(8) Perform negative-pressure check IAW paragraph 6.6.3.
(9) Install mask-mounted regulator in regulator holder.

6.7.3.2 Mask-Mounted Regulator Removal and Installation.

Tools, Parts, and Materials.
• O-ring, PN 18002-00
• Pliers, slip joint, soft-jawed
• Screwdriver, cross-tip, No. 2
• Sealing compound, Threadlocker, Loctite® Grade 222 - Hazardous Material
• Wrench, open-end, 3.8 inch
• Wrench, open-end, 5/8 inch
• Wrench, hex key, 7/64 inch

a. Removal.

(1) Bleed system IAW paragraph 6.6.1.
(2) If Heads-Up Display (HUD)(Configuration 4) is installed on mask-mounted regulator, remove HUD electrical cable (3, Figure 6-54) from Visualert® (5) by rotating knurled connector fully CCW by hand. If necessary, use soft-jawed slip joint pliers.

Figure 6-54. Visualert® and Low-Pressure Hose (Configuration 4 Shown).

(3) If Heads-Up Display (HUD)(Configuration 5) is installed on mask-mounted regulator, remove HUD electrical cable (2, Figure 6-55) from Visualert® with 3/8 inch open-end wrench, turning fully CCW.

Figure 6-55. Anti-Rotational Device (Configuration 5).
(4) If anti-rotational device (1) is installed on low-pressure hose (2, Figure 6-54), remove device using 7/64 inch socket head key wrench on two socket head screws (3), turning fully CCW. Set parts aside for installation.

(5) Using 5/8 inch open-end wrench, remove low-pressure hose (2) by rotating its coupling (1) fully CCW. Ensure cleanliness is maintained IAW paragraph 4.7.1.

(6) If bell alarm (Configurations 2 and 3) is attached, use No. 2 cross-tip screwdriver to remove screw (5, Figure 6-56) to remove screw attaching retaining strap (2) to mounting plate (1).

Figure 6-56. Bell Alarm Retaining Strap.

(7) Slowly and carefully remove low-pressure hose (3) from left shoulder strap (4).

b. Installation.

NOTE

The low-pressure hose must be threaded from the bottom and out top of left shoulder strap (as worn).

(1) Guide low-pressure hose (3, Figure 6-56) through left shoulder strap.

(2) Visually inspect O-ring (1, Figure 6-57) on low-pressure hose for nicks, cuts, wear and tear, or foreign debris. If necessary, remove and replace IAW paragraph 4.7.5.

Figure 6-57. Low-Pressure Hose O-Ring.

(3) Insert low-pressure hose (2, Figure 6-54) into low-pressure hose outlet and rotate its coupling (1) CW first by hand then with 5/8 inch open-end wrench to tighten. Do not overtighten.
(4) If anti-rotational device (1, Figure 6-55) was removed in removal procedure, re-attach device to low pressure hose (2) with two socket head key screws and 7/64 inch socket head key wrench, turning CW until snug.

(5) If bell alarm is attached, apply one drop of sealing compound to screw threads (5, Figure 6-56) and using No. 2 cross-tip screwdriver, attach retaining strap (2) to mounting plate (1).

**CAUTION**

If HUD is installed, ensure HUD electrical cable connector holes and Visualert® pins are aligned to prevent damage to equipment.

(6) If HUD is installed, align HUD electrical cable connector holes (1, Figure 6-58) with Visualert® pins (2).

![Figure 6-58. HUD Electrical Cable Connection.](image)

(7) Rotate knurled (or hex flat) connector (4, Figure 6-54) CW by hand to tighten. If hex flat connector, use 3/8 inch open-end wrench to turn connector another 1/2 turn past finger-tight.

(8) Perform leak check IAW paragraph 6.6.2. Ensure HUD initiates. If HUD does not initiate, repeat steps c.(5) and c.(6) and retest.

### 6.7.4 Pressure Reducer and Supported Component Corrective Maintenance (Configurations 1 - 3).

#### 6.7.4.1 Quick-Charge Assembly Mounting Block Removal and Installation.

**Tools, Parts, and Materials.**

- O-ring, PN 55810-00
- Ring, back-up, PN 18071-00
- Hex head key wrench (Allen wrench), 3/32 inch
- Hex head key wrench (Allen wrench), 7/64 inch

**a. Removal.**

(1) Bleed system IAW paragraph 6.6.1.
(2) Using 3/32 inch socket head key wrench, remove two socket head screws (1, Figure 6-59) securing quick-charge assembly mounting block (2) to pressure reducer. Set screws aside for installation.

![Figure 6-59. Quick-Charge Assembly Mounting Block.](image)

(3) If applicable, use 7/64 inch socket head key wrench to remove screws (1, Figure 6-60) from bracket (2) holding quick-charge assembly mounting block to pressure reducer.

![Figure 6-60. Bracket.](image)

**CAUTION**

To prevent equipment damage, take care not to drop mounting probe (Figure 6-61), which may stay attached to quick-charge assembly mounting block.

![Figure 6-61. Mounting Probe.](image)

(4) Lift quick-charge assembly mounting block from pressure reducer.
(5) Remove mounting probe (Figure 6-61) from pressure reducer or quick-charge assembly mounting block, as applicable. Ensure cleanliness is maintained IAW paragraph 4.7.1.

b. **Installation.**

**NOTE**

Back-up rings on mounting probe are split rings.

1. Inspect O-rings (2, Figure 6-61) and back-up rings (1) on mounting probe for nicks, cuts, wear and tear, or foreign debris. As necessary, remove and replace IAW 4.7.5.

2. Fully seat mounting probe into pressure reducer.

3. Carefully place quick-charge assembly mounting block over mounting probe and align screw holes.

4. Using 3/32 inch socket head screw wrench, reinstall two socket head screws (1, Figure 6-59) to secure quick-charge assembly mounting block (2) to pressure reducer.

5. If applicable, use 7/64 inch socket head screw wrench to install screws (1, Figure 6-60) to bracket (2) holding quick-charge assembly mounting block to pressure reducer.

6. Perform leak check IAW paragraph 6.6.2.

### 6.7.4.2 Remote Pressure Indicator Removal and Installation.

**Tools, Parts, and Materials.**

- Hammer, hand, machinist’s ball peen, 8 oz.
- O-ring, PN 55810-00
- Pin, roll, PN 33481-107
- Punch, pin, 5/64 inch
- Ring, back-up, PN 18071-00

a. **Removal.**

1. Bleed system IAW paragraph 6.6.1.

2. Remove quick-charge assembly mounting block IAW paragraph 6.7.4.1.

3. Place quick-charge assembly mounting block (3, Figure 6-62) on clean, hard surface, allowing space for roll pins (2) to be driven out.

![Figure 6-62. Remote Pressure Indicator High-Pressure Hose Roll Pin Removal.](image)


5. Pull remote pressure indicator high-pressure hose (1) from quick-charge assembly mounting block. Ensure cleanliness of remote pressure indicator high-pressure hose is maintained IAW paragraph 4.7.1.

6. Carefully remove remote pressure indicator high-pressure hose (3, Figure 6-63) from right shoulder strap (1) and rubber retaining strap (2).
b. **Installation.**

**NOTE**

Ensure remote pressure indicator high-pressure hose is threaded between the Kevlar® straps within the right shoulder strap, as worn.

1. Guide end of remote pressure indicator high-pressure hose (3, Figure 6-63) through rubber retaining strap (2) and right shoulder strap (1) from bottom and out the top, as worn.

**NOTE**

Backup ring is a split ring.

2. Inspect O-ring (1, Figure 6-64) and back-up ring (2) on remote pressure indicator high-pressure hose for nicks, cuts, wear and tear, or foreign debris. As necessary, remove and replace IAW paragraph 4.7.5.

**CAUTION**

To prevent equipment damage, ensure quick-charge assembly outlet port is free of foreign matter before inserting remote pressure indicator high-pressure hose.

3. Insert remote pressure indicator high-pressure hose (2, Figure 6-65) fully into quick-charge assembly outlet port. Ensure hose groove (3, Figure 6-64) is aligned with roll pin holes (1, Figure 6-65) and that roll pin holes are unobstructed.
(4) Inspect roll pins for cracks, bends, or mushroomed ends. Replace as required.
(5) Tap roll pins into roll pin holes using 5/64 inch pin punch and hammer.
(6) Install quick-charge assembly mounting block onto pressure reducer IAW paragraph 6.7.4.1.
(7) Perform leak check IAW paragraph 6.6.2.

6.7.4.3 **Bell Alarm Removal and Installation (Configurations 2 and 3).**

**Tools, Parts, and Materials.**
- Hammer, hand, machinist’s ballpeen, 8 oz.
- O-ring, PN 55810-00
- Pin, roll, PN 33481-107
- Punch, pin, 5/64 inch
- Ring, backup, PN 18071-00
- Screwdriver, cross-tip, No. 2
- Sealing compound, Threadlocker, Loctite®, Grade 222 - Hazardous Material

**a. Removal.**
(1) Bleed system IAW paragraph 6.6.1.
(2) Remove side strap from left shoulder strap spring-action buckle.
(3) Slide left shoulder strap spring-action buckle from shoulder pad.
(4) Using No. 2 cross-tip screwdriver, remove four screws (1, Figure 6-66) retaining strap (3), and mounting plate (2). Set aside for installation.
(5) Remove quick-charge assembly mounting block IAW paragraph 6.7.4.1.

(6) Place quick-charge assembly mounting block (3, Figure 6-67) on clean, hard surface, allowing space for roll pins (1) to be driven out.

![Figure 6-67. Bell Alarm High-Pressure Hose Removal.](image)

(7) Using 5/64 inch pin punch and hammer, carefully drive roll pins out of quick-charge assembly mounting block. Set roll pins aside for installation.

(8) Pull bell alarm high-pressure hose (2) from quick-charge assembly mounting block. Ensure cleanliness of bell alarm high pressure hose is maintained IAW paragraph 4.7.1.

(9) Carefully remove bell alarm high-pressure hose from left shoulder strap.

b. **Installation.**

   (1) Guide end of bell alarm high-pressure hose through left shoulder strap from the bottom and out the top, as worn.

   **NOTE**

   Backup ring is a split ring.

   (2) Inspect O-ring (2, Figure 6-68) and backup ring (1) on bell alarm high-pressure hose for nicks, cuts, wear and tear, or foreign debris. As necessary, remove and replace IAW paragraph 4.7.5.

![Figure 6-68. Bell Alarm O-ring and Backup Ring.](image)
To prevent equipment damage, ensure quick-charge assembly outlet port is free of foreign matter before inserting bell alarm high-pressure hose.

3. Insert bell alarm high-pressure hose (2, Figure 6-69) fully into quick-charge assembly outlet port. Ensure hose groove (3, Figure 6-68) is aligned with roll pin holes (1, Figure 6-69) and that roll pin holes are unobstructed.

![Figure 6-69. Bell Alarm High-Pressure Hose Alignment.](image)

4. Inspect roll pins for cracks, bends, or mushroomed ends. Replace as required.
5. Tap roll pins into roll pin holes using 5/64 inch pin punch and hammer.
6. Install quick-charge assembly mounting block onto pressure reducer IAW paragraph 6.7.4.1.
7. Turn bell alarm (3, Figure 6-70) face down and place Kevlar® portion of shoulder strap (2) over bell alarm.

![Figure 6-70. Bell Alarm Installation.](image)

8. Place mounting plate (1) over shoulder strap.
9. Wrap retaining strap (4) around low-pressure hose (5) and align holes in retaining strap with hole in mounting plate.
10. Apply a drop of sealing compound to screw threads (6) and use No.2 cross-tip screwdriver to install screws securing retaining strap. Do not overtighten.
11. Repeat step b.(10) on three remaining screws.
(12) Position shoulder strap spring-action buckle within shoulder pad.
(13) Insert side strap through spring-action buckle.
(14) Perform leak check IAW paragraph 6.6.2..

6.7.4.4 **High-Pressure Hose Assembly Nipple Seal Gasket Removal and Installation.**

**Tools, Parts, and Materials.**
- Gasket, Nipple Seal, PN 57264-00
- Hex head key wrench (Allen wrench), 1/8 inch

a. **Removal.**

(1) Bleed system IAW paragraph 6.6.1.
(2) Rotate hand-coupling (1, Figure 6-71) CCW and remove high-pressure hose assembly from cylinder valve.

![Figure 6-71. High-Pressure Hose Assembly.](image)

**NOTE**

Do not remove hand coupling from the high-pressure hose assembly when replacing nipple seal gasket. Only remove retaining screw and nipple seal gasket.

(3) Using 1/8 inch socket head key wrench, remove retaining screw (4) from center of nipple seal shaft (2) and set aside for installation.
(4) Remove nipple seal gasket and discard.

b. **Installation.**

(1) Inspect new nipple seal gasket for any damage. Replace as necessary.
(2) Install nipple seal gasket (3) onto nipple seal shaft (2).
(3) Using 1/8 inch socket head key wrench, install retaining screw (4) into center of nipple seal shaft.
(4) Rotate hand coupling (1) CW to reconnect high-pressure hose assembly to cylinder valve.
(5) Perform leak check IAW paragraph 6.6.2.
6.7.4.5 High-Pressure Hose Assembly Removal and Installation.

Tools, Parts, and Materials:
- Hammer, hand, machinist’s ballpeen, 8 oz.
- O-ring, PN 55622-00
- Punch, pin, 1/8 inch
- Ring, backup, PN 18071-02

a. Removal.
(1) Remove cylinder assembly IAW paragraph 2.3.2.2.
(2) Lay backframe and harness assembly on clean work surface with cylinder band clamp facing down.
(3) Using 1/8 inch pin punch and hammer, tap out two roll pins (2, Figure 6-72) securing high-pressure hose assembly (1) to pressure reducer (3).

![Figure 6-72. High-Pressure Hose Assembly Removal.](image)

(4) Pull high-pressure hose assembly from pressure reducer.

b. Installation.
(1) Inspect O-ring (1, Figure 6-73) and backup ring (2) on high-pressure hose assembly for nicks, cuts, wear and tear, or foreign debris. If necessary, remove and replace IAW paragraph 4.7.5.

![Figure 6-73. High-Pressure Hose Assembly O-ring and Backup Ring.](image)

(2) Inspect roll pins for cracks, bends, or mushroomed ends. Replace as required.