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



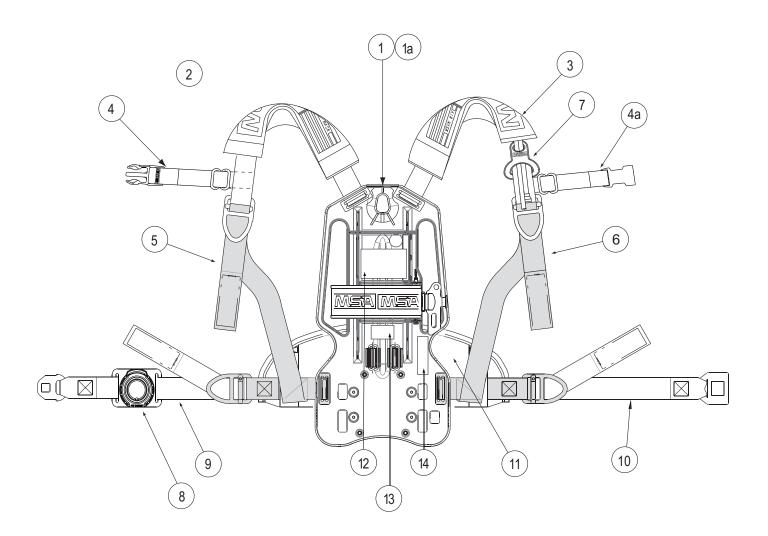
REPLACEMENT KITS AND PARTS LIST

Replacement Kits

FireHawk M7 Carrier w/Labels (2216 psi/3000 psi)							
	10083436	Carrier Assembly					
	10084688	ID Label					
	805430	Cylinder Band Label					
10090852		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	818380	Left Chest Strap					
10012107	818379	Right Chest Strap					
Strap and Be	lts						
10048173	10048173	Left Shoulder Strap					
818381	818381	Right Shoulder Strap					
10012167	10012167	Chest Strap					
818378	818378	Left Double Pull Strap					
818377	818377	Right Double Pull Strap					
10083134	10083134	Swiveling Lumbar Pad					
10025941	10025941	Left Double Pull Belt					
10025942	10025942	Left Single Pull Belt (Not Shown)					
818374	818374	Right Pull Belt					
10022245	10022245	Belt Mount					

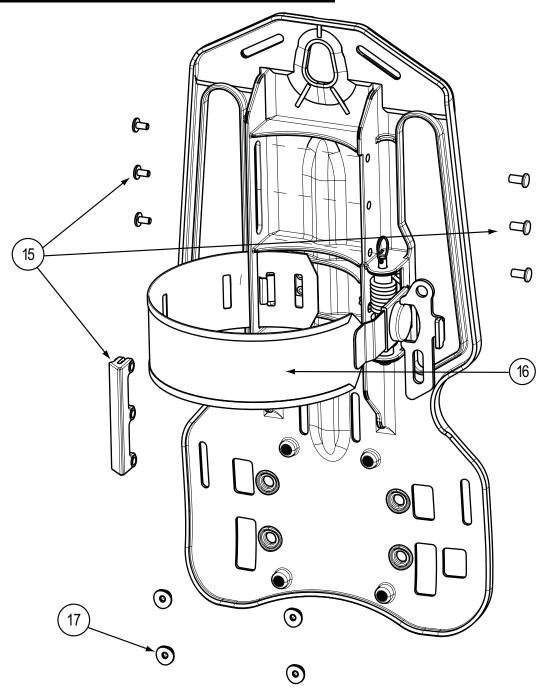
Parts List

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						
l '	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	818381	Right Shoulder Strap						
4	818380	Left Chest Strap						
4a	818379	Right Chest Strap						
5	818378	Left Double Pull Strap						
6	818377	Right Double Pull Strap						
7	10016029	Tether						
8	10022245	Belt Mount						
9	10025941	Left Double Pull Belt						
10	818374	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)

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Item	P/N	Description						
Cylinder Friction Pad Kit								
15	15 10086667	10084777	Binding Post with screws (3 req.)					
15		10083222	Friction Pad					
Cylinder Band Label								
16	805430	Cylinder Band Label 2216/3000 psi						
10	805265	Cylinder Band Label 4500 psi						
Shock Mount Kit								
17	10090283	10083223	Shock Mounts (4 req.)					



Replacement Kits and Parts List (cont)

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Item	P/N	Description						
		10083225	Cylinder Stop					
18	10086666	10084812	Screw (4 req.)					
		10084815	Lock washer (4 req.)					
19	10066867	Cylinder Band Adjuster						
20	10058780	Rivet (2 req.)						

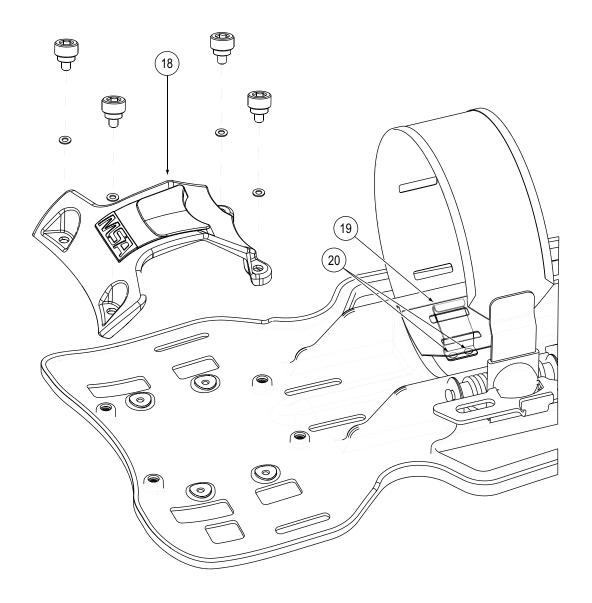


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Reassembly

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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

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



REASSEMBLY

Installing the Swiveling Lumbar Pad P/N 10083134

 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.



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

Connect male and female ends of chest strap.

1. Extend the chest straps.



a. Lace the chest strap over the bar and down through the slide buckle.



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



b. Pull the chest strap through.

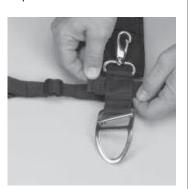
strap installation.

6. Don the Carrier/Harness Assembly to check chest



3. Lay the unconnected end of the male chest strap

under the left shoulder strap.



4. Pass the end through the tunnel in the 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.

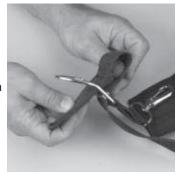
4. Lace the free end of the pull-strap through the friction buckle.



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

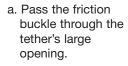
 Install the shoulder strap by angling the tri-bar through the slot.



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.



c. 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.



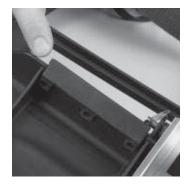
 e. Reinstall the M7 Control Module. (See M7 Control Module Maintenance and Repair for instructions.)

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.

