FireHawk® M7 Carrier and Harness Assembly

MAINTENANCE AND REPAIR

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



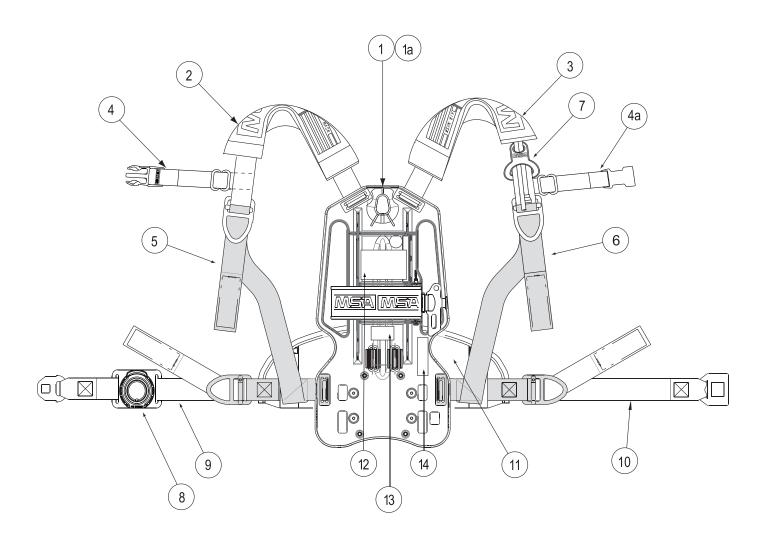
REPLACEMENT KITS AND PARTS LIST

Replacement Kits

| FireHawk M7 Carrier w/Labels (2216 psi/3000 psi) | | | |
|--|------------------|-------------------------|--|
| 10090852 | 10083436 | Carrier Assembly | |
| | 10084688 | ID Label | |
| | 805430 | Cylinder Band Label | |
| | | NIOSH Label | |
| | | CBRN Label | |
| | | NFPA Label | |
| | 10087293 | FireHawk M7 Logo Label | |
| FireHawk M7 | Carrier w/Labels | (4500 psi) | |
| | 10083436 | Carrier Assembly | |
| | 10084688 | ID Label | |
| | 805265 | Cylinder Band Label | |
| 10090853 | | NIOSH Label | |
| | | CBRN Label | |
| | | NFPA Label | |
| | 10087293 | FireHawk M7 Logo Label | |
| Chest Strap I | Replacement Kit | | |
| 10012167 | 10102886 | Left Chest Strap | |
| 10012167 | 10102861 | Right Chest Strap | |
| Strap and Be | lts | | |
| 10048173 | 10048173 | Left Shoulder Strap | |
| 10102889 | 10102889 | Right Shoulder Strap | |
| 10012167 | 10012167 | Chest Strap | |
| 10102860 | 10102860 | Left Double Pull Strap | |
| 10102859 | 10102859 | Right Double Pull Strap | |
| 10083134 | 10083134 | Swiveling Lumbar Pad | |
| 10102858 | 10102858 | Left Double Pull Belt | |
| 10102838 | 10102838 | Right Pull Belt | |
| 10022245 | 10022245 | Belt Mount | |

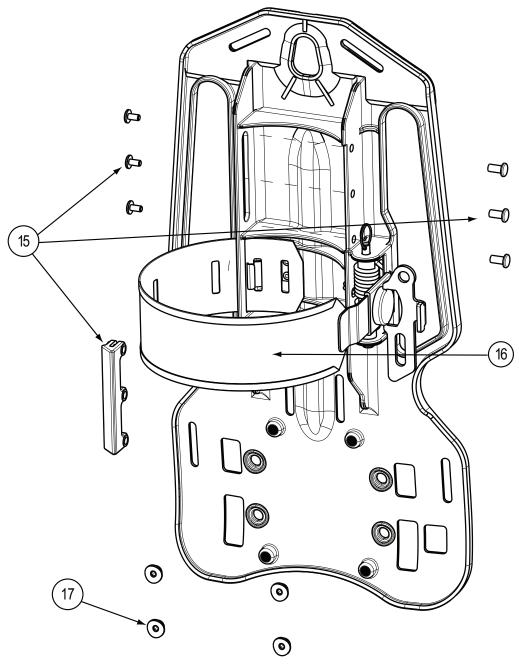
Parts List

| Item | P/N | Description | | |
|------|----------|--|--|--|
| | 10086665 | M7 Carrier & Harness w/ Chest Strap, 4500 psi | | |
| | 10083129 | M7 Carrier & Harness w/o Chest Strap, 4500 psi | | |
| 1 | 10086664 | M7 Carrier & Harness w/ Chest Strap, 2216/3000 psi | | |
| ' | 10083128 | M7 Carrier & Harness w/o Chest Strap, 2216/3000 psi | | |
| | 10086662 | M7 Carrier & Harness w/ Chest Strap, Swiveling Lumbar, 4500 psi | | |
| | 10086663 | M7 Carrier & Harness w/ Chest Strap, Swiveling Lumbar, 2216/3000 psi | | |
| 1a | 10083436 | M7 Backplate and Cylinder Band | | |
| 2 | 10048173 | Left Shoulder Strap | | |
| 3 | 10102888 | Right Shoulder Strap | | |
| 4 | 10102886 | Left Chest Strap | | |
| 4a | 10102861 | Right Chest Strap | | |
| 5 | 10102860 | Left Double Pull Strap | | |
| 6 | 10102859 | Right Double Pull Strap | | |
| 7 | 10016029 | Tether | | |
| 8 | 10022245 | Belt Mount | | |
| 9 | 10025941 | Left Double Pull Belt | | |
| 10 | 10102838 | Right Double Pull Belt | | |
| 11 | 10083134 | Swiveling Lumbar Pad | | |
| 12 | | M7 NIOSH Label | | |
| 13 | | CBRN Label | | |
| 14 | | M7 NFPA Label | | |



Replacement Kits and Parts List (cont)

| Item | P/N | Description | | |
|---------------------------|----------|-----------------------------------|---------------------------|--|
| Cylinder Friction Pad Kit | | | | |
| 15 | 10086667 | 10084777 | Binding Post (3 Req'd) | |
| | | 10109434 | Aluminum Screws (3 Req'd) | |
| | | 10083222 | Friction Pad | |
| Cylinder Band Label | | | | |
| 16 | 805430 | Cylinder Band Label 2216/3000 psi | | |
| | 805265 | Cylinder Band Label 4500 psi | | |
| Shock Mount Kit | | | | |
| 17 | 10090283 | 10083223 | Shock Mounts (4 req.) | |



Replacement Kits and Parts List (cont)

| replacement the and raite field (cont.) | | | | |
|---|----------|------------------------|----------------------|--|
| Item | P/N | Description | | |
| 18 1 | | 10083225 | Cylinder Stop | |
| | 10086666 | 10084812 | Screw (4 req.) | |
| | | 10084815 | Lock washer (4 req.) | |
| 19 | 10066867 | Cylinder Band Adjuster | | |
| 20 | 10058780 | Rivet (2 req.) | | |

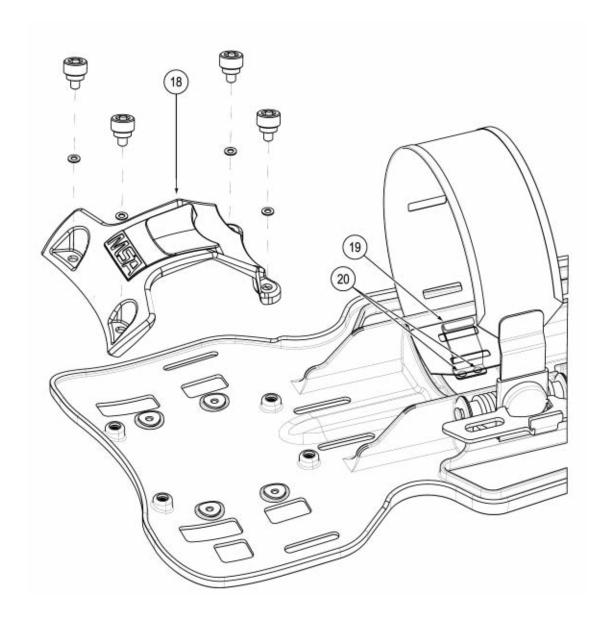


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| Swiveling Lumbar Pad | |

Reassembly

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| Waist Belts | .7 |
| Chest Strap | 3. |
| Left Shoulder Strap | .0 |
| Right Shoulder Strap w/Tether | .9 |
| Friction Pad | |

DISASSEMBLY

Removing the Friction Pad

- 1. Remove the cylinder.
- Use a slot head screwdriver to unscrew the Friction Pad screws.

Note: To ease access to the screws, remove the PR14 Mounting Bracket and pass the screwdriver through the slot.



Removing the Right Shoulder Strap

- Remove the M7 Control Module. See M7 Control Module Repair and Maintenance (P/N 10093089) for Instructions.
- 2. Unlace the free end of the pull-strap from the friction buckle.
- Remove the shoulder strap by angling the Tri-bar slide through the slot.



Removing the Left Shoulder Strap

 Disconnect the second stage regulator from the intermediate pressure hose.



a. If present, use an 11/16" wrench to remove the ExtendAire manifold.



b. Remove the o-ring and discard.



2. Pull the first stage intermediate pressure hose through the shoulder strap.



3. Remove the pull-strap from the friction buckle.

Removing the Chest Strap

1. Unlace the ends of the chest strap from the slide buckles.



2. Pull the ends through through the tunnels in the chest straps.



Removing Waist Belts

Remove the waist pull-straps from the backplate by angling the tri-bar through the slots.





Removing the Swiveling Lumbar Pad

 Remove the Swiveling Lumbar Pad by angling the tri-bars through the backplate slots.



REASSEMBLY

Installing the Swiveling Lumbar Pad P/N 10083134

1. Position the Swiveling Lumbar Pad behind the backplate with the curved edge up.

2. Angle the tri-bars through the slots.



Installing Waist Belts

Left Double Pull Waist Belt: P/N 10025941 Right Double Pull Waist Belt: P/N 818374

- 1. Angle the tri-bar strap through the slot.
- 2. Tug on the belt to test the attachment.

3. From back to front, lace the free end of the pull-strap through the friction buckle.



4. Pass the strap over the bar and back through the buckle.



5. Lace the strap through the slide buckle.

> over the bar and down through the slide buckle.



Installing the Chest Strap Chest Strap Kit: P/N 10012167

Connect male and female ends of chest strap.

1. Extend the chest straps.



b. Pull the chest strap through.

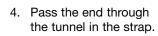


2. Lay the unconnected male end under the right shoulder strap.



6. Don the Carrier/Harness Assembly to check chest strap installation.

3. Lay the unconnected end of the male chest strap under the left shoulder strap.





Installing the Left Shoulder Strap P/N 10048173

- 1. Install the shoulder strap by angling the tri-bar through the slot.
- 2. Tug on the shoulder strap to test the attachment.

4. Lace the free end of the pull-strap through the friction buckle.



a. Twist the strap clockwise one half turn.



b. With the fold down, pass the strap from back to front through the buckle.



c. Pass the strap over the bar and back through the buckle.



d. Pass the first stage intermediate-pressure hose through the tunnel.



 Reinstall the intermediate pressure hose to the M7 ExtendAire manifold.



- a. Install a new o-ring.
- b. Use a torque wrench with 11/16" crowfoot to tighten the connector to 75 ± 5 in lbs.
- c. Ensure that the dust cover is properly attached.

6. Reconnect the intermediate-pressure hose.



a. Use a torque wrench with 11/16" crowfoot to tighten the connector to 125 ± 5 in lbs.

Installing the Right Shoulder Strap

Right Shoulder Strap Tether P/N 818381 P/N 10016029

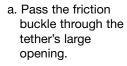
 Install the shoulder strap by angling the tri-bar through the slot.



2. Tug on the shoulder strap to test the attachment.



3. Install the tether.





Note: If using the optional chest strap install the tether above the chest strap.



4. Lace the free end of the pull-strap through the friction buckle.

 a. Fully extend the shoulder and pull strap. Make sure the straps are untwisted.



b. Twist the pull strap counterclockwise one-half turn.



 With the fold down, pass the strap from back to front through the buckle.



d. Pass the strap over the bar and back through the buckle.



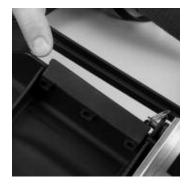
 e. Reinstall the M7 Control Module. (See M7 Control Module Maintenance and Repair for instructions.)

Installing the Friction Pad

Cylinder Friction Pad Kit P/N 10086667

- 1. Remove the cylinder.
- 2. Position the new Friction Pad on the backplate.

Note: Ensure that the Friction Pad face slopes toward the center of the backplate.



3. Insert T-nuts through the holes.



4. Insert screws.



Use a slot head screwdriver to tighten the Friction Pad screws.

Note: To ease access to the screws, remove the PR-14 Mounting Bracket and pass the screwdriver through the slot.

