(5) Perform leak check IAW paragraph 6.6.2.

6.7.5.4 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) 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 punch pin and hammer, tap out two roll pins (2, Figure 6-89) securing RIC UAC assembly (1) to pressure reducer (3).

   ![Figure 6-89. RIC UAC Assembly Removal.](image)

(4) Pull RIC UAC assembly from pressure reducer.

b. Installation.
   (1) Inspect O-ring (1, Figure 6-90) 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 6-90. RIC UAC Assembly O-ring, and Backup Ring.](image)

(2) Inspect roll pins for cracks, bends, or mushroomed ends. Replace as required.
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 into pressure reducer. Ensure RIC UAC assembly groove (3) aligns with pinholes and that pinholes are unobstructed.

CAUTION
Ensure RIC UAC assembly groove aligns with pinholes to prevent damage to equipment.

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

(5) Replace cylinder assembly IAW paragraph 2.3.2.2.

(6) Perform leak check IAW paragraph 6.6.2.

6.7.5.5 Pressure Reducer Removal and Installation.

Tools, Parts, and Materials.
- Wrench, open-end, 5/8 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 6.7.5.4.
(4) Using 5/8 inch open-end wrench, remove low-pressure hose (2, Figure 6-91) by rotating low-pressure hose coupling (1) fully CCW.

Figure 6-91. Low-Pressure Hose.

(5) Remove pressure reducer and Visuaalert® mounting block IAW paragraph 6.7.5.1.

b. Installation.

(1) Inspect pressure reducer for any visible sign of damage. Replace as required.
(2) Install Visuaalert® mounting block and pressure reducer IAW paragraph 6.7.5.1.

NOTE
Perform leak check after all components have been installed.

(3) Using 5/8 inch open-end wrench, install low-pressure hose (2) by rotating low pressure hose coupling (1) fully CCW.
(4) Install RIC UAC assembly IAW paragraph 6.7.5.4.
(5) Replace cylinder assembly IAW paragraph 2.3.2.2.
(6) Perform leak check IAW paragraph 6.6.2.

6.7.6 Pressure Reducer and Supported Components Corrective Maintenance (Configuration 5).

6.7.6.1 HUD Electrical Cable Connector Removal and Installation.

Tools, Parts, and Materials.

- Wrench, open-end, 5/16 inch
- Wrench, open-end, 3/8 inch
- Screwdriver, cross-tip, No. 1

a. Removal.

(1) Bleed system IAW paragraph 6.6.1.

(2) Remove cylinder assembly IAW paragraph 2.3.2.2.

(3) Unscrew the plastic cap (1, Figure 6-92) over HUD electrical cable connection (2) to remote pressure indicator console (3) by turning it CCW and pull back a few inches.

(4) Unscrew CCW the knurled part of the HUD electrical cable connection (2), using soft-jawed pliers if necessary. Pull the connection out of the remote pressure indicator console (3).

(5) Using a 3/8 inch open-end wrench, loosen HUD electrical cable (1, Figure 6-93) from connector by turning fully CCW. Once loose, pull cable free.
(6) Use 5/16 inch open-end wrench to hold nylon hex nut (1, Figure 6-94) in place while using No. 1 cross-tip screwdriver to loosen and remove screw (2), turning CCW. Keep turning screw CCW until it is completely out of connector. Set screw and nut aside for installation.

(7) Unclip HUD electrical cable from dual hose clip and carefully pull HUD electrical cable out of shoulder sleeve.

b. Installation.

(1) Inspect connector and cable for any visible damage, replace as required.

(2) Align hole in connector with hole in clamp on vertical frame bar. With No. 1 cross-tip screwdriver, start turning the screw through the clamp and into the connector, turning enough times so that the screw protrudes through the other side.

(3) Position the connector and screw so that the screw end will pass through the hole in the clamp on the horizontal frame bar.

(4) Place nylon hex nut (1, Figure 6-94) on screw end and turn CCW once or twice so that it is secured to the screw.

(5) Use 5/16 open-end wrench to hold nut in place while using No. 1 cross-tip screwdriver on the screw (2), turning it CW until snug.

(6) Pass HUD electrical cable through shoulder sleeve to remote pressure indicator console.
CAUTION

Ensure HUD electrical cable connector holes and Visualert® pins are aligned to prevent equipment damage.

(7) Align HUD electrical cable holes (1, Figure 6-95) with connector pins (2) and connect.

![Figure 6-95. HUD Electrical Cable Connection.](image1)

(8) Using 3/8 inch open-end wrench, tighten HUD cable connector to Visualert®, turning CW until tight. Do not overtighten.

CAUTION

Ensure HUD electrical cable tab and pins align with remote pressure indicator console notch and holes to prevent equipment damage.

(9) Align HUD electrical cable tab and pins with remote pressure indicator console notch and holes and connect. See Figure 6-96.

![Figure 6-96. HUD Electrical Cable and Remote Pressure Indicator Console Connections.](image2)
Screw the knurled part of the HUD electrical connection into the remote pressure indicator console, turning CW until tight. Do not overtighten.

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

Clip the HUD electrical cable onto the dual hose clip.

6.7.6.2 Remote Pressure Indicator Console Removal and Installation.

Tools, Parts, and Materials.
- Wrench, socket head key (Allen wrench), 3/32 inch
- Pliers, needle-nose
- Screwdriver, flat-tip, 3/8 inch
- Batteries, non-rechargeable, size AA, 2 - Hazardous Material

a. Removal.

(1) Bleed system IAW paragraph 6.6.1.

(2) Remove cylinder assembly IAW paragraph 2.3.2.2.

(3) Detach remote pressure indicator console from harness by stretching rubber strap (1, Figure 6-97) on side of remote pressure indicator console; this opens the hole in the strap and allows the remote pressure indicator console to be unhooked. Repeat for other side.

(4) Unscrew the plastic cap (1, Figure 6-98) over HUD electrical cable connection (2) to remote pressure indicator console (3) by turning it CCW and pull back a few inches.

Figure 6-97. Rubber Strap Securing Remote Pressure Indicator Console to Harness.
Unscrew CCW the knurled part of the HUD electrical cable connection (2), using soft-jawed pliers if necessary. Pull the connection out of the remote pressure indicator console (3).

Using 3/32 inch socket head key wrench, loosen (by turning CCW) and remove socket head screw (1, Figure 6-99) next to remote pressure indicator console high-pressure hose.

Using needle-nose pliers, remove retaining clip (2) securing remote pressure indicator console high-pressure hose (3) to remote pressure indicator console. Retain clip for installation.

Pull remote pressure console high-pressure hose from remote pressure indicator console. Ensure cleanliness is maintained IAW paragraph 4.7.1.

Remove two AA batteries in remote pressure indicator console as follows:
(a) Using 3/8 inch flat-tip screwdriver, loosen and remove two battery covers (1, Figure 6-100).
b. **Installation.**

   (1) Inspect remote pressure indicator console for any visible sign of damage. Replace as required.

   (2) Install two AA batteries in remote pressure indicator as follows:

      (a) Using 3/8 inch flat-tip screwdriver, loosen and remove two battery covers (1, Figure 6-100).

      **NOTE**

      Do not mix old and new batteries or batteries from different manufacturers. Use of rechargeable batteries is prohibited by Scott®. Using batteries other than those specified in Table 7-16 will void the intrinsic safety listing of the remote pressure indicator console.

      (b) Install two AA batteries into battery chamber, ensuring the polarity of the battery end at the top of the chamber matches the polarity indicated on the side of the remote pressure indicator console. See Figure 6-101.
Figure 6-101. Battery Polarity Markings on Remote Pressure Console Matches Installed Batteries.

(c) Reattach battery covers and fasten using 3/8 inch flat-tip screwdriver, turning CW until tight. Do not overtighten.

(3) Inspect retaining clip for cracks, bends, or mushroomed ends. Replace as required.

**NOTE**

Backup ring is a split ring.

(4) Inspect O-ring (1, Figure 6-102) 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.

Figure 6-102. Remote Pressure Indicator Console High-Pressure Hose O-Ring and Backup Ring.
To prevent equipment damage, ensure remote pressure indicator console high-pressure hose port is free of foreign matter before inserting remote pressure indicator console high-pressure hose.

(5) Insert remote pressure indicator console high-pressure hose (3, Figure 6-99) fully into remote pressure indicator console. Ensure hose groove (3, Figure 6-102) is aligned with retaining clip holes (1, Figure 6-103) and that retaining clip holes are unobstructed.

![Figure 6-103. Retaining Clip Holes.](image)

**WARNING**
Install retaining clip into bottom of remote pressure indicator console on inside only. Failure to install retaining clip on correct side could cause serious injury to personnel.

(6) Fully insert retaining clip (2, Figure 6-99) into retaining clip holes to secure remote pressure indicator console high-pressure hose.

**NOTE**
Perform leak check after all components have been installed.

(7) Using 3/32 inch socket head key wrench, insert and fasten (by turning CW) socket head screw (1, Figure 6-99) into hole next to remote pressure indicator console high-pressure hose. This secures retaining clip in remote pressure indicator console high-pressure hose connection.

(8) Align HUD electrical cable tab and pins with remote pressure indicator console notch and holes and connect. See Figure 6-104.
Figure 6-104. HUD Electrical Cable and Remote Pressure Indicator Console Connections.

(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.