

FireHawk[®] M7 and FireHawk M7XT Power Modules

MAINTENANCE AND REPAIR



For More Information, call 1-800-MSA-2222 or Visit Our Website at www.MSAafety.com

MINE SAFETY APPLIANCES COMPANY
CRANBERRY TWP., PENNSYLVANIA, U.S.A. 16066

FIREHAWK M7 POWER MODULE

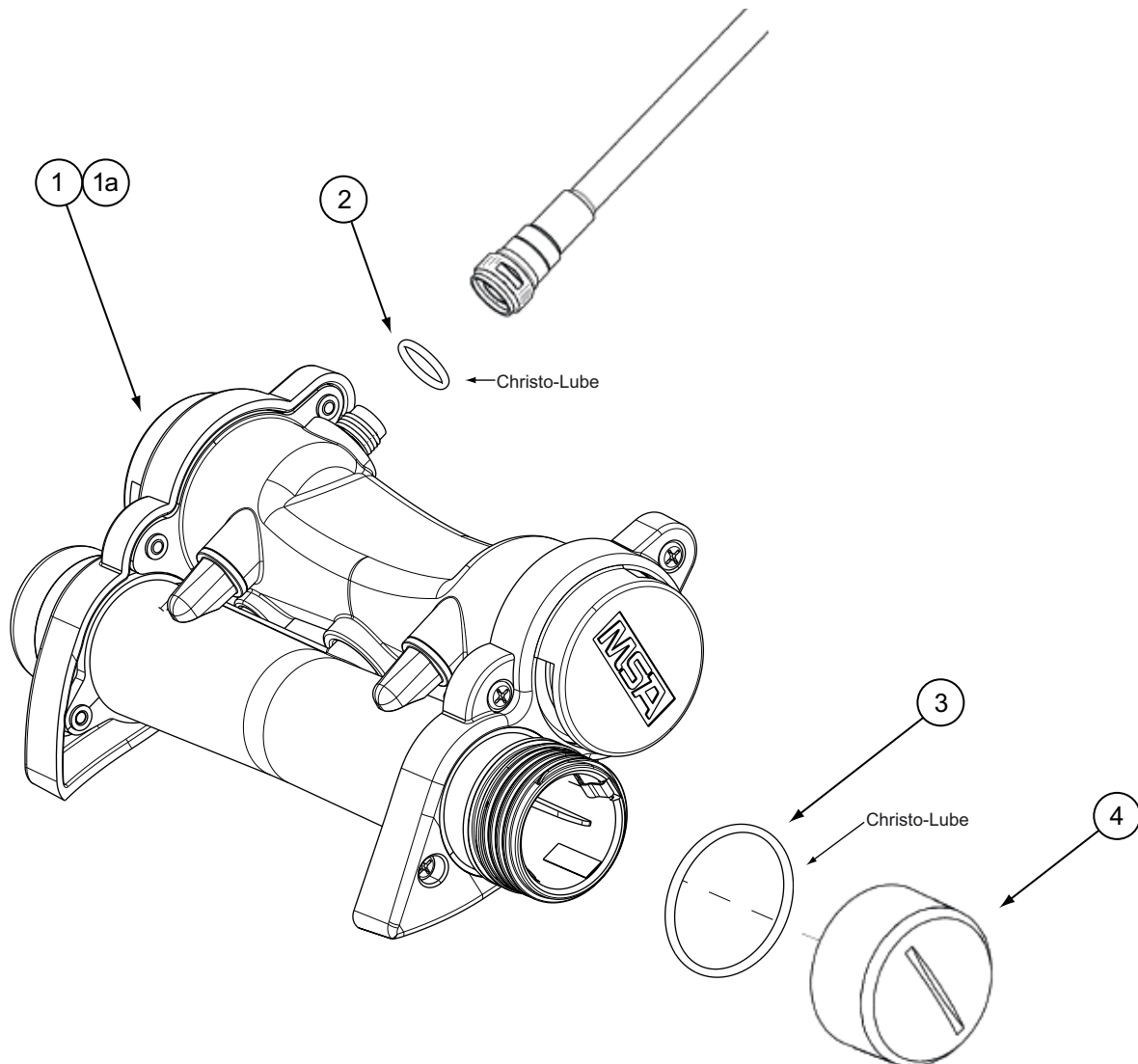
FireHawk M7 Power Module Replacement Kits and Parts List

M7 Power Module w/o Telemetry			
1	10091448	10089273	Cable O-Ring
		10084774	Battery Tube O-Ring
		10083243	Power Module Assembly
		10083223	Shock Mounts (4 req'd.)
		10086579	C-Size Batteries (4 req'd.)
M7 Power Module w/ Telemetry			
1a	10091378	10089273	Cable O-Ring
		10084774	Battery Tube O-Ring
		10083242	Power Module Assembly
		10083223	Shock Mounts (4 req'd.)
		10086579	C-Size Batteries (4 req'd.)
Item	PN	Description	
2	10090281	10089273	Cable O-Ring (pack of 10)
3	10090282	10084774	Battery Tube O-Ring (pack of 10)
4	10083236	Battery Cap	
	604070	Christo-Lube Lubricant	

FireHawk M7XT Power Module Replacement Kits and Parts List

M7XT Power Module, w/o Telemetry			
1	10145997	10089273	Cable O-Ring
		10084774	Battery Tube O-Ring
		10145185	Power Module Assembly
		10083223	Shock Mounts (4 Req'd)
		10086579	C-Size Batteries (4 Req'd)
M7XT Power Module, w Telemetry			
1a	10145996	10089273	Cable O-Ring
		10084774	Battery Tube O-Ring
		10145184	Power Module Assembly
		10083223	Shock Mounts (4 Req'd)
		10086579	C-Size Batteries (4 Req'd)
Item	PN	Description	
2	10090281	10089273	Cable O-Ring (Pack of 10)
3	10090282	10084774	Battery Tube O-Ring (Pack of 10)
4	10083236	Battery Cap	
	604070	Christo-Lube Lubricant	

Exploded view



FIREHAWK M7 POWER MODULE

Table of Contents

Label Location	3
Label Information	3
PASS Module Revision Compatibility	3
Disassembly	3
Removing the Cylinder Stop	3
Removing the M7 and M7XT Power Module	3
Reassembly	4
Installing the M7 and M7XT Power Module	4
Installing the Cylinder Stop Kit	4

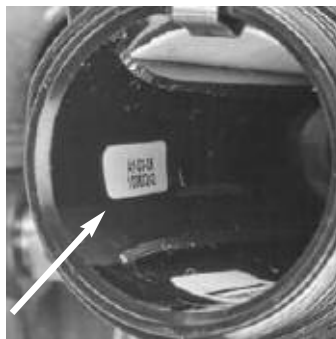
When replacing either a FireHawk M7 or M7XT Control Module or FireHawk M7 or M7XT Power Module, it is important to use the correct revision module. Each module has a white identification label that indicates the revision.

LABEL LOCATION

On the FireHawk M7 or M7XT Control Module, the label can be seen by pulling back the rubber boot on the side opposite of the yellow reset button.



On the FireHawk M7 or M7XT Power Module, the label can be found inside the battery tube by removing the battery cap.



LABEL INFORMATION

The label will show an alphanumeric code that includes product revision and date code. An example of this is "A1-02-08." This example shows a product revision "A1" and date code "02-08."

PASS Module Revision Compatibility for M7

Only one combination of modules, revision A revision B, is not compatible. All other revision combinations of control and power modules are

compatible with each other.

If non-compatible revisions are connected, an error code "ERR116," will display on the FireHawk M7 Control Module LCD display during the startup sequence. If this occurs, the modules must be disconnected and removed from service until the correct revision is installed.

PASS MODULE REVISIONS COUNTABILITY FOR M7XT

The M7XT Power Module is not compatible with previous versions of the control module. Connecting non-compatible Control Modules will result in ERR 116 being displayed on the Control Module LCD Screen. Should this occur, the modules must be disconnected and removed from service until the correct modules can be assembled.

When ordering a replacement FireHawk M7 or M7XT Control Module or FireHawk M7 or M7XT Power Module, specify the current revision control module and power module being used to ensure compatibility.

If you have any questions, please contact MSA Customer Service at 1-877-673-3473.

DISASSEMBLY

The M7 and M7XT Power Module are hermetically sealed at the factory and are not field serviceable. Replace damaged or malfunctioning Power Modules.

Removing the Cylinder Stop

1. Use a **3/16" hex wrench** to remove the Cylinder Stop screws.



FIREHAWK M7 POWER MODULE

2. Remove the Cylinder Stop.

Removing the M7 or M7XT Power Module

1. Lift the Power Module from the carrier.



2. Remove the shock mounts.

REASSEMBLY

Installing the M7 Power Module or M7XT Power Module (P/N 10083223)

1. Inspect shock mounts before installation. Replace worn or damaged shock mounts.



Note: Shock mounts and shock mount bosses are contoured. Match contours when installing shock mounts.

2. Inspect the M7 or M7XT Power Module before installation.
 - a. Check for cracks, weakened areas, loose or missing screws, or any condition that could impair proper function. Repair or replace as needed.
 - b. Inspect the threaded inserts. See **M7 Carrier and Harness Assembly Repair and Maintenance (P/N 10093081)** or **M7XT Carrier and Harness Assembly Repair and Maintenance (P/N 10147420)** for instructions.

3. Insert the M7 or M7XT Power Module locating pins into the shock mounts.



4. Verify proper insertion.
5. Install Cylinder Stop.

Installing the Cylinder Stop Kit

P/N 10086666

1. Inspect the Cylinder Stop before installation.
 - a. Check for cracks, charring, weakened areas, warping, or any condition that could impair proper function.



2. Position the Cylinder Stop over the Power Module.

3. Insert screws with lock washers.



4. Use a torque wrench and **3/16" hex bit** to tighten the screws in an X pattern to **25-30 in lbs.**

⚠ WARNING

Use only Rayovac 814 or AL-C (Regular/Max or Ultrapro), Duracell MN1400, or Duracell Procell PC1400 alkaline batteries in the FireHawk M7 Power Module. Use of other batteries, or a combination of batteries from different manufacturers, will affect the performance of the unit and void the Intrinsic Safety Approval.