

CHAPTER 5
MAINTENANCE INSTRUCTIONS

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MAINTENANCE INSTRUCTIONS**BOH PDM PORTABLE DRAWER MODULE OPERATION MANUAL
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FOR 4 MODELS OF PDM MODULES
BOH FPU Field Pack/up Units****RIVET REPLACEMENT****INSPECT, REPAIR****INITIAL SETUP:****Materiel/Parts****Personnel Required**

One

Tools

Rags, 1/4 hp Electric Drill, Pop Rivet Tool, 3/16" drill bit

References

WP 0005 00

Equipment Condition

BOH PDM Drawer Repair

INSPECT

With drawers empty and open, inspect drawer handles, side, front and rear divider supports for loose damaged or missing rivets. Replace rivets as follows.

REPAIR OR REPLACE DRAWER RIVETS

1. Remove the entire contents of the drawer.

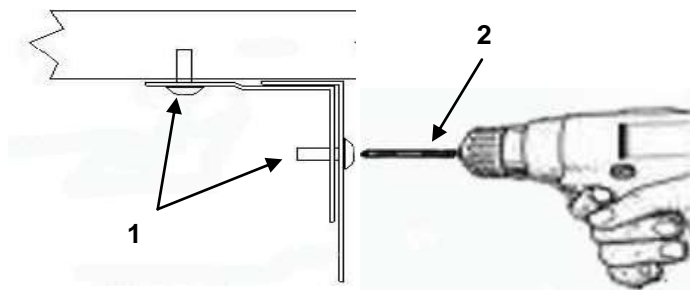
NOTE

In some instances the rivets may be removed without removing the drawer.

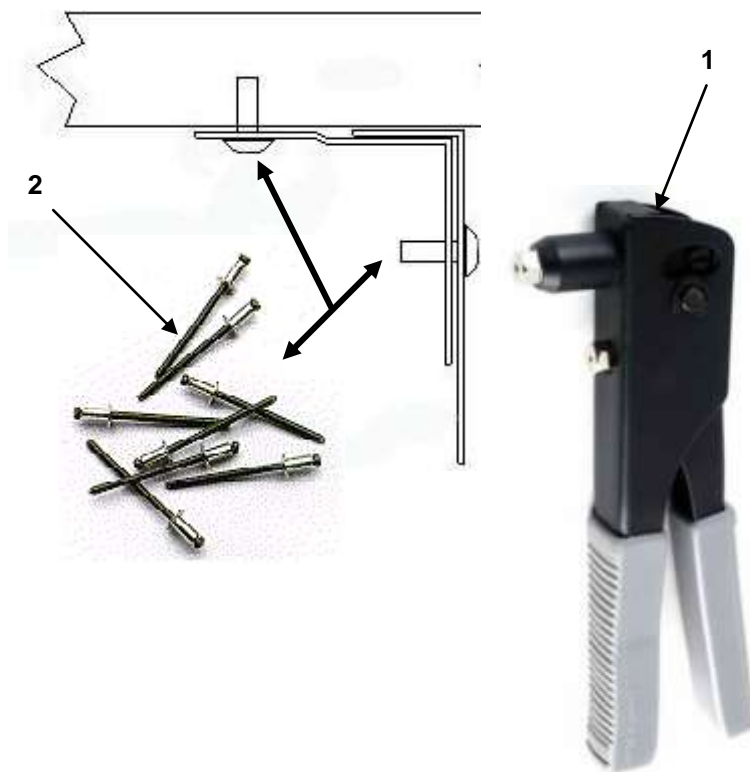
2. Remove the drawer from the tray assembly (WP00 05 00).
3. Wipe the rivet surfaces clean, use a 1/2 hp electric drill (1) with a 3/16" drill bit (2), and drill through the center core of the rivet (3).

**WARNING**

Use proper eye protection when operation a drill.



4. Remove the remainder of any pop rivet debris with needle nose pliers and wipe the hole clean with a rag.
5. Insure the holes properly are aligned.
6. Insert a new pop rivet, 3/16" DIA (2) through the holes of both items to be secure and into the pop rivet tool (1).
7. Use the pop rivet tool (1) to secure the pop rivet (2) and item in place.
8. Check for proper alignment and tight attachment of the item.
9. Return the Drawer to the tray assembly (Refer to WP0005 00).



END OF WORK PACKAGE

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(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FOR 4 MODELS OF PDM MODULES
BOH FPU Field Pack/up Units****DRAWER ASSEMBLY****INSPECT, REPAIR****INITIAL SETUP:****Materiel/Parts**

None

Personnel Required

One

References

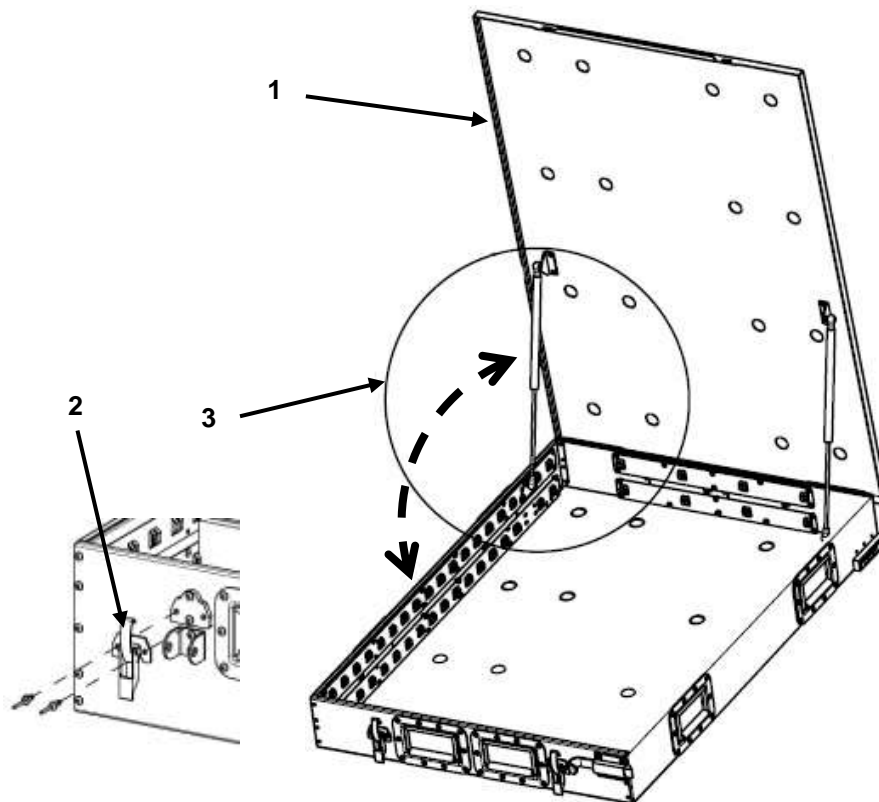
WP 0019

Equipment Condition

BOH PDM MODULES Set-up

INSPECT DRAWER ASSEMBLY

1. With the drawer pulled to the full extended position unlatch the drawer and raise the lid (1) to the full open position replace damaged hinge.
2. Check for missing or damaged drawer lid latches (2) replace as needed.

**END OF WORK PACKAGE**

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(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FOR 4 MODELS OF PDM MODULES
BOH FPU Field Pack/up Units****DRAWER LID SEALS AND CYLINDERS****INSPECT, REPAIR****INITIAL SETUP:****Materiel/Parts****Personnel Required**

One

Tools

Flat Tip Screwdriver, Putty Knife, Wire Brush and Rags

References

WP 0005 00 WP 0027 00-13

Equipment Condition

BOH PDM Drawer Repair

INSPECT AND REPLACE STRUT CYLINDERS AND LID SEALS**INSPECT**

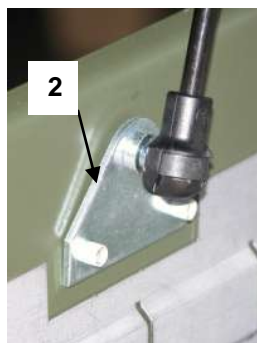
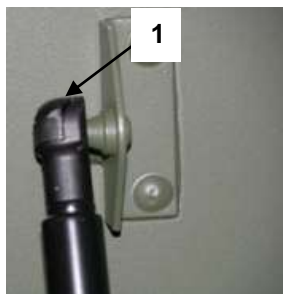
With the drawer lid in the fully open position, inspect the two strut cylinders for freedom of movement, proper support, bent or damaged shaft, or cylinder

NOTE

It is recommended that both strut cylinders be replaced as a set if damage or wear should occur (Refer to WP 0027 00-13).

**WARNING**

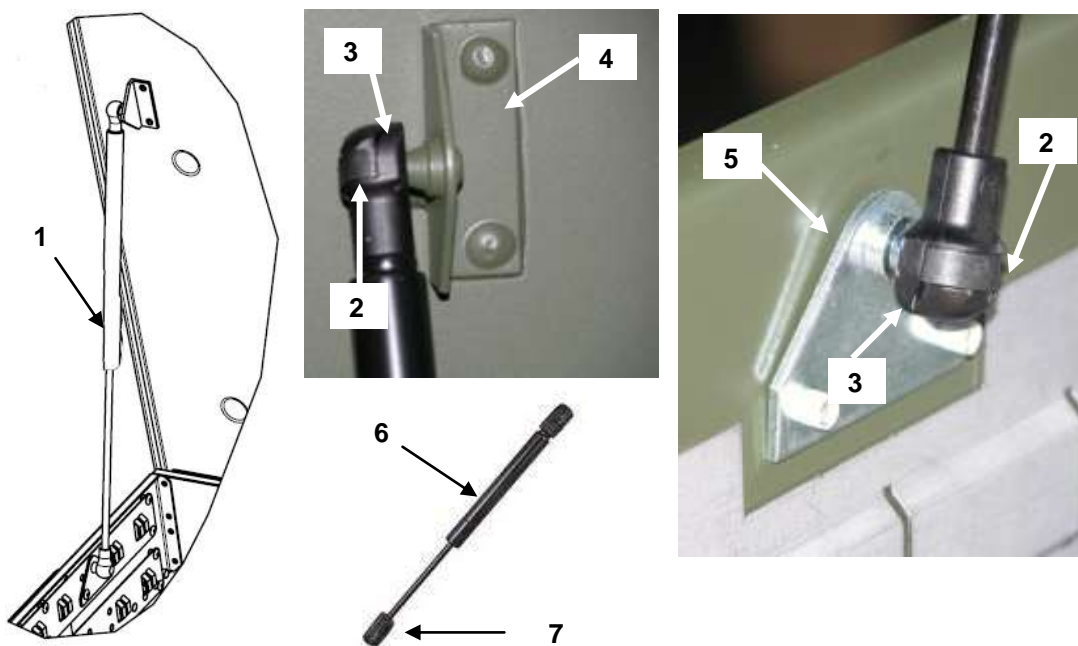
Missing or damaged retainer clips (1) or mounting brackets (2) will cause injury to personnel during operation of the drawer lid. Replace any damaged or missing items immediately.



NOTE

Only remove or replace one cylinder (1) at a time, to maintain strut support to the lid.

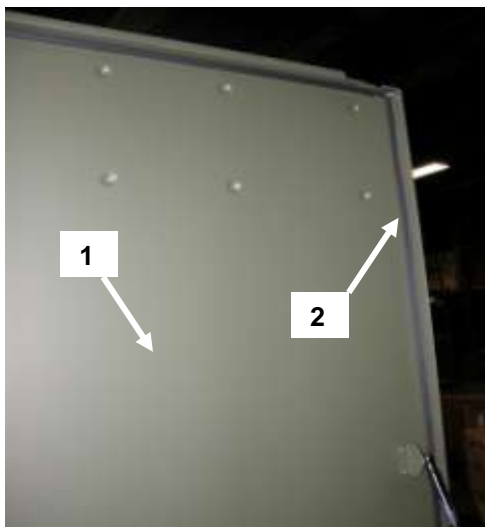
1. Pry the spring retainer clip (2) from the cylinder strut heads (3) with a flat tip screw driver or pocket knife.
2. Pull the cylinder head (3) away from the mounting bracket (5 and 6).
3. Replace the strut cylinder (1) both cylinder strut heads (3) and retaining clips (2) onto the mounting brackets (4 and 5).
4. Remove the second cylinder, retaining clips (2) and cylinder heads (3) from the brackets (4 and 5).
5. Replace the second cylinder (1), both cylinder strut head (3) and retaining clips (2).

**CAUTION**

Always replace the cylinders with the cylinder chamber end (6) attached to the lid bracket (4) and the shaft end (8) to the drawer bracket (5). The oil within the chamber (6) prevents premature wear of the cylinder seals.

INSPECT

With the drawer lid (1) in the fully open position, inspect the lid seal (2) for cracks, cuts and distortion or separation .

REPLACE DRAWER LID SEALS

1. Close the lid (1) and remove the drawer from the tray (refer to WP 0005 00).
2. Place drawer on a firm surface with the seal (2) up; remove the entire seal with a putty knife, pocket knife or other shape instrument.
3. Clean the remaining glue from the lid with a solvent and rag or wire brush.
4. Cut the seal to desired length and apply the self adhesive seal to a clean dry surface.

NOTE

The seal should be applied in its relaxed state and should not be stretched
(Refer to WP 0027 00-15).

5. After the seal is firmly set in place, visually inspect the seal (2) for tightness and alignment in the lid.
6. Return the drawer to the tray and return the drawer to the stowed position (refer to WP 0005 00).
7. Ensure the drawer lid latches and slam latch are secure (Refer to WP 0005 000).

END OF WORK PACKAGE

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(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)
FOR 4 MODELS OF PDM MODULES
BOH FPU Field Pack/up Units****TRAY and CASE ASSEMBLY****REPAIR, REPLACE**

INITIAL SETUP:**Material/Parts**

procedures

Personnel Required

Two to four

Tools

Welding shop equipment

ReferencesTM 9-237, Chapter 6 for welding
and WP0005 00**Equipment Condition**BOH PDM MODULE Repair

WELDING REPAIR**INSPECT**

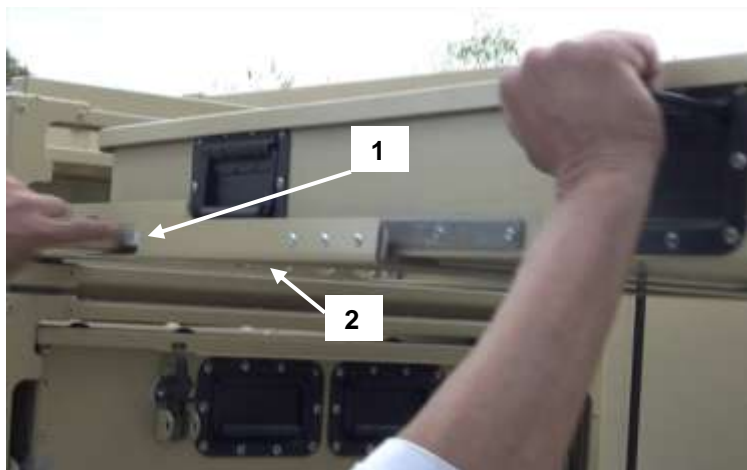
Welding repairs are only required when the BOH PDM MODULE tray and case assembly is pierced, punctured, cracked or broken. Standard welding principles and materials apply to BOH PDM MODULE repairs. Welding procedures will not be discussed in this manual. Refer to TM 9-237, Chapter 6 for welding procedures.

REPLACE OR REPAIR DRAWER TRAY AND CASE UNIT

1. Remove both ratchet straps (1) from the stack.
2. Remove all stored material from the drawer.



3. Release the drawer assembly (1) from the inner slide tray(2)



4. Remove the tray case assembly (3) from the stack to be repaired or replaced (Refer to WP 0005 00)



5. Make welding repairs or seek replacement of the tray case assembly (3).
6. Inspect the tray and case guide strips for damage replace as needed (Refer to WP 0027 00-27).
7. Install the new or repaired tray and case assembly on the stack. (Refer to WP 0005 00).
8. Reinstall both ratchet straps.
9. Pull out the tray, reinstall the drawer.
10. Ensure the slam latch is engaged

END OF WORK PACKAGE

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FOR 4 MODELS OF PDM MODULES
BOH FPU Field Pack/up Units****TRAY GUIDE and CASE PADS****REPLACE****INITIAL SETUP:****Material/Parts****Personnel Required**

Two to four

Tools

Rags, 1/2 hp Electric Drill, Pop Rivet Tool, 3/16" drill bit

References

WP 0005 00 WP 0019 and 0027 00-27

Equipment Condition

BOH PDM MODULE Repair

INSPECT

Inspect all sets of tray and case slide pads (1) for cracks, breaks, uneven or excessive wear that impedes smooth operation of the drawer.

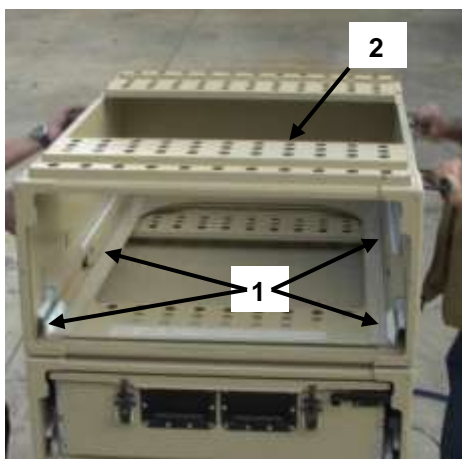
REPLACE TRAY AND CASE ASSEMBLY SLIDE PADS

1. Remove all material from the drawer.
2. Remove the drawer and tray assembly (2) from the module stack.

**WARNING**

Seek assistance to remove the drawer and tray and case assembly from the module stack.

3. Remove the drawer from the tray assembly (2) (Refer to WP005 00).



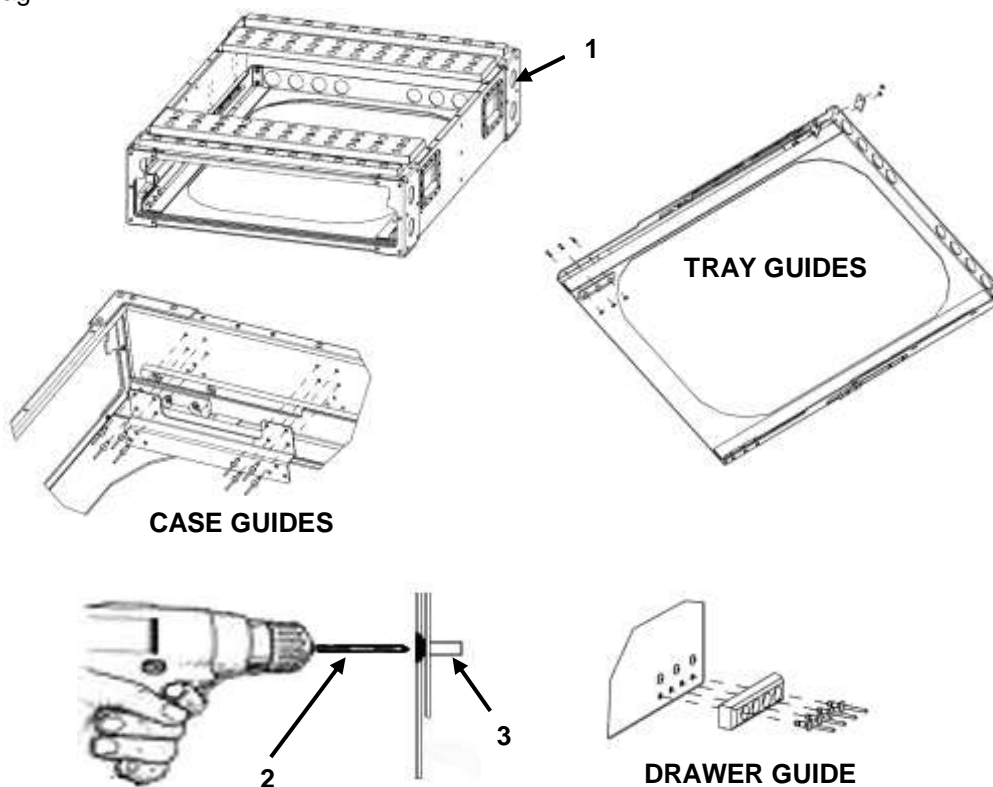
REMOVE RIVETS

1. Place the tray and case assembly (1) on a firm flat surface.
2. Wipe the rivet surfaces clean, use a 1/2 hp electric drill with a 3/16" drill bit (2), and drill through the center core of the pop rivets (3).
3. Replace the entire set of guides if they are damaged or worn (Refer to WP 0027 00-27).

**WARNING**

Use proper eye protection when operation a drill.

4. Remove the remainder of any rivet debris with needle nose pliers and wipe the hole clean with a rag.

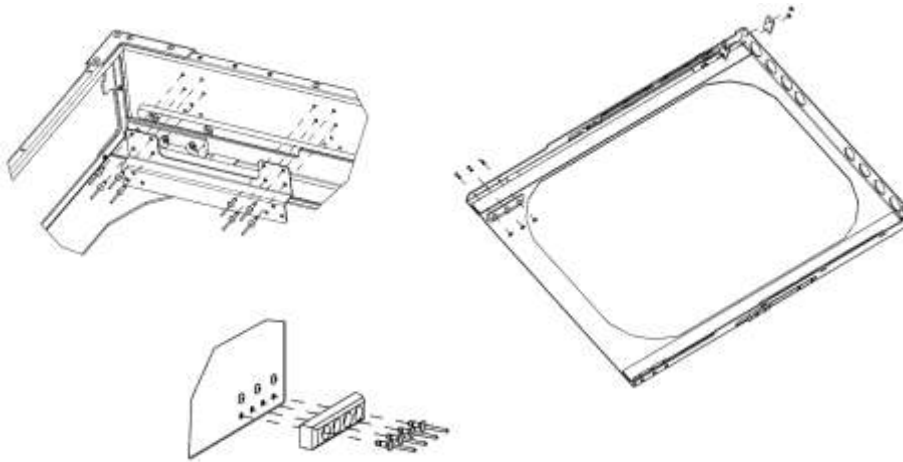


INSTALL NEW PADS

5. Insure the replacement slide pad holes properly are aligned with the tray and case holes

CAUTION

Do not drill new holes for alignment; the holes provided are matched for proper alignment.

**CAUTION**

Never use other than the proper rivets to attach the slide pads.

6. Insert a new rivet 3/16" DIA, rivet shank (1) through the holes of both items to be secured with the pop rivet tool (2).
7. Use the pop rivet tool (2) to secure the rivet (1) and replacement slide pad in place.

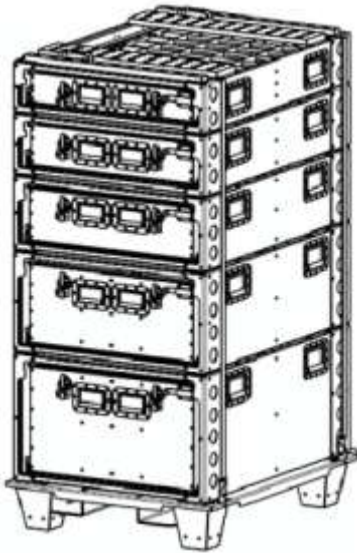


8. Check for proper alignment and tight attachment of the slide pads.
9. Return the tray and case assembly to the stack.
10. Install and tighten the front and rear ratchet straps to the stack.
11. Return the drawer and tray assembly (Refer to WP0005 00)



WARNING

Seek assistance to return the drawer, tray and case assembly to the module stack.



END OF WORK PACKAGE