

# AirFrame™ Carrier and Harness

## MAINTENANCE AND REPAIR

For More Information, call 1-800-MSA-2222 or Visit Our Website at [www.MSA.net.com](http://www.MSA.net.com)



**MINE SAFETY APPLIANCES COMPANY  
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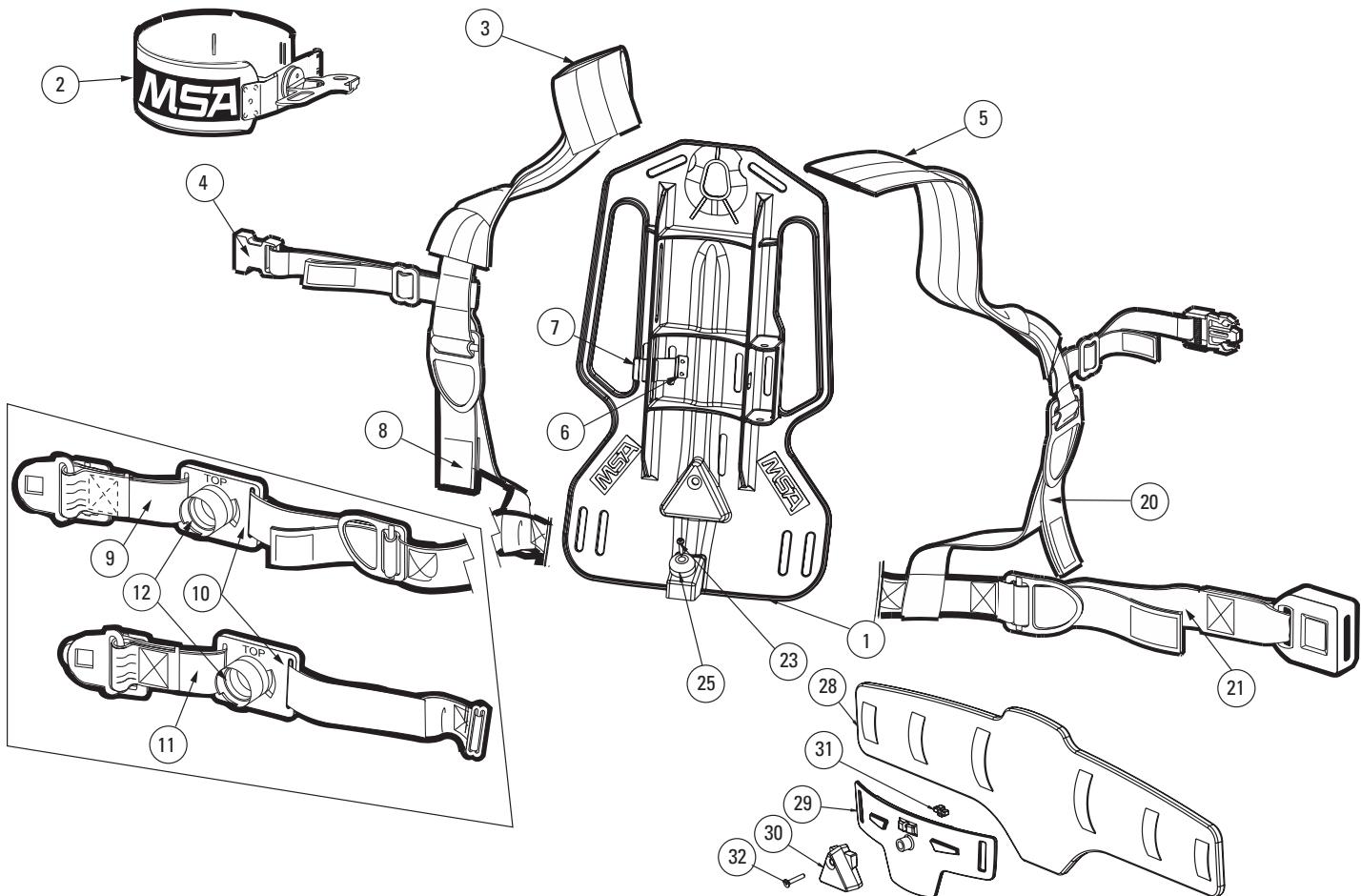
Prnt. Spec. 10000005389 (I) Mat. 10095091  
Doc. 10095091

# AirFrame FireHawk

## Carrier and Harness Assembly

### Double Pull

Low Pressure (P/N 10046846) / High Pressure (P/N 10046847)



Item	P/N	Description	Item	P/N	Description
1	10046842	Carrier Assembly*	20	818377	Right Pull Strap
2a	805430	Low Pressure Label	21	818374	Right Pull Belt
2b	805265	High Pressure Label	23	10048012	Screw
3	10048173	Left Shoulder Strap	25	66839	Bumper
4	10012167	Chest Strap Kit	26	10011767	Std. Lumbar Pad (Optional - Not Shown)
5	818381	Right Shoulder Strap	27	10055350	Swiveling Lumbar Pad (Optional)
6	10058780	Rivet (2 Req'd)	28	10047749	(Optional)
7	10066867	Adjustment Bracket	29	10026809	Support
8	818378	Left Double Pull Strap	30	10047748	Rubber Bearing
9	10025941	Left Double Pull Belt	31	10047751	Nut
10	10022245	Belt Clip	32	10048013	Screw
11	10025942	Left Single Pull Belt			
12	10018222	O-Ring (for P/N 812837 only)			

\* Items included in kit: backplate, band, retaining ring, springs, spring bushing, and pin. The cylinder band label is NOT included in this kit and must be purchased separately.

# HARNESS REPAIR

## CARRIER AND HARNESS REPAIR (TRI-BAR AND SLOT DESIGN)

### Removing the Shoulder Straps from Carrier

1. Right shoulder strap
  - a. Using an open-end wrench, disconnect the redundant alarm with harness gauge hose from the first stage regulator.
  - b. Unthread and remove from shoulder strap.
  - c. Unthread the free end of the pull-strap (waist) from the shoulder strap friction buckle.

d. Remove the shoulder strap from the carrier by rotating the tri-bar until it slides through the carrier slot.



2. Left shoulder strap
  - a. Disconnect the second stage regulator intermediate pressure hose from first stage regulator using an open end wrench.
  - b. Unthread the second stage intermediate pressure hose from the shoulder strap.
  - c. Unthread the free end of the pull-strap (waist) from the friction buckle of the shoulder strap.

d. Remove the shoulder strap from the carrier by rotating the tri-bar until it slides through the carrier slot.



## INSTALLING THE CHEST STRAP

### Removing the Pull-Strap (Waist) Belt Assembly from Carrier

1. Both left and right straps
  - a. Unthread the free end of the pull-strap (waist) from the shoulder strap friction buckle.
  - b. Remove the pull-strap (waist) from the carrier by rotating the tri-bar until it slides through the carrier slot.

### Connecting the Shoulder Straps Together

1. Right shoulder strap
  - a. Attach the shoulder strap to the carrier by rotating the tri-bar until it is aligned with carrier slot.
  - b. Pull on shoulder strap to ensure tribar is secure.
  - c. Thread the free end of the pull-strap (waist) through the shoulder strap friction buckle.
  - d. Slide the harness gauge hose with redundant alarm through the entire shoulder strap tunnel.
  - e. Remove the gauge hose o-ring. See the Regulator Repair section of this binder.
  - f. Install a new gauge hose o-ring with a thin film of Christo-Lube lubricant. See the Regulator Repair section of this binder.
  - g. Connect the gauge hose to the first stage regulator. See the Regulator Repair section of this binder.
  - h. Leak test all connections. See the Leak Test section of this binder.
2. Left shoulder strap
  - a. Attach the shoulder strap to the carrier by rotating the tri-bar until it is aligned with carrier slot.
  - b. Pull on the shoulder strap to ensure that the tri-bar is secure.
  - c. Thread the free end of the pull-strap (waist) through the shoulder strap friction buckle.
  - d. Slide the second stage pressure hose with redundant alarm through the entire shoulder strap tunnel.
  - e. Replace the second stage pressure hose o-ring with a new o-ring with a thin film of Christo-Lube lubricant. See the Regulator Repair section of this binder.
  - f. Connect the second stage pressure hose to the first stage regulator. See the Regulator Repair section of this binder.
  - g. Leak test all connections. See the Leak Test section of this binder.

### Reassembling the Pull-Strap (Waist)

1. Rotate the tri-bar strap until it is aligned with the carrier slot.
2. Slide the tri-bar through the carrier slot.
3. Pull on the strap to ensure that the tri-bar is secure.
4. Thread the pull-strap free end through the back of the friction buckle, over the top of the slide bar, and under the front of the curved buckle.

### Reassembling Double Pull-Strap (Waist)

1. Thread the strap-free end through the back of the friction buckle, over the top of the slide bar, and under the front of the curved buckle.

### Reassembling Single Pull-Strap (Waist)

1. Rotate the strap tri-bar until it is aligned with carrier slot.
2. Slide the tri-bar through the carrier slot.

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