIR

1. Remove and install the lock pad pop rivets (4), see page 0021 00-6 steps 1 through 7.

NOTE

Welding repairs are only required when the FPU SYSTEM container is pierced, punctured, or cracked. Standard welding principles and materials apply to FPU SYSTEM repairs. Welding procedures will not be discussed in this tech manual refer to TC 9-237

END OF WORK PACKAGE

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UNIT MAINTENANCE INSTRUCTIONS

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PALLET LEDGE

INSPECT, SERVICE, REPLACE, REPAIR

INITIAL SETUP:

Material/Parts

Rags, Water

Personnel Required

Two

Tools

General Mechanic's Tool Kit, MHE Support

References

WP 0006 00-16 to 0006 00-17

Equipment Condition

FPU SYSTEM Set-up

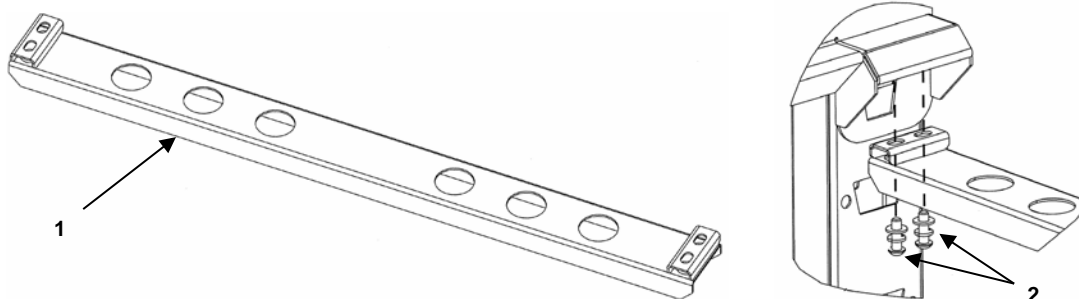
INSPECT

1. Inspect pallet ledges and rack support (1) for cracks or excessive bends. Report to Maintenance for repair.
2. Inspect pallet ledges for proper operation of cam locks and missing hardware.
3. Inspect pallet ledges for dirt/debris that would affect performance.

SERVICE

1. Wipe surfaces and cam lock mechanism as necessary.
2. Lubricate locking rod and cam locks as necessary, refer to WP 0014 00.

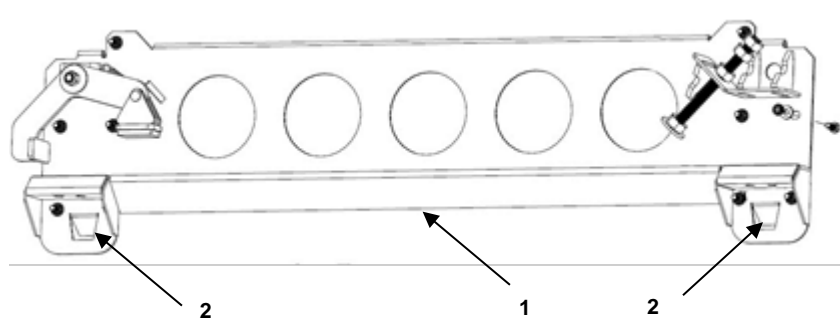
REPLACE



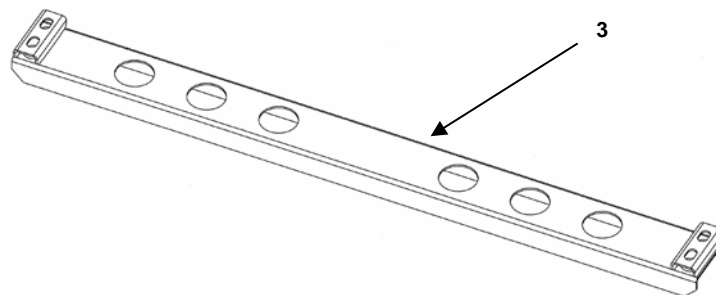
1. Remove pallet on ledge to be replaced and any pallets located above and below to allow access.
2. Remove front and rear rack support (1) by removing the eight 3/16-inch bolts (2) with a hex head drive socket and 3/8-inch ratchet with an extension.
3. Loosen, but do not remove, the ten carriage bolt nuts using 1/4 -inch socket and ratchet with extension from the two pallet ledges on the vertical rack frame.

CAUTION

If a bolts (2) are damaged beyond use, obtain a replacement. Do not install with less than the proper number of bolts or damage to the equipment may occur.



4. Pallet ledges (1) are retained on the vertical rack frame by ten ¼-inch carriage bolts and four bayonet tabs (2) protruding into the windows of the vertical rack frame. This requires the ledge to be loosened from the vertical rack frame. While one person securely holds the pallet ledge, the second person applies an upward force by tapping the underside of the ledge at the attached point with a 2 X 4 soft wooden block or similar material.
5. Place new pallet ledges(1) in their desired positions, by inserting the bayonet tabs (2) into the vertical rack frame windows. Align the ten carriage bolts into their appropriate slots. Ensure that pallet ledges are at the same height in the vertical rack frame. Ensure all bayonet tabs (2) have engaged the vertical rack frame windows before tapping into place. Tap down on the ledge with a 2 X 4 soft wooden block or similar material. Ensure the carriage bolts drop completely down in the slots.
6. Apply Loctite 262 red, to the ten ¼-inch nuts on the carriage bolts.
7. Tighten the ten carriage bolt nuts using a ¼-inch socket, ratchet and extension.
8. Reinstall rear pallet ledge rack support (3) with the four Allen bolts using 3/16-inch hex head driver socket and 3/8-inch ratchet with extension.
9. Reinstall front pallet ledge rack support (3) with the four Allen bolts using 3/16-inch hex head driver socket and 3/8-inch ratchet with extension.
10. Reinstall pallet.

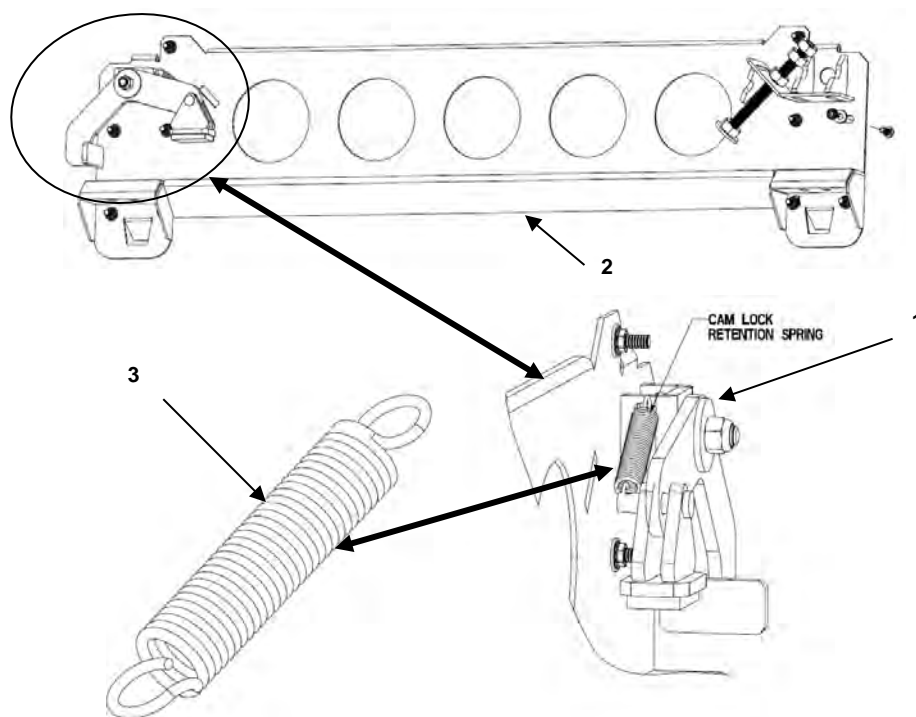


REPAIR

1. To repair the pallet ledge cam lock (1), the pallet ledge must be removed. To remove the pallet ledge (2) to be repaired, follow steps 1 through 4, refer to page WP 0027 00-1 to 00-2.
2. Remove the 1/2-inch x 5/8-inch cam shoulder bolt and 1/2-inch lock nut using a 1/4-inch Allen wrench and 9/16-inch socket and ratchet.
3. Detach spring from pallet ledge cam lock (3).
4. Attach new spring of the ledge cam lock assembly to the pallet ledge.
5. Reinstall pallet ledge (2), following steps 5 through 10. See page WP 0027 00-2.

REPLACE

6. Attach new cam lock assembly (1) to the pallet ledge (2) using the 1/4-inch Allen wrench and 9/16-inch socket and ratchet.
7. Reinstall pallet ledge (2), following steps 5 through 10. See page WP 0027 00-2.



END OF WORK PACKAGE

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UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3 BOH FPU Field Pack-up Units

REMOVABLE CRADLE (FPU-8-4 and 8 ft. compartment of the FPU-20-3)

INSPECT, SERVICE, REPLACE, REPAIR

INITIAL SETUP:

Material/Parts

None

Personnel Required

Two

Tools

General Mechanic's Tool Kit, MHE and lifting strap or sling

References

WP 0007 00

Equipment Condition

FPU SYSTEM Set-up

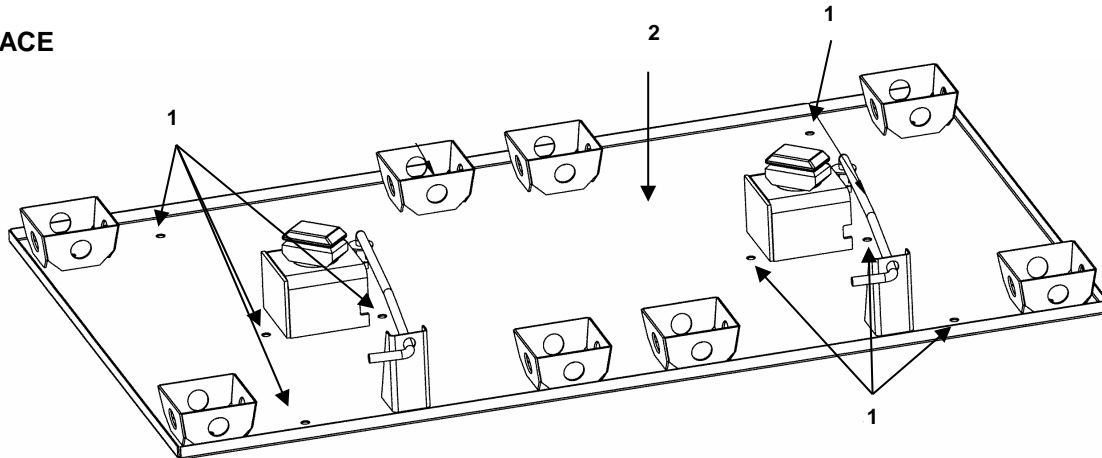
INSPECT

1. Inspect for dirt and debris that could affect performance.
2. Inspect for cracks at the point where the twist lock and module receptacles are welded to the adapter plate. Report to maintenance for repair.
3. Pull and push the lock handle to ensure locking devices operate correctly, refer to chapter 2 WP 0006 00-20.

SERVICE

Wipe and sweep surfaces as necessary to keep equipment clean.

REPLACE



1. Remove the modules, review chapter 2 WP 0007 00.
2. Remove twelve bolts (1) using 3/4-inch wrench.
3. Remove the Removable cradle (2) from the FPU-8-4 or FPU-20-3 using MHE with sling or strap.
4. Position replacement Removable cradle using MHE and sling or strap inside FPU-8-4 or FPU-20-3.
5. Replace twelve bolts using 3/4-inch wrench.
6. Replace both modules, refer to chapter 2 WP 0007 00.

REPAIR

1. Report cracks that may occur in corners, around mounting holes and bracket welds to maintenance.
2. Remove the removable cradle when necessary from the FPU-8-4 or FPU-20-3 to make weld repairs.
3. Remove the twelve $\frac{3}{4}$ " bolts with a wrench.
4. Remove the removable cradle from the FPU-8-4 or FPU-20-3 using MHE with sling or strap.

NOTE

Welding repairs are only required when the FPU SYSTEM container is pierced, punctured, or cracked. Standard welding principles and materials apply to FPU SYSTEM repairs. Welding procedures will not be discussed in this tech manual refer to TC 9-237

END OF WORK PACKAGE

UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3 BOH FPU Field Pack-up Units

FPU MODULE LOCK DEVICE (FPU-8-4 and 8 foot compartment of the FPU-20-3)

INSPECT, SERVICE, REPLACE, REPAIR

INITIAL SETUP:

Material/Parts

Lubricant (see Table 2 Lubrication in WP 0014)

Personnel Required

One

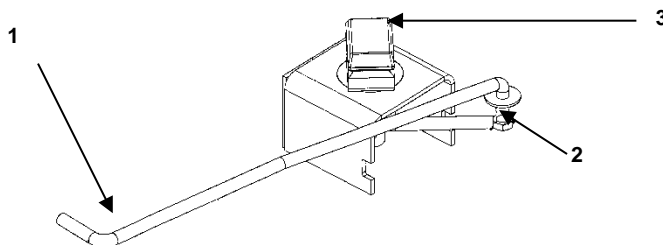
References

Chapter WP 0007 00-2 to 00-4.

Equipment Condition

FPU SYSTEM Set-up

INSPECT



1. Pull and push to check lock device (3) for smooth motion.
2. Inspect cotter pin (2) and handle operation.
3. Inspect weld for cracks, report weld cracks to maintenance.

SERVICE

1. Pull the Red handle ISO locking arm (1) out, into unlocked position.
2. Remove Module using appropriate MHE, lift module to clear cradles.
3. Lubricate moving parts.
4. Pick up module with drawers facing forklift.
5. Position module over cradles.
6. Lower module into cradles.
7. Push the Red handle ISO locking arm (1) into the locked position.

REPAIR

1. Remove and replace bent or damaged Red handle ISO Locking arm (1).

NOTE

Welding repairs are only required when the FPU SYSTEM container is pierced, punctured, or cracked. Standard welding principles and materials apply to FPU SYSTEM repairs. Welding procedures will not be discussed in this tech manual refer to TC 9-237

END OF WORK PACKAGE

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UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL (INCLUDING REPAIR PARTS & SPECIAL TOOL LIST) MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3 BOH FPU Field Pack-up Units

REAR ROLLER ASSEMBLY (FPU-8-4 and FPU-20-3)

INSPECT, SERVICE, REPLACE, REPAIR

INITIAL SETUP:

Materiel/Parts

Rags, Water

Personnel Required

Two plus Supervisor

Tools

General Mechanic's Tool Kit, MHE Support

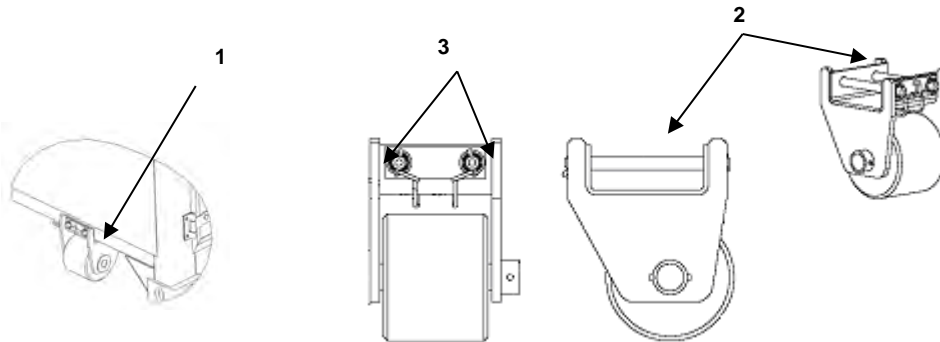
References

WP 0005 00-18 and 00-19

Equipment Condition

FPU SYSTEM Set-up (Rollers attached)

INSPECT



1. Inspect the rear roller assembly (1) for dirt/debris that would affect performance. Clean as required.
2. Inspect the rear roller assembly for the presence of connector pins (2) and Lynch pin retaining clips (3).

SERVICE

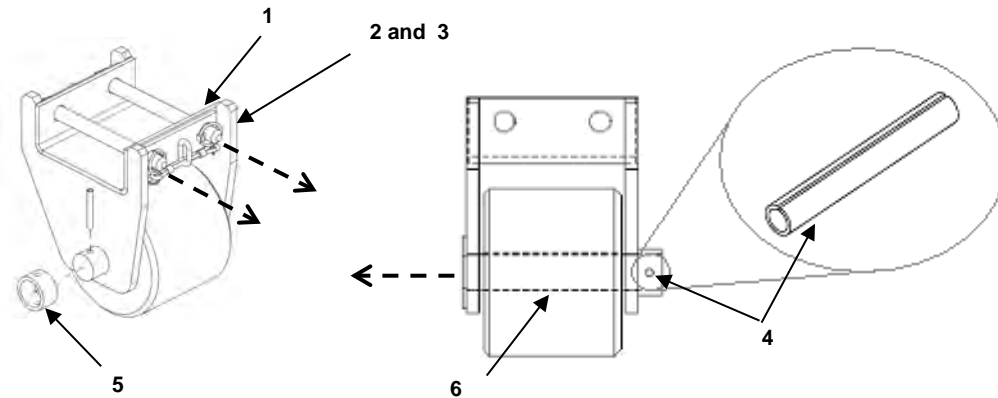
Remove debris from the roller assembly and clean with a wet rag.

REPLACE

1. Raise container by lifting with the HEMTT-LHS or properly rated MHE.
2. Remove the two 1/4-inch lynch pins from the rear of the rear roller assembly attaching pins.
3. While supporting the roller assembly, remove the 3/4-inch rear roller attaching pins, then remove the roller assembly.
4. Attach new rollers by aligning the holes in the rollers with the holes in the container and inserting 3/4-inch retention pins.

- Reattach the 1/4-inch lynch pins to the rear of the 3/4-inch rear roller attaching pins

REPAIR



- Elevate the container enough to remove with MHE support.
- Remove the roller assembly (1) from the FPU-8 and FPU-20, see chapter 2 WP 0005 00-18 and 00-19.
- Remove the Lynch Pins (2) and Frame Pins (3).
- Drive the roller pin (3) with a 5/16-inch flat punch, holding retaining collar to roller pin assembly.
- Remove retaining collar (4).
- Slide roller pin (4) from roller frame (1).
- Replace worn/broken or damaged parts.
- Apply lubrication, refer to chapter 4 WP 0014 Table 2.
- Reinsert roller pin (6).
- Reinsert the retaining collar (5) and secure with 5/16-inch rolled pin (4) with the hammer and flat punch.
- Position the roller assembly (1), insert the frame pins (3) and insert the lynch pins (2).

END OF WORK PACKAGE

UNIT MAINTENANCE INSTRUCTIONS

FPU® SYSTEMS OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
MODELS FPU-8-4/BOH-CARGO-12-3 & FPU-20-3
BOH FPU Field Pack-up Units

CONNECTOR KIT (FPU-8-4/BOH-CARGO-12-3)

INSPECT, SERVICE, REPLACE

INITIAL SETUP:**Materiel/Parts**

None

Personnel Required

Two (Plus one Supervisor)

Tools

General Mechanic's Tool Kit, Special Tools kit, Forklift and MHE Support

References

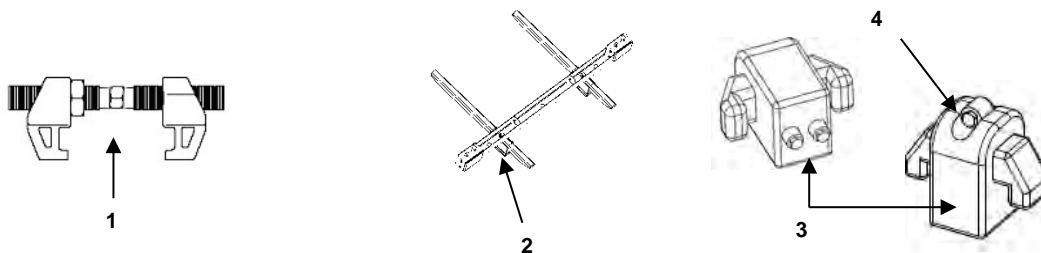
Chapter WP 0005 00

Equipment Condition

FPU-8-4/CARGO-12-3 SYSTEM Set-up

INSPECT**NOTE**

Bridge Locks (1), Load Rail Connector (2), and horizontal interconnector (3) do not apply to the FPU-20-3 container. Review Chapter 2 entire WP 0005.



1. Separate FPU SYSTEM containers per WP 0005 00.
2. Inspect Bridge Locks (1), Load Rail Connector (2), and horizontal interconnector (3) for lubrication and proper operation.

SERVICE

1. Clean using hot soapy water and lubricate the threads of the bridge locks (1), refer to chapter 4 Table 2 in WP 0014 00.
2. Clean using hot soapy water and lubricate bolt threads on horizontal interconnectors (3) lubricate the device via the lubrication plug (4), on the back side, refer to chapter 4 WP 0013 00 and WP 0014 00.
3. Clean using hot soapy water and lubricate transverse stabilizer tensioning blocks bolt threads, refer to chapter 4 WP 0013 00 and WP 0014 00.

4. Clean using hot soapy water and lubricate loading rail connectors, refer to chapter 4 WP 0013 00 and WP 0014 00.

Bridge Locks

1. Clean bridge lock threads using a degreaser.
2. Lubricate the threads of the bridge locks (1), refer to chapter 4 Table 2 in WP 0014 00.

Horizontal Interconnectors

1. Disassemble using 9/16-inch and 3/4-inch wrenches.
2. Thoroughly clean using a degreaser.
1. The horizontal interconnectors have operating threads and pivot points that must always be coated with waterproof grease to insure trouble-free operation. Completely fill the inside cavity of the interconnector with Molykote, refer to chapter 4 Table 2 in WP 0014 00.
3. Rotate drive studs until threads are full out.
4. Coat exposed threads with the same grease.
5. Move studs in and out a few times to evenly distribute grease.
6. In long-term exposure to corrosive environments, it is suggested the entire connection be covered externally to prevent the loss of interior lubricant.

Transverse Stabilizer

2. Clean using a degreaser.
3. Lubricate transverse stabilizer tensioning blocks bolt threads, refer to chapter 4 Table 2 in WP 0014 00.

Loading Rail Connector

1. Clean using soapy water.
2. Lubricate loading rail connectors, refer to chapter 4 Table 2 in WP 0014 00.

REPLACE

Connector components must be replaced if damaged. Remove and replace connector components, review entire WP 0005 00 in chapter 2.

END OF WORK PACKAGE