

INSTRUCTIONS FOR REPLACING THE SV-1 VALVE PACK ON INTERNATIONAL TRUCKS

THIS KIT CONTAINS:

HADLEY		
PART NO.	PART NAME	QTY
H16500	3/8-16 x 3/4" GRADE 8 BOLTS	2
H16501	3/8" DIA. SPLIT LOCK WASHERS	2
H15037	90° - 1/4" TUBE DOT PTC FITTING	1
H15572	STRAIGHT 1/4" TUBE DOT FITTING	1
H15313	3/8" TUBE PLUG	1
H15589	HADLEY SOLENOID DUMP VALVE	1
H13110-1	1/4" OD TUBING	9'



SUSPENSION

TO RETROFIT:

SEE PAGES:

IROS 4x2	2 and 3
IROS 6x4	2,3 AND NOTE 1 ON PAGE 4
HAS 4x2	2,3 AND NOTE 3 ON PAGE 4
HAS 6x4	2,3 AND NOTE 2 ON PAGE 4



HADLEY SOLENOID DUMP VALVE SYSTEM FUNCTION TEST

1. Turn ignition on and flip dump switch. Suspension should dump.
2. Flip dump switch back and return suspension to normal ride height.
3. Dump suspension to the bumpers and turn the ignition off. Suspension should remain dumped.
4. Turn ignition on. Suspension should remain dumped.
5. Flip dump switch. Suspension should return to normal ride height.

IROS 4x2 Air Suspension Dump System

Instructions for replacing chassis crossmember mounted solenoid valve/SV-1 valve pack with new Hadley Solenoid Dump Valve.
(see page 1 for other suspension model instructions)

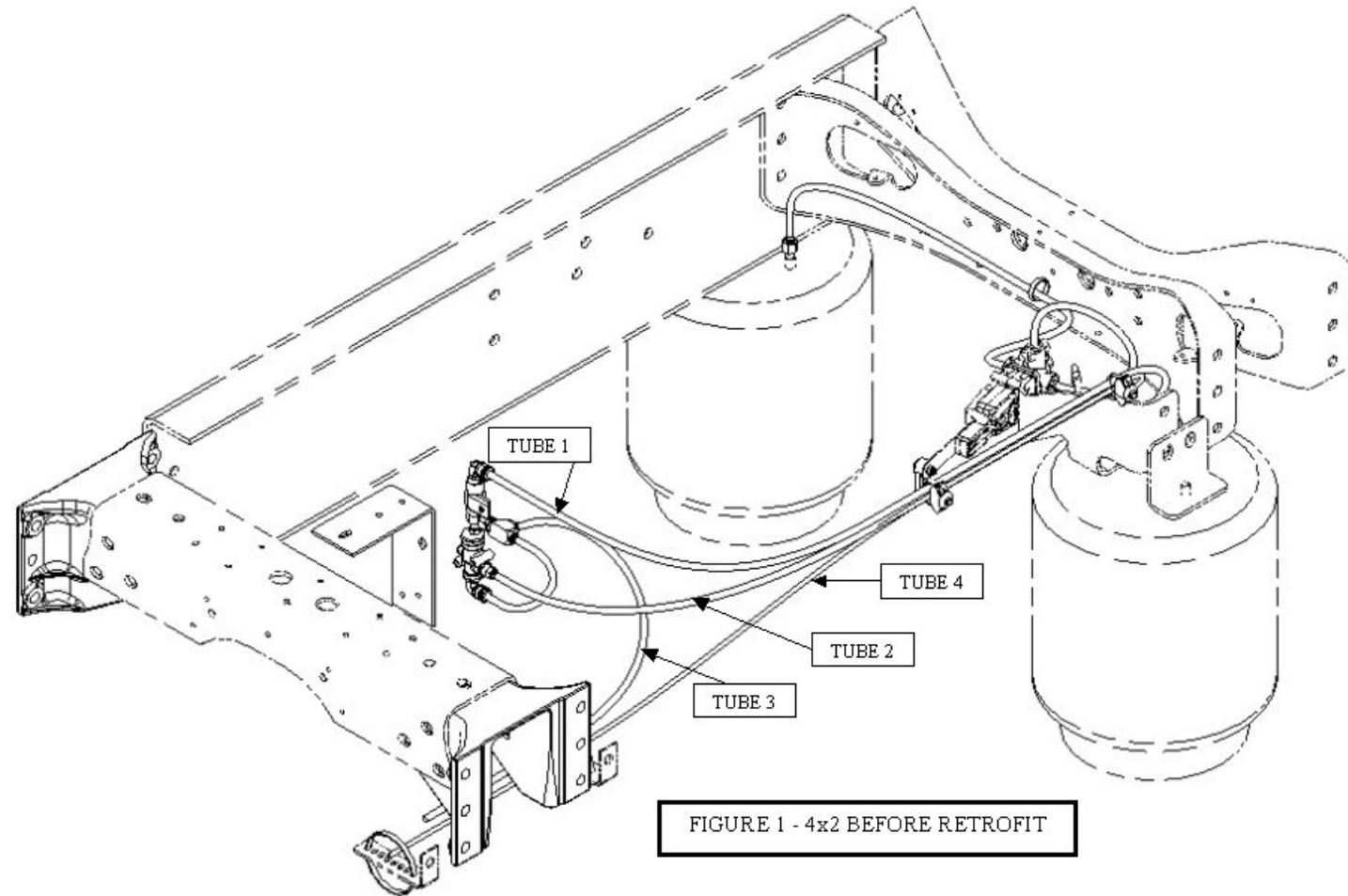


FIGURE 1 - 4x2 BEFORE RETROFIT

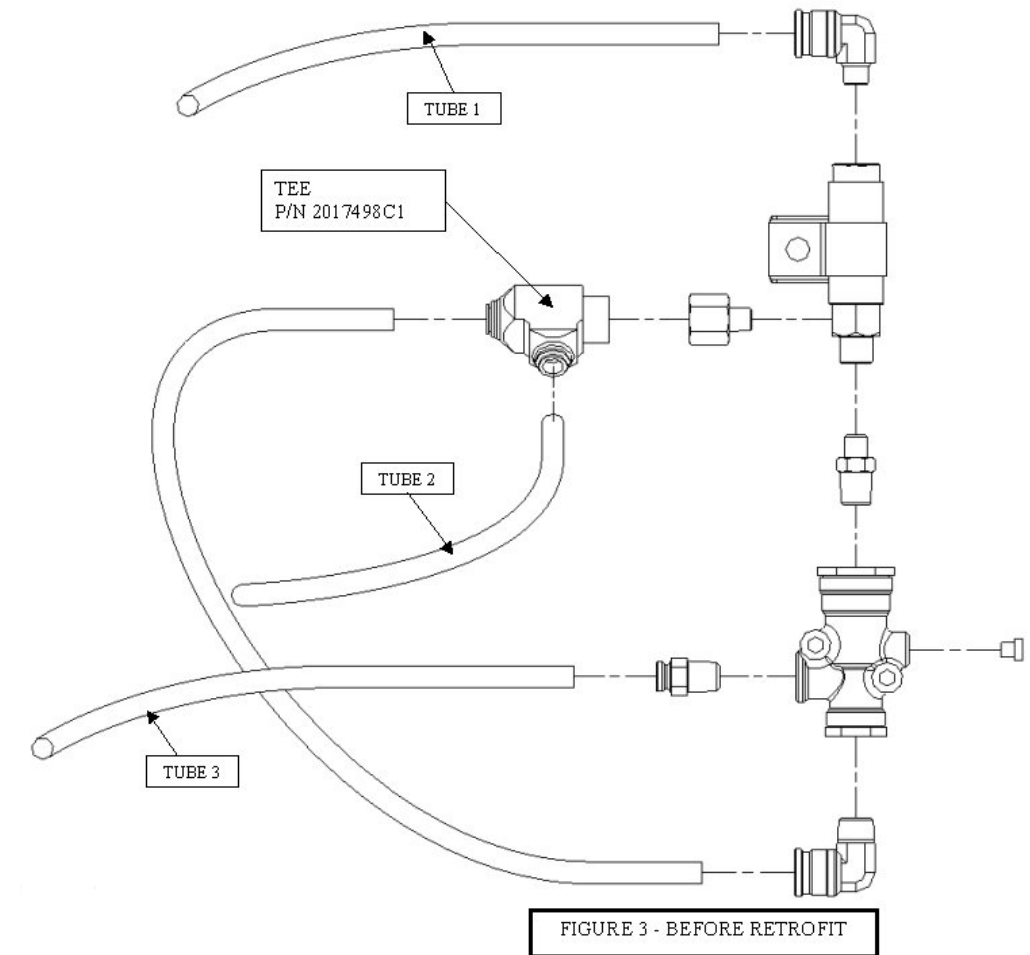


FIGURE 3 - BEFORE RETROFIT

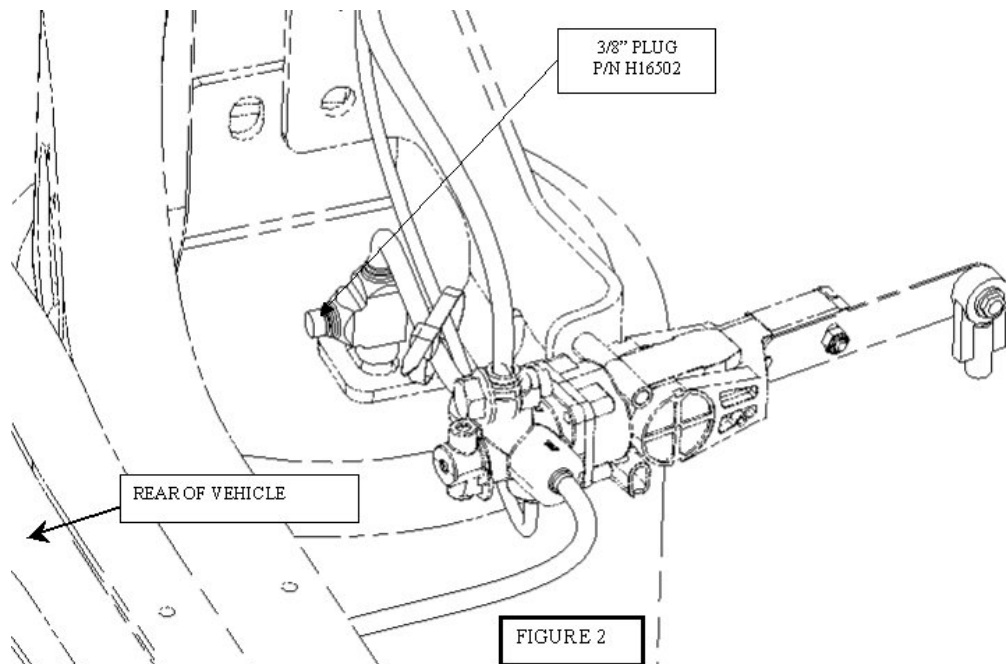


FIGURE 2

- (1) At left rear bag, air supply tee (see Figure 2), remove tube 1 that goes back to the elbow on top of the chassis mounted solenoid valve; plug the open tee fitting using H16502 Tube Plug.
- (2) Remove the solenoid valve/SV-1 assembly from the chassis (see Figure 1), disconnecting all air lines (see Figure 3) as well as the one electrical connection, lay the material aside. Remove tube 1 from chassis and discard.
- (3) Remove the 2017498C1 “Tee” fitting located on the side of the solenoid valve (see Figure 3) that was just removed from the chassis. Install into port “B” of the new Hadley Solenoid Dump Valve (see Figure 5).
- (4) Install straight fitting H15572 (1/8”NPT x 1/4 tube) into port C of the new Hadley Solenoid Dump Valve. Install elbow fitting H15037 (1/8”NPT x 1/4 tube elbow) into port A of the new Hadley Latching Valve (see Figure 5).

- (5) Install the new Hadley Solenoid Dump Valve onto the bracket using the 2 H16500 3/8-16x 3/4" Bolts and H15501 3/8" Lock washers. Torque bolts to 25 ft lbs maximum. DO NOT OVER TORQUE. (see Figure 4)
- (6) Connect tube 2 into the tee (in port B) on the new Hadley Solenoid Dump Valve (see Figure 5).
- (7) Connect tube 3 into the other port of the tee (in port B) on the new Hadley Solenoid Dump Valve (see Figure 5).
- (8) Cut tube 4 approximately 12" to the rear of the crossmember where the Hadley Solenoid Dump Valve is mounted. Plug the cut end of the forward portion of the line into port B (see Figure 4).
- (9) Connect 1 end of H13110-1 1/4" DOT Tubing into port C of the new Hadley Solenoid Dump Valve (see Figure 4).

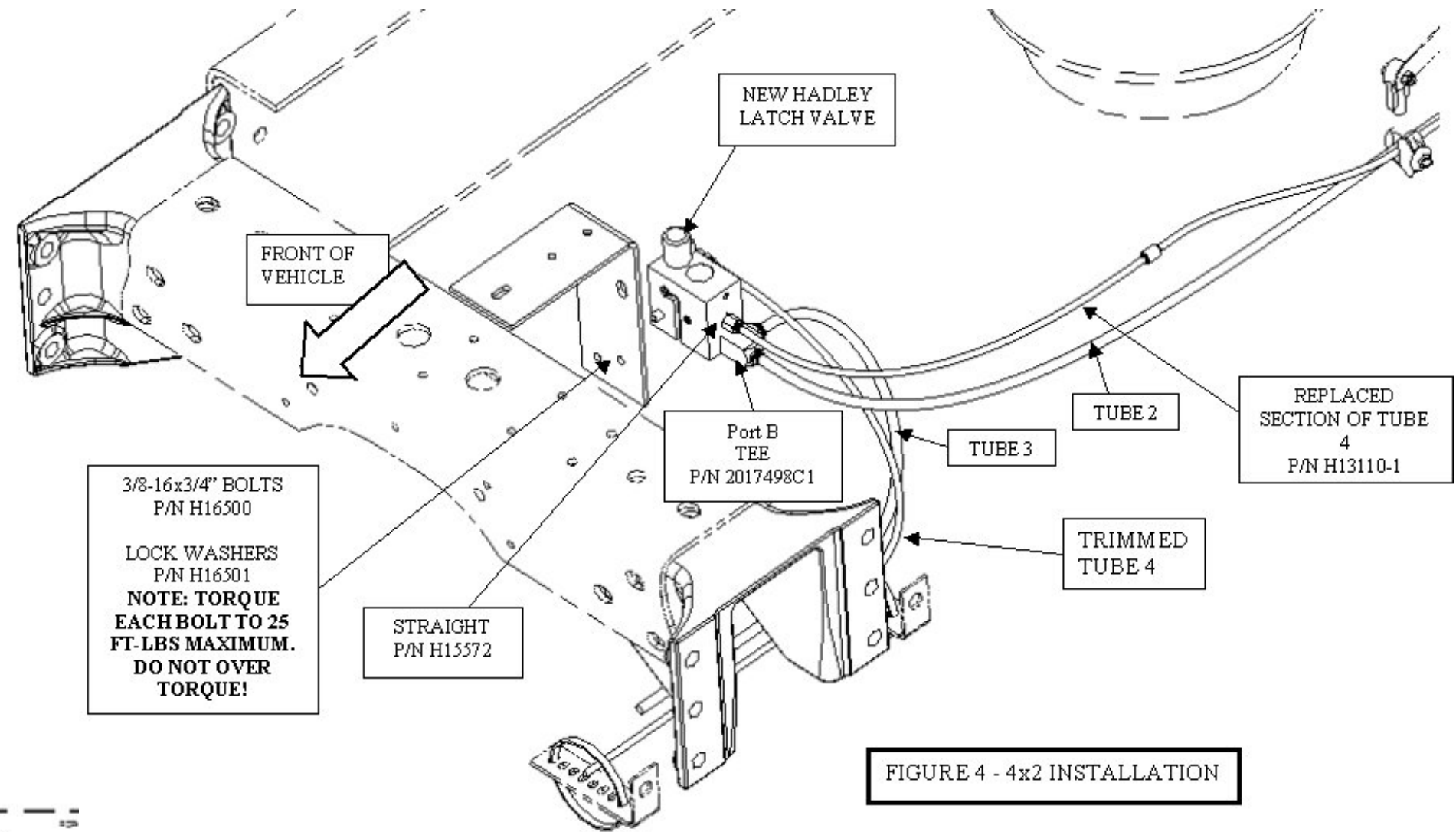


FIGURE 4 - 4x2 INSTALLATION

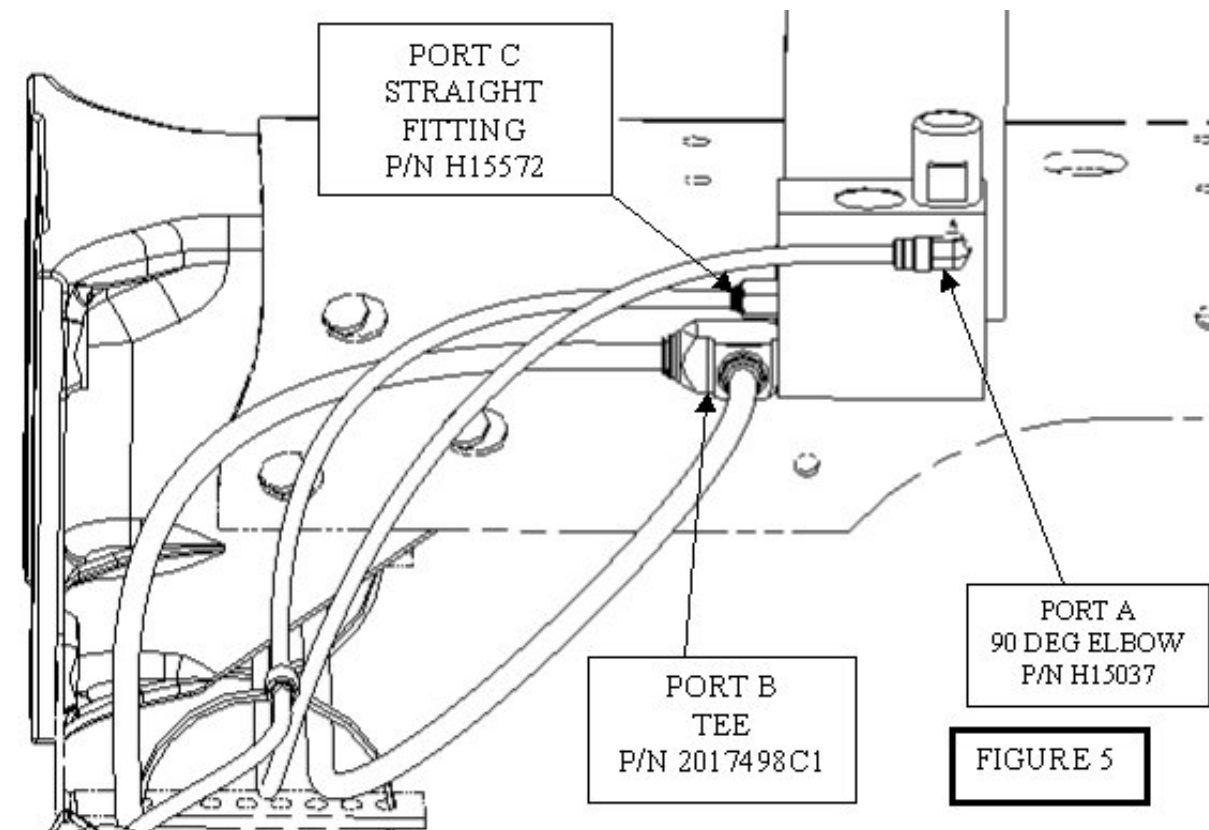
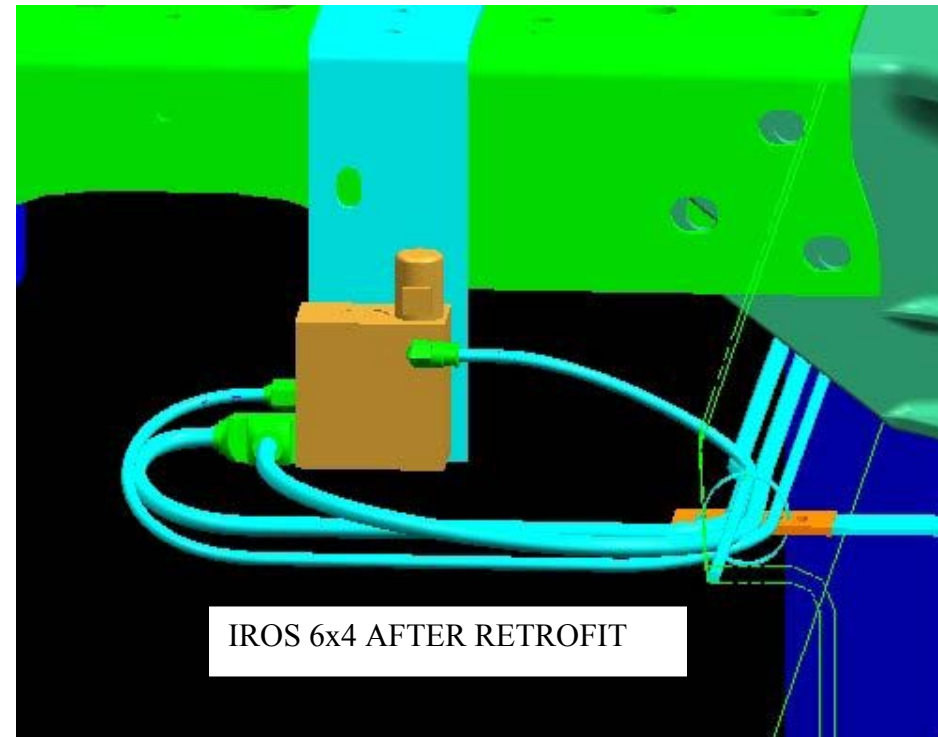
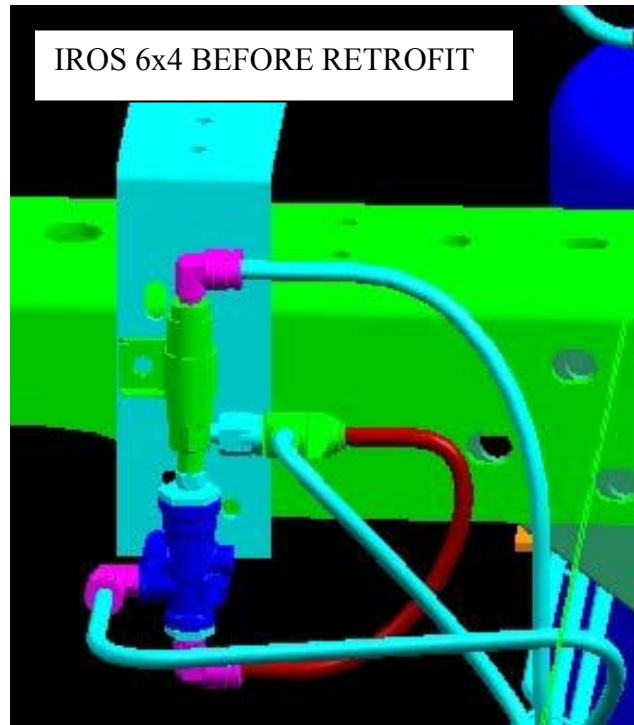
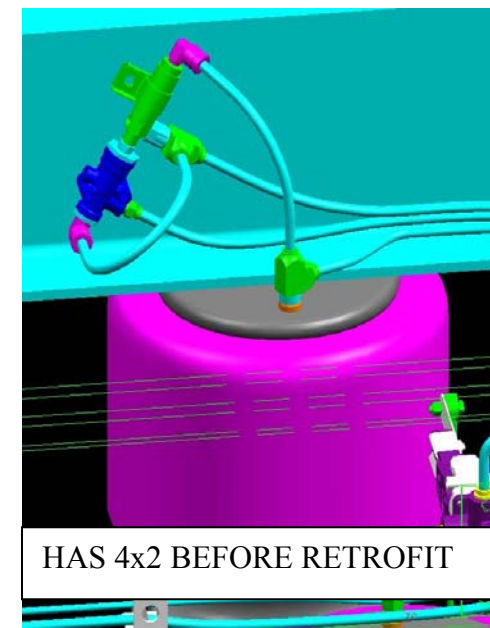
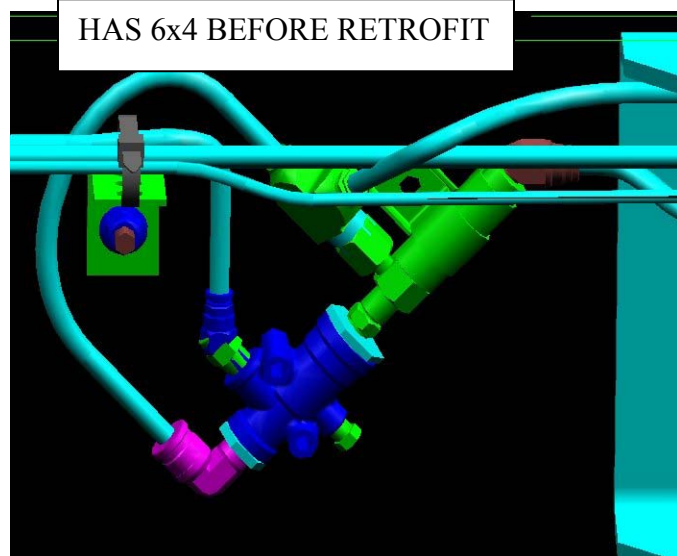


FIGURE 5

- (10) Following the path of rear portion of tube 4, run the new H13110-1 tubing to replace the old section of tube 4. Cut the H13110-1 tubing to length and plug into the dump pilot port of the height control valve.
- (11) At this point all tubing should be connected, so connect the electrical pigtail of the new Hadley Solenoid Dump Valve to the existing connector in the chassis harness.
- (12) Perform system function test on page 1.



NOTE 1: To retrofit the IROS 6x4, use the IROS 4x2 retrofit instructions on pages 2 and 3. In step 4 note the different orientation of the elbow fitting in port A between the “after retrofit” pictures above.



NOTE 2: To retrofit the HAS 6x4, use the IROS 4x2 retrofit instructions on pages 2 and 3. In step 5, user must provide longer bolts to go through frame rail. Torque bolts to 25 ft lbs maximum. Do not over torque. Do not mount the Hadley Solenoid Dump Valve at an angle greater than 45°.

NOTE 3: To retrofit the HAS 4x2, use the IROS 4x2 retrofit instructions on pages 2 and 3. In step 5, user must provide longer bolts to go through frame rail. Torque bolts to 25 ft lbs maximum. Do not over torque. Do not mount the Hadley Solenoid Dump Valve at an angle greater than 45°.