

**CHAPTER 4**  
**OPERATOR MAINTENANCE INSTRUCTIONS**

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**OPERATOR 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****SERVICE UPON RECEIPT**

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

None

**References**

WP 0005 00, WP 0009 00,

**Personnel Required**

One

**Equipment Condition**BOH PDM MODULE Unpack

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**SERVICE UPON RECEIPT**

Upon receipt of the BOH PDM MODULE, ensure all components are in proper working order. Note the following requirements.

**Unpacking**

The BOH PDM MODULE containers are shipped with all components and equipment packed inside the drawers. To unpack upon receipt, set up the BOH PDM MODULE as described in (WP 0005 00)

**END OF WORK PACKAGE**

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## OPERATOR 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

#### INTRODUCTION TO PREVENTATIVE MAINTENANCE CHECKS & SERVICES (PMCS)

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

None

**Personnel Required**

One

**References**

None

**Equipment Condition**

BOH PDM MODULE Set-up

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#### INTRODUCTION TO PREVENTATIVE MAINTENANCE CHECKS & SERVICES (PMCS)

Preventive Maintenance Checks and Services (PMCS) are performed to keep the FPU System containers in good operating condition. These checks aid in finding, correcting, or reporting problems. Operator personnel are to perform the PMCS tasks as shown in the PMCS table.

Perform PMCS procedures each day the BOH PDM MODULE is in operation, using the PMCS table in WP 0016 00. There are different intervals to perform PMCS procedures: before, during and after using the equipment, as well as weekly and monthly. Look at the table carefully to identify the required PMCS interval.

Perform all checks and services keeping in mind the following guidelines:

- Before you begin using the BOH PDM MODULE , do **Before Operation PMCS**
- While the BOH PDM MODULE is in use, do **During Operation PMCS**
- After using the BOH PDM MODULE , do **After Operation PMCS**

If you find something wrong when performing PMCS, fix it using troubleshooting and/or maintenance procedures. Pay attention to WARNING and CAUTION statements. A **WARNING** means someone could be injured. A **CAUTION** means equipment could be damaged.

If tools that are required to perform PMCS are not listed in the procedures, notify your supervisor.

**Inspection**

Look for signs of trouble. Use your senses to feel, smell, hear, or see problems that may exist. Inspect to see if items are in good condition. Are components correctly installed and secured? Is any damage to the frame or components visible? Correct any faults or notify Unit Maintenance.

**Associated Components**

There are some common items to check on the FPU SYSTEM and associated equipment. These include the following:

- Condition and proper connection of ratchet straps.
- Condition and proper connection of the forklift base plate

**Service**

Proper service of the BOH PDM MODULE and components is an integral part of maintenance. Regular cleaning prevents possible problems in the future, so make it a habit to clean the BOH PDM MODULE and components whenever necessary.

**END OF WORK PACKAGE**

## OPERATOR 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

#### PMCS TABLE

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

Rags, Water

**Personnel Required**

One to four

**References**

None

**Equipment Condition**

BOH PDM MODULE Set-up

**Table 1 Preventive Maintenance Checks and Services for the BOH PDM MODULE  
PMCS B (Before), D (During), A (After), W (Weekly), M (Monthly)**

	B	D	A	W	M	Inspection Item and Procedure	Equipment Not Ready/Available If
1	*		*	*		<b>RACHET STRAPS</b> Check for missing ratchet straps. Each module should have two ratchet straps. Check ratchet straps for tares, frays, discoloration. This will indicate failure of the strap. Check ratchet strap hook and ratchet for proper operation. Replace as needed.	<b>WARNING</b> Missing ratchet strap will cause damage or injury. Failure of straps, ratchets or hooks will cause damage or injury. See WP 00 006 00
2	*		*			<b>MODULE TRAYS AND CASES</b> Check all frames for cracks, dents, holes, or loose/missing hardware. Check frame latches for freedom of operation. Check spring for distortion. Check for accumulations of dirt, debris, ice, snow, or salt. Clean as required. Replace missing or damaged hardware.	weld crack damage will cause malfunction and hazard or injury.
3					*	Lubricate hinges, latches, as required.	
4	*		*	*		<b>DRAWER Exterior</b> Check all exterior surfaces for cracks, dents that effect the operation of the module system. Check drawer hinge weld for cracks or distortion. Check drawer latches for freedom of operation. Check for loose rivets. Check for accumulations of dirt, debris, ice, snow, or salt. Clean as required.	Damage that would cause malfunction of the module system or cause hazard or injury.

	B	D	A	W	M	Inspection Item and Procedure	Equipment Not Ready/Available If
5	*	*	*	*		<b>DRAWER Interior</b> Check drawer for dirt and debris. Clean with a brush or rags as required. Check cutout drawer dividers at the struts for proper position. Check all drawer dividers for dents, bends or distortion. Check for missing or bent or distorted center dividers. Replace dividers if needed. Check strut cylinders for freedom of operation, bent or damaged shaft, missing cylinder head retention clips. Replace as necessary.	Failure to position the cutout dividers will impede the operation of the drawer and/or damage the lid or struts. Damaged strut cylinders will render the lid inoperable See WP 0005 00
6	*		*		*	<b>Drawer Seal</b> Check drawer seals for cuts, cracks, distortion, proper alignment and attachment. Reattach with proper glue or replace if necessary. Check for moisture on or in material.	Failure of the seal will allow water and moisture to enter the drawer and damage the stored material in the drawer. See WP 00050 00
7	*		*		*	<b>Attachment Rivets</b> Check for missing or loose attachment rivets on drawer handles, drawer latches, side, front and rear drawer dividers and all frame bearing guide pads. Schedule shop replacement if necessary.	Loose or missing rivets will impede the operation and may cause injury or damage. See WP 0019 00
8	*		*		*	<b>Forklift Base Plate</b> Check for weld cracks, bends, dents or frame distortion. Check tie-down rings for weld cracks, breaks or distortion. Replace or schedule weld shop repair if needed.	Failure to repair welds or tie-down rings will cause damage or injury. WP 0005 00
9			*		*	<b>Data Plates</b> Check plates for legibility, damage and/or missing. Clean with water and rag. Replace as needed. WP??	N/A

**END OF WORK PACKAGE**

## OPERATOR 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

#### CLEANING AND LUBRICATING

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

Rags, Water, Detergent

**Personnel Required**

One

**References**

None

**Equipment Condition**

BOH PDM MODULE Set-up

**CLEANING AND LUBRICATING**

Cleaning and Lubricating of the BOH PDM MODULES is performed to keep the module and its associated equipment in good operating condition. The cleaning and lubrication of the module can be conducted along with the Preventive Maintenance Checks and Services (PMCS) procedures described in WP 0016 00. Specific areas described below need to be cleaned after an operational event or periodically if stored/staged outside of a fixed facility to keep the modules, and accessories performing as designed. Cleaning also assists in maintaining the condition of the materiel stored within the system. Any damage discovered when cleaning and/or lubricating that cannot be corrected using the troubleshooting procedures described in WP 0013 00 should be reported for corrective maintenance.

**Table 1 Cleaning**

<b>SURFACE</b>	<b>OIL/GREASE</b>	<b>SALT/MUD/DIRT DEBRIS</b>	<b>RUST/CORROSION</b>
Exterior and Interior surfaces (All)	Detergent, Water, Rags	Soapy Water, Brush, Rags	Corrosion Removal Compound and Wire Brush, Dry Rag, Coat with Lube Oil or Spot Paint
Seals and Gaskets	Damp and Dry Rags	Damp and Dry Rags	N/A
Module Trays and Cases, Drawer handles, latches	Detergent, Water, Rags	Soapy Water, Brush, Rags	Corrosion Removal Compound and Wire Brush, Dry Rags, Coat with Lube Oil or Spot Paint
Drawer Hinges, Module Frames and Forklift Base Plate	Detergent, Water, Rags	Brush, Rag and lubricate as needed to ensure rollers travel freely	Corrosion Removal Compound and Wire Brush, Dry Rags and Lubricate s needed
Guide Pads	Detergent, Water, Rags	Damp and Dry Rags	N/A
Drawer Lid Strut Cylinders Shaft	Detergent, Water, Rags	Damp and Dry Rags	Corrosion Removal Compound, Dry Rags, Coat with light oil, or silicon Spray
Drawer Lid Strut Cylinders Body and End Connectors	Detergent, Water, Rags	Damp and Dry Rags	Corrosion Removal Compound and Wire Brush, Dry Rags, Coat with Lube Oil or Spot Paint
Ratchet Straps	Detergent, Water, Rags	Damp and Dry Rags	N/A

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BOH FPU Field Pack/up Units

**INSPECT**

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

None

**Personnel Required**

One

**References**

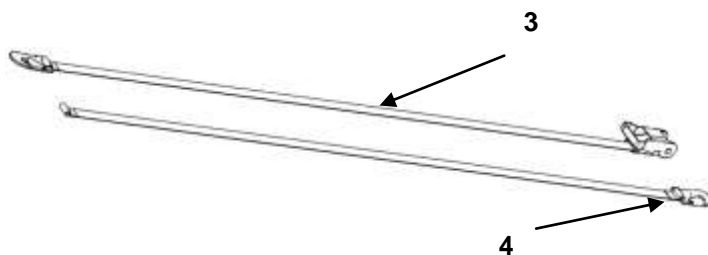
WP 0005 00-5 and 00-6

**Equipment Condition**BOH PDM MODULES Set-up

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**INSPECT RATCHET STRAPS**

1. Check for missing ratchet straps (1). Check straps (2) for cuts, wear, frays and discoloration.
2. Check for proper tension of straps and hooks (3) for proper connection to the forklift base plate .
3. Check hook latch (4) for distortion or damage



**WARNING**

Ratchet Straps (2) that have cuts, frays, signs of wear and discoloration are indicates weakness and the entire ratchet strap should be replaced immediately. Failure to replace could cause injury to personnel. Ratchet straps should be secure and tensioned for smooth, stable, safe operation of the module.

**END OF WORK PACKAGE**

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BOH FPU Field Pack/up Units**

**INSPECT**

**INITIAL SETUP:**

**Materiel/Parts**

None

**Personnel Required**

One

**References**

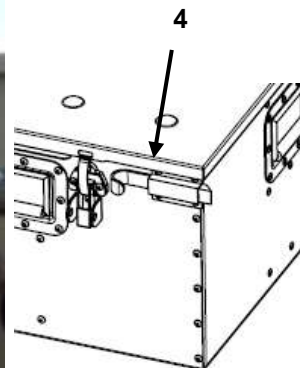
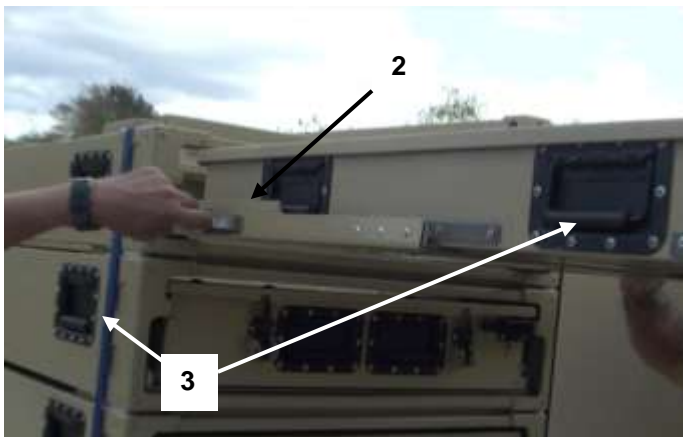
WP 005 00

**Equipment Condition**

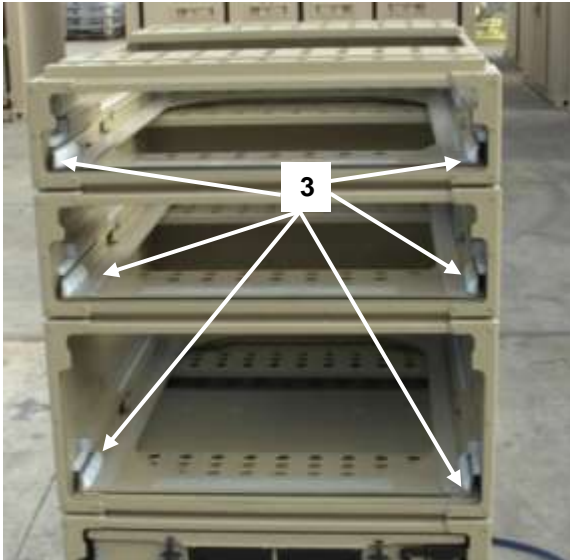
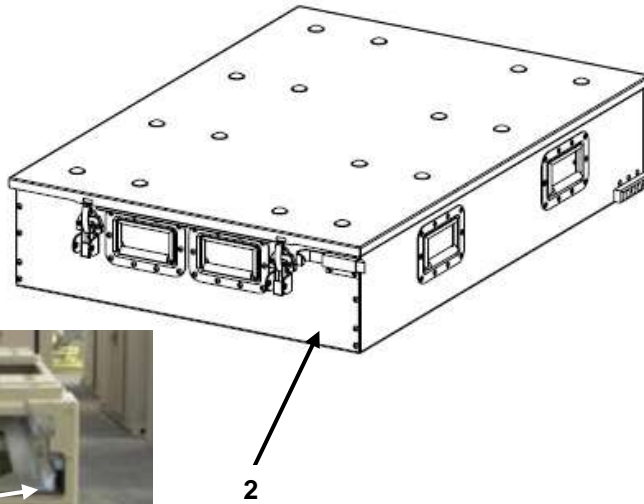
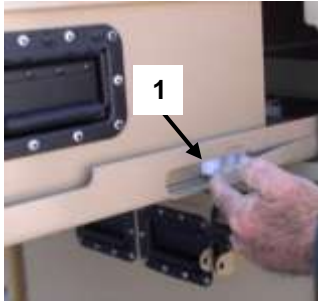
BOH PDM MODULES Set-up

**INSPECT LATCHES AND HANDLES**

1. Check for missing or damaged ratchet straps, front and rear (1)
2. Check drawer release operation (2).
3. Check for missing or damaged drawer handles and case handles (3).
4. Check slam latch damage and operation (4).



5. Release and pull out the drawer by the handles to the full extended position.
6. Check drawer try release (1).
7. Remove the drawer (2).
8. Check for missing or damaged guide strips (3).
9. Check for external damage dents or holes to the drawer (2).



**WARNING**

Missing or damaged latches will cause injury to personnel during operation or movement of the module. Notify maintenance of any missing parts, damage or problems with operation of latches or handles. Repair or replace missing or damage latches or handles immediately.

**END OF WORK PACKAGE**

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**INSPECT**

**INITIAL SETUP:**

**Materiel/Parts**

None

**Personnel Required**

One

**References**

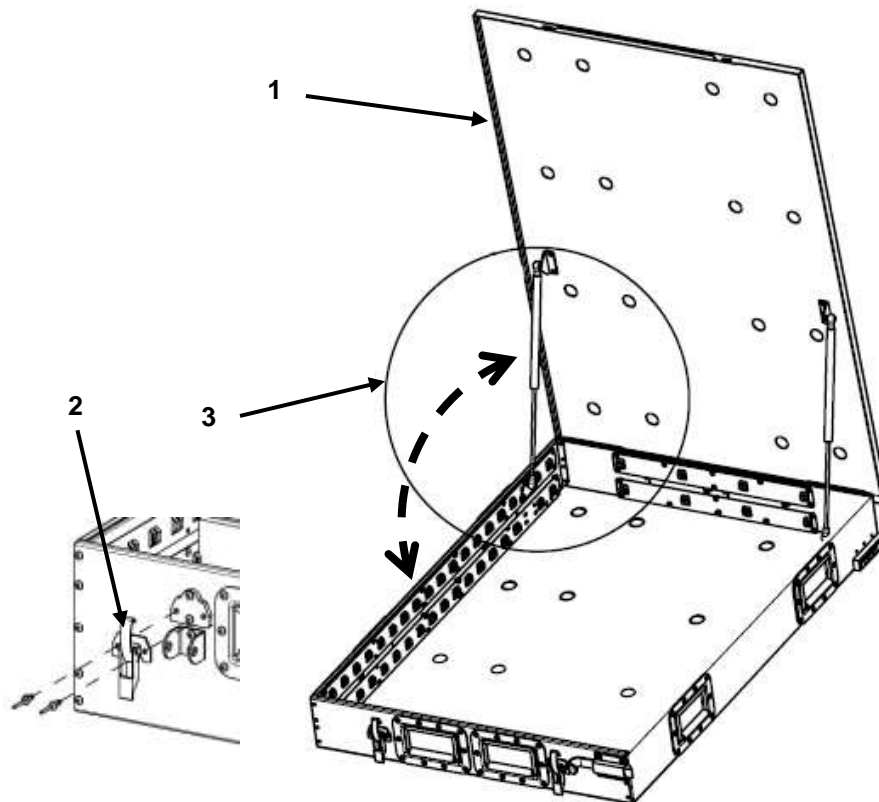
WP 0007 00

**Equipment Condition**

BOH PDM MODULES Set-up

**INSPECT DRAWER ASSEMBLY**

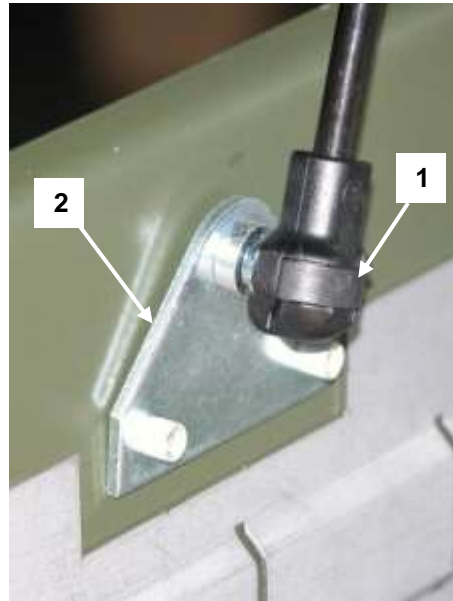
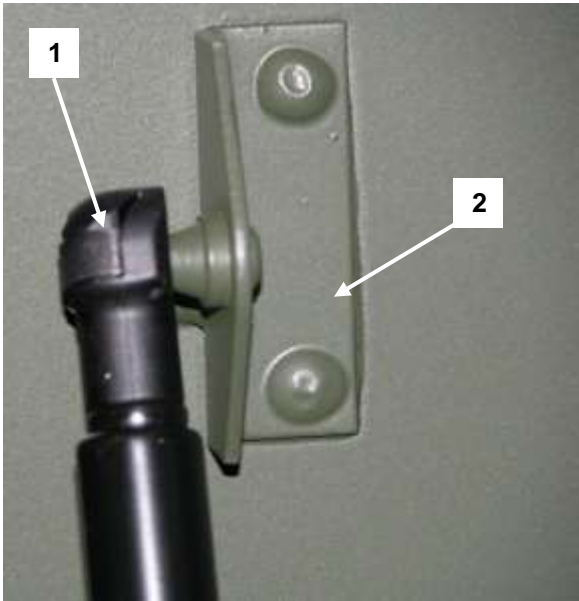
1. With the drawer pulled to the full extended position unlatch the drawer and raise the lid (1) to the full open position.
2. Check for missing or damaged drawer lid latches (2).



3. Check for missing or damaged strut cylinders (3).

**INSPECT****DRAWER STRUT CYLINDERS**

4. Check for missing or damaged cylinder head retainer clips (1) and mounting brackets at each end of the two cylinders.

**WARNING**

Missing or damaged retainer clips (1) or mounting brackets (2) will cause injury to personnel during operation of the drawer lid. Notify maintenance of any missing, damaged or problems with operation of lid or cylinders. Repair or replace missing or damage retainers or cylinders immediately.

**INSPECT****DRAWER LID SEALS**

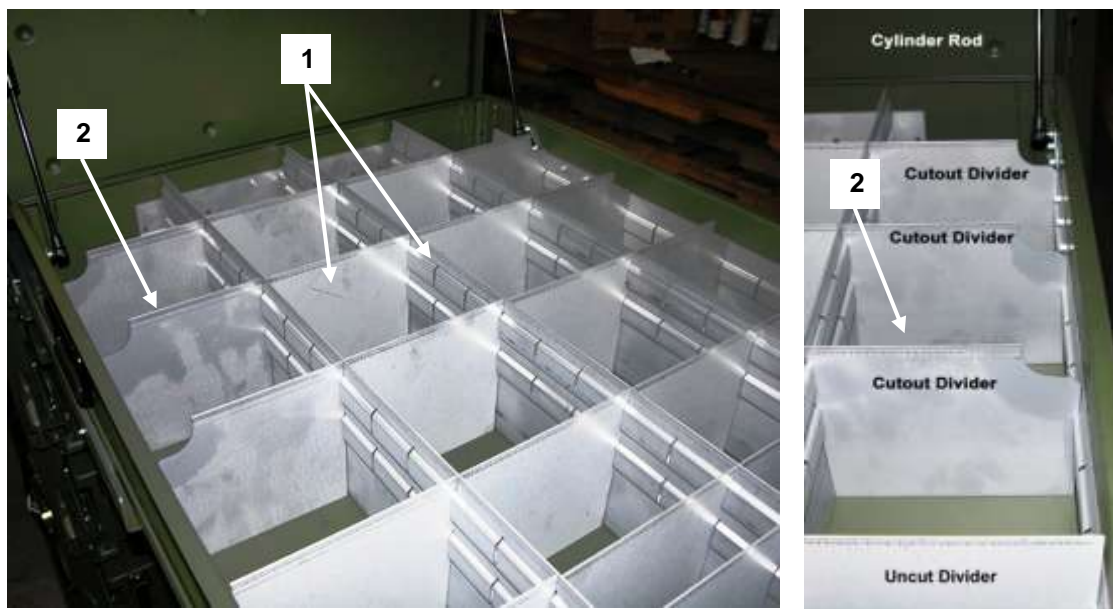
5. Check for missing or damaged continuous lid seal (1).
6. Check for cracks, distortion, and complete attachment.

**CAUTION**

Damaged, deteriorated, or missing seals will diminish the water tight and moisture integrity of the drawer.

**INSPECT****DRAWER DIVIDERS**

10. Check for missing or damaged drawer dividers (1).
11. Check for dirt debris or parts under the dividers (1).
12. Check location of left and right cutout dividers (2) for their position within the first eight slots of the side divider supports.

**END OF WORK PACKAGE**