

**BOH SOLUTIONS OPERATION MANUAL  
BOH MULTI-PLATFORM MODULE (MPM)  
(INCLUDING REPAIR PARTS & SPECIAL TOOL LIST)**

**CHAPTER 2  
OPERATOR INSTRUCTIONS**

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**OPERATOR INSTRUCTIONS  
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**PREPARATION FOR MOVEMENT**

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**PREPARATION FOR MOVEMENT**

This work package provides step-by-step instructions for the download, set-up and moving of the MPM.

**WARNING**



If a Module is dropped during transit movement of any kind, extreme care should be taken when opening the doors to preclude material from falling on and injuring personnel.

**Site Requirements**

**WARNING**



Modules must be operated on level ground. To maintain control, consider the ground surface conditions for adequate traction, such as mud, snow, ice and sand.

**CAUTION**

Flood plain conditions should be considered for MPM. Although the drawers are water resistant, the operation of the MPM would be impaired in a flooding condition. If in doubt, consult the operations supervisor or commander.

## PREPARING MPM MODULES FOR USE

Once downloaded from the truck, trailer or other transport vehicle, the MPM is ready for immediate use in most circumstances.

### **WARNING**



The MPM is designed for a ground-based operation. Never attempt to access the MPM or the drawers when the MPM is on any transporting equipment, without a safe-footing established area. Always establish a safe footing operational site.

### **WARNING**



Overhead power lines and obstructions can cause serious injury, death or damage to property. Forklift operators, truck drivers and ground guides should always clear overhead when loading or unloading the MPM.

### **CAUTION**

**The stored material in any single drawer should not exceed 100 lbs.**

MPM Component	Tare Weight	Net (Cargo) Weight	Max Gross Weight
4" Case	56 lbs.	145 lbs.	201 lbs.
4" Drawer	45 lbs.	100 lbs.	145 lbs.
6" Case	59 lbs.	152 lbs.	211 lbs.
6" Drawer	52 lbs.	100 lbs.	152 lbs.
8" Case	64 lbs.	154 lbs.	218 lbs.
8" Drawer	54 lbs.	100 lbs.	154 lbs.
10" Case	69 lbs.	161 lbs.	230 lbs.
10" Drawer	61 lbs.	100 lbs.	161 lbs.
12" Case	73 lbs.	162 lbs.	235 lbs.
12" Drawer	62 lbs.	100 lbs.	162 lbs.
16" Case	82 lbs.	170 lbs.	252 lbs.
16" Drawer	70 lbs.	100 lbs.	170 lbs.
Bulk Drawer	32 lbs.	100 lbs.	132 lbs.
Adapter	125 lbs.	--	--
Hood	13 lbs.	--	--

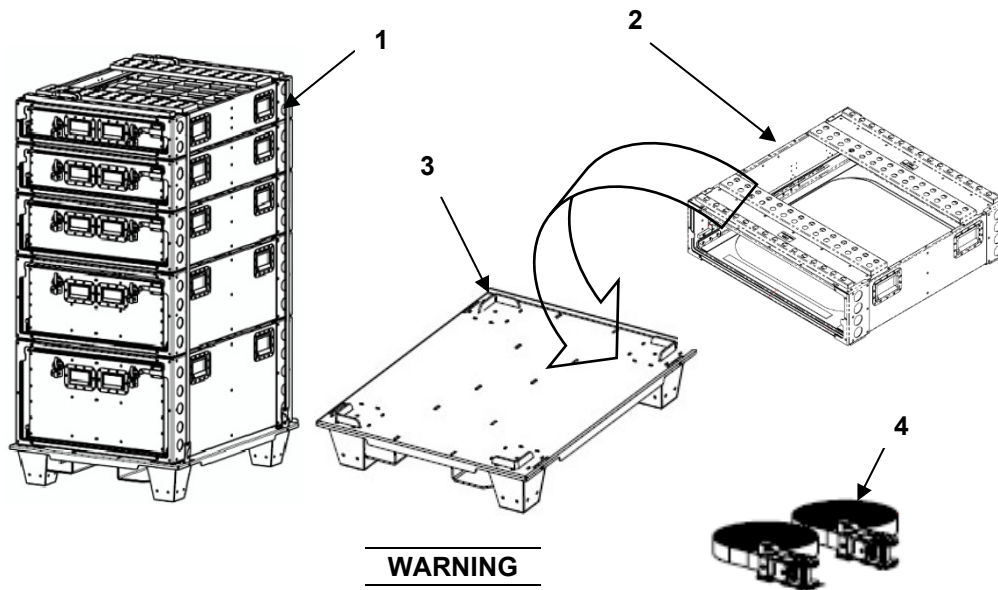
## END OF WORK PACKAGE

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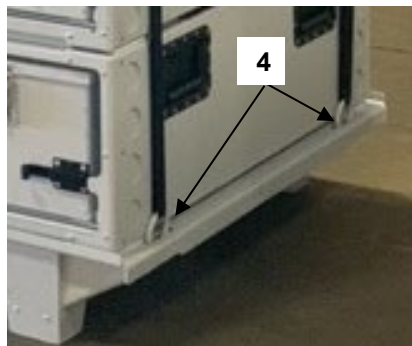
**STACKING PROCEDURE**

**STACKING PROCEDURE**

1. To assemble the MPM (1), remove the drawers and lift an empty case and tray assembly (2), with assistance of another personnel, onto the base plate (3).



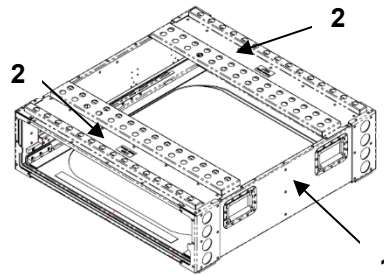
A tilt hazard will occur when the top drawers are loaded with material and extended without any weight on the bottom drawers. Always ensure the ratchet straps (4) are tight and secure and seated in the base (3) before proceeding to the next step. Always load the MPM Module drawers from the bottom up and unload from the top down. Failure to follow this procedure may cause tipping of the module and injury to personnel.



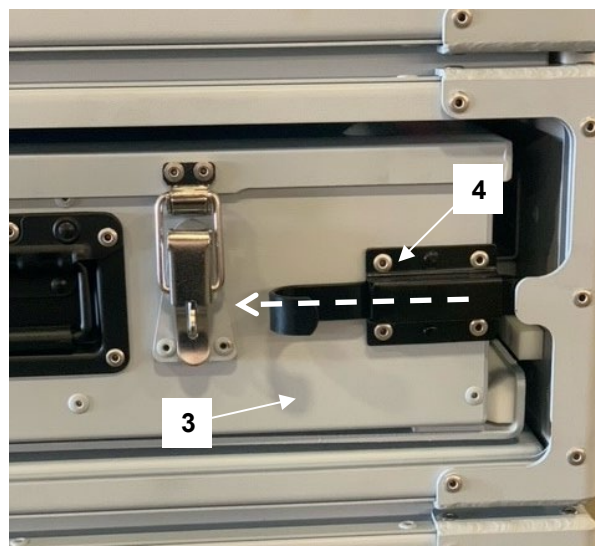
2. The case and tray assemblies (1) should be stacked with the drawers removed.
3. The MPM case and tray assemblies (1) will mate and firmly interlock when stacked, by means of the frame channels (2). Check for movement before proceeding to the next step.

**WARNING**

The case and tray assemblies (1) should be stacked with the drawers (3) empty and removed. It is recommended that each drawer (3) be empty before inserted into the trays, with assistance from additional personnel. A single person should not attempt to install drawers (3) without assistance.

**Removing the drawers**

1. Pull the slam latch (4) on the left side to release the drawer (3) while pulling the drawer (3) outward.



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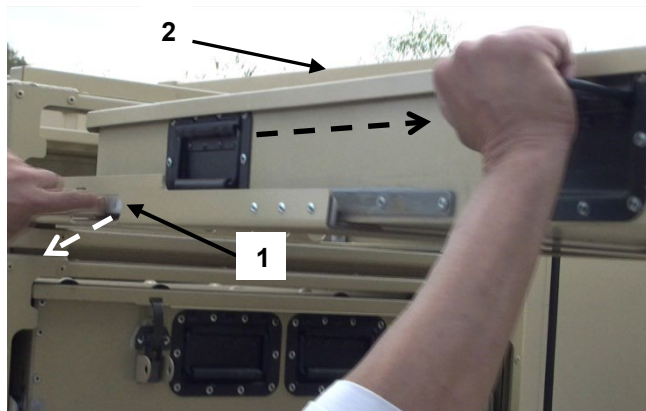
**WARNING**


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When pulling the drawer to its fully extended position, ensure there is no damage to the drawer tray latch or drawer guides (1). Should these parts become damaged, the drawer may bypass the tray latch causing serious injury. See PMCS table in WP 0014.

2. Remove the drawer by pulling the left and right drawer tray latches (1) outward and slide the drawer (2) and tray forward until clear of the latches (1).
3. Lift the drawer (1) from the tray.
4. Stack the drawers (2) and return the tray to the fully in position.



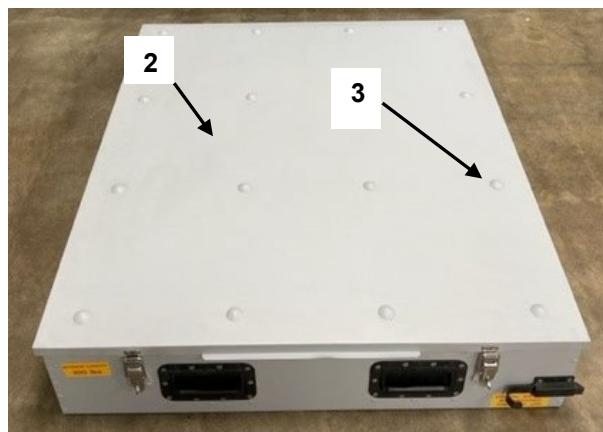

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**WARNING**


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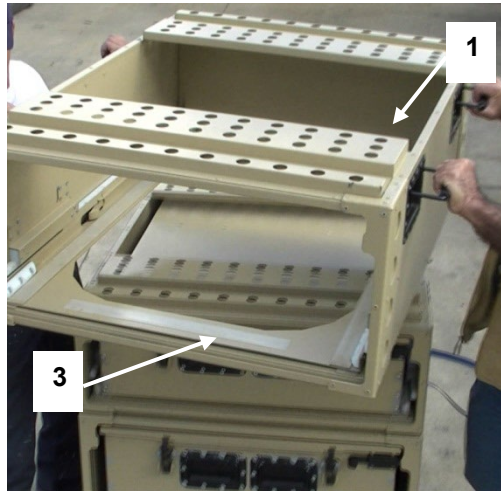


Stack the drawers and ensure the drawer dimples (3) on the lid and bottom mate so that the drawers do not slide off each other; injury may result.



5. Once the drawers (2) have been removed from the MPM case and tray assembly, the case and trays may be arranged in the desired order.

### Stacking

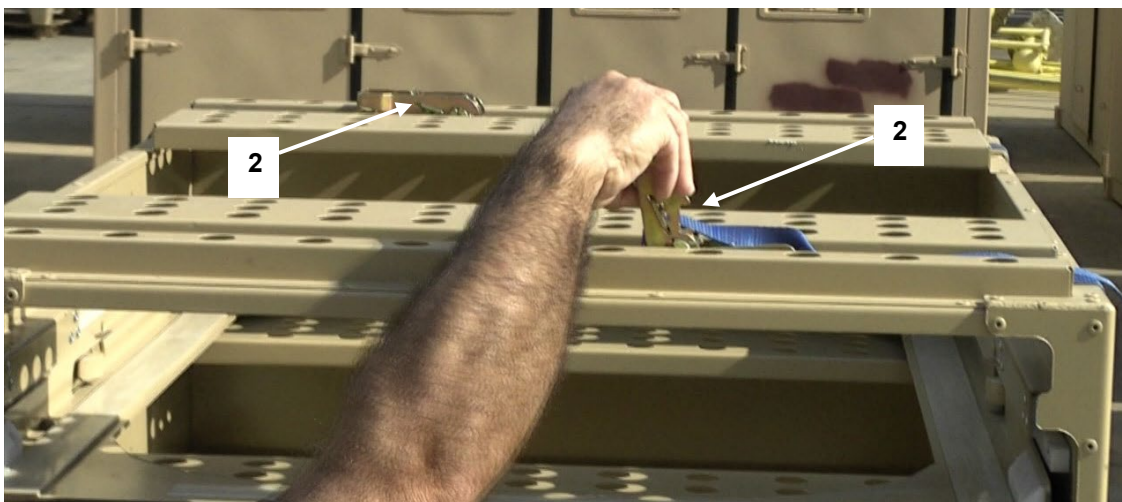


### WARNING



It is recommended that the largest case and tray assemblies (1) be stacked on the bottom to create a stable MPM module. When a drawer is removed, push the tray (3) back into the case to avoid injury.

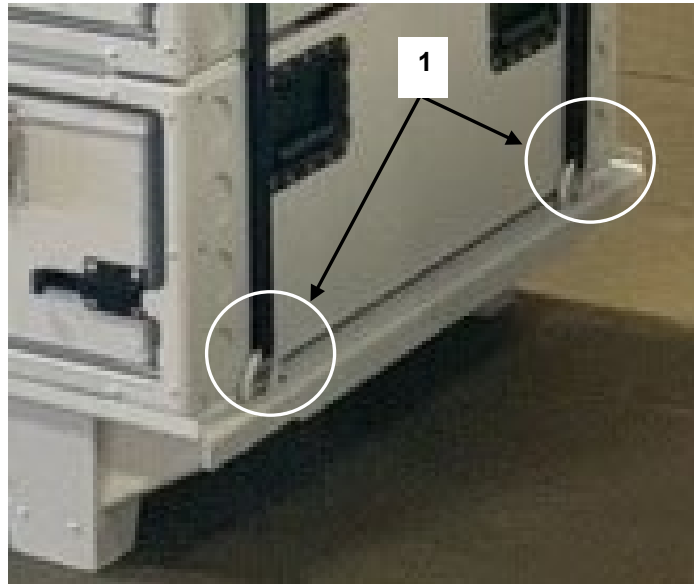
6. Once the MPM case and trays (1) have been stacked, install the front and rear ratchet straps (2) in the grooves on the top.





## RATCHET STRAP INSTRUCTIONS

1. Feed the endless ratchet strap through the adapter tiedown ring (1) on one side of the MPM stack.
2. Then pull the strap up and over to the other side of the MPM stack using the channels (see "STRAP HERE ONLY" labels) found on the top of the upper case.
3. The strap is then fed through the opposite tiedown ring and back up to the ratchet assembly which should be positioned on the top of the upper case.

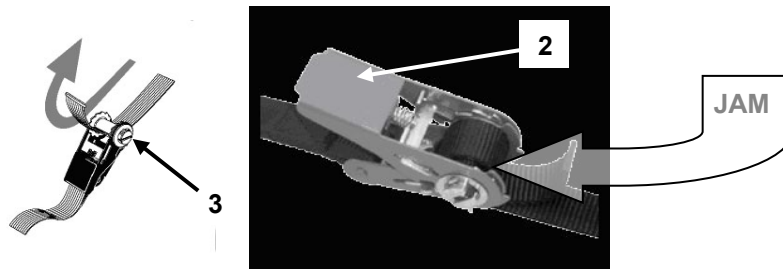


### WARNING

You must check all straps for proper threading and tension. Refer to these instructions for each strap. Failure to do so will cause damage or injury.

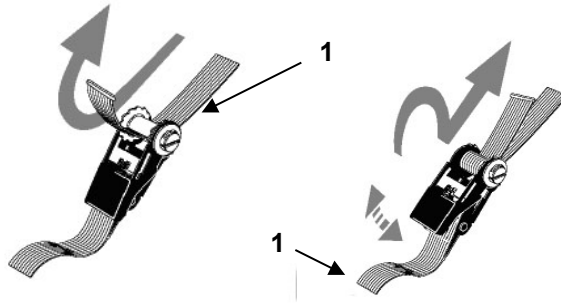
### CAUTION

Do not operate the ratchet handle (2) until all the slack is taken up or the strap will ball up and jam against the release lever. Do not overtighten the straps; this could cause damage to the straps or hooks (1).

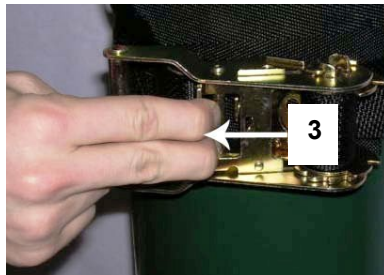
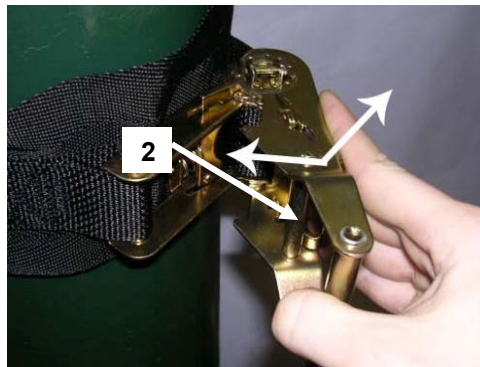


4. Feed the end of the strap through the ratchet barrel slot (3).

5. Take up the excess strap slack until the strap is snug (1).



6. Tighten the strap with the ratchet handle (2) until the strap slack is firmly tight.



7. To adjust or release the ratchet strap, use the release lever (3) and retighten.
8. Perform the same procedure for the rear strap area of the MPM stack using the second ratchet strap assembly provided.

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**TRANSPORTING THE MPM MODULE**

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**CAUTION**

The MPM forklift base plate should not exceed a maximum stack height of 75". The MPM and stored material will not be readily accessible, and the unit may present a tip hazard if stacked higher.



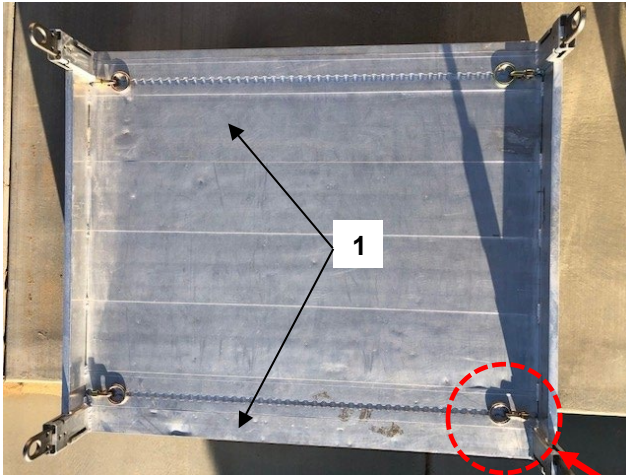
**ISU CONTAINER**

**TRANSPORTING IN ISU CONTAINER**

One of the container platforms compatible with the MPM is the ISU container. Users must adhere to specific Unit Procedures for blocking and bracing to prevent shifting of the MPM while in transit. Up to four MPM stacks can be transported inside an ISU container.

## TRANSPORTING IN JMIC CONTAINER

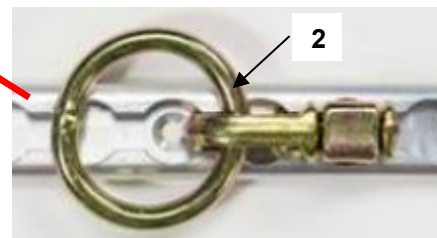
Another container platform compatible with the MPM is the JMIC Container which usually comes equipped with seat tracks in the floor (1). Prior to loading of the MPM, a recommended tiedown option is the use of commercially available Double Stud Fittings w/ O-Ring (2) which have a WLL of 1,666 lbs (via US Cargo Control). One MPM stack can be secured inside a JMIC Container.



**JMIC CONTAINER**  
(view from top with walls removed  
and O-Ring seat track fittings  
installed at each corner)



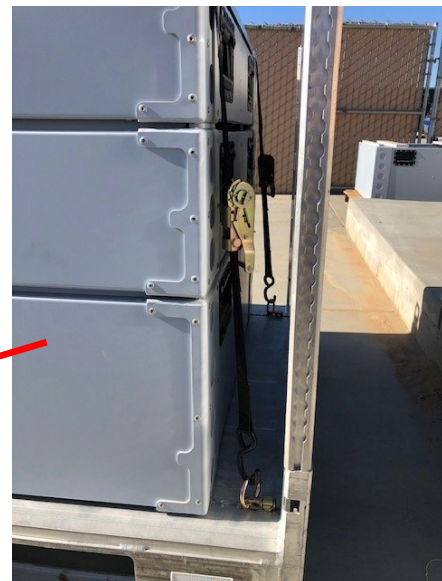
**JMIC CONTAINER**



**FRONT**



**BACK**



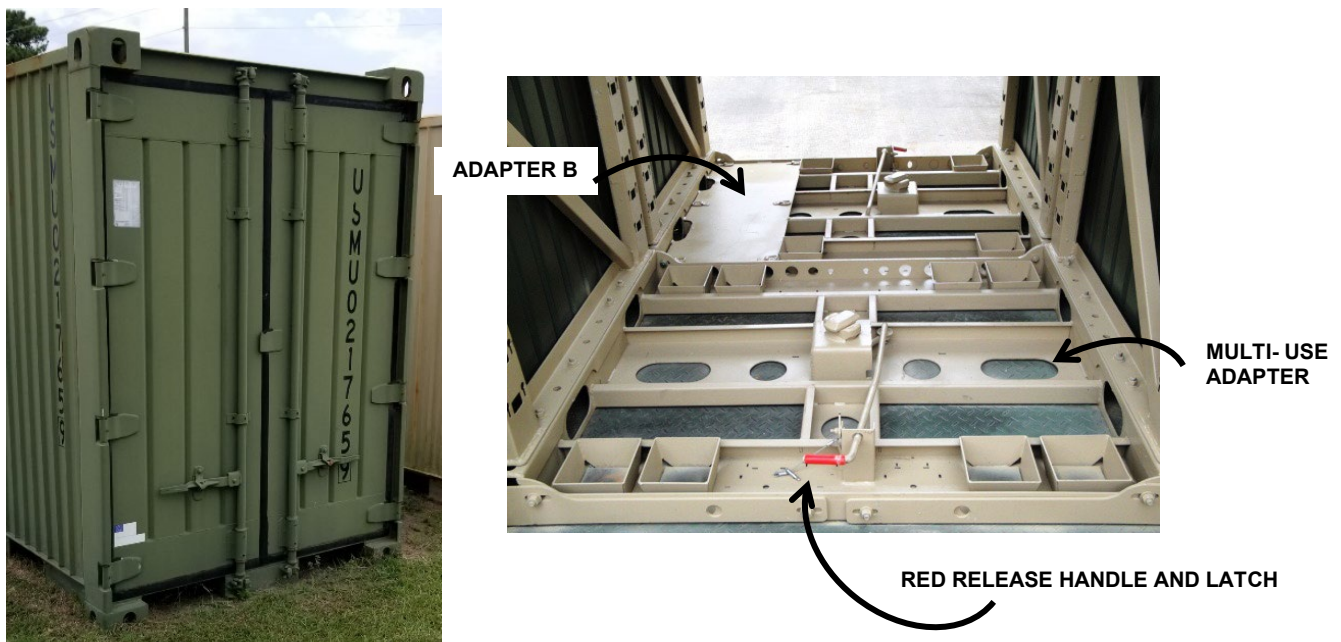
Ratchet Straps secured to O-Ring  
seat track fittings at each corner

Users shall adhere to JMJC Container Manual for additional details and supporting information.

## TRANSPORTING IN QUADCON CONTAINER

A third container platform compatible with the MPM is the QUADCON container. The BOH QUADCON adapter is available for securing the MPM inside the container. If tiedown points are unavailable to secure the adapter in the container, the QUADCON Adapter Restraint System should be used. Up to two MPM stacks can be secured inside a QUADCON container.

See **QUADCON Adapter Kit Manual on the BOH website ([www.bohsolutions.com](http://www.bohsolutions.com))** for installation details and supporting information.



### Note

The MULTI- USE Adapter and Adapter A or B may be used in combination to create a tailored storage configuration.

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**Operation of MPM Drawers**

**Removing the drawers**

**WARNING**

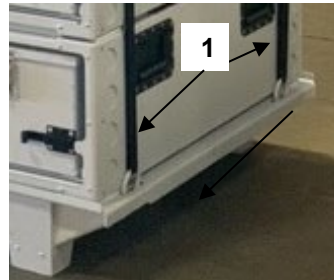


This is a two-person operation. Failure to comply will cause injury.

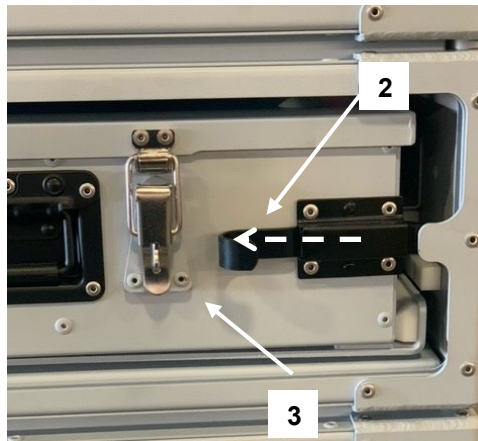
**WARNING**



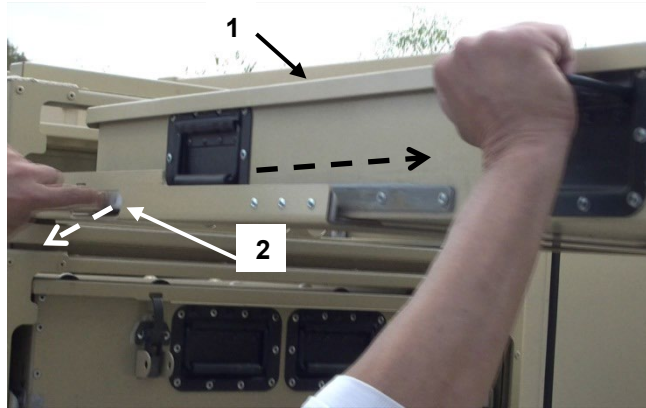
Always ensure the ratchet straps (1) are tight and secure and seated in the base before opening any of the drawers. Failure to comply may cause tipping of the module and injury to personnel.



1. Pull the slam latch (2) on the left side to release the drawer while pulling the drawer (3) outward.

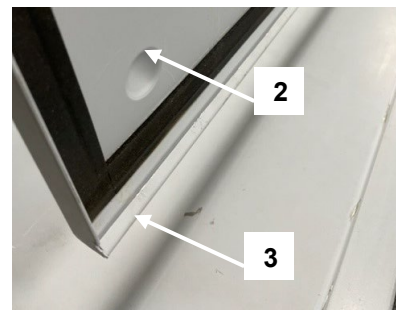
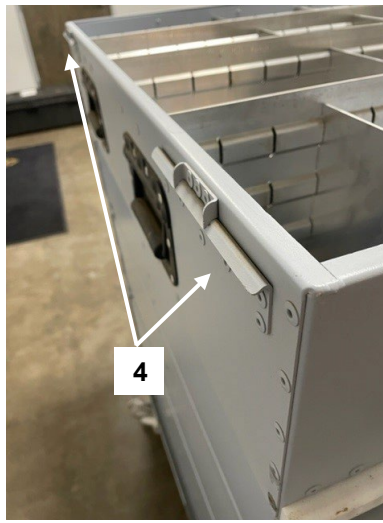
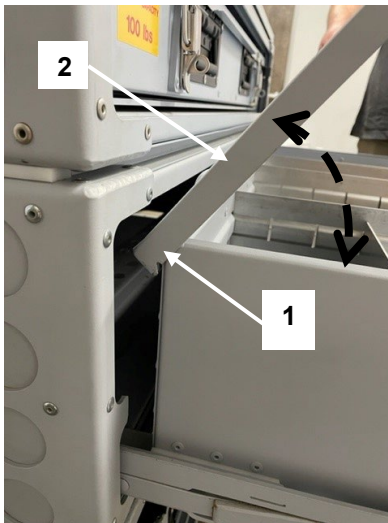


2. Remove the drawer (1) by pulling the left and right drawer tray latches (2) outward, while sliding the drawer (1) forward until clear of the latches (2).
3. With assistance, lift the drawer (1) from the tray.
4. Stack the drawers (1) and return the tray to the fully in position.



#### Drawer Lid

1. The lid (2) is held in the closed position by two latches (5).
2. With the drawer pulled out to the fully extended position, unlatch the drawer and raise the lid (3) to the fully open position (1).
3. The lid (2) includes a lip (3) in the rear which grabs and rotates around two angled pieces of material (4) at the rear of the drawer.
4. Close the lid (3), engage the latches (5) and return the drawer to the fully closed position.



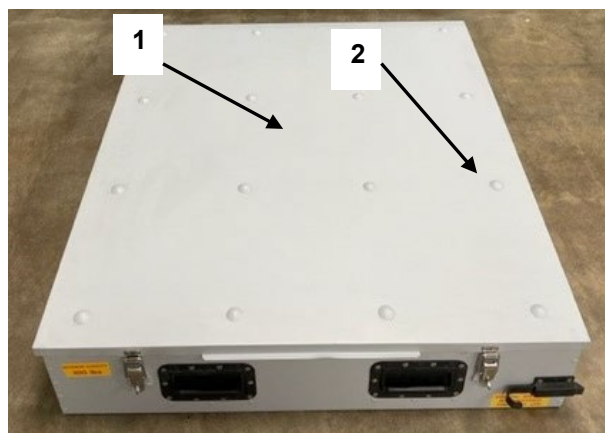


**WARNING**

Failure to return the tray to the full-in position creates a tip hazard; injury may result.

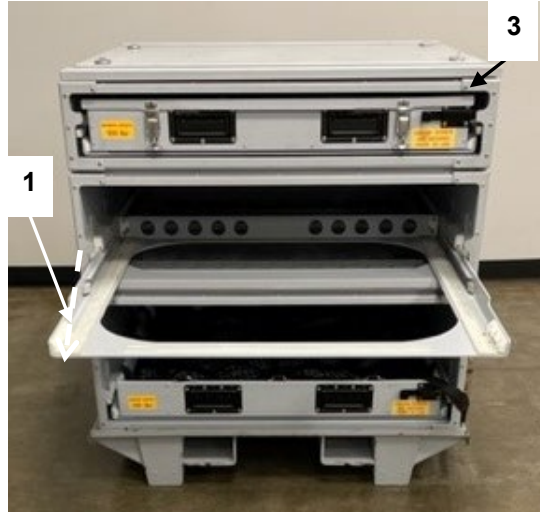
**Unsafe Condition****Safe Condition****WARNING**

Stack the drawers (1) and ensure the drawer dimples (2) on the lid and bottom mate so that the drawers (1) do not slide off; failure to do so may cause injury.



### Install the Drawers

1. Pull out the tray (1) to the full out position and place the drawer (2) on the tray (1).
2. Push the tray and drawer (2) into the case assembly until the drawer slam latch (3) on the right side is engaged.



**END OF WORK PACKAGE**

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**MODULE OPERATION UNDER UNUSUAL CONDITIONS**

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**OPERATION UNDER UNUSUAL CONDITIONS**

This work package provides instructions for the operation of the MPM under unusual conditions.

**Operation in Rain and/or Mud**

1. Provide an adequate drainage ditch to prevent standing water around the MPM modules.
2. Secure all accessories and containers during extremely harsh rain.

**Operation in Hot Weather**

**WARNING**



Protective gloves should be worn when handling metal parts in high temperatures. Failure to wear gloves may result in burning or blistering of the skin upon contact.

**Operation in Snow, Ice, or Extreme Cold**

**WARNING**



In extreme cold, do not touch metal parts with bare hands. Severe skin damage may result.

**Fording**

The MPM modules are water resistant for rain and snow but should never be submerged in any depth of water or material damage may result. When mounted on a trailer or truck, hard-bottom water crossings should be no deeper than approximately two feet. When in doubt, refer to Unit Standard Operating Procedures.

**Interim Nuclear, Biological, and Chemical (NBC) Decontamination Procedures****WARNING**

The MPM modules are NOT designed to be operated in contaminated NBC environments. Do not operate the MPM in contaminated NBC environments.

**END OF WORK PACKAGE**