(9) Screw the knurled part of the HUD electrical connection into the remote pressure indicator console, turning CW until tight. Do not overtighten.

(10) Slide the plastic cap over the HUD electrical cable and fasten by turning it CW until tight. Do not overtighten.

(11) Attach remote pressure indicator console to harness by stretching rubber strap hole (1, Figure 6-97) around knob on side of remote pressure indicator console. Repeat for other side.

(12) Install cylinder assembly IAW paragraph 2.3.2.2.

(13) Perform leak check IAW paragraph 6.6.2.

6.7.6.3 **RIC UAC Assembly Nipple Seal Gasket Removal and Installation.**

**Tools, Parts, and Materials.**
- Gasket, Nipple Seal, PN 57264-00
- Wrench, socket head key (Allen wrench), 1/8 inch
- Wrench, open-end, 1/2 inch

a. **Removal.**

   (1) Bleed system IAW paragraph 6.6.1.

   (2) Rotate hand coupling (4, Figure 6-105) CCW and remove RIC UAC assembly from cylinder valve.
NOTE

Do not remove hand coupling from RIC UAC assembly when replacing nipple seal gasket. Only remove retaining screw and nipple seal gasket.

(3) Hold nipple seal shaft under hand coupling with 1/2 inch open-end wrench while using 1/8 inch socket head key wrench to remove retaining screw (1) from center of nipple seal shaft (3) and set aside for installation.

(4) Remove nipple seal gasket (2) and discard.

b. Installation.

(1) Inspect new nipple seal gasket for any damage. Replace as required.
(2) Install nipple seal gasket (2) onto center of nipple seal shaft (3).
(3) Hold nipple seal shaft under hand coupling with 1/2 inch open-end wrench and use 1/8 inch socket head key wrench to install retaining screw (1) into center of nipple seal shaft.
(4) Rotate hand coupling (4) CW to reconnect RIC UAC assembly to cylinder valve.
(5) Perform leak check IAW paragraph 6.6.2.

6.7.6.4 RIC UAC 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) Bleed system IAW paragraph 6.6.1.
(2) Remove cylinder assembly IAW paragraph 2.3.2.2.

(3) Lay backframe and harness assembly on clean work surface with cylinder band clamp facing down.

(4) Using punch pin and hammer, tap out two roll pins (2, Figure 6-106) securing RIC UAC assembly (1) to pressure reducer (3).

![Figure 6-106. RIC UAC Assembly Removal.]

(5) Pull RIC UAC assembly from pressure reducer.

b. **Installation.**

(1) Inspect O-ring (1, Figure 6-107) and backup ring (2) on RIC UAC assembly for nicks, cuts, wear and tear, or foreign debris. If necessary, remove and replace IAW paragraph 4.7.5.

![Figure 6-107. RIC UAC Assembly O-ring, and Backup Ring.]

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

**CAUTION**

To prevent equipment damage, ensure RIC UAC assembly inlet port is free of foreign matter before installing RIC UAC assembly.

(3) Insert RIC UAC assembly (1, Figure 6-106) into pressure reducer. Ensure RIC UAC assembly groove (3, Figure 6-107) aligns with pinholes and that pinholes are unobstructed.
CAUTION

Ensure RIC UAC assembly groove aligns with pin holes to prevent damage to equipment.

(4) While holding RIC UAC assembly firmly in place, insert roll pins (2, Figure 6-106) and lightly tap in place with hammer until roll pins are flush with pressure reducer (3).

(5) Replace cylinder assembly IAW paragraph 2.3.2.2.

(6) Perform leak check IAW paragraph 6.6.2.

6.7.6.5 Pressure Reducer Removal and Installation.

Tools, Parts, and Materials.

- Wrench, open-end, 5/8 inch
- Wrench, socket head key (Allen Wrench), 7/64 inch
- Wrench, socket head key (Allen Wrench), 3/32 inch
- Wrench, socket head key (Allen Wrench), 5/32 inch

a. Removal.

(1) Bleed system IAW paragraph 6.6.1.

(2) Remove cylinder assembly IAW paragraph 2.3.2.2.

(3) Remove RIC UAC assembly IAW paragraph 6.7.6.4.

(4) Remove anti-rotational device (1, Figure 6-108) on low-pressure hose (2) using 7/64 inch socket head key wrench on two socket head screws (3), turning fully CCW. Set parts aside for installation.

Figure 6-108. Anti-Rotational Device on Low-Pressure Hose.

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

(6) Using 3/32 inch socket head key wrench, loosen two screws (1, Figure 6-109) from remote pressure indicator console high-pressure hose mounting block (2).
(7) Lift remote pressure indicator console high-pressure hose mounting block from pressure reducer. Set screws aside for installation.

**CAUTION**

To prevent damage to equipment, take care not to drop mounting probe (Figure 6-110) which may stay attached to remote pressure indicator console high-pressure hose mounting block.

(8) Remove mounting probe (Figure 6-110) from pressure reducer or remote pressure indicator console high-pressure hose mounting block, as applicable. Ensure cleanliness is maintained IAW paragraph 4.7.1.

(9) Using 5/32 inch socket head key wrench, remove mounting screws (4, Figure 6-111), sliding washers (2), and spacers securing pressure reducer (1) to mounting plate (3) on frame. Set hardware aside for installation.
b. Installation.
   (1) Inspect pressure reducer for any visible sign of damage. Replace as required.
   (2) Install pressure reducer (1) onto mounting plate (3) on frame with 5/32 inch socket head key wrench, using mounting screws (4), sliding washers (2), and spacers.
   (3) Fully seat mounting probe into pressure reducer.
   (4) Carefully place remote pressure indicator console high-pressure hose mounting block over mounting probe and onto pressure reducer.
   (5) Using 3/32 inch socket head key wrench, install two screws (1, Figure 6-109) into remote pressure indicator console high-pressure hose mounting block (2), turning CW until tight. Do not overtighten.
   (6) Using 5/8 inch open-end wrench, install low-pressure hose by rotating low-pressure hose coupling fully CW until tight. Do not overtighten.
   (7) Install anti-rotational device on low-pressure hose using 7/64 inch socket head key wrench on two socket head screws, turning fully CW until tight. Do not overtighten.

   NOTE
   Perform leak check after all components have been installed.
   (8) Install RIC UAC assembly IAW paragraph 6.7.5.4.
   (9) Replace cylinder assembly IAW paragraph 2.3.2.2.
   (10) Perform leak check IAW paragraph 6.6.2.

6.7.6.6 Remote Pressure Indicator Console High-Pressure Hose Removal and Installation.
Tools, Parts, and Materials.
   • Hammer, hand, machinists’ ball peen, 8 oz.
   • Punch, pin, 5/64 inch
   • Wrench, socket head key (Allen wrench), 3/32 inch

a. Removal.
   (1) Bleed system IAW paragraph 6.6.1.
   (2) Remove cylinder assembly IAW paragraph 2.3.2.2.
   (3) Remove remote pressure indicator console IAW paragraph 6.7.6.2.
   (4) Using 3/32 inch socket head key wrench, fully loosen two screws (1, Figure 6-112) from remote pressure indicator console high-pressure hose mounting block (2).
(5) Lift remote pressure indicator console high-pressure hose mounting block from pressure reducer. Set screws aside for installation.

**CAUTION**

To prevent equipment damage, take care not to drop mounting probe (Figure 6-113) which may stay attached to remote pressure indicator console high-pressure hose mounting block.

(6) Remove mounting probe (Figure 6-113) from pressure reducer or remote pressure indicator console high-pressure hose mounting block, as applicable. Ensure cleanliness is maintained IAW paragraph 4.7.1. Set mounting probe aside for installation.

(7) Place remote pressure indicator console high-pressure hose mounting block (3, Figure 6-114) on clean, hard surface, allowing space for roll pins (2) to be driven out.
(8) Using 8 oz. ball peen hammer and 5/64 inch pin punch, tap out two roll pins securing remote pressure indicator console high-pressure hose to mounting block.

(9) Pull remote pressure indicator console high-pressure hose (1) from mounting block. Ensure cleanliness of remote pressure indicator console high-pressure hose is maintained IAW paragraph 4.7.1.

(10) Unclip remote pressure indicator console high-pressure hose (1, Figure 6-115) from dual hose clip (2).

Figure 6-114. Remote Pressure Indicator Console High-Pressure Hose Roll Pin Removal.

(11) Carefully remove remote pressure indicator console high-pressure hose from right shoulder strap.

b. Installation.

NOTE

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

(1) Guide end of remote pressure indicator console high-pressure hose (1) through right shoulder strap from bottom and out the top, as worn.

(2) Attach remote pressure indicator console high-pressure hose (1) to dual hose clip (2).

(3) Install remote pressure indicator console IAW paragraph 6.7.6.2.
NOTE

Backup ring is a split ring.

(4) Inspect o-ring (1, Figure 6-116) and backup ring (2) on remote pressure indicator console 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 remote pressure indicator console high-pressure hose mounting block outlet port is free of foreign matter before inserting remote pressure indicator console high-pressure hose.

(5) Insert remote pressure indicator console high-pressure hose fully into remote pressure indicator console high-pressure hose mounting block outlet port. Ensure hose groove (3) is aligned with roll pin holes and that roll pin holes are unobstructed.

(6) Inspect roll pin holes for cracks, bends, or mushroomed ends. Replace as required.

(7) Tap roll pins into roll pin holes using 5/64 inch pin punch and 8 oz. ball peen hammer.

(8) Fully seat mounting probe into pressure reducer.

(9) Carefully place remote pressure indicator console high-pressure hose mounting block over mounting probe and onto pressure reducer.

(10) Using 3/32 inch socket head key wrench, install two screws (1, Figure 6-109) into remote pressure indicator console high-pressure hose mounting block (2), turning CW until tight. Do not overtighten.

(11) Replace cylinder assembly IAW paragraph 2.3.2.2.

(12) Perform leak check IAW paragraph 6.6.2.
6.7.7 Backframe and Harness Assembly Corrective Maintenance.

6.7.7.1 Hip Pad Assembly Removal and Installation.

a. Removal.
   (1) Bleed system IAW paragraph 6.6.1.
   (2) Remove cylinder assembly IAW paragraph 2.3.2.2.
   (3) Remove side strap (4, Figure 6-117) from shoulder strap spring-action buckle (3). Repeat for the other side strap.

   ![Figure 6-117. Remove Hip Pad Assembly.](image)

   (4) Remove waist adjustment strap (1) from waist strap spring-action buckle (2). Repeat for other waist adjustment strap.
   (5) Unsnap hip pad assembly from backframe.

   **CAUTION**
   Do not use tools to remove hip pad assembly; tools may damage equipment.
   (6) Pull hip pad assemblies from waist-strap spring-action buckles and side straps.

b. Installation.
   (1) Inspect hip pad assembly for any visible signs of damage. Replace as required.
   (2) Position hip pad assembly with snap receptacles facing up as shown in Figure 6-118.
(3) Feed waist strap spring-action buckles (2, Figure 6-117) and side straps (4) through hip assembly (5); position side straps.
(4) Snap hip pad assembly to backframe.
(5) Feed side strap through shoulder strap spring action buckle (3). Folded seam will face teeth of buckle. Repeat for other side strap.
(6) Repeat step (5) for waist adjustment straps (1) and waist strap spring-action buckles.
(7) Replace cylinder assembly IAW paragraph 2.3.2.2.
(8) Perform leak check IAW paragraph 6.6.2.

6.7.7.2 Shoulder Pad Assembly Removal and Installation.

a. Removal.
   (1) Bleed system IAW paragraph 6.6.1.

   **NOTE**
   Remove only those components necessary to replace affected shoulder pad.

   (2) Remove bell alarm IAW paragraph 6.7.4.3 (Configurations 2 and 3).
   (3) Remove mask-mounted regulator IAW paragraph 6.7.3.2.
   (4) Remove remote pressure indicator IAW either paragraph 6.7.4.2 for Configurations 1-3, paragraph 6.7.5.1 for Configuration 4, or paragraph 6.7.6.2 for Configuration 5.
   (5) Unsnap shoulder strap from shoulder pad.
   (6) Remove side strap (4, Figure 6-119) from shoulder strap spring-action buckle (3).
Figure 6-119. Remove Shoulder Pad Assembly.

(7) Remove shoulder pad assembly (5).

b. Installation.
   (1) Inspect shoulder pad assembly for any visible sign of damage. Replace as required.
   (2) Position shoulder pad assembly (5) with label facing up.
   (3) Feed shoulder strap spring-action buckle (3) through shoulder pad assembly.
   (4) Snap shoulder strap to shoulder pad assembly.
   (5) Feed side strap through shoulder strap spring-action buckle. Folded seam will face teeth of buckle.

   **NOTE**

   Perform leak check after all components have been reinstalled.

   (6) Install remote pressure indicator IAW either paragraph 6.7.4.2 for Configurations 1-3, paragraph 6.7.5.1 for Configuration 4, or paragraph 6.7.6.2 for Configuration 5.
   (7) Install mask-mounted regulator IAW paragraph 6.7.3.2.
   (8) Install bell alarm IAW paragraph 6.7.4.3 (Configurations 2 and 3).
   (9) Perform leak check IAW paragraph 6.6.2.

6.7.7.3 Backframe and Harness Assembly Removal and Installation.

Tools, Parts, and Materials.
• Wrench, socket head key (Allen wrench), 5/32 inch

a. Removal.
   (1) Bleed system IAW paragraph 6.6.1.
   (2) Remove cylinder assembly IAW 2.3.2.2.
   (3) Remove mask-mounted regulator IAW 6.7.3.2.
   (4) Remove bell alarm IAW paragraph 6.7.4.3 (Configurations 2 and 3).
   (5) Remove remote pressure indicator IAW either paragraph 6.7.4.2 for Configurations 1-3 or paragraph 6.7.5.1 for Configuration 4.
   (6) Using 5/32 inch socket head key wrench, remove mounting screws and sliding washers (1, Figure 6-120) from mounting plate (4). Set aside for installation.
b. **Installation.**

1. Inspect backframe and harness assembly for any visible sign of damage. Replace as required.
2. Inspect pressure reducer for any visible sign of damage. Replace as required.
3. Align screw holes in side of pressure reducer (3) with slots (2) in mounting plate.
4. Using 5/32 inch socket head key wrench, install mounting screws and sliding washers (1).

**NOTE**

Perform leak check after all components have been reinstalled.

5. Install remote pressure indicator IAW either paragraph 6.7.4.2 for Configurations 1-3, paragraph 6.7.5.1 for Configuration 4, or paragraph 6.7.6.2 for Configuration 5.
6. Install bell alarm IAW paragraph 6.7.4.3 (Configurations 2 and 3).
7. Install mask-mounted regulator IAW paragraph 6.7.3.2.
8. Replace cylinder assembly IAW paragraph 2.3.2.2.