

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



BOH MULTI-PLATFORM MODULE (MPM)

BOH SOLUTIONS

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WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to persons using equipment.

WARNING



Do not allow the MPM system to swing if using an overhead lift. Always ensure an appropriate sling and lifting points are used in lifting the Module. Always use properly sized forklift, crane, or lifting device. Failure to comply could cause injury, death or damage to the equipment.

WARNING



Use extreme caution when moving BOH MPM units into a transport vehicle or system. Make sure all MPM connectors, latches and straps are properly seated and locked, secure with ratchet straps before movement of the MPM. Failure to comply could cause serious injury, death, or damage to the equipment.



Standard forklift principles apply when working on the MPM. When working with ground guides during loading or unloading of a module, never move the MPM into the FPU container while the ground guide is between the fork, MPM, and the container. Serious injury could occur if the ground guide is pinned between the forklift and the container. Forklift operators must maintain visual contact with their ground guides at all times.



Always follow standard forklift procedures. A tilt hazard exists when forklift operators try to lift a partially loaded container from the wrong side. Always lift with the forklift tines in the fork pockets provided in the base. A tilt situation exists when the heaviest part of the load is out on the tips of the tines, or on uneven ground while traveling. Operators should always keep loads low and close to the forklift carriage. Operators should never travel when the load is in the fork's extended position.

WARNING



The MPM and their contents are heavy and could cause injury if they fall onto or strike personnel. A tilt hazard exists when the drawer is either not latched or frames have not been secured with the ratchet straps. As a rule, always work on one drawer at a time. Never have more than one drawer extended in the full open position at a time, especially if loaded with material. Personnel should never stand on a drawer.

WARNING



Use extreme caution when stacking drawer units into a combination system. Never attempt to lift drawers while they are in their frames. Always separate the drawers from the frames when stacking the system. Two personnel are required when lifting empty drawers into and out of the frames. Four personnel are required when lifting drawers that contain stored material into and out of the drawer frames. Make sure all latches are properly seated and locked secure. Failure to comply could cause serious injury. Failure to follow proper connection procedures may result in damage to the equipment and/or stored material.

WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to persons using equipment.

WARNING



When using a crane to lift the MPM, ensure the proper sling and sling point are used. Do not allow the system to swing if using an overhead lift. Always use properly sized forklift, crane, or lifting device. Failure to comply could cause injury, death or damage to the equipment.

WARNING



The module drawers, shelves and their contents are heavy and could cause injury if they fall onto or strike personnel. A tilt hazard exists when the module drawer is extended, but not locked down by the ratchet straps. As a rule, always work on one drawer at a time. Never have more than one drawer extended in the full open position at a time, especially if loaded with material. Personnel should never stand on a drawer. Failure to comply could cause injury, death or damage to the equipment.

WARNING



Always inspect the working areas, insure that the front, rear and sides are free of oils, lubricants, and other potentially slippery substances. The module drawers may be used to store various forms of lubricants, and other potentially slippery substances. Keeping the drawers and the work area around the module clean is important to prevent spillage and slippery surfaces.

WARNING



The module drawers and shelves can be heavy and awkward to handle by a single person. This is especially true of the larger components. The movement of these items is a two-person operation for empty drawers and four personnel for drawers with stored material. Assistance is required from one or more personnel to separate and remove drawers from the frame of each assembly. DO NOT remove or lift drawers with their frame; injury to personnel will result.

A forklift and MHE support is required to load and unload the MPM into and out of the container systems and other transport vehicles.

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.

WARNING



Protective gloves should be worn when handling metal parts in below freezing temperatures. Failure to wear gloves may result in skin freezing to the metal upon contact and cause tearing of the flesh when attempting to pull away from the metal.

GENERAL WARNINGS



HEAVY PARTS - heavy object on human figure shows that heavy parts present a danger to life or limb.



HEAVY PARTS - heavy object pinning human figure against wall shows that heavy, moving parts present a danger to life or limb.



HEAVY PARTS - hand with heavy object on top shows that heavy parts can crush and harm.



HEAVY PARTS - foot with heavy object on top shows that heavy parts can crush and harm.



SLICK FLOOR - wavy line on floor with legs prone shows that slick floor presents a danger for slipping or falling.



HEAVY OBJECT - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



CRYOGENIC - hand in block of ice shows that the material is extremely cold and can injure human skin or tissue.



HOT METAL SURFACES- Metal surfaces may become hot in extreme heat areas; prolonged contact may cause burning or blistering of the skin.

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REPORTING ERRORS & IMPROVEMENTS

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. Please let us know if you find any mistakes or if you know of a way to improve the procedures. You may send in your recommended changes by E-mail directly to: dcresap@bohfpusystems.com. A reply will be furnished directly to you.

Approved for public release; distribution is unlimited.

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Group Numbers

- 00 MPM
- 01 MPM Modules
 - 0101 Module Assembly
 - 0102 Drawer Assembly
 - 010201 Drawer Seals
 - 010202 Drawer Dividers
 - 0103 MPM Case Assembly
 - 0104 MPM Tray Assembly
- 02 Accessory Components
 - 0301 MPM Base Adapter
 - 0401 MPM Hood Assembly

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REAR MATTER

BOH PRODUCT WARRANTY
Metric Conversion Chart

HOW TO USE THIS MANUAL

This manual contains general information, operating instructions, Preventative Maintenance Checks and Services (PMCS), and maintenance/repair instructions for the MPM.

Front matter consists of front cover, warning summary, title block, table of contents, "how to use this manual" pages, and provides information on the MPM and its associated equipment. Chapter 1 provides equipment description and data as well as the theory of operation. Chapter 2 provides instructions for operating under usual and unusual conditions. Chapter 3 contains troubleshooting procedures authorized at the Operator and Unit level. Chapter 4 contains Preventative Maintenance Checks and Services (PMCS) and Operator Maintenance Instructions. Chapter 5 contains Unit Maintenance Instructions. Chapter 6 contains the Maintenance Allocation Chart (MAC); it also includes the Repair Parts & Special Tools List (RPSTL) that identifies parts or tools unique to the operation and maintenance of the MPM.

Manual Organization and Page Numbering

This manual is divided into six major chapters that detail the topics mentioned above. Within each chapter are work packages covering a wide range of topics. Each work package is numbered sequentially at page 1, and has its own page numbering scheme that is independent of the page numbering used by other work packages. Each page of a work package has a page number of the form "XXXX YY-ZZ", where "XXXX YY" is the work package number (e.g. 0010 00 is work package 10) and "ZZ" represents the number of the page within that work package. Blank pages will be labeled "This page was intentionally left blank".

Finding Information

The Table of Contents permits the reader to quickly find information in the manual. The reader should start here first when looking for a specific topic. The Table of Contents lists the topics contained within each chapter and the work package sequence number where it can be found.

Types of notations

Warnings - Warnings are posted immediately prior to text covering any area that would present a situation that may result in injury or death. Compliance is mandatory.

Cautions - Cautions will be found on the same page and preceding the text covering any area that would present a situation that may result in damage to equipment.

Notes - Notes will precede text covering an area with the intent to alter normal procedures for unique situations or equipment, or point out areas of special concern.

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**BOH SOLUTIONS OPERATION MANUAL
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CHAPTER 1

**INTRODUCTORY INFORMATION
WITH
THEORY OF OPERATION**

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INTRODUCTORY INFORMATION WITH THEORY OF OPERATION**BOH SOLUTIONS OPERATION MANUAL
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SCOPE**Equipment Covered**

This technical manual contains instructions for the operation, preventative maintenance, and recommended Unit/Direct Support corrective maintenance for the MPM and the associated equipment.

Type of Manual

This is an Operator, Unit and Direct Support, Operation and Maintenance Manual.

MPM Description

The MPM is available in 6 sizes with drawer trays that slide and equipped with drawer divider sets for organizing parts in individual compartments. There are also 2 alternate bulk module variations with nets for larger bulk items. Each unit can be coupled and secured together by ratchet strap for a fully configured solution tailored to meet individual Supply/Maintenance/ Logistical Support needs. The system has the ability to operate in fixed facilities or field environments in either its uploaded or downloaded configuration. The MPM provides flexible transportability for supply support activities. The MPM comes in Gray color.

MPM Name and Part Number

4" MPM Drawer & Case



P/N: BH00018-M6
 Dim: 39"W x 39"L x 8"H
 36 Standard Compartments

6" MPM Drawer & Case



P/N: BH00018-M5
 Dim: 39"W x 39"L x 10"H
 36 Standard Compartments

8" MPM Drawer & Case



P/N: BH00018-M4
 Dim: 39"W x 39"L x 12"H
 16 Standard Compartments

10" MPM Drawer & Case



P/N: BH00018-M3
 Dim: 39"W x 39"L x 14"H
 16 Standard Compartments

12" MPM Drawer & Case



P/N: BH00018-M2
 Dim: 39"W x 39"L x 16"H
 9 Standard Compartments

16" MPM Drawer & Case



P/N: BH00018-M1
 Dim: 39"W x 39"L x 20"H
 9 Standard Compartments

12" Bulk MPM Drawer & Case



P/N: BH00018-M8
 Dim: 39"W x 39"L x 16"H
 1 Bulk Compartment w/Net

16" Bulk MPM Drawer & Case



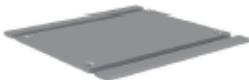
P/N: BH00018-M7
 Dim: 39"W x 39"L x 20"H
 1 Bulk Compartment w/ Net

MPM Base Plate



P/N: BH00018-F7
 Dim: 41.5"W x 40"L x 8"H

MPM Hood



P/N: BH00018-F6
 Dim: 39"W x 39"L x 2"H

END OF WORK PACKAGE

INTRODUCTORY INFORMATION WITH THEORY OF OPERATION

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

THEORY OF OPERATION

MPM Description

The MPM is available in 6 sizes with drawer trays that slide and equipped with drawer divider sets for organizing parts in individual compartments. There are also 2 alternate bulk module variations with nets for larger bulk items. Each unit can be coupled and secured together by ratchet strap for a fully configured solution tailored to meet individual Supply/Maintenance/ Logistical Support needs. The system has the ability to operate in fixed facilities or field environments in either its uploaded or downloaded configuration. The MPM provides flexible transportability for supply support activities. The MPM comes in Gray color. Configured MPM sets are designed to stand alone or to be loaded and secured within the JMIC (Joint Modular Intermodal Container), ISU or QUADCON containers.

Compatible Shipping Containers System



JMIC



QUADCON



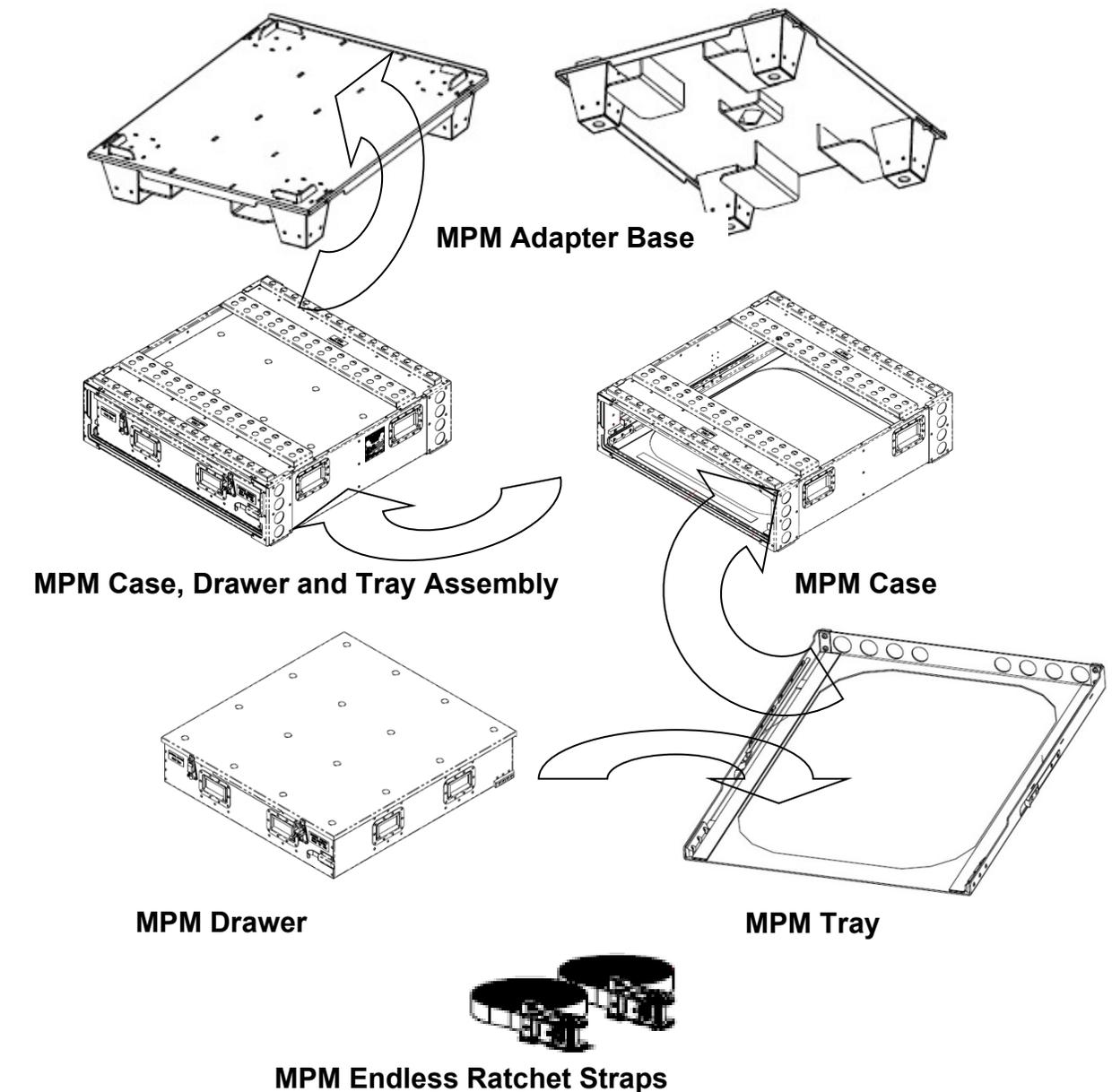
ISU

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**INTRODUCTORY INFORMATION WITH THEORY OF OPERATION
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Equipment Characteristics, Components and Accessories

MPM Module Components Breakdown



Components description

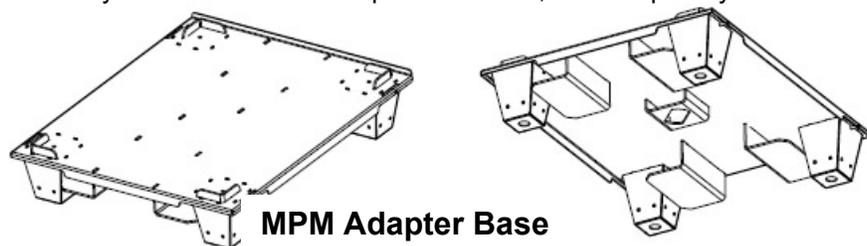
The MPM module has handle drawers for removal from the sliding tray.



The cases can be rearranged in a configuration tailored to specific needs.



The cases are secured by means of ratchet straps to the base, for transport by forklift.



REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your MPM needs improvements in design and/or performance, let us know. Send us a description of the recommended change to dcresap@bohfpusystems.com.

CORROSION PREVENTION AND CONTROL (CPC)

It is our understanding that Corrosion Prevention and Control (CPC) is a continuing concern for the military. While corrosion is typically associated with rusting of metals, it can also include deterioration of other material, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

All units must adhere to their specific corrosion maintenance plan. At a minimum, equipment should be inspected for corrosion on a quarterly basis (monthly if equipment is operated/stored in a high salt air environment). If corrosion is discovered, consult your unit/installation corrosion control manager to schedule repair. It is important that any corrosion problem with the MPM be reported so that the problem can be corrected and improvements can be made to prevent the problem in the future.

PREPARATION FOR STORAGE OR SHIPMENT

All preventative maintenance checks and services should be performed on the MPM and its components prior to any storage or shipment.

RECEIVING THE FPU INVENTORY

Unpacking and Inventory of MPM Components upon Initial Receipt

With the MPM containers downloaded, check the equipment against the packing list. Report any discrepancy to your supervisor.

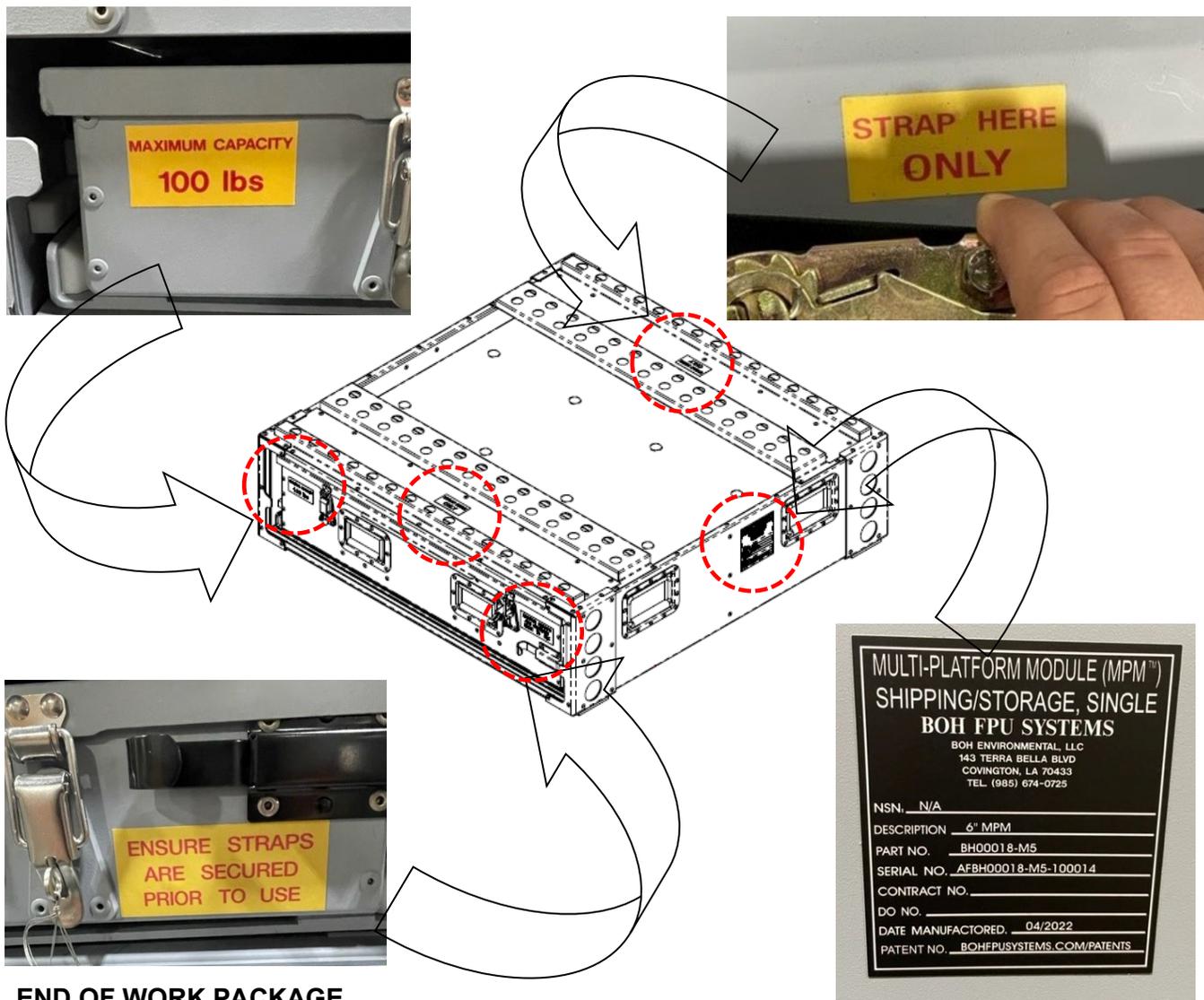
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EQUIPMENT DATA LABELS, IDENTIFICATIONS, AND MARKINGS

MPM DATA TAGS

The MPM data tags are located on the sides of each case.



END OF WORK PACKAGE