

(TYPICAL)

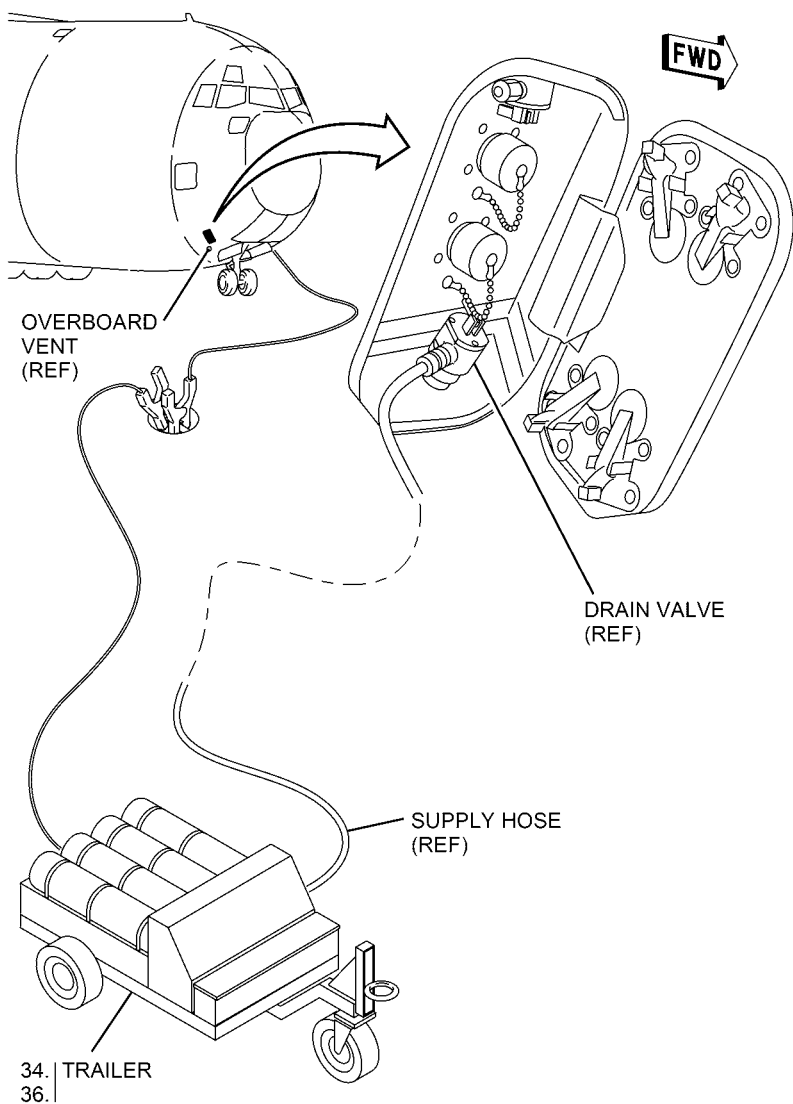
ICN-88277-G1235076-001-01

34. Operate trailer to supply 400-425 psi to drain valve.

NOTE

Oxygen will not immediately vent overboard. Once system reaches 380 psi, relief valve will open and gaseous oxygen will be heard venting from overboard vent hole.

35. Once oxygen is venting continue to purge for 30 minutes.
36. Depressurize trailer.



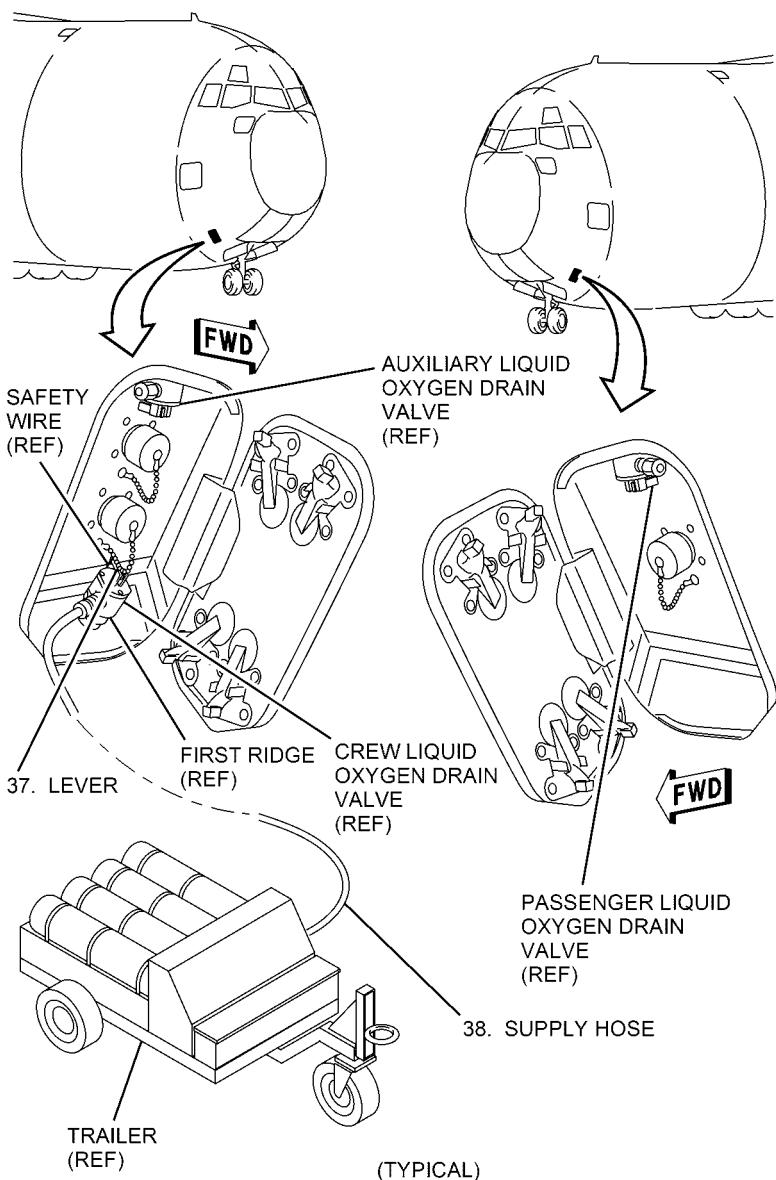
(TYPICAL)

ICN-88277-G1235077-001-01

37. Rotate drain valve lever to CLOSE and secure with safety wire.

SPECIAL INSTRUCTION. Safety wire must begin at drain valve lever and immediately be twisted five times. Safety wire must be stretched along valve past drain port to first ridge. Safety wire must be twisted two times before being wrapped around valve at first ridge. Safety wire must be twisted five times before cutting.

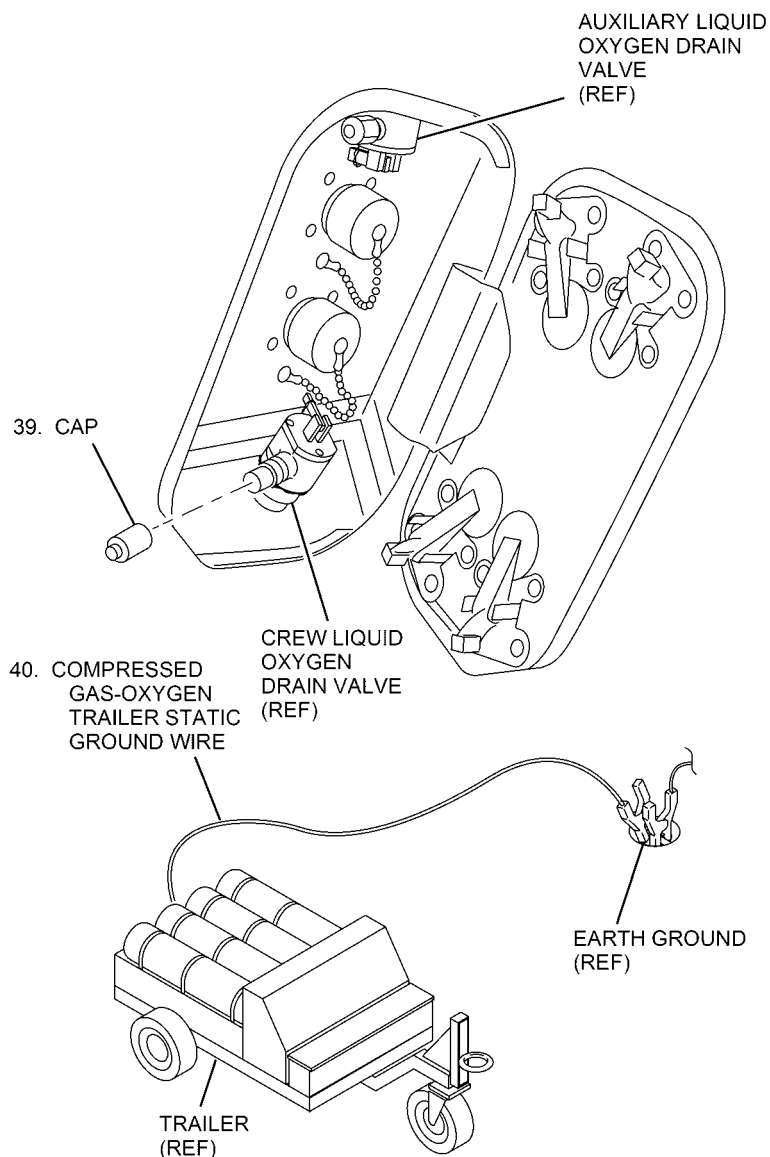
38. Disconnect supply hose from drain valve.



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39. Install drain valve cap.
40. Disconnect compressed gas-oxygen trailer static ground wire from earth ground.



ICN-88277-G1235079-001-01

03-3. FOLLOW-ON MAINTENANCE.

1. Service Liquid Oxygen (LOX) converter (12-35-01).

**PREPARATION FOR LIQUID OXYGEN
CONTAINER TRANSPORT BY AIRLIFT
(12-35-04)**

GENERAL MAINTENANCE INPUT CONDITIONS:

Applicability:	Task
All	All

Additional information:

	Task
The accomplishment of this procedure shall be followed in exact step-by-step CHECKLIST sequence to prevent damage to equipment or injury to personnel.	All

This procedure consists of the following tasks:

- 04-1. Installation of one liquid oxygen storage tank configuration.
- 04-2. Installation of two liquid oxygen storage tanks configuration.
- 04-3. Installation of three liquid oxygen storage tanks configuration.
- 04-4. Removal of one liquid oxygen storage tank configuration.
- 04-5. Removal of two liquid oxygen storage tanks configuration.
- 04-6. Removal of three liquid oxygen storage tanks configuration.

NOTE	Task
-------------	-------------

- | | |
|--|-----|
| • Liquid Oxygen (LOX) storage tank(s) prepared and appropriate shipping documents completed for aircraft transport by maintenance personnel. | All |
| • LOX storage tank(s) joint inspection accomplished by maintenance and transport personnel. | All |
| • LOX storage tank(s) do not need to be vented overboard when purged and pressurized. | All |

	Task
NOTE - Continued	
<ul style="list-style-type: none">Both overboard vent ports located at fuselage stations 604 and 924 may be used independently or simultaneously as cargo configuration requires, not to exceed 6 carts.	All

Additional data:	Task
NA	--

Personnel recommended:	Task
One	All

Safety conditions:	Task
--------------------	------

WARNING

- | | |
|--|-------------------------------|
| <ul style="list-style-type: none">The use of personal protective equipment is mandatory to perform this procedure. The applicable Safety Data Sheet (SDS) will identify special protection information. Failure to comply may cause injury to personnel.Aircraft maintenance personnel will ensure aircraft cargo compartment is free of petroleum based materials prior to LOX storage tank(s) being loaded. Failure to comply may cause injury to personnel and damage to aircraft and equipment. | <div>All</div> <div>All</div> |
|--|-------------------------------|

WARNING - Continued

- Prior to shipment of any empty LOX storage tank(s), LOX storage tank(s) must be purged in accordance with applicable equipment technical order to remove all oxygen from inner tank(s) and associated plumbing. Inner tank(s) will be pressurized with positive pressure 15-25 psig of nitrogen gas. Any oxygen left in tank(s) constitutes an extreme safety hazard if tank(s) is shipped along with highly flammable substances or if tank(s) passes through any area enroute where such substances may be expected to be found. Failure to comply may cause injury to personnel and damage to aircraft and equipment. All
- Spontaneous combustion may occur if oxygen contacts incompatible cleaning residues or hydrocarbon substances. Use only cleaned tools and vent components supplied with vent kit. Failure to comply may cause injury to personnel and damage to aircraft and equipment. All
- Aircraft overboard vent ports located on left side of cargo compartment at fuselage stations 604 and 924 are for cryogenic low temperature oxygen venting. Do not connect vent lines from LOX storage tank(s) to right side vents. Failure to comply may cause injury to personnel and damage to aircraft and equipment. All
- During flight, monitor tank pressure gauge(s) to prevent excessive pressure buildup in LOX storage inner tank(s). Regulate pressure on inner tank(s) to be between 5-40 psig. Failure to comply may cause injury to personnel and damage to aircraft and equipment. All

WARNING - Continued

- Too much exposure to ultra violet light can result in injuries to eyes and possible skin burns. Do not look directly at ultra violet light. Failure to comply may cause injury to personnel. All
- Novec 7100, Sur-Prep 123, Solstice PF-HP, and Novec Contact Cleaner solvents are toxic to skin, eyes, and respiratory tract. Personnel shall wear skin and eye protection. Use only in well ventilated areas. Failure to comply may cause injury to personnel. All

Support equipment:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Cross, Pipe, 1 Inch	AN918-8D	--	1	04-3
Decal, Inflight Venting Procedures	8443022-01	--	1	04-1
Decal, Inflight Venting Procedures	8443022-01	--	2	04-2
Decal, Inflight Venting Procedures	8443022-01	--	3	04-3
Tank, Storage Oxygen	263475	--	1	04-1
Tank, Storage Oxygen	263475	--	2	04-2
Tank, Storage Oxygen	263475	--	3	04-3
Trailer, Liquid Oxygen Storage Tank	103780	--	1	04-1
Trailer, Liquid Oxygen Storage Tank	103780	--	2	04-2
Trailer, Liquid Oxygen Storage Tank	103780	--	3	04-3
Vent Kit, Outboard	4940NR0415	--	1	04-1

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Vent Kit, Outboard	4940NR0415	--	2	04-2
Vent Kit, Outboard	4940NR0415	--	3	04-3

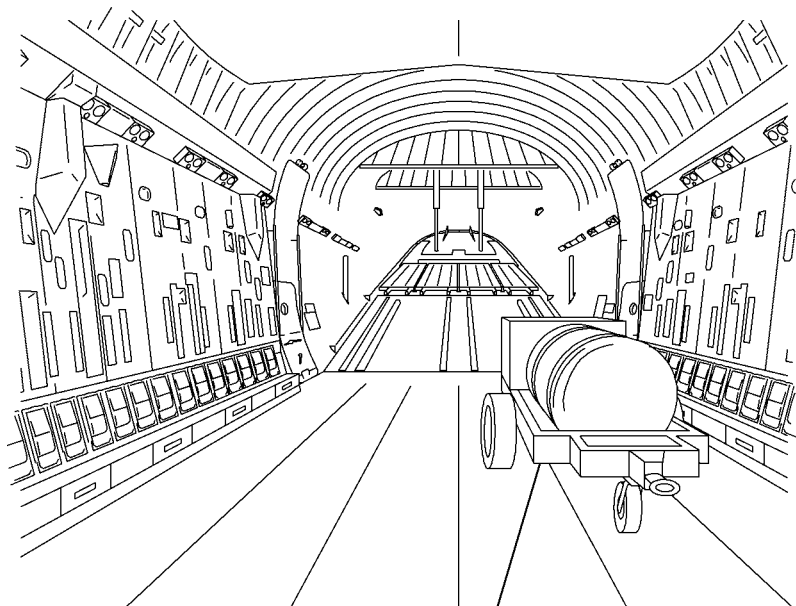
Supplies:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Cleaning Compound, Solvent	Novec Contact Cleaner	--	AR	All
Cleaning Compound, Solvent	Novec 7100	A-A-59150	AR	All
Cleaning Compound, Solvent	Solstice PF-HP	--	AR	All
Cleaning Compound, Solvent	Sur-Prep 123	--	AR	All
Cloth, Cleaning	Rymple Cloth-301-Purified	A-A-59323A/ MIL-C-85043A	AR	All
Tape	--	A-A-58092	AR	All



04-1. INSTALLATION OF ONE LIQUID OXYGEN STORAGE TANK CONFIGURATION.

1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "General Maintenance Input Conditions" page for task specific safety conditions.
3. Ensure Liquid Oxygen (LOX) storage tank pressure is below 40 psig and vent valve is closed prior to installing overboard vent system.



3. LOX STORAGE TANK

ICN-88277-G1235052-003-01

WARNING

Hoses and fittings shall be inspected visually for serviceability and inspected by ultra violet light for presence of grease, oil, or other foreign materials. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

CAUTION

Ensure all hose to fitting connections are tight and that hoses are routed to ensure freedom from kinks, sharp bends, or restrictions which may prevent free venting. Failure to comply may cause damage to aircraft and equipment.

NOTE

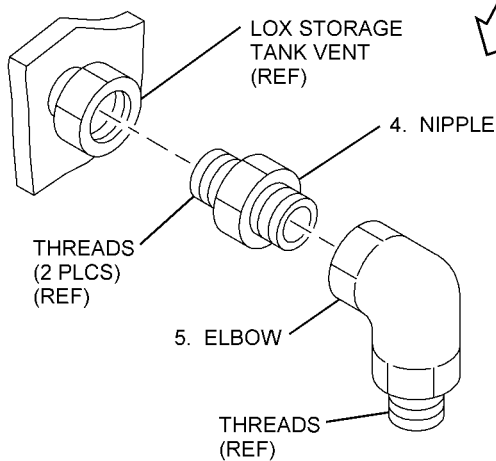
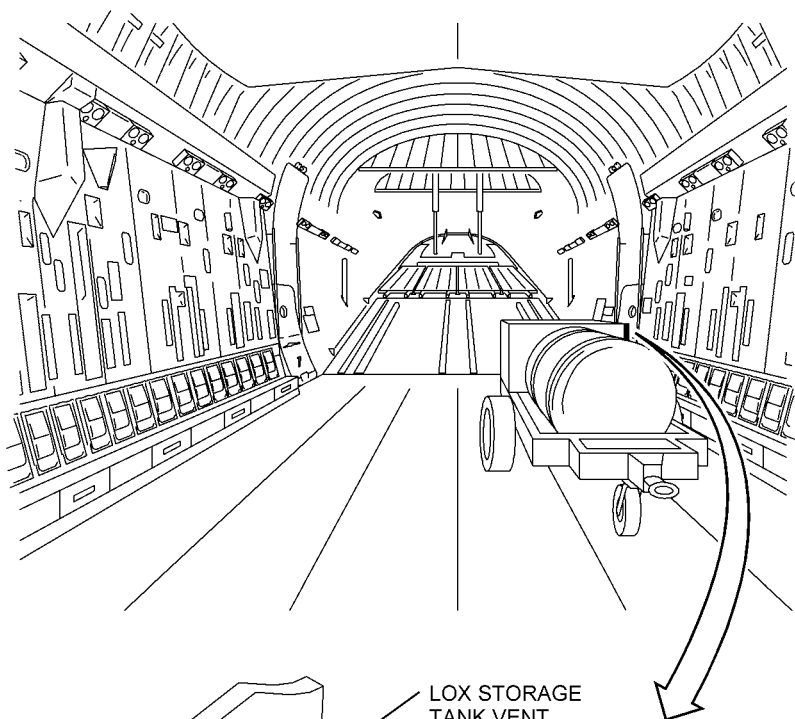
Only remove necessary components from vent kit required to reach aircraft overboard vent port. Refer to illustration when assembling and installing overboard vent system.

4. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to adapter or LOX storage tank vent line.

NOTE

Position elbow toward aircraft vent port.

5. Starting on second thread and rotating clockwise, tape male threads on elbow and connect to nipple.



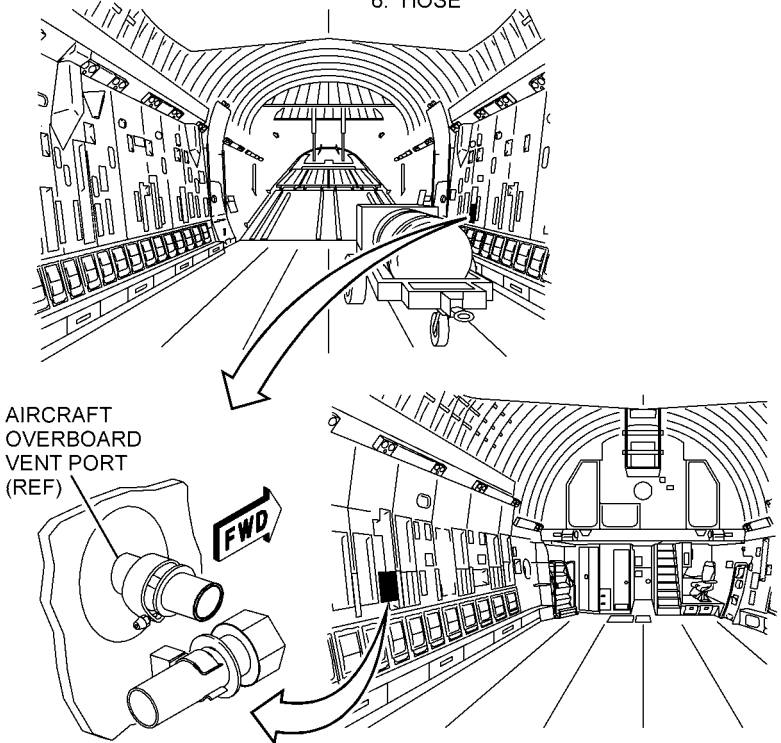
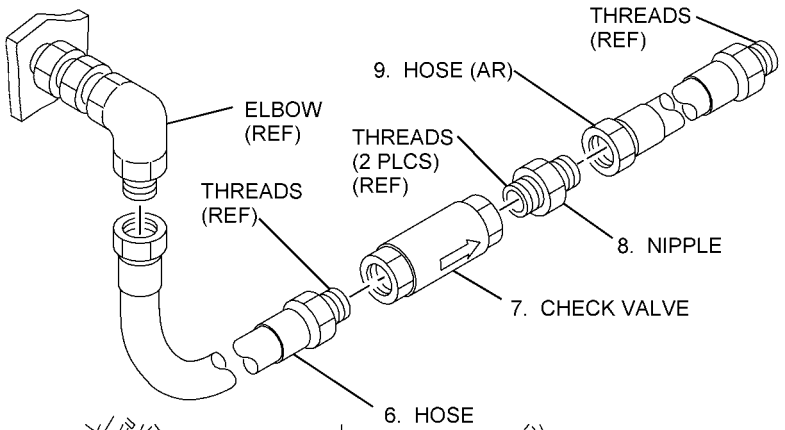
ICN-88277-G1235053-002-01

6. Starting on second thread and rotating clockwise, tape male threads on hose and connect female end to elbow.

WARNING

Failure to ensure check valve is properly installed with directional flow arrow pointing toward aircraft overboard vent will prevent LOX storage tank head pressure from being maintained at safe pressure which could result in explosion. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

7. Connect check valve to hose.
8. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to check valve.
9. Starting on second thread and rotating clockwise, tape male threads of additional hoses needed to reach aircraft overboard vent port and connect to nipple.



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10. Remove nozzle from stowage clip and clean with lint-free cloth dampened with solvent.
11. Connect hose to nozzle.
12. Remove plug from aircraft overboard vent port.
13. Clean aircraft overboard vent port with lint-free cloth dampened with solvent.
14. Connect nozzle to aircraft overboard vent port located at station 604 or 924.

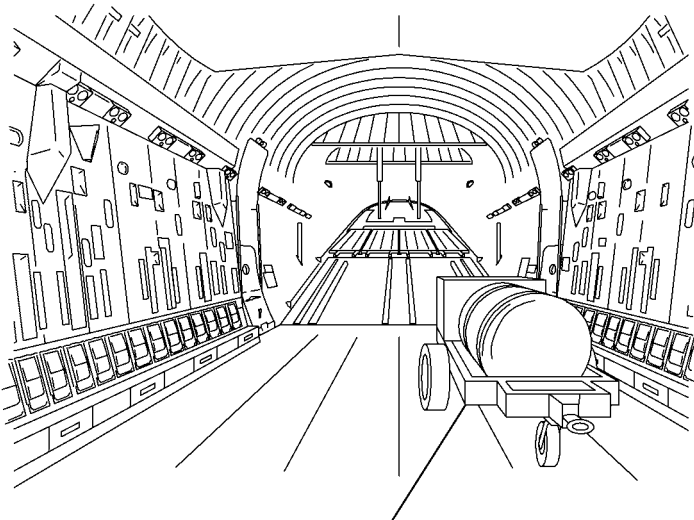
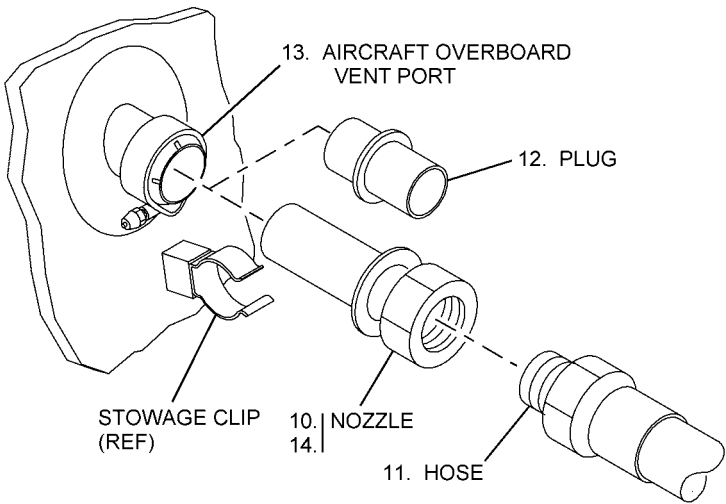


LOX storage tank inner tank pressure shall not be less than 5 psig. Failure to comply may cause damage to aircraft and equipment.

NOTE

Ensure LOX storage tank pressure vents properly by depleting LOX storage tank pressure to 5 psig.

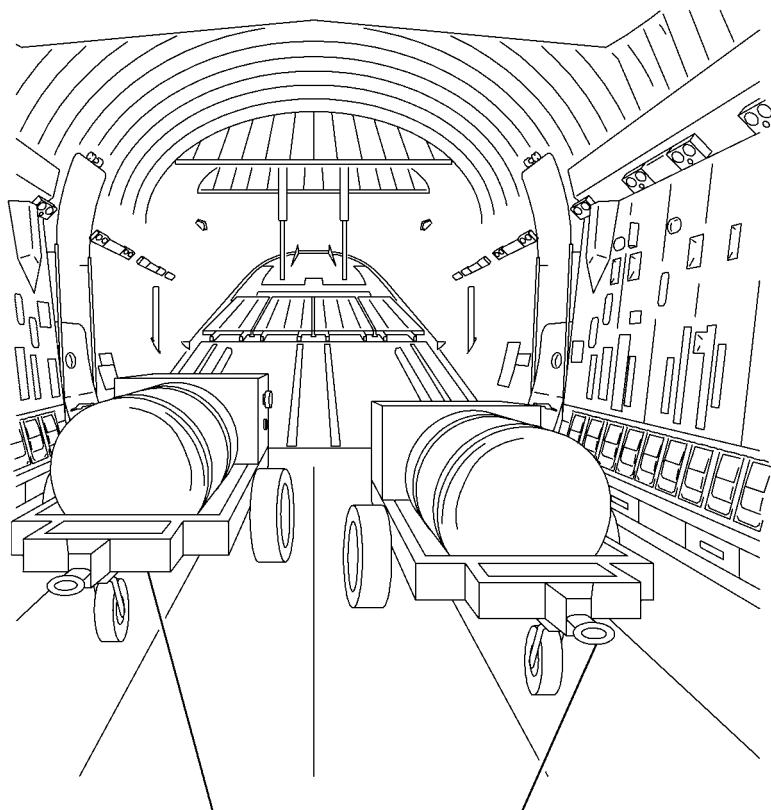
15. Slowly open LOX storage tank vent valve.
 - LOX storage tank pressure decreases to 5 psig.
16. Close LOX storage tank vent valve.
17. Position inflight venting procedures decal on LOX storage tank control panel.



ICN-88277-G1235055-002-01

04-2. INSTALLATION OF TWO LIQUID OXYGEN STORAGE TANKS CONFIGURATION.

1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "General Maintenance Input Conditions" page for task specific safety conditions.
3. Ensure Liquid Oxygen (LOX) storage tanks pressure is below 40 psig and vent valves are closed prior to installing overboard vent system.



3. LOX STORAGE TANK (2)

LOX STORAGE TANK
(REF)

ICN-88277-G1235056-003-01

WARNING

Hoses and fittings shall be inspected visually for serviceability and inspected by ultra violet light for presence of grease, oil, or other foreign materials. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

CAUTION

Ensure all hose to fitting connections are tight and that hoses are routed to ensure freedom from kinks, sharp bends, or restrictions which may prevent free venting. Failure to comply may cause damage to aircraft and equipment.

NOTE

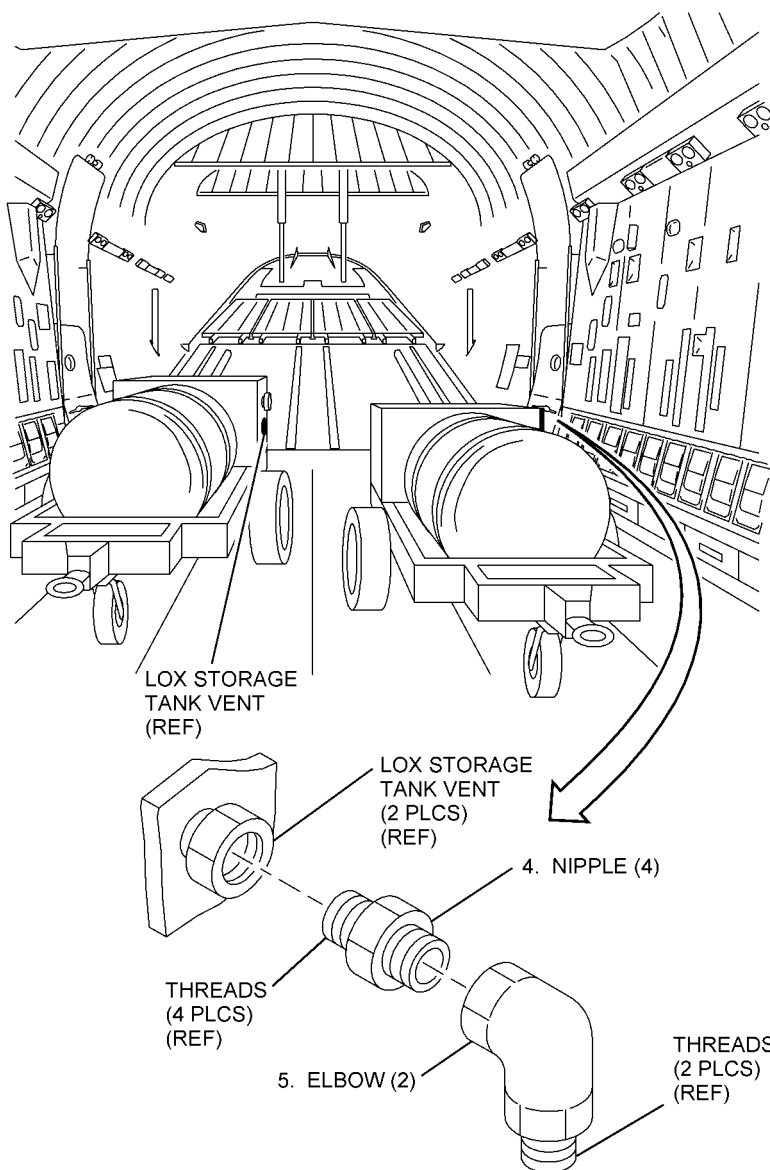
Only remove necessary components from vent kit required to reach aircraft overboard vent port. Refer to illustration when assembling and installing overboard vent system.

4. Starting on second thread and rotating clockwise, tape both male threads on nipples and connect to adapter or LOX storage tank vent lines.

NOTE

Position elbows toward aircraft vent port.

5. Starting on second thread and rotating clockwise, tape male threads on elbows and connect to nipples.



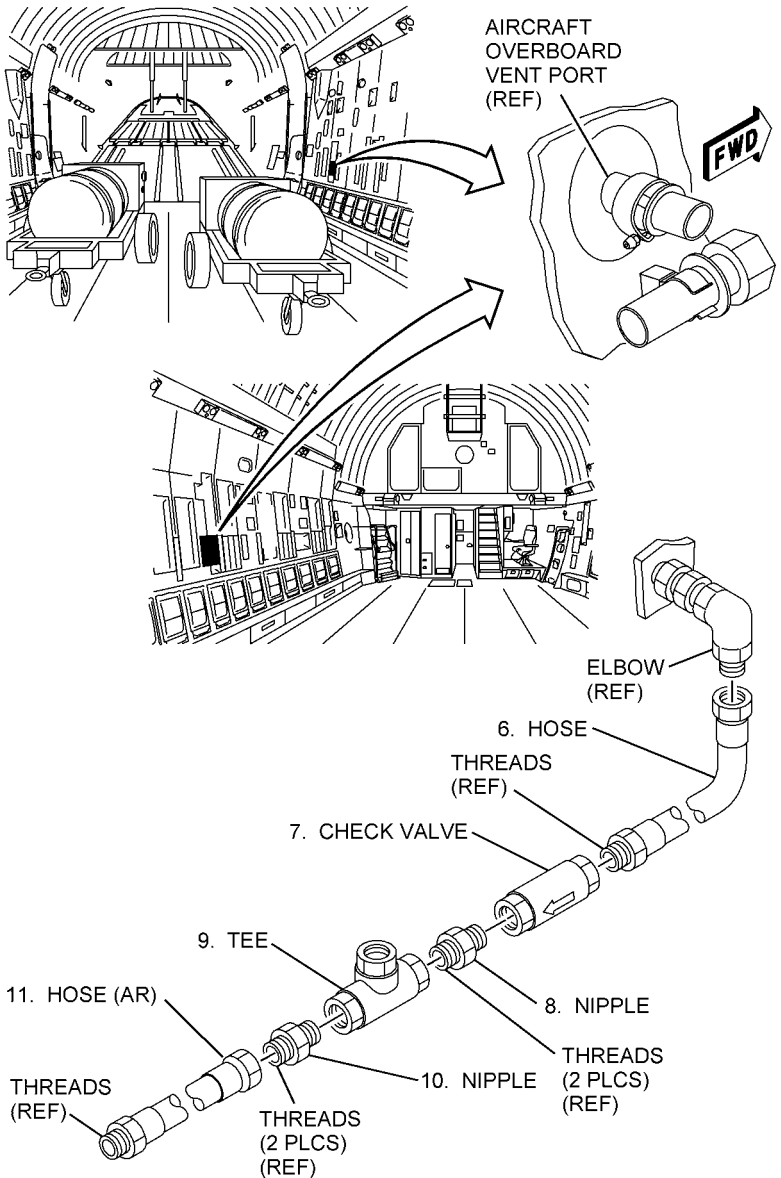
ICN-88277-G1235057-002-01

6. Starting on second thread and rotating clockwise, tape male threads on hose and connect female end to elbow.

WARNING

Failure to ensure check valve is properly installed with directional flow arrow pointing toward aircraft overboard vent will prevent LOX storage tank head pressure from being maintained at safe pressure which could result in explosion. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

7. Connect check valve to hose.
8. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to check valve.
9. Connect tee to nipple.
10. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to tee.
11. Starting on second thread and rotating clockwise, tape male threads of additional hoses needed to reach aircraft overboard vent port and connect to nipple.



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TO 1300i-2-12JG-35-1

12. Remove nozzle from stowage clip and clean with lint-free cloth dampened with solvent.
13. Connect hose to nozzle.
14. Remove plug from aircraft overboard vent port.
15. Clean aircraft overboard vent port with lint-free cloth dampened with solvent.
16. Connect nozzle to aircraft overboard vent port located at station 604 and/or 924.

NOTE

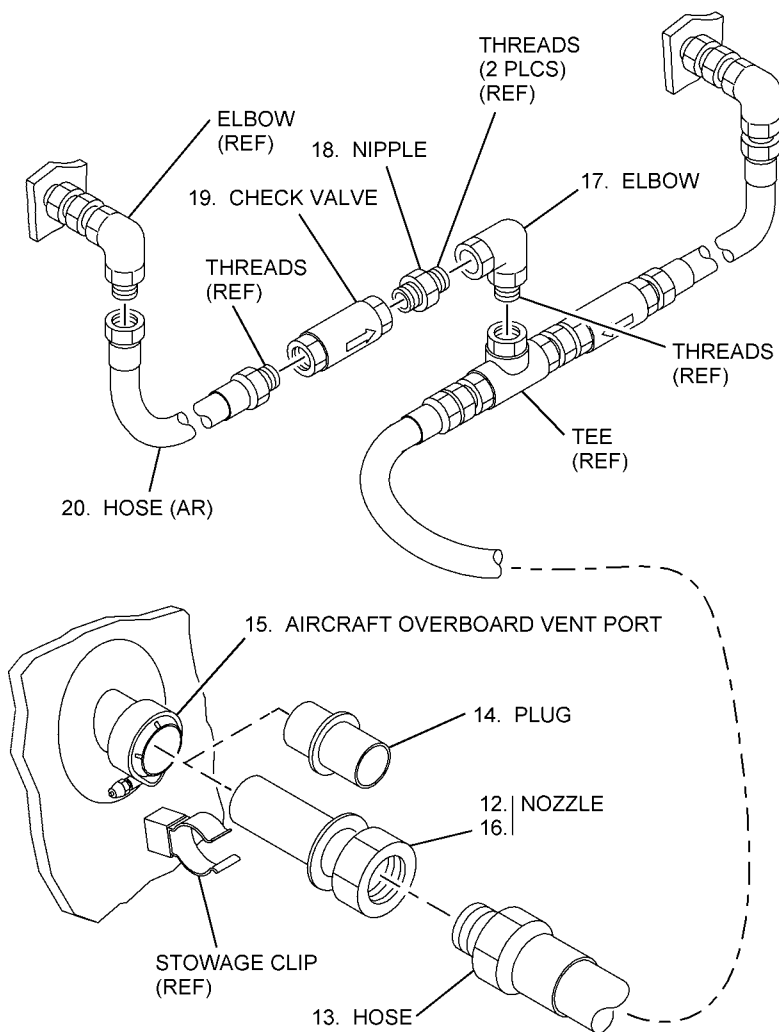
Position elbow toward LOX storage tank.

17. Starting on second thread and rotating clockwise, tape male threads on elbow and connect to tee.
18. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to elbow.

WARNING

Failure to ensure check valve is properly installed with directional flow arrow pointing toward aircraft overboard vent will prevent LOX storage tank head pressure from being maintained at safe pressure which could result in explosion. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

19. Connect check valve to nipple.
20. Starting on second thread and rotating clockwise, tape male threads of additional hoses needed to reach LOX storage tank and connect to check valve and elbow.



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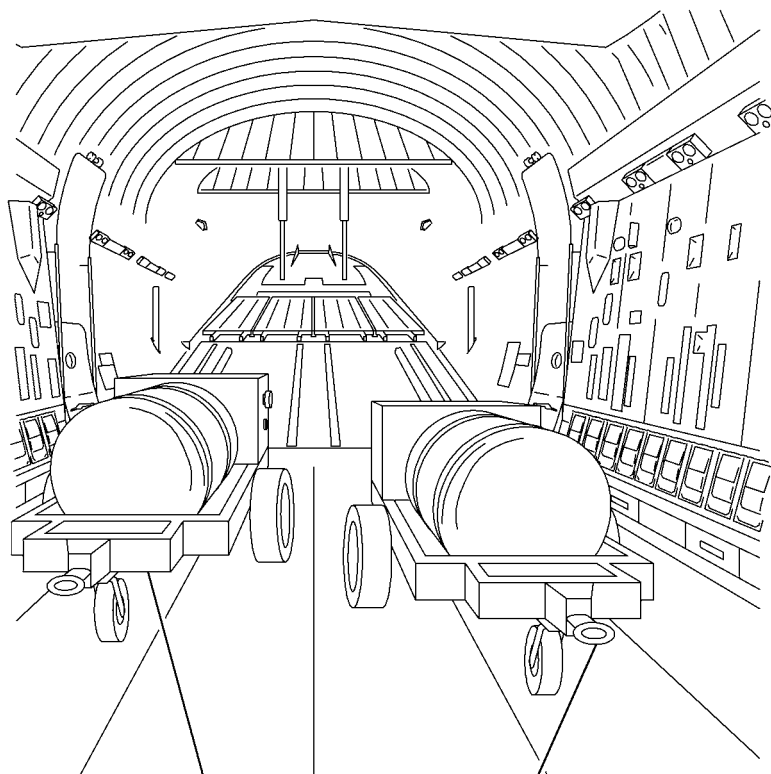


LOX storage tank inner tanks pressure shall not be less than 5 psig. Failure to comply may cause damage to aircraft and equipment.

NOTE

Ensure LOX storage tank pressure vents properly by depleting LOX storage tanks pressure to 5 psig.

21. Slowly open LOX storage tank vent valves.
 - LOX storage tanks pressure decreases to 5 psig.
22. Close LOX storage tank vent valves.
23. Position inflight venting procedures decals on LOX storage tank control panels.



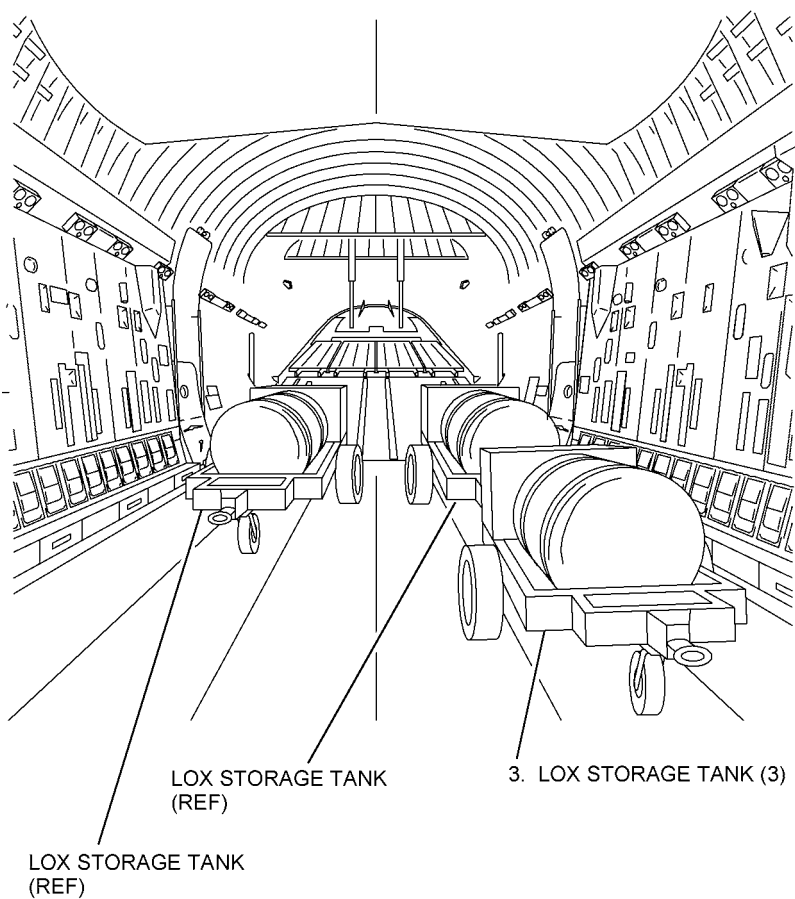
LOX STORAGE TANK
(REF)

21. LOX STORAGE TANK (2)
22.
23.

ICN-88277-G1235060-002-01

04-3. INSTALLATION OF THREE LIQUID OXYGEN STORAGE TANKS CONFIGURATION.

1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "General Maintenance Input Conditions" page for task specific safety conditions.
3. Ensure Liquid Oxygen (LOX) storage tanks pressure is below 40 psig and vent valves are closed prior to installing overboard vent system.



ICN-88277-G1235061-003-01

WARNING

Hoses and fittings shall be inspected visually for serviceability and inspected by ultra violet light for presence of grease, oil, or other foreign materials. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

CAUTION

Ensure all hose to fitting connections are tight and that hoses are routed to ensure freedom from kinks, sharp bends, or restrictions which may prevent free venting. Failure to comply may cause damage to aircraft and equipment.

NOTE

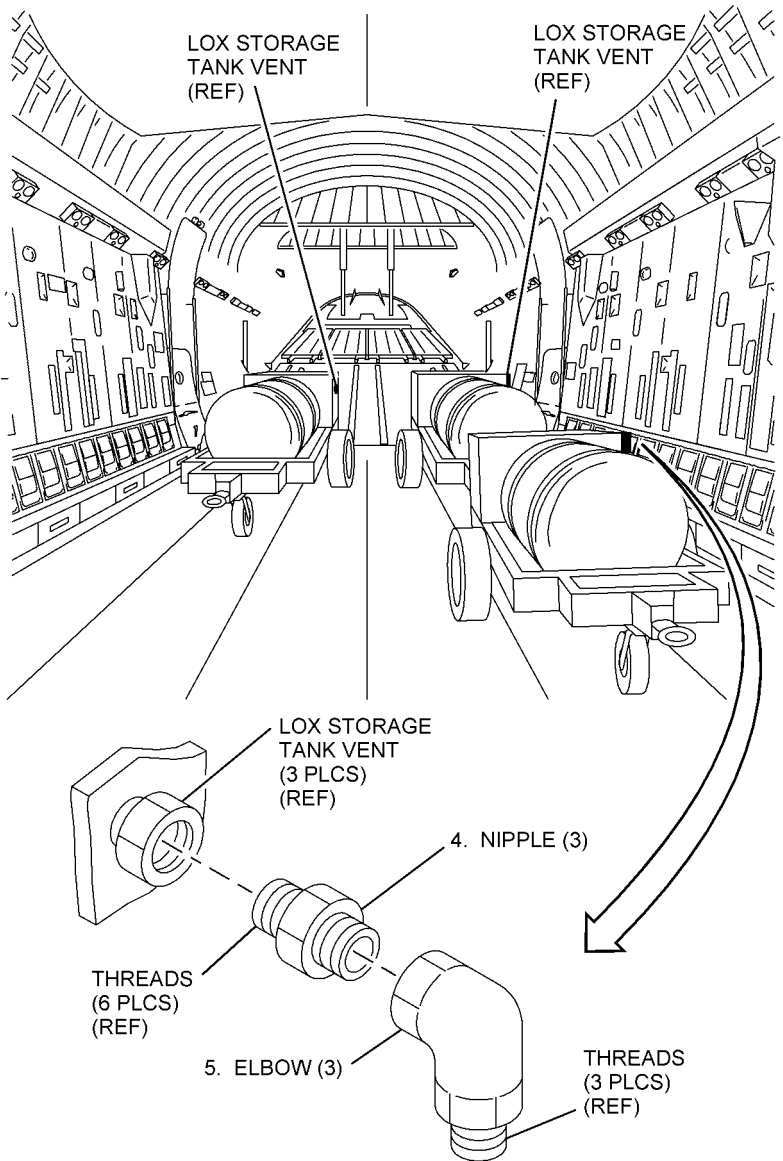
Only remove necessary components from vent kit required to reach aircraft overboard vent port. Refer to illustration when assembling and installing overboard vent system.

4. Starting on second thread and rotating clockwise, tape both male threads on nipples and connect to adapter or LOX storage tank vent lines.

NOTE

Position elbows toward aircraft vent port.

5. Starting on second thread and rotating clockwise, tape male threads on elbows and connect to nipples.



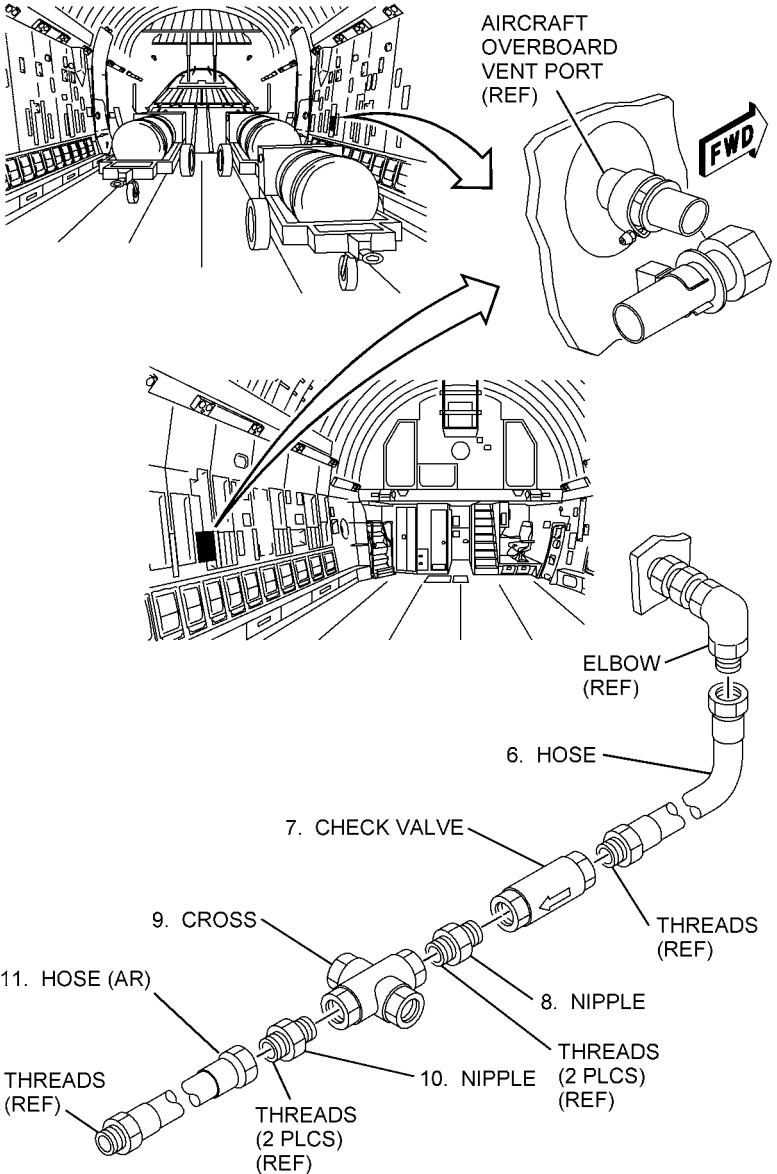
ICN-88277-G1235062-002-01

6. Starting on second thread and rotating clockwise, tape male threads on hose and connect female end to elbow.

WARNING

Failure to ensure check valve is properly installed with directional flow arrow pointing toward aircraft overboard vent will prevent LOX storage tank head pressure from being maintained at safe pressure which could result in explosion. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

7. Connect check valve to hose.
8. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to check valve.
9. Connect cross to nipple.
10. Starting on second thread and rotating clockwise, tape both male threads on nipple and connect to cross.
11. Starting on second thread and rotating clockwise, tape male threads of additional hoses needed to reach aircraft overboard vent port and connect to nipple.



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12. Remove nozzle from stowage clip and clean with lint-free cloth dampened with solvent.
13. Connect hose to nozzle.
14. Remove plug from aircraft overboard vent port.
15. Clean aircraft overboard vent port with lint-free cloth dampened with solvent.
16. Connect nozzle to aircraft overboard vent port located at station 604 and/or 924.

NOTE

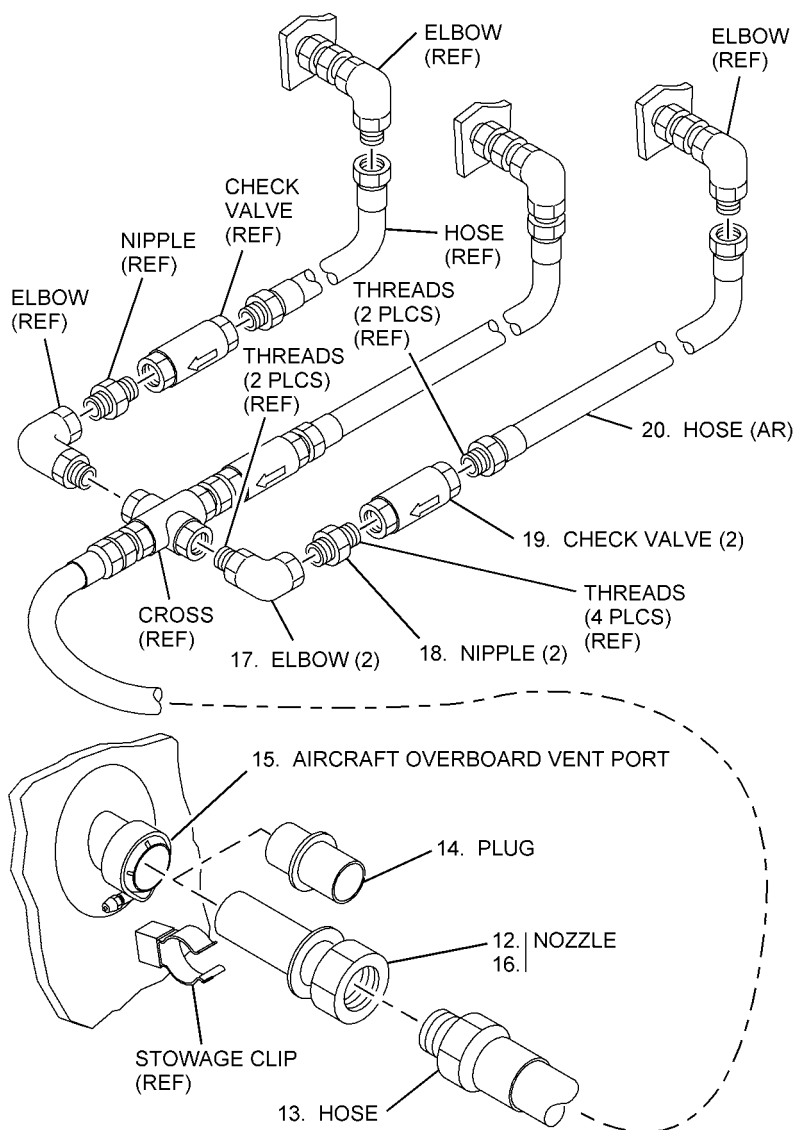
Positions elbow toward LOX storage tanks.

17. Starting on second thread and rotating clockwise, tape male threads on elbows and connect to cross.
18. Starting on second thread and rotating clockwise, tape both male threads on nipples and connect to elbows.

WARNING

Failure to ensure check valves is properly installed with directional flow arrow pointing toward aircraft overboard vent will prevent LOX storage tank head pressure from being maintained at safe pressure which could result in explosion. Failure to comply may cause injury to personnel and damage to aircraft and equipment.

19. Connect check valves to nipples.
20. Starting on second thread and rotating clockwise, tape male threads of additional hoses needed to reach LOX storage tanks and connect to check valves and elbows.



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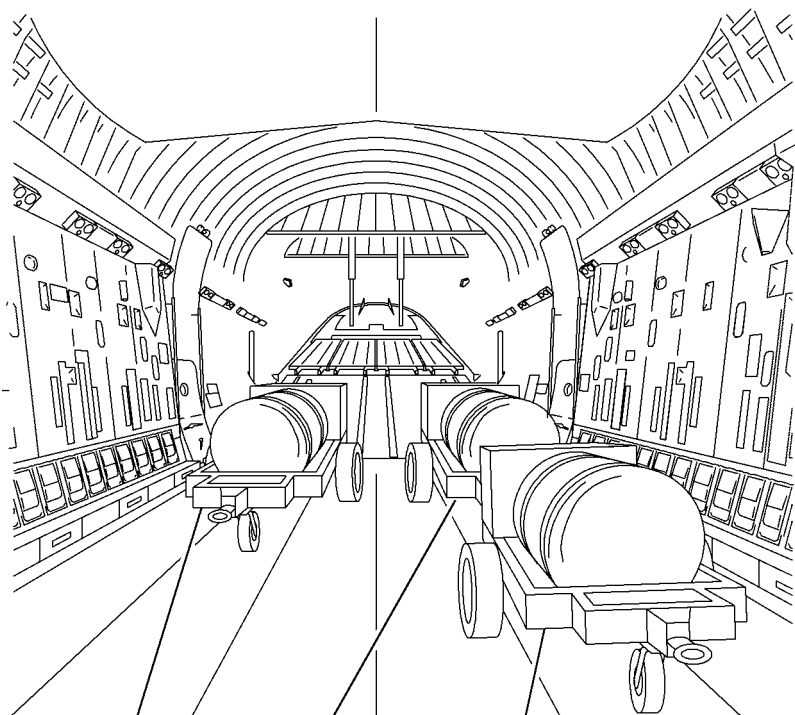


LOX storage tank inner tanks pressure shall not be less 5 psig. Failure to comply may cause damage to aircraft and equipment.

NOTE

Ensure LOX storage tank pressure vents properly by depleting LOX storage tanks pressure to 5 psig.

21. Slowly open LOX storage tank vent valves.
 - LOX storage tanks pressure decreases to 5 psig.
22. Close LOX storage tank vent valves.
23. Position inflight venting procedures decals on LOX storage tank control panels.



LOX STORAGE TANK
(REF)

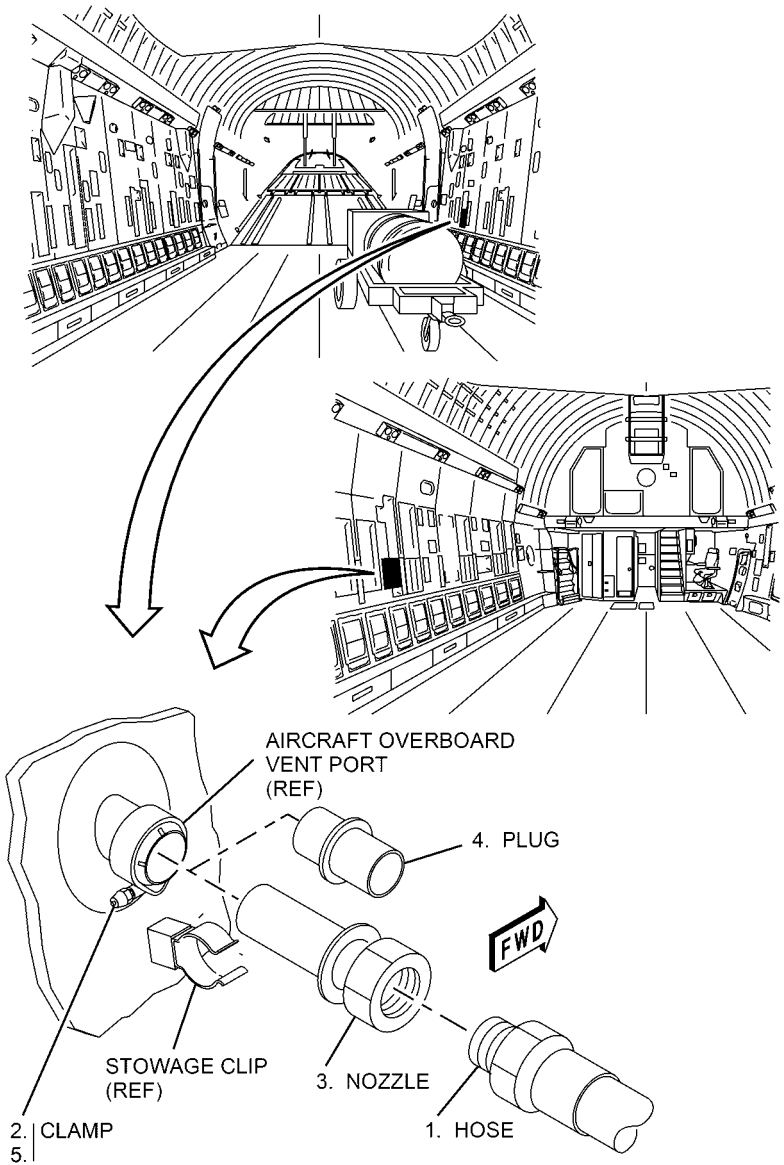
LOX STORAGE TANK
(REF)

21. LOX STORAGE TANK (3)
22.
23.

ICN-88277-G1235065-002-01

04-4. REMOVAL OF ONE LIQUID OXYGEN STORAGE TANK CONFIGURATION.

1. Disconnect hose from nozzle.
2. Loosen clamp.
3. Disconnect nozzle from aircraft overboard vent port and stow in stowage clip.
4. Install plug on aircraft overhead vent port.
5. Tighten clamp to secure plug.



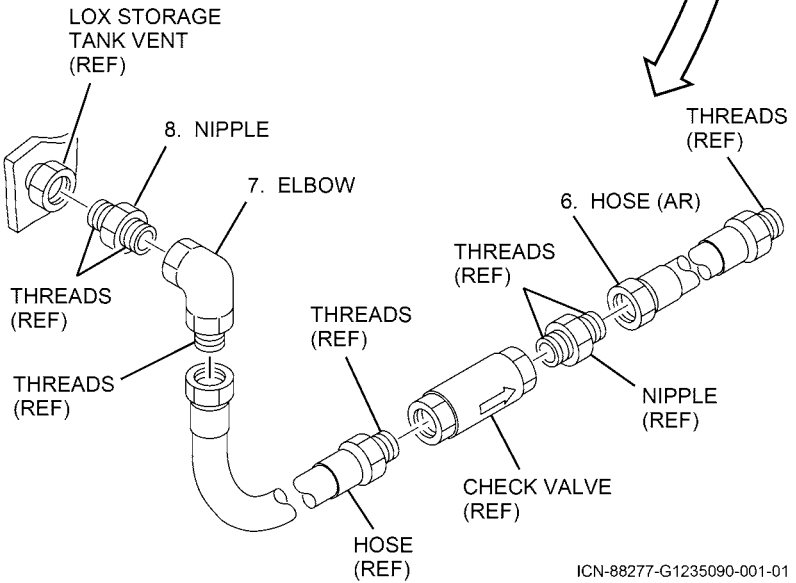
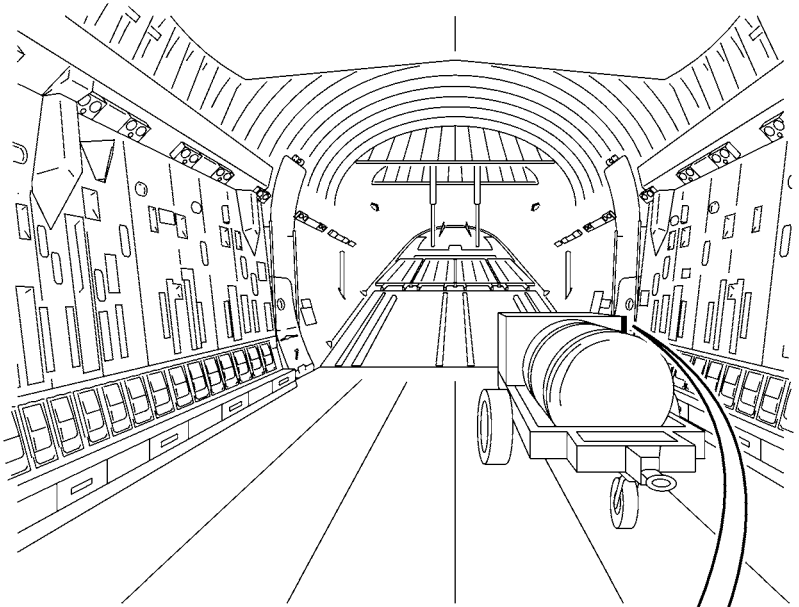
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6. Disassemble hoses, nipple and check valve.
7. Disconnect elbow from nipple.

NOTE

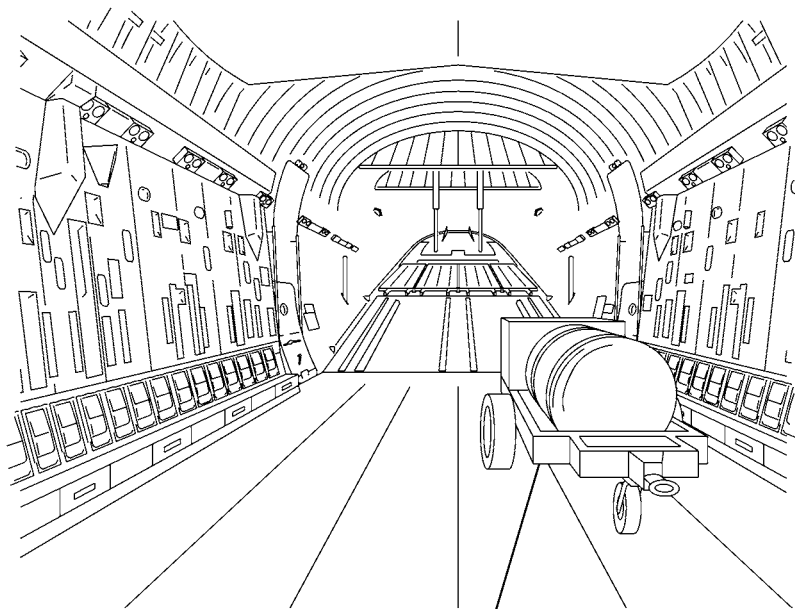
Ensure to remove all tape residue from component threads prior to returning to vent kit.

8. Disconnect nipple from Liquid Oxygen (LOX) storage tank vent.



ICN-88277-G1235090-001-01

9. Remove inflight venting procedures decal from LOX storage tank control panel.

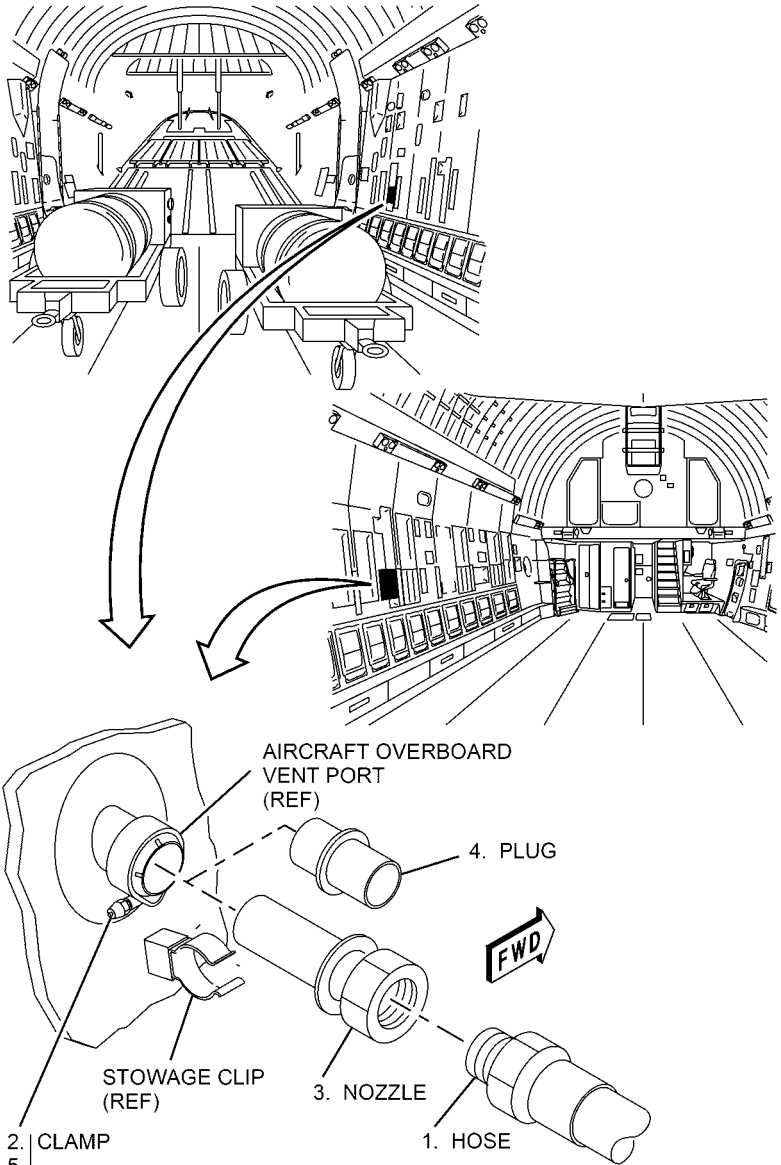


9. LOX STORAGE TANK

ICN-88277-G1235052-004-01

04-5. REMOVAL OF TWO LIQUID OXYGEN STORAGE TANKS CONFIGURATION.

1. Disconnect hose from nozzle.
2. Loosen clamp.
3. Disconnect nozzle from aircraft overboard vent port and stow in stowage clip.
4. Install plug on aircraft overhead vent port.
5. Tighten clamp to secure plug.



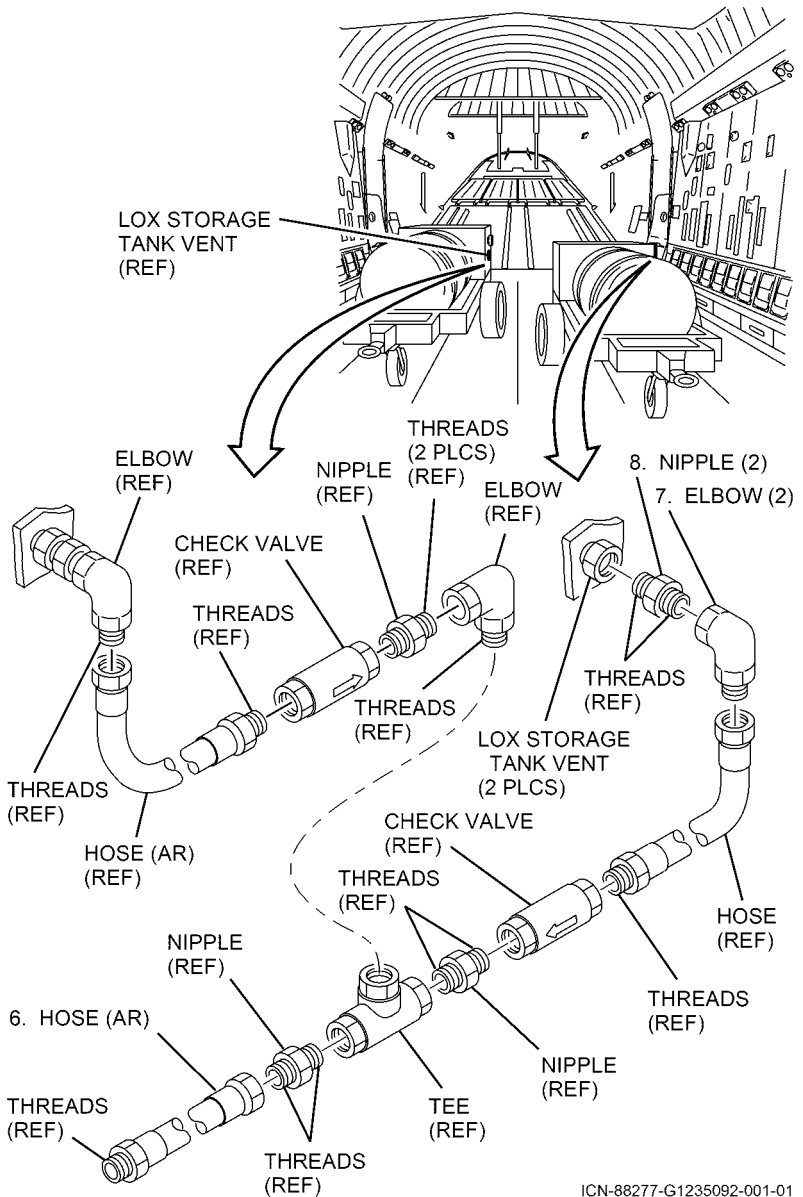
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6. Disassemble hoses, nipples, tee, and check valves.
7. Disconnect elbows from nipples.

NOTE

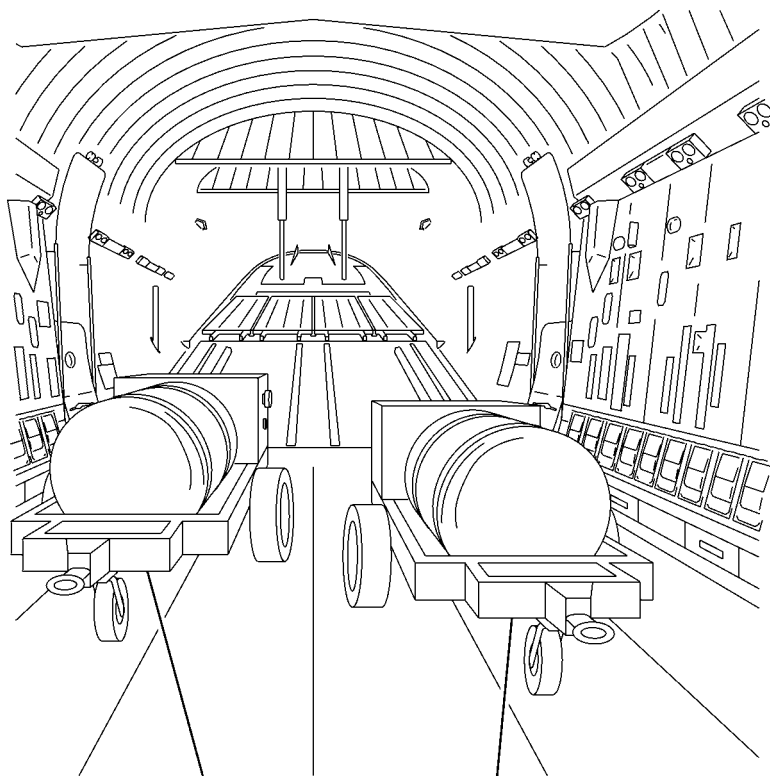
Ensure to remove all tape residue from component threads prior to returning to vent kit.

8. Disconnect nipples from Liquid Oxygen (LOX) storage tank vents.



ICN-88277-G1235092-001-01

9. Remove inflight venting procedures decals from LOX storage tank control panels.



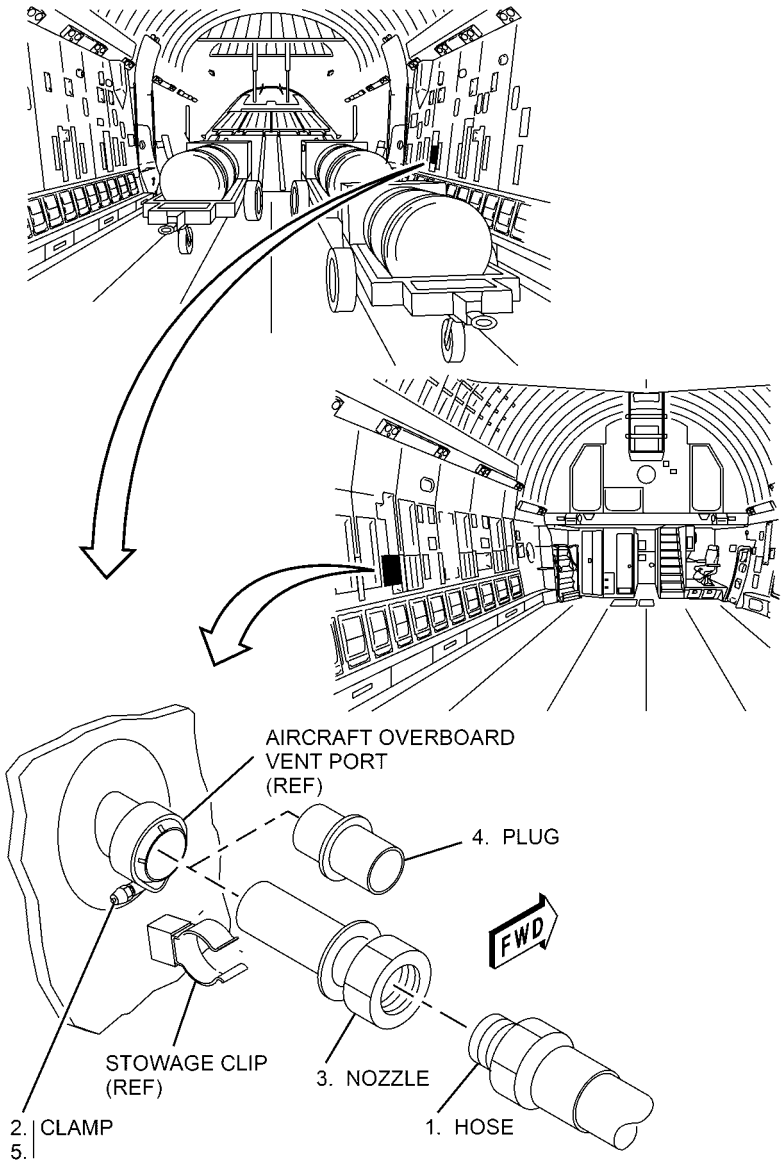
9. LOX STORAGE TANK (2)

LOX STORAGE TANK
(REF)

ICN-88277-G1235056-004-01

04-6. REMOVAL OF THREE LIQUID OXYGEN STORAGE TANKS CONFIGURATION.

1. Disconnect hose from nozzle.
2. Loosen clamp.
3. Disconnect nozzle from aircraft overboard vent port and stow in stowage clip.
4. Install plug on aircraft overhead vent port.
5. Tighten clamp to secure plug.



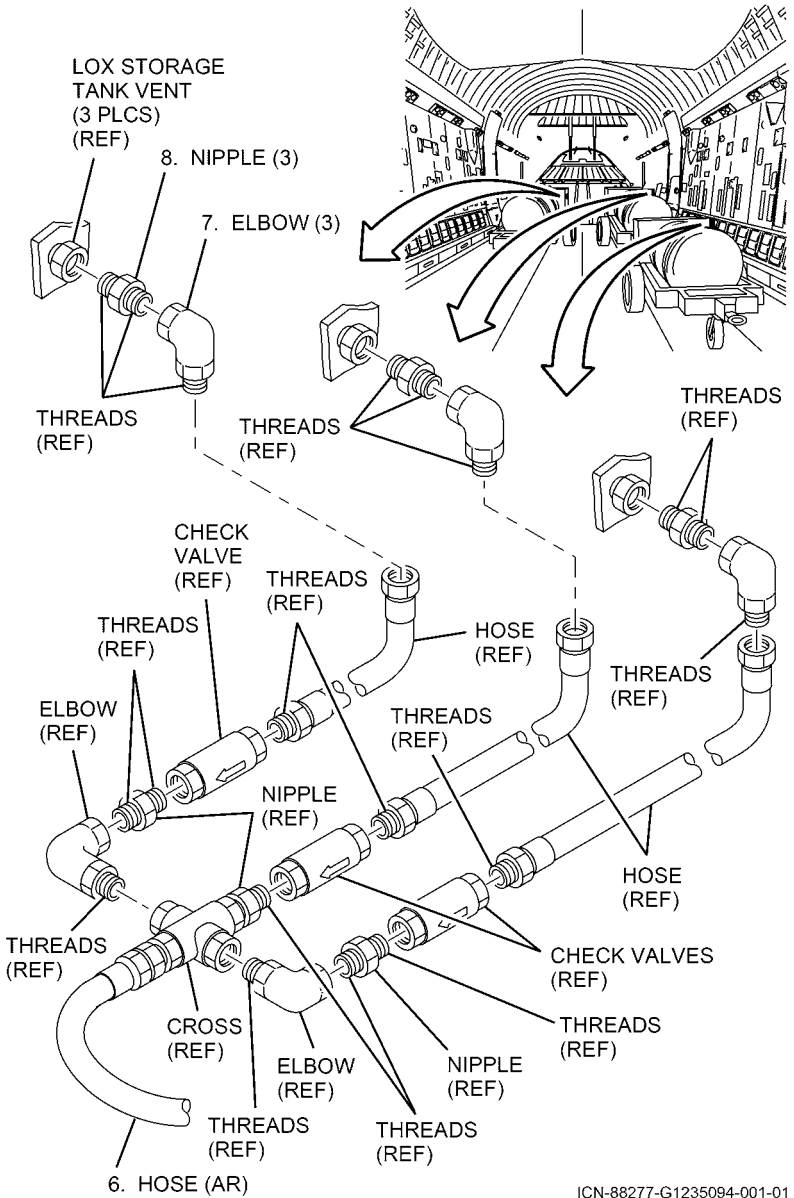
ICN-88277-G1235093-001-01

6. Disassemble hoses, nipples, cross, and check valves.
7. Disconnect elbows from nipples.

NOTE

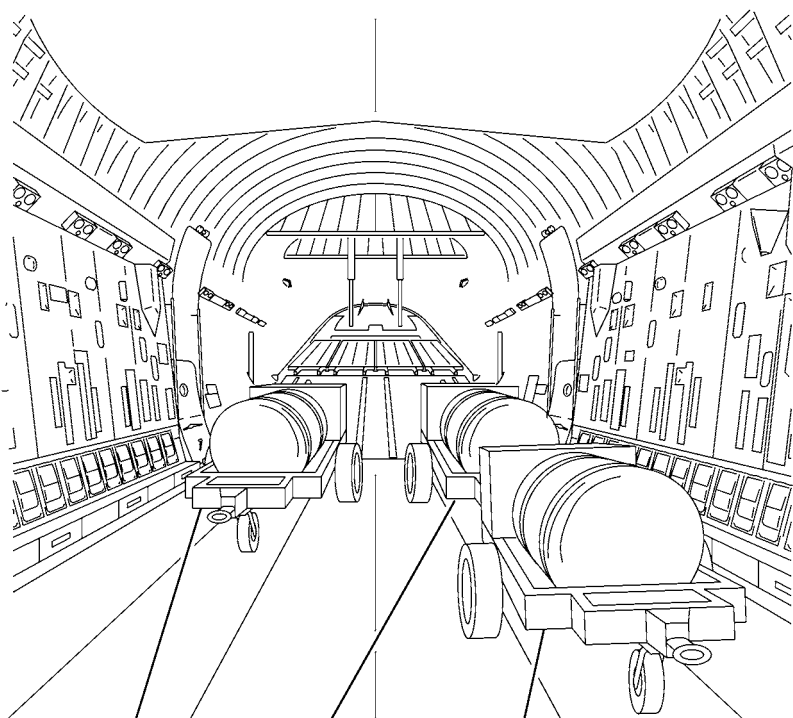
Ensure to remove all tape residue from component threads prior to returning to vent kit.

8. Disconnect nipples from Liquid Oxygen (LOX) storage tank vents.



ICN-88277-G1235094-001-01

9. Remove inflight venting procedures decals from LOX storage tank control panels.



LOX STORAGE TANK
(REF)

9. LOX STORAGE TANK (3)

LOX STORAGE TANK
(REF)

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