

# TO 1300i-2-12JG-38-1

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## TECHNICAL MANUAL

### JOB GUIDE

### ORGANIZATIONAL MAINTENANCE

## SERVICING WATER/WASTE

(12-38-00 THROUGH 12-38-06)

### USAF SERIES

## 300i

### AIRCRAFT

MCDONNELL DOUGLAS CORPORATION

MILITARY TRANSPORT AIRCRAFT

F33657-81-C-2108

FA8526-12-D-0001

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# TO 1300i-2-12JG-38-1

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**T-2**

**1 JUNE 2021**

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# INTRODUCTION

## **SCOPE.**

This manual contains maintenance procedures for the servicing, draining, and purging of the water and waste system.

## **MODEL(S) COVERED.**

All

## **ABBREVIATIONS.**

The following is a list of non-standard abbreviations used throughout this manual:

EPC	Electrical Power Center
PLCS	Places
MSDS	Material Safety Data Sheet

## **CHANGE REQUEST.**

Recommendations for routine changes to this Technical Order (TO) will be on AFTO Form 22, Technical Manual (TM) Change Recommendation and Reply, in accordance with TO 00-5-1. Completed forms will be forwarded through the Command Control Point (CCP) to Boeing Airlift and Tanker, 300i Technical Publications group mailbox at 300i-techpubspcrs@boeing.com. Information copies will be sent to AFLCMC/WLMC TOMA, Robins AFB, GA.

Urgent AFTO Form 22s will be routed through the CCP to AFLCMC/WLMC TOMA, Robins AFB, GA. Emergency AFTO Form 22s will be transmitted by immediate message, e-mail, or fax to AFLCMC/WLMC TOMA. Information copies will be sent to HQ AMC/A4M, Scott AFB, IL and AFLCMC/WLMC TOMA, Robins AFB, GA.

## **300i TO INFORMATION.**

General 300i TO/eTO and TO Manager information can be found in the Enhanced Technical Information Management System (ETIMS). 300i TO supplement and finalized AFTO Form 22 information can be found on the 300i TO System Application Site at: <https://asw.robins.af.mil/afto22/AFTO22>

## LIST OF TIME COMPLIANCE TECHNICAL ORDERS (TCTO).

This list of TCTO's contains all current TCTO's that affect the technical content of text or illustrations found in this manual.

TCTO NUMBER	TITLE	TCTO DATE	APPLICABILITY
1300i-2384	Modification of Crew Lavatory Toilet Tank Installation, Part No. 17P1B2402-505 to Part No. 17P1B2402-507 (Ref Des 381AA001), 300i Aircraft		AA → MM



## SECTION 1

### GENERAL INFORMATION (12-38-00)

#### **1-1. GENERAL INFORMATION.**

1-2. This section provides general information that is essential for ensuring complete and safe maintenance procedures contained throughout this manual.

1-3. All adhesive sealants, sealants, and compounds used in this manual are listed with a primary part number and/or primary specification number. Any suitable substitutes and/or interchangeable adhesive sealants, sealants, and compounds may be used unless otherwise specified. Suitable substitutes and/or interchangeable adhesive sealants, sealants, and compounds are listed in the system peculiar corrosion control manual (Refer to TO 1300i-23, Chapter 1, Section III).



## SECTION 2

### POTABLE WATER SERVICING (12-38-01)

#### GENERAL MAINTENANCE INPUT CONDITIONS:

##### Applicability:

All

##### Task

All

##### Additional information:

This procedure consists of the following tasks:

- 01-1. Power on servicing.
- 01-2. Manual servicing.
- 01-3. Power on servicing after tank/system drain.
- 01-4. Manual servicing after tank/system drain.

##### Additional data:

TO 1300i-2-10JG-60-1

##### Task

01-1,  
01-3

TO 1300i-2-38JG-10-1

01-3,  
01-4

##### Personnel recommended:

One

##### Task

All

##### Safety conditions:

NA

##### Task

--

Support equipment:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Truck, Tank	--	MIL-T-83018	1	01-1, 01-3

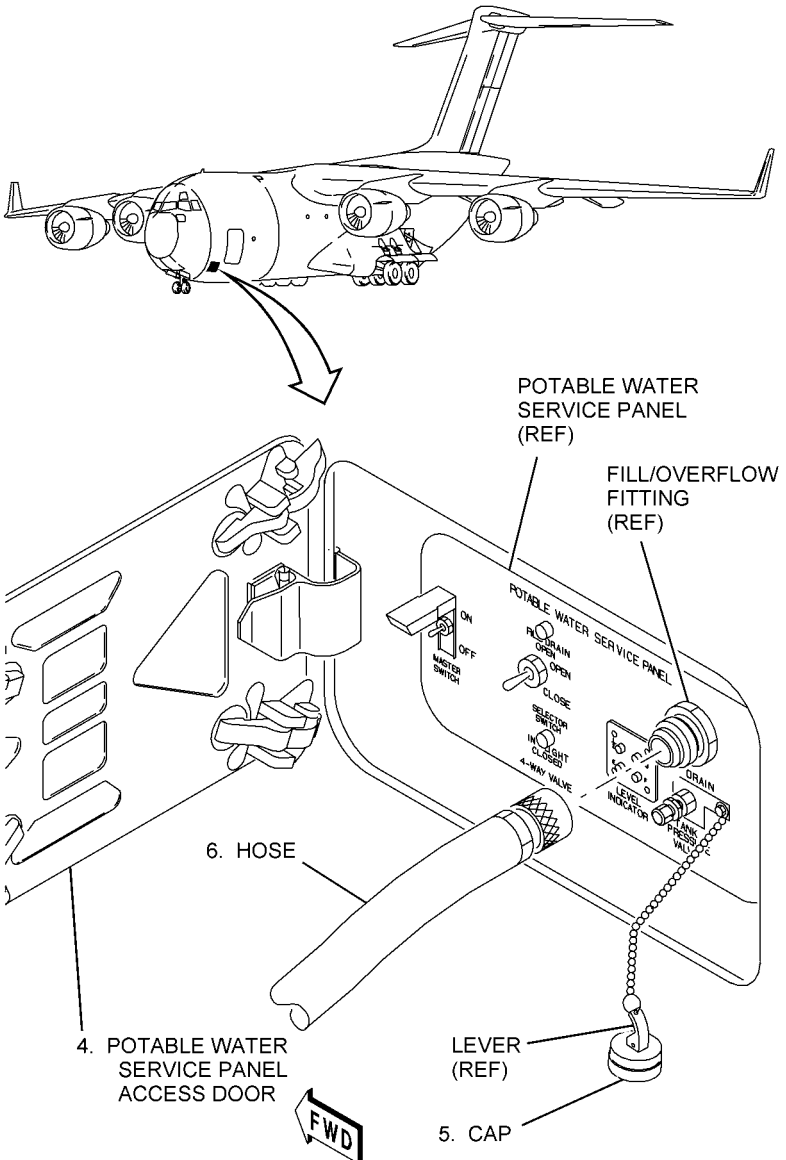
Supplies:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
NA	--	--	--	--



## 01-1. POWER ON SERVICING.

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. Connect external electrical power (10-61-01, task 01-1).
4. Unlatch and open potable water service panel access door (235ALD).
5. Pull lever and remove cap from **FILL/OVERFLOW** fitting on **POTABLE WATER SERVICE PANEL**.
6. Connect hose from truck to fitting or an approved water source to fitting.

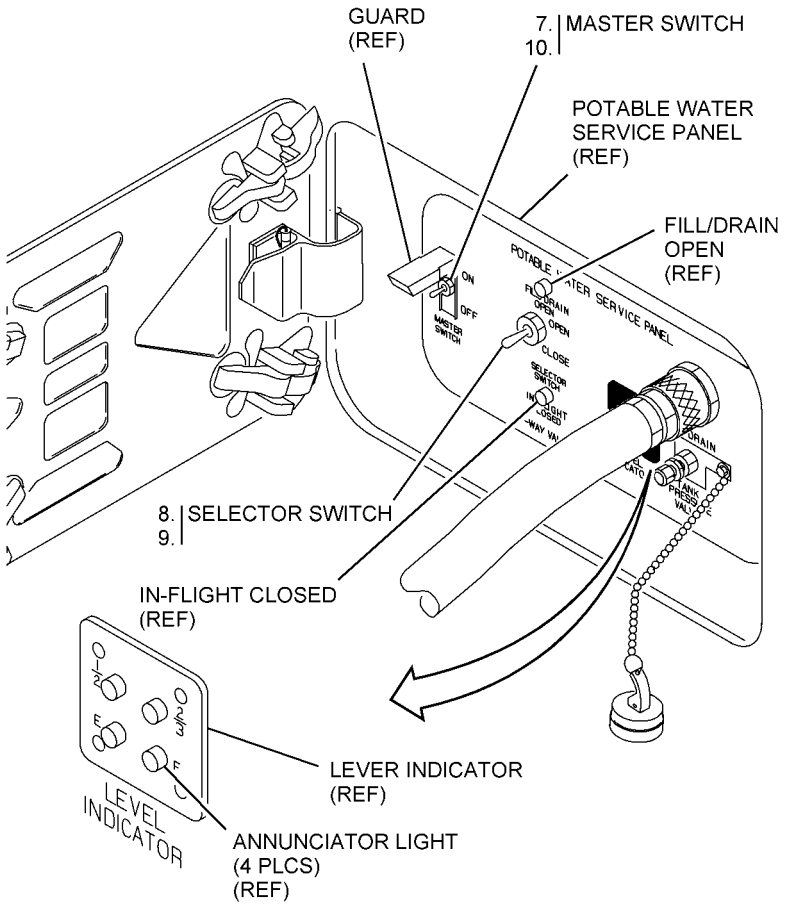


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## TO 1300i-2-12JG-38-1

7. Raise guard and set **MASTER SWITCH** on **POTABLE WATER SERVICE PANEL** to **ON**.
8. Set **SELECTOR SWITCH** to **OPEN**.
  - **FILL/DRAIN OPEN** light comes on.
  - All annunciator lights on **LEVEL INDICATOR** come on when filled.
9. Set **SELECTOR SWITCH** to **CLOSE**.
  - **FILL/DRAIN OPEN** light goes off.
  - **IN-FLIGHT CLOSED** light comes on.
10. Set **MASTER SWITCH** to **OFF** and lower guard.
  - **IN-FLIGHT CLOSED** light goes off.
  - Annunciator lights go off.

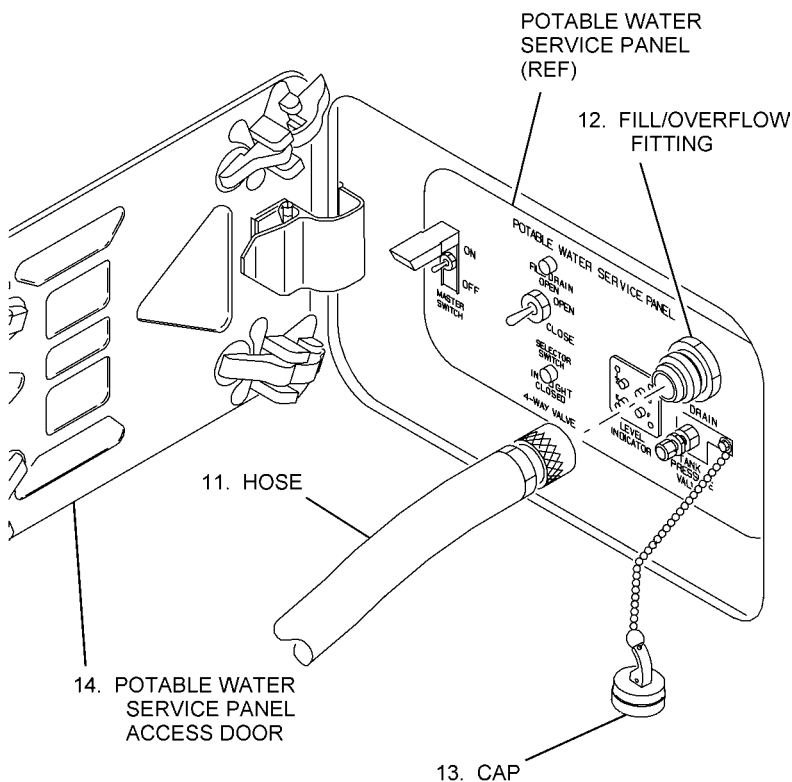




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## **TO 1300i-2-12JG-38-1**

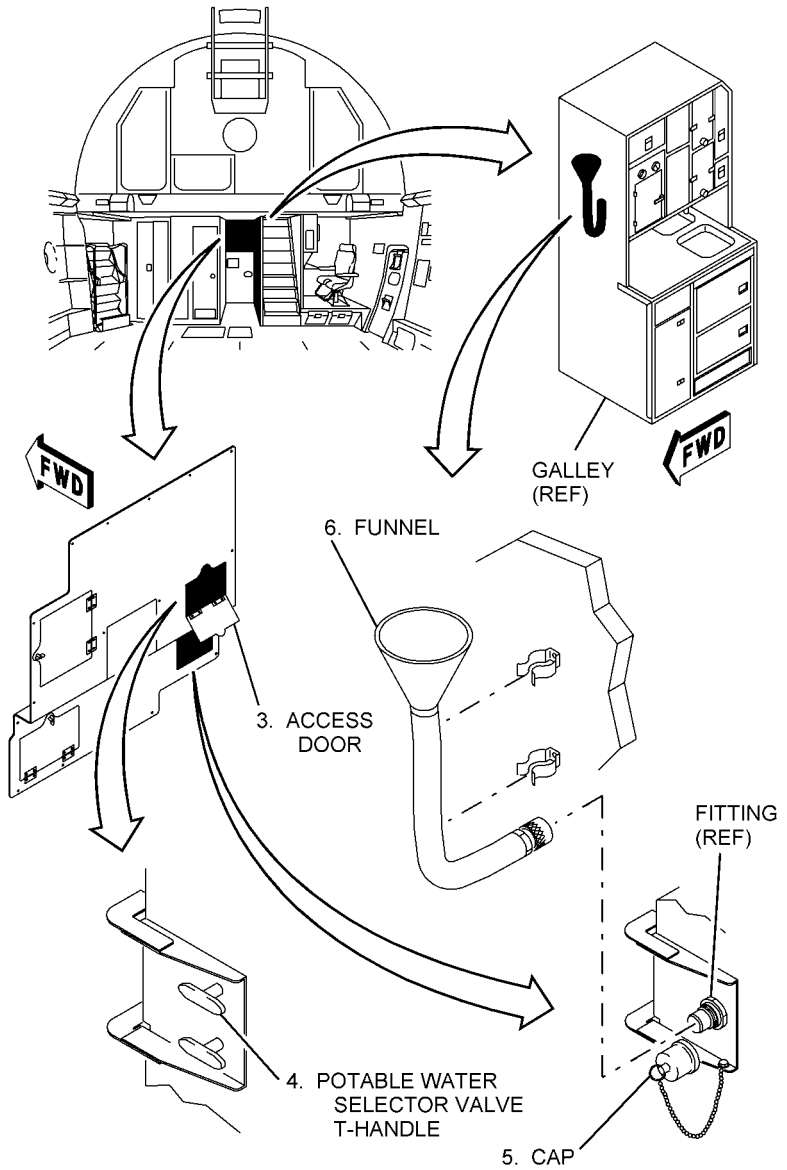
11. Disconnect hose from **FILL/OVERFLOW** fitting on **POTABLE WATER SERVICE PANEL**.
12. Allow trapped water to drain from **FILL/OVERFLOW** fitting.
13. Install cap on fitting.
14. Close and latch potable water service panel access door (235ALD).
15. Disconnect external electrical power (10-61-01, task 01-2).



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## **01-2. MANUAL SERVICING.**

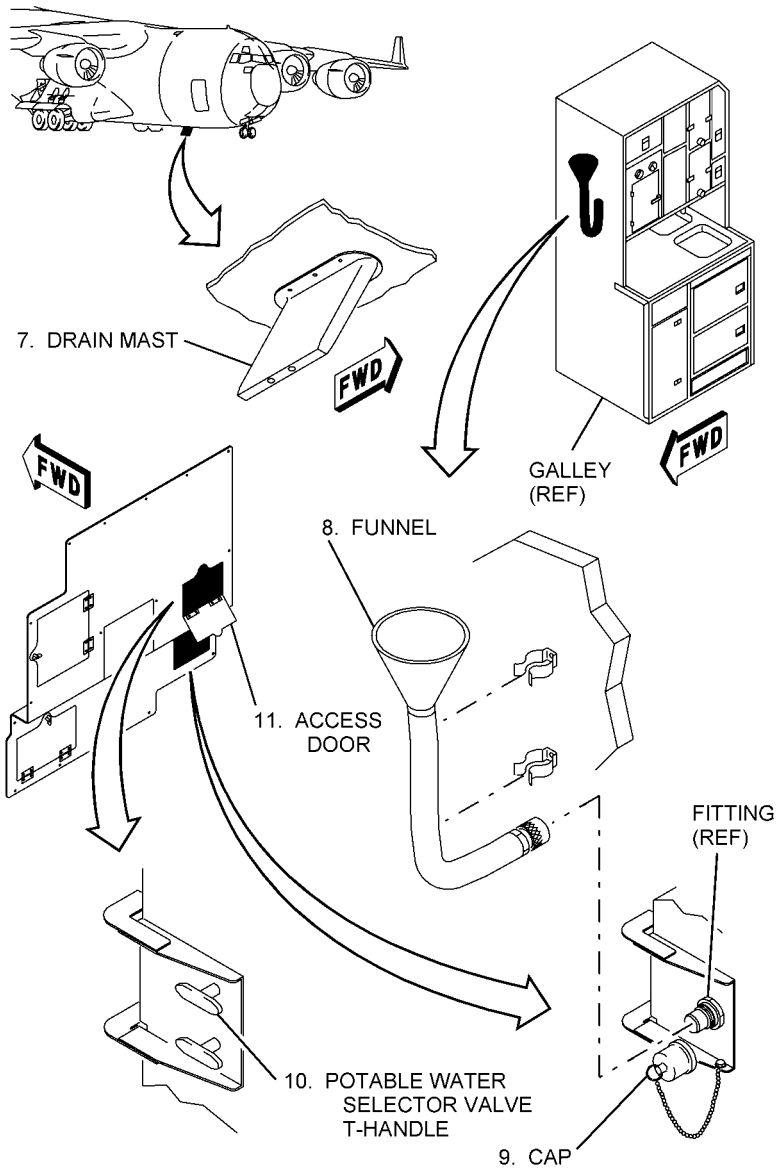
1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "General Maintenance Input Conditions" page for task specific safety conditions.
3. Unlatch and open access door (237RZD).
4. Pull potable water selector valve T-handle.
5. Remove cap from fitting.
6. Remove funnel from galley and connect to fitting.



ICN-88277-G1238004-005-01

## **TO 1300i-2-12JG-38-1**

7. Fill potable water system until water comes out of drain mast.
8. Disconnect funnel from fitting and install on galley.
9. Install cap on fitting.
10. Push potable water selector valve T-handle in.
11. Close and latch access door (237RZD).

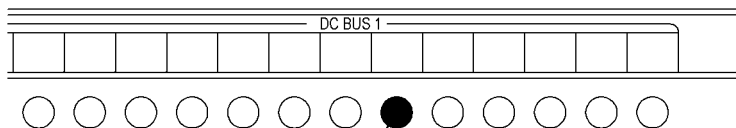
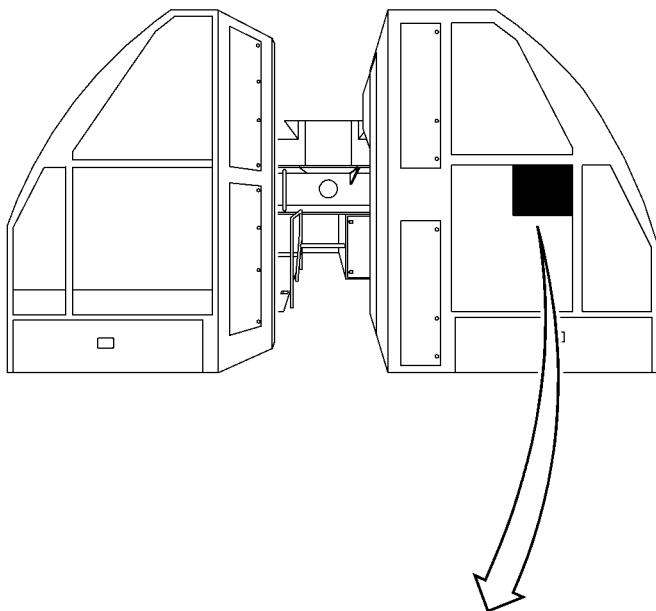


ICN-88277-G1238005-004-01

### 01-3. POWER ON SERVICING AFTER TANK/ SYSTEM DRAIN.

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. Connect external electrical power (10-61-01, task 01-1).
4. Remove warning tag and close **POT WATER & WASTE PANEL CONTROL** circuit breaker, on electrical power center, row **L**, column **61**.

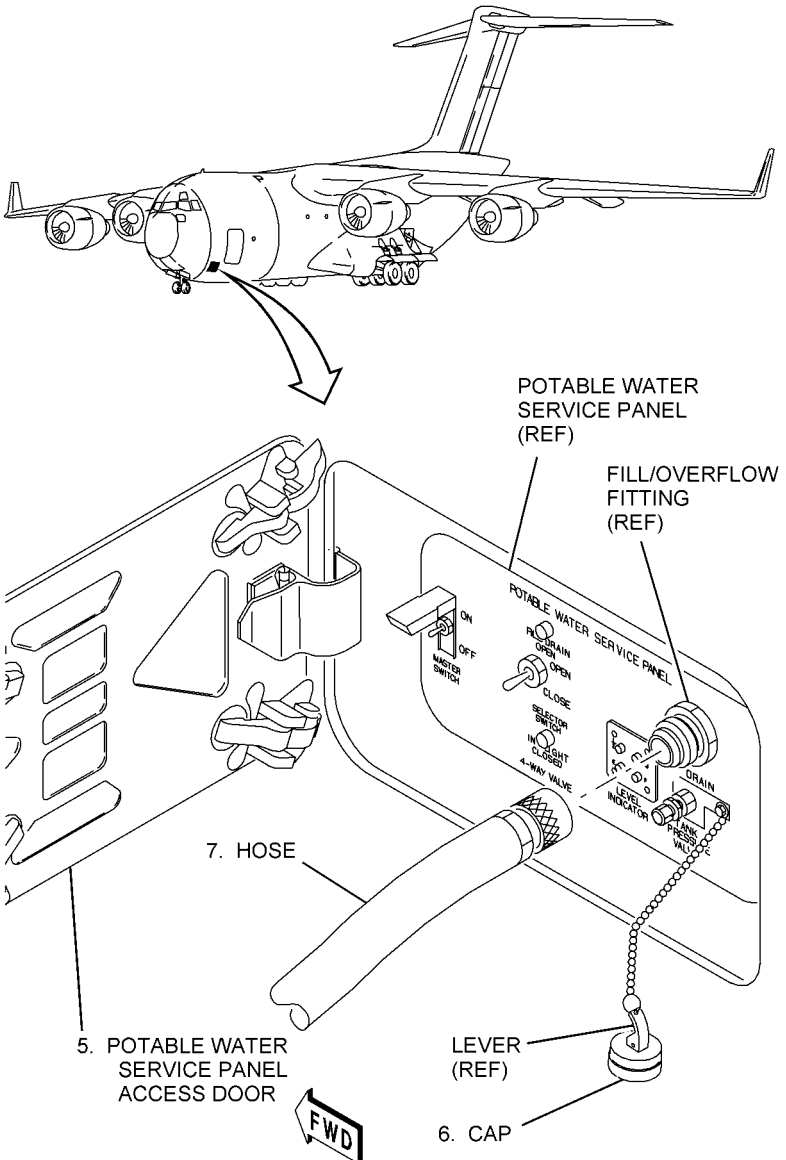




4. POT WATER & WASTE PANEL CONTROL

## **TO 1300i-2-12JG-38-1**

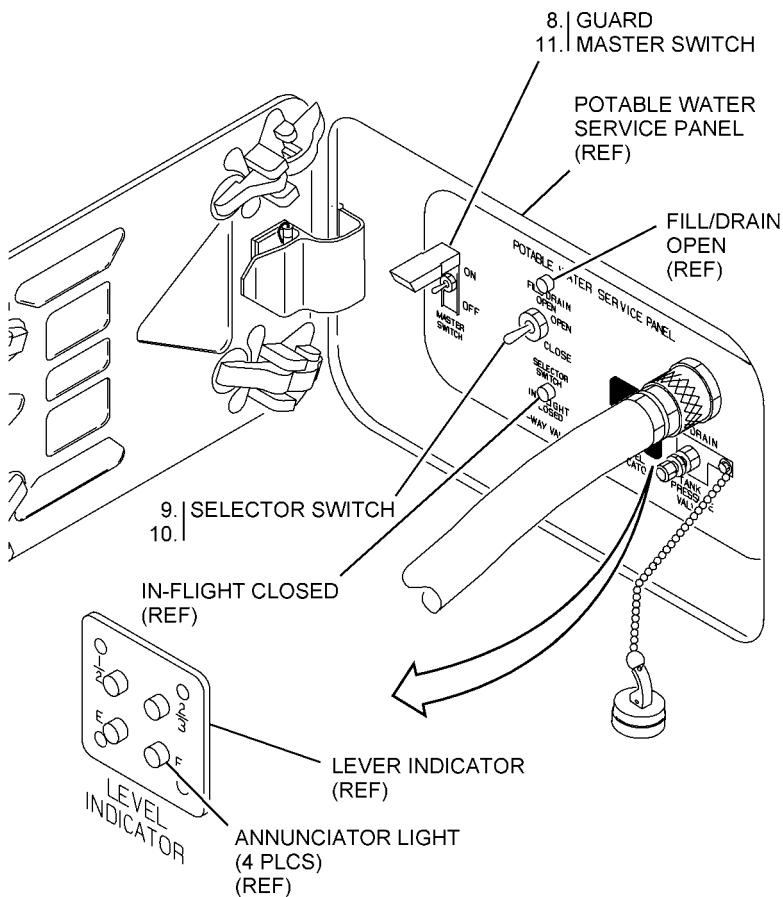
5. Unlatch and open potable water service panel access door (235ALD).
6. Pull lever and remove cap from **FILL/OVERFLOW** fitting on **POTABLE WATER SERVICE PANEL**.
7. Connect hose from truck to fitting or an approved water source to fitting.



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## TO 1300i-2-12JG-38-1

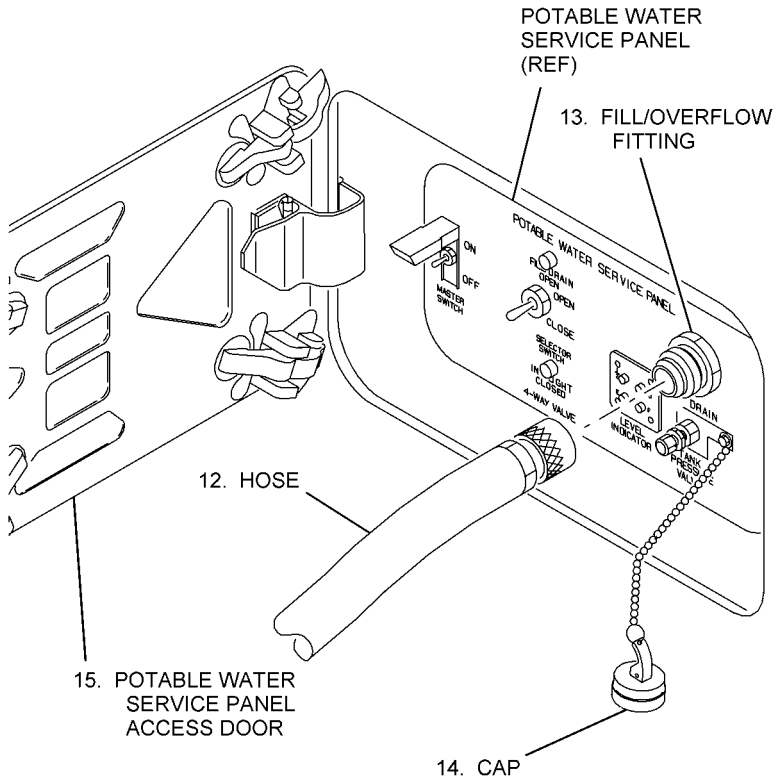
8. Raise guard and set **MASTER SWITCH** on **POTABLE WATER SERVICE PANEL** to **ON**.
9. Set **SELECTOR SWITCH** to **OPEN**.
  - **FILL/DRAIN OPEN** light comes on.
  - All annunciator lights on **LEVEL INDICATOR** come on when filled.
10. Set **SELECTOR SWITCH** to **CLOSE**.
  - **FILL/DRAIN OPEN** light goes off.
  - **IN-FLIGHT CLOSED** light comes on.
11. Set **MASTER SWITCH** to **OFF** and lower guard.
  - **IN-FLIGHT CLOSED** light goes off.
  - Annunciator lights go off.



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## **TO 1300i-2-12JG-38-1**

12. Disconnect hose from **FILL/OVERFLOW** fitting on **POTABLE WATER SERVICE PANEL**.
13. Allow trapped water to drain from **FILL/OVERFLOW** fitting.
14. Install cap on fitting.
15. Close and latch potable water service panel access door (235ALD).

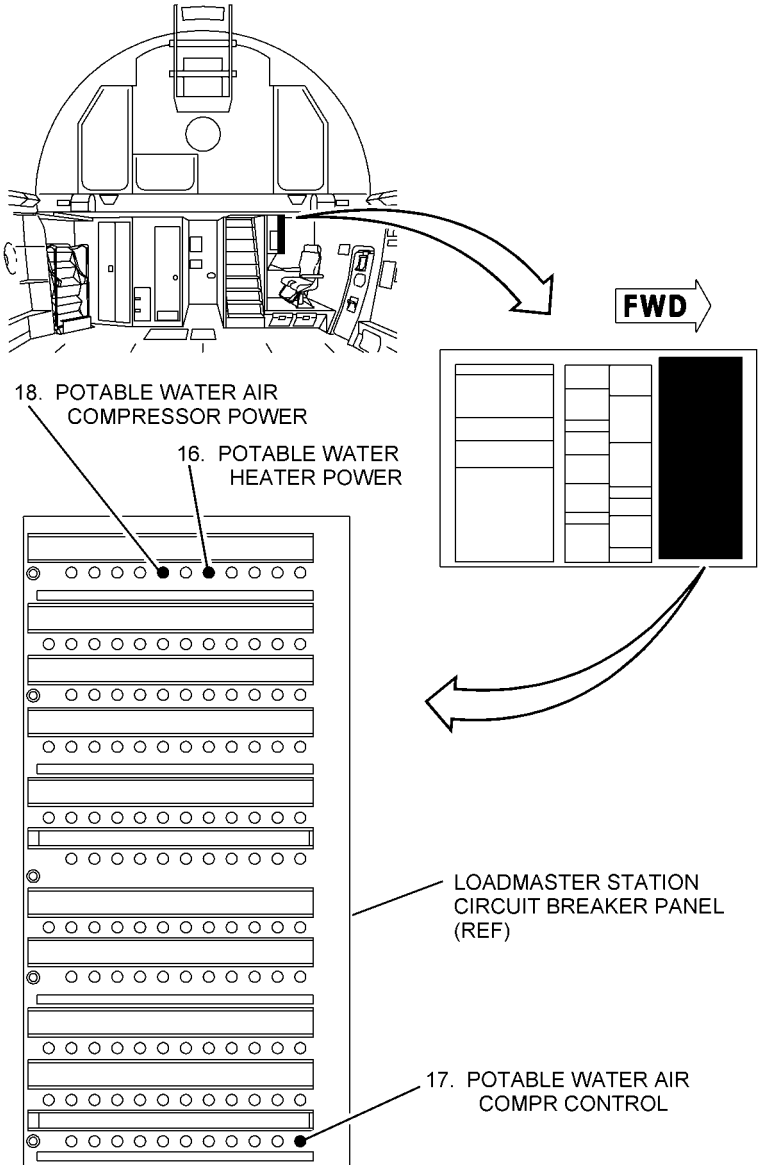


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## TO 1300i-2-12JG-38-1

16. Remove warning tag and close **POTABLE WATER HEATER POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **8**.
17. Remove warning tag and close **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**.
18. Remove warning tag and close **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **6**.
19. Disconnect external electrical power (10-61-01, task 01-2).

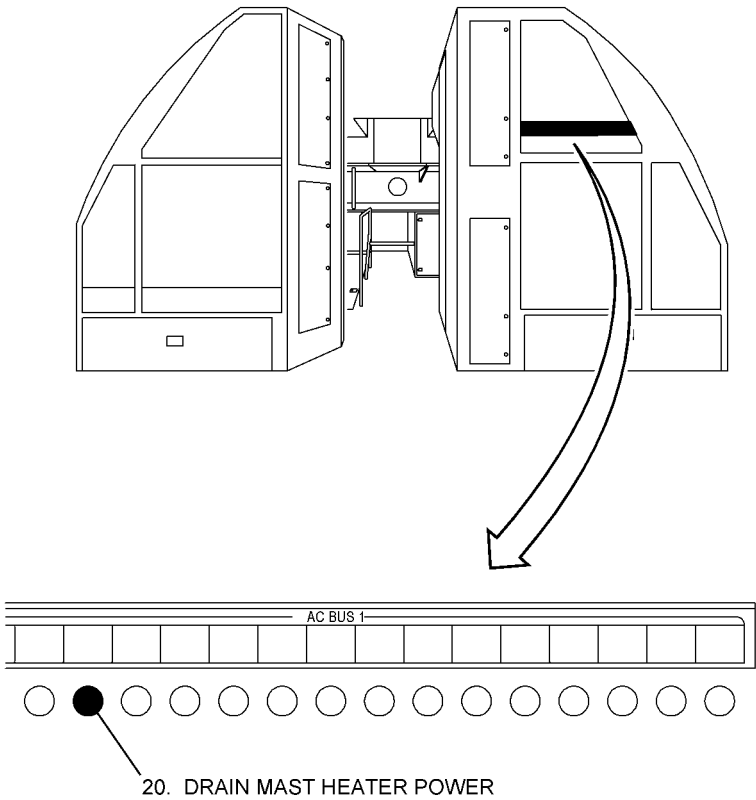




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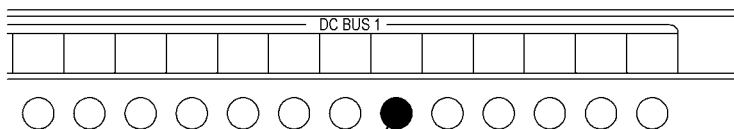
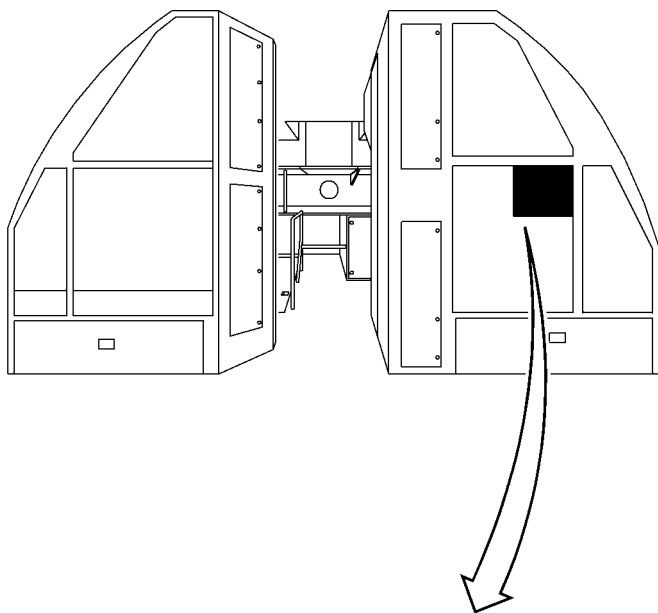
## TO 1300i-2-12JG-38-1

20. Remove warning tag and close **DRAIN MAST HEATER POWER** circuit breaker on electrical power center, row **J**, column **52**.
21. Perform operational checkout (38-11-01).



## 01-4. MANUAL SERVICING AFTER TANK/SYSTEM DRAIN.

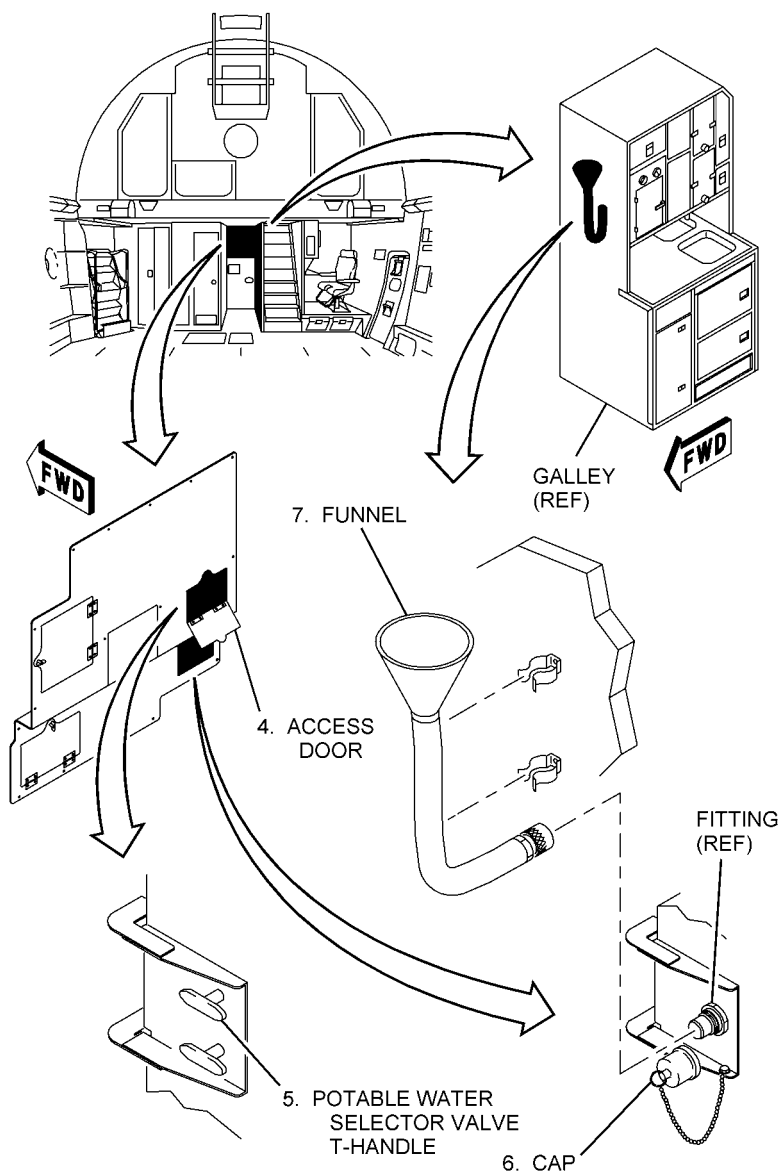
1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "General Maintenance Input Conditions" page for task specific safety conditions.
3. Remove warning tag and close **POT WATER & WASTE PANEL CONTROL** circuit breaker, on electrical power center, row **L**, column **61**.



3. POT WATER & WASTE PANEL CONTROL

## **TO 1300i-2-12JG-38-1**

4. Unlatch and open access door (237RZD).
5. Pull potable water selector valve T-handle.
6. Remove cap from fitting.
7. Remove funnel from galley and connect to fitting.

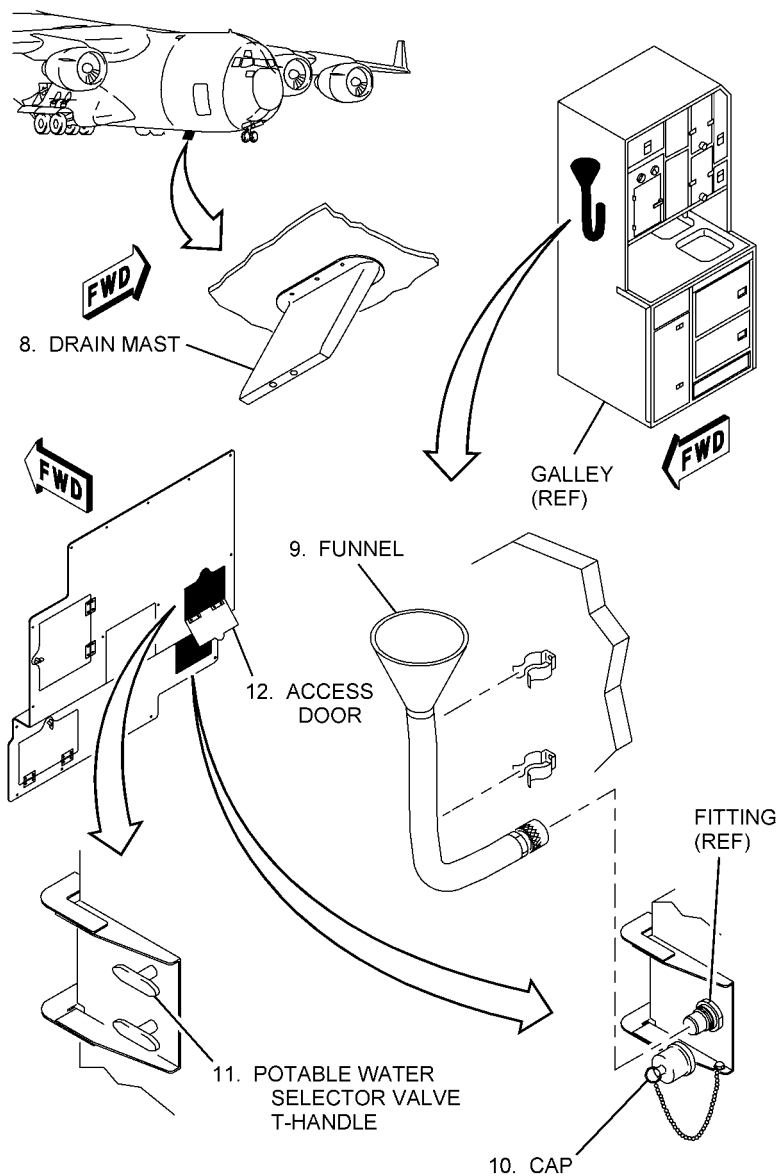


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## **TO 1300i-2-12JG-38-1**

8. Fill potable water system until water comes out of drain mast.
9. Disconnect funnel from fitting and install on galley.
10. Install cap on fitting.
11. Push potable water selector valve T-handle in.
12. Close and latch access door (237RZD).

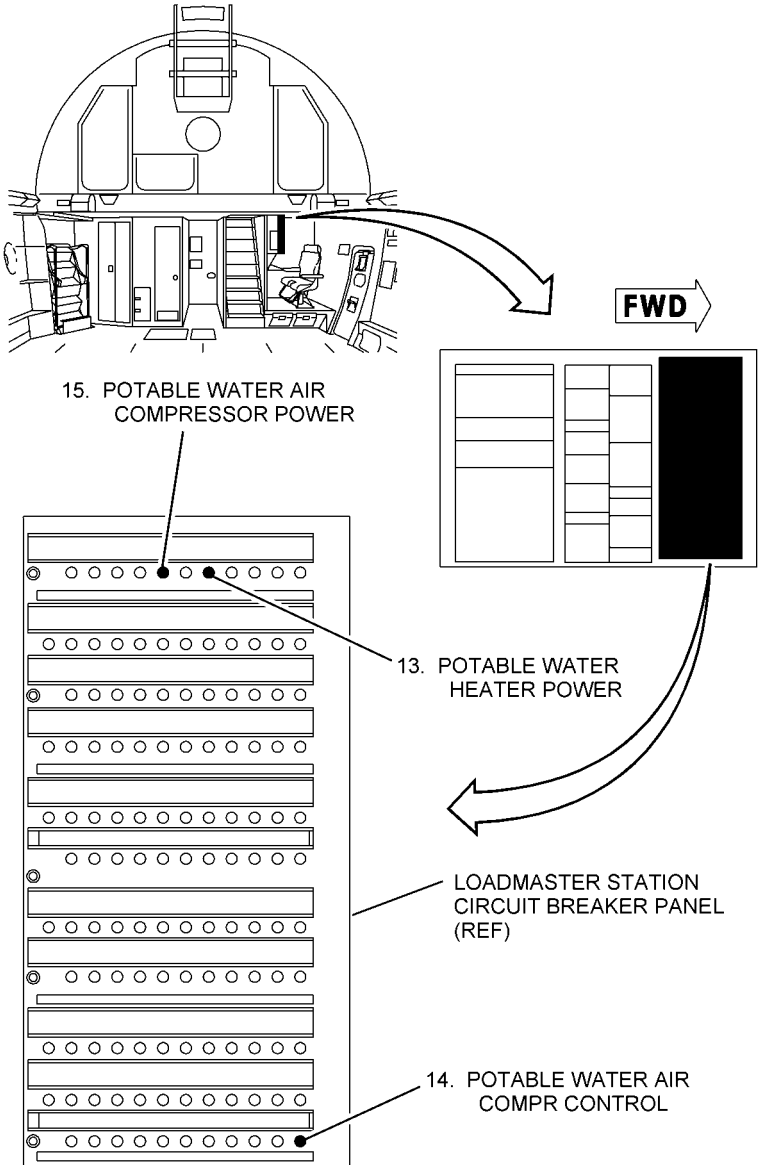




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## TO 1300i-2-12JG-38-1

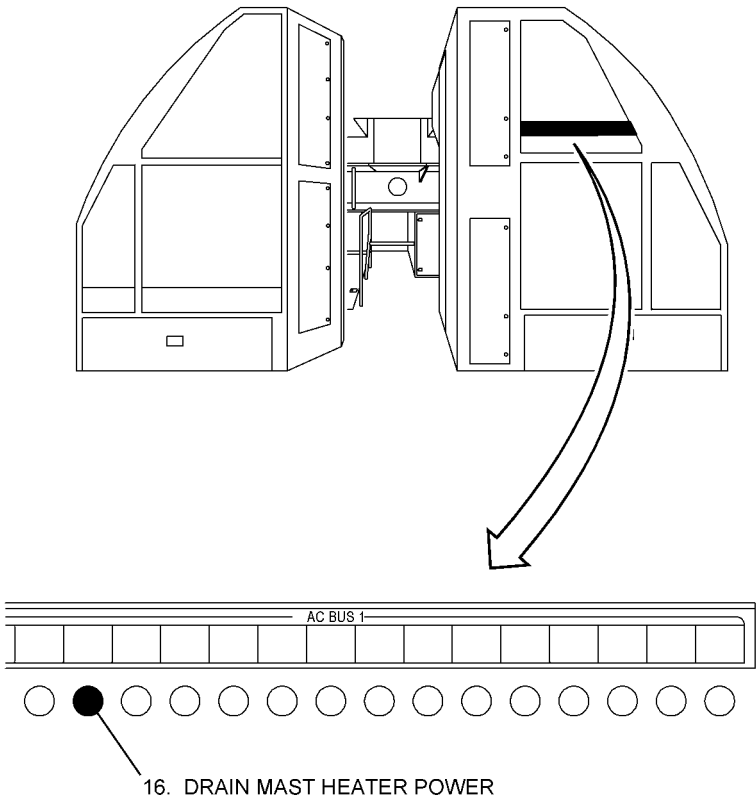
13. Remove warning tag and close **POTABLE WATER HEATER POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **8**.
14. Remove warning tag and close **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**.
15. Remove warning tag and close **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **6**



ICN-88277-G1238094-001-01

## TO 1300i-2-12JG-38-1

16. Remove warning tag and close **DRAIN MAST HEATER POWER** circuit breaker on electrical power center, row **J**, column **52**.
17. Perform operational checkout (38-11-01).





## POTABLE WATER DRAINING (12-38-02)

### GENERAL MAINTENANCE INPUT CONDITIONS:

**Applicability:**

All

**Task**

All

**Additional information:**

This procedure consists of the following tasks:

- 02-1. Preparation.
- 02-2. Tank draining.
- 02-3. System draining - cold weather protection.

**Additional data:**

NA

**Task**

--

**Personnel recommended:**

One

**Task**

All

**Safety conditions:**

NA

**Task**

--

Support equipment:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Grating, Metal Safety	17G110013-1	--	1	02-3

Supplies:

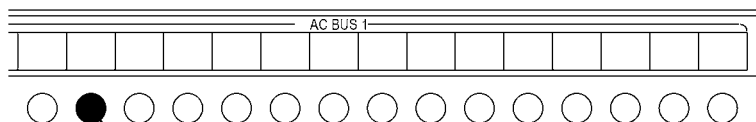
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Tag, Warning	--	--	5	02-1
Tag, Warning	--	--	2	02-3



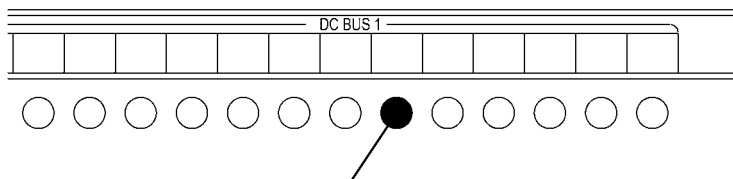
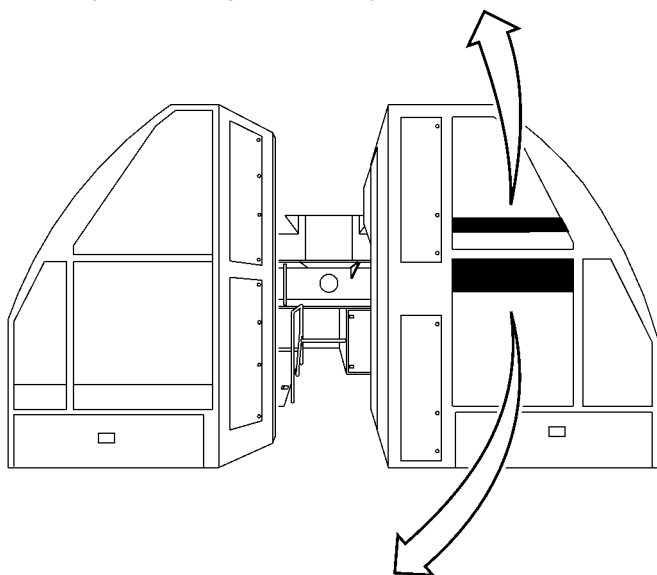


## **02-1. PREPARATION.**

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. Open **DRAIN MAST HEATER POWER** circuit breaker on electrical power center, row **J**, column **52**, and attach warning tag.
4. Open **POT WATER & WASTE PANEL CONTROL** circuit breaker on electrical power center, row **L**, column **61**, and attach warning tag.



3. DRAIN MAST HEATER POWER

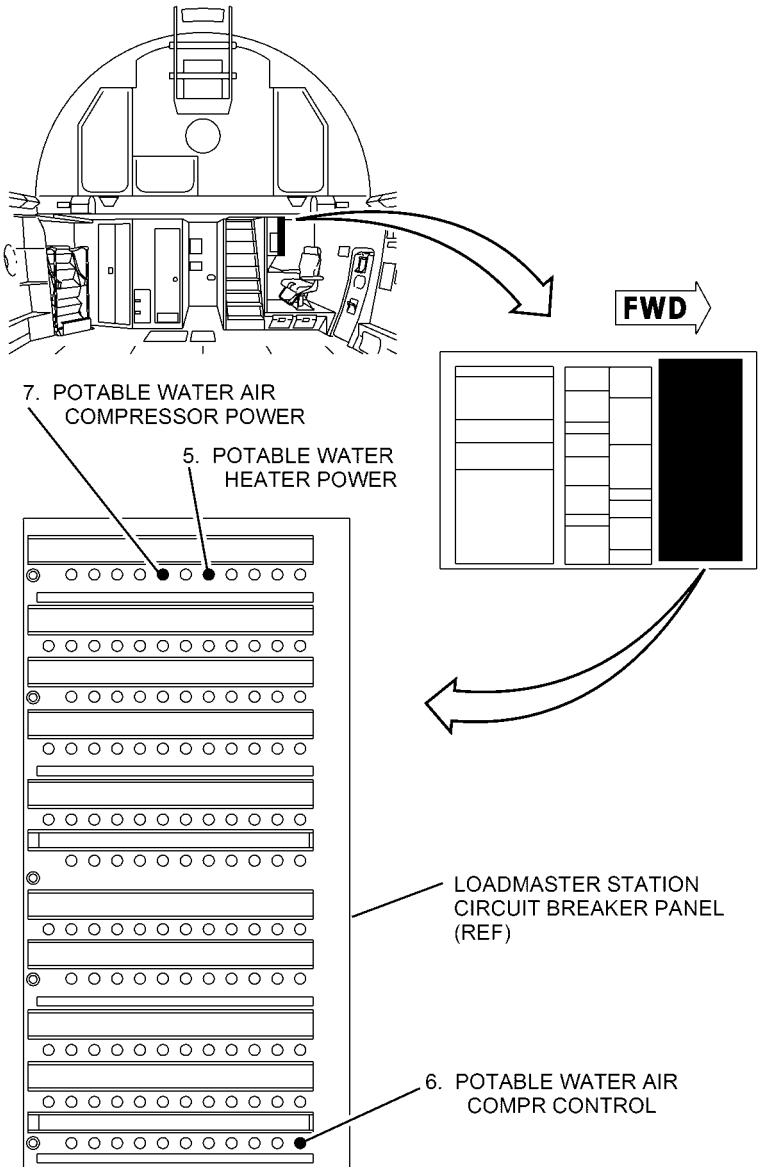


4. POT WATER & WASTE PANEL CONTROL

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## TO 1300i-2-12JG-38-1

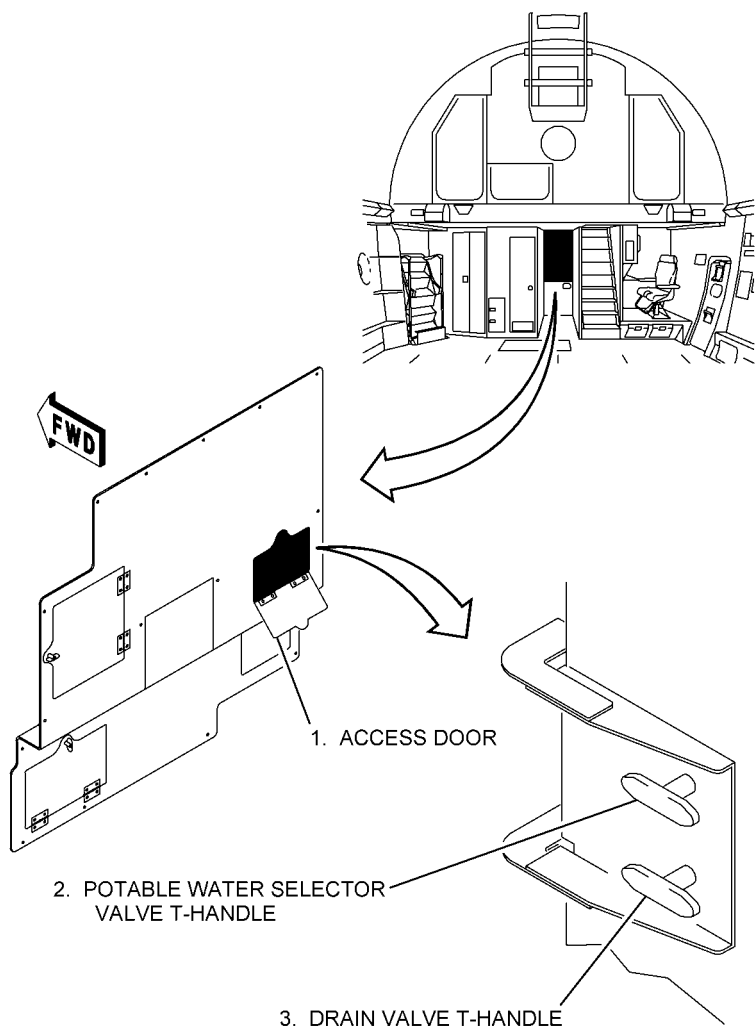
5. Open **POTABLE WATER HEATER POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **8**, and attach warning tag.
6. Open **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**, and attach warning tag.
7. Open **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **6**, and attach warning tag.



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## **02-2. TANK DRAINING.**

1. Unlatch and open access door (237RZD).
2. Pull potable water selector valve T-handle.
3. Pull drain valve T-handle.



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**NOTE**

Drain time is approximately 5 minutes when potable water tank is full.

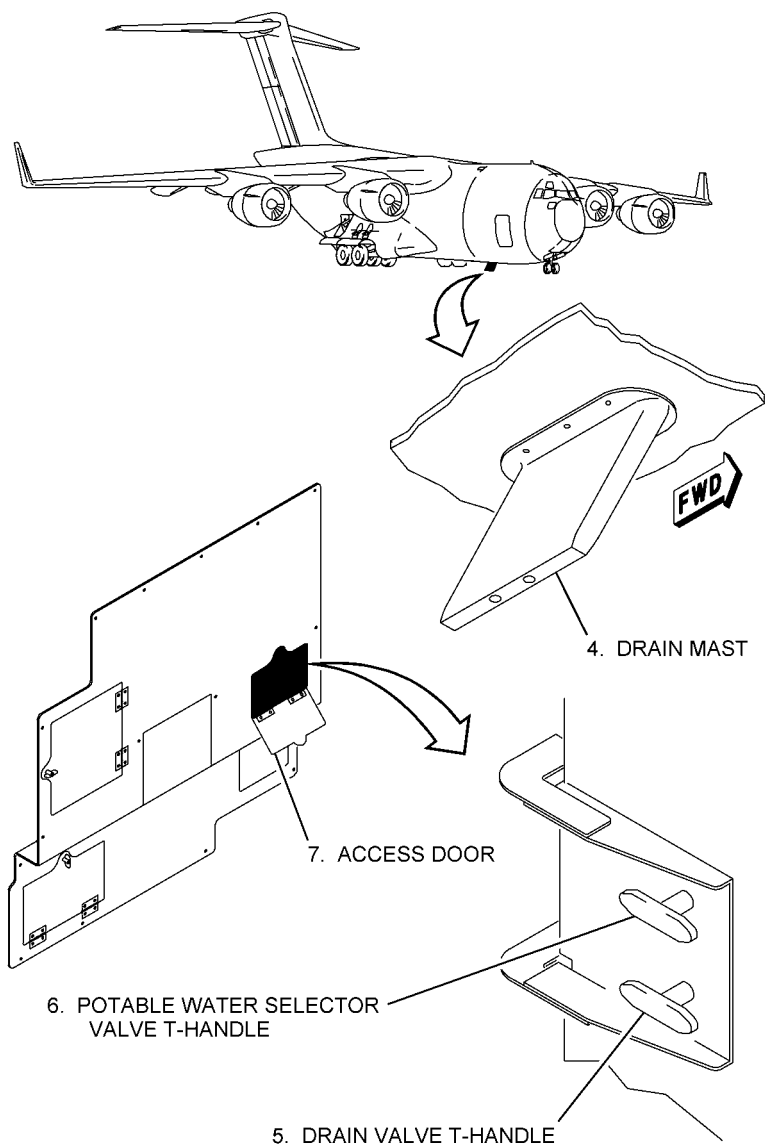
4. Check drain mast to ensure that water is completely drained.



Drain valve T-handle must be closed (pushed in) for flight operations. Failure to comply may cause damage to aircraft.

5. Push drain valve T-handle in.
6. Push potable water selector valve T-handle in.
7. Close and latch access door (237RZD).





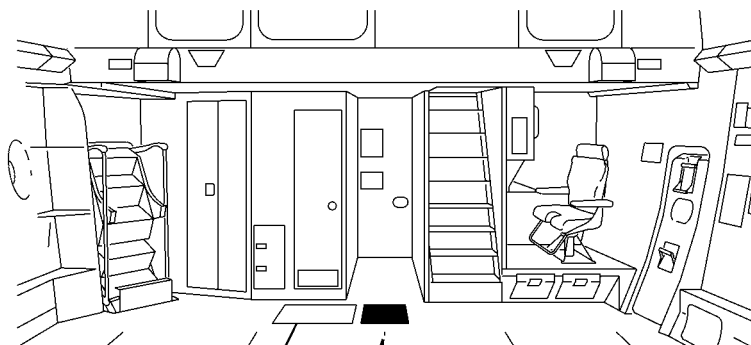
ICN-88277-G1238011-003-01

## **02-3. SYSTEM DRAINING - COLD WEATHER PROTECTION.**

### **NOTE**

Perform steps 1 thru 3 when AFTO Form 781 records indicate a boxcar seal for the underfloor access door, otherwise continue with step 4.

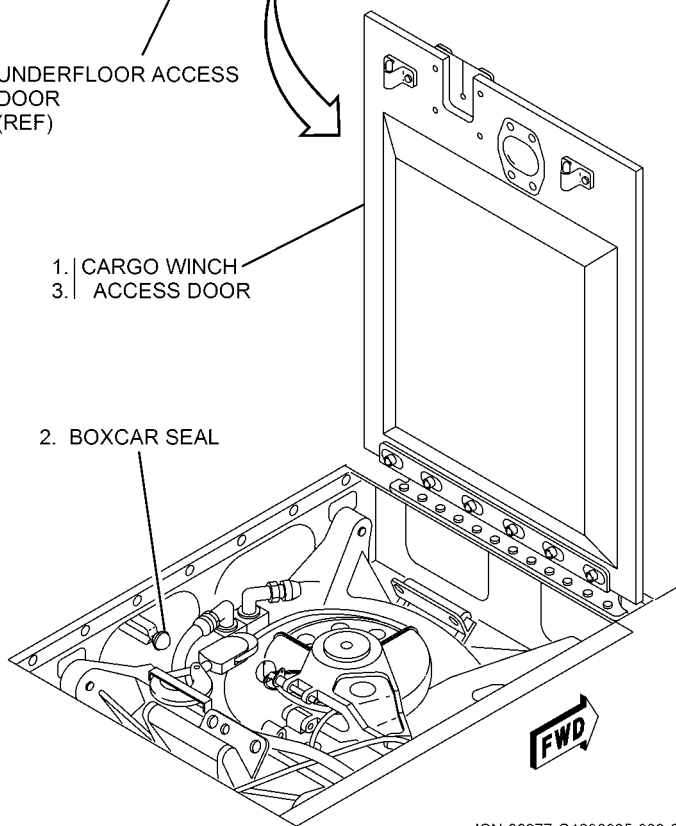
1. Unlatch and open cargo winch access door (237JZD).
2. Remove boxcar seal from underfloor access door (237HZD).
3. Close and latch cargo winch access door (237JZD).



UNDERFLOOR ACCESS  
DOOR  
(REF)

1. CARGO WINCH
3. ACCESS DOOR

2. BOXCAR SEAL

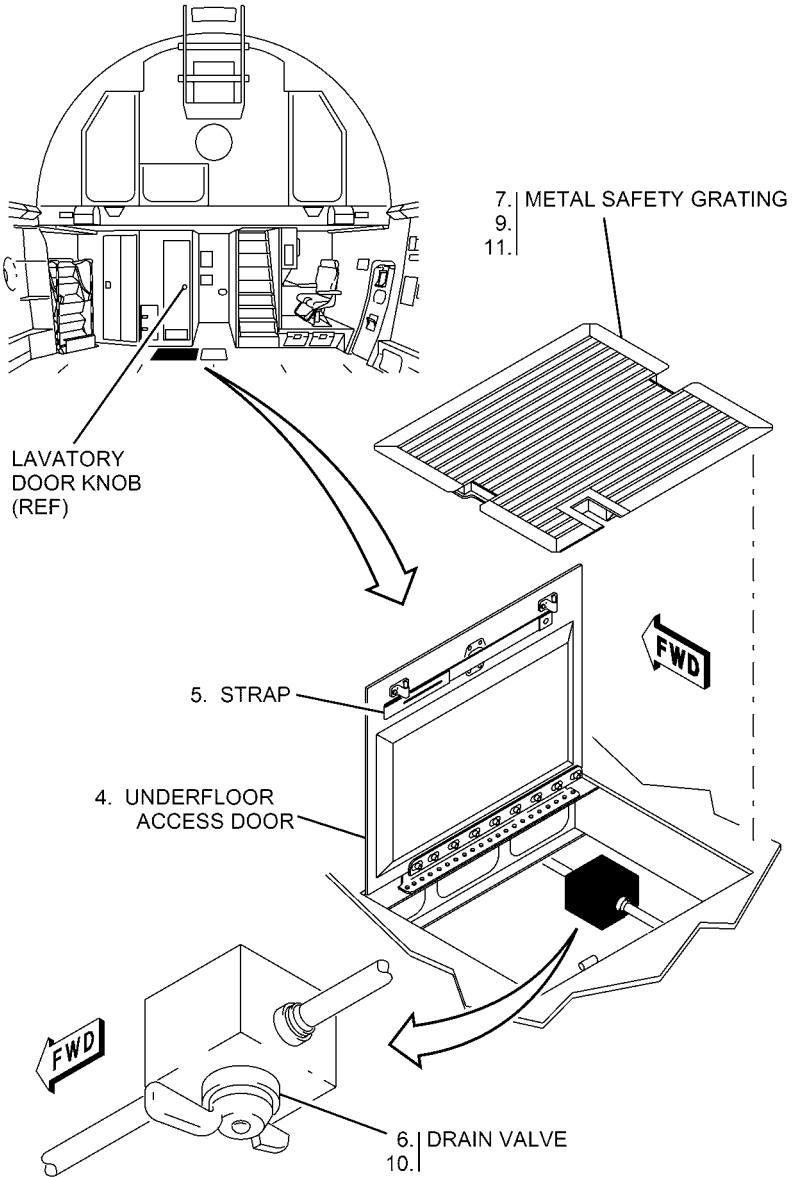


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No personnel shall be in lavatory while underfloor access door is open. Failure to comply may cause damage to aircraft.

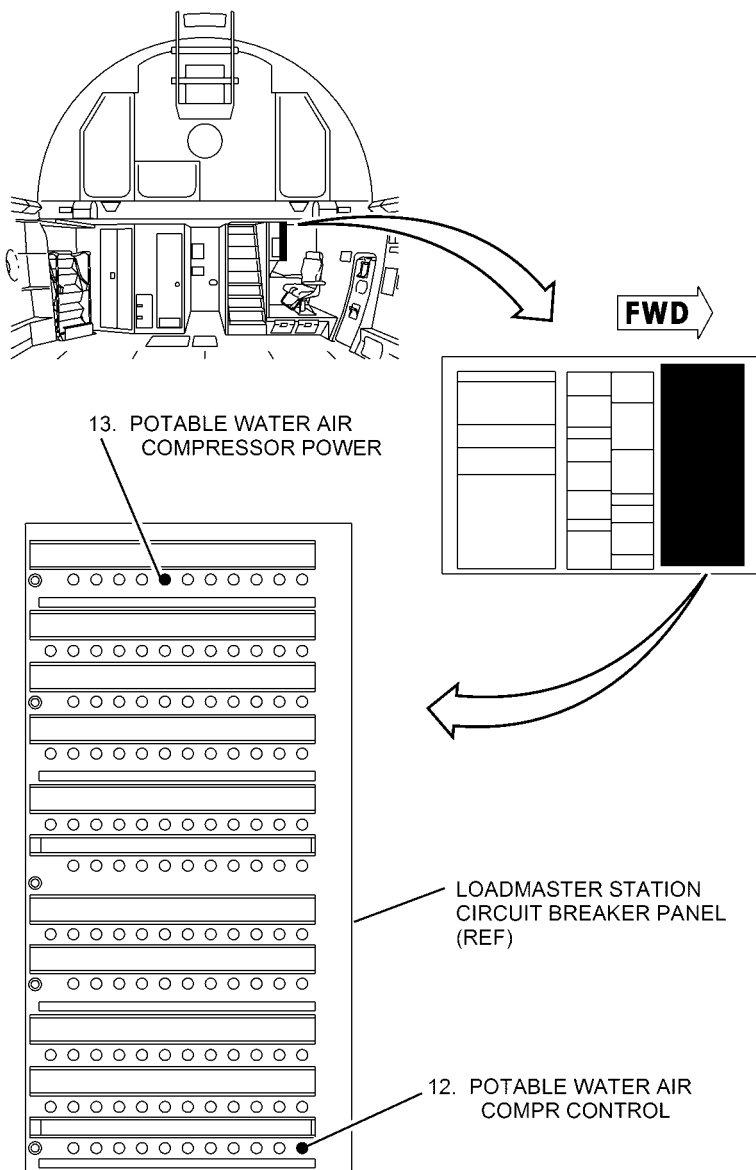
4. Unlatch and open underfloor access door (237HZD).
5. Attach hold open strap to lavatory door knob.
6. Open drain valve.
7. Install metal safety grating.
8. Drain potable water (tasks 02-1 and 02-2).
9. Remove metal safety grating.
10. Close drain valve.
11. Install metal safety grating.



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## TO 1300i-2-12JG-38-1

12. Remove warning tag and close **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**.
13. Remove warning tag and close **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker, on loadmaster station circuit breaker panel, row **A**, column **6**.



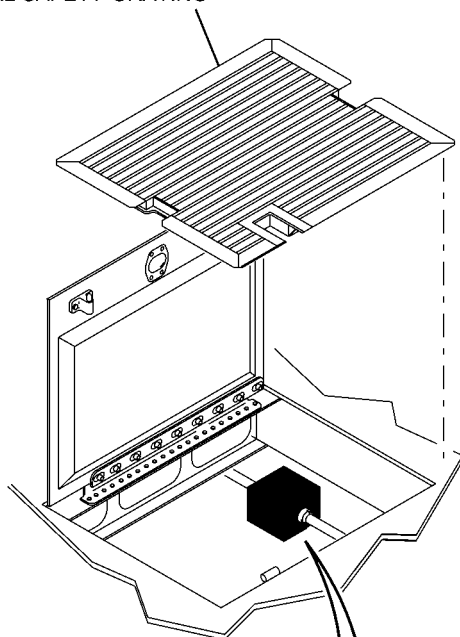
ICN-88277-G1238052-004-01

## **TO 1300i-2-12JG-38-1**

14. Remove metal safety grating.
15. Open drain valve for 1 minute; trapped water drains.
16. Close drain valve.

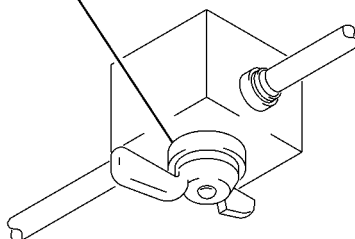


14. METAL SAFETY GRATING



15. DRAIN VALVE

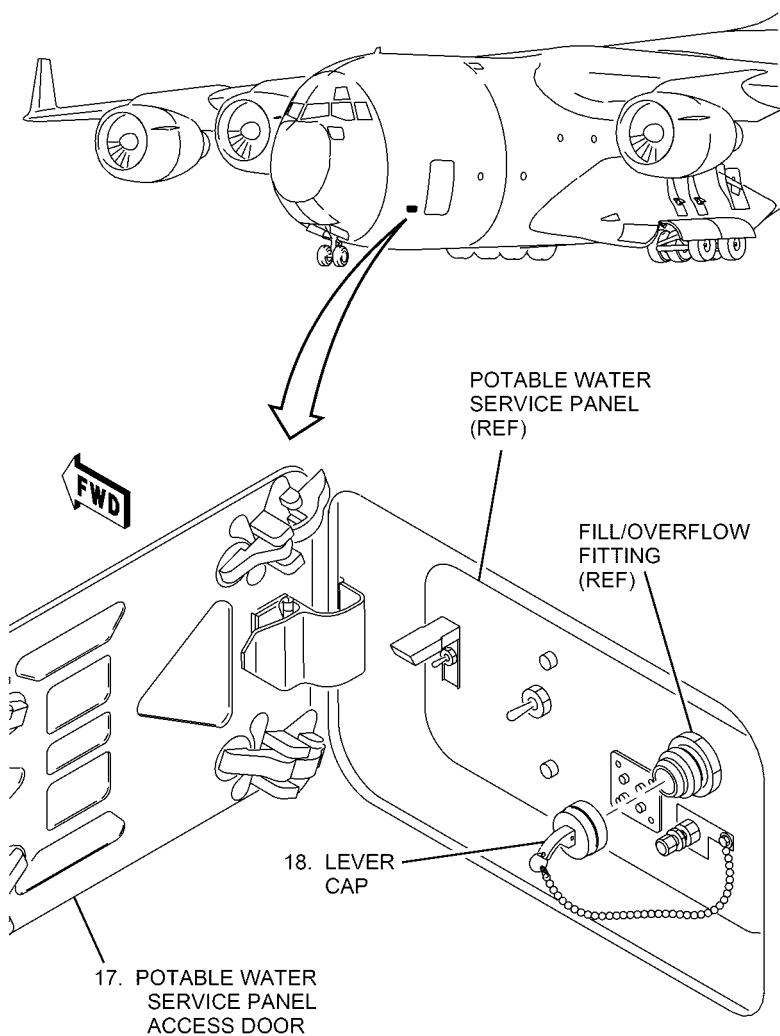
16.



ICN-88277-G1238053-004-01

## **TO 1300i-2-12JG-38-1**

17. Unlatch and open potable water service panel access door (235ALD).
18. Pull lever and remove cap from **FILL/OVERFLOW** fitting on **POTABLE WATER SERVICE PANEL**.

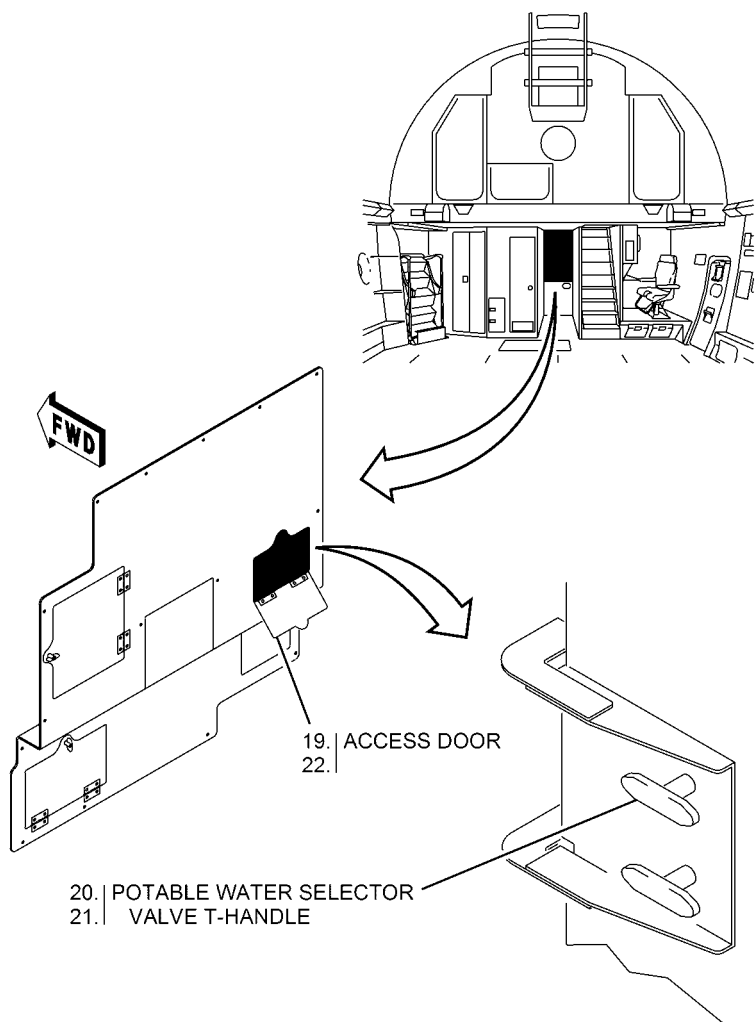


ICN-88277-G1238105-002-01

**WARNING**

Clear all personnel from the area around the potable water service panel access door and crew door. Failure to comply may cause injury to personnel.

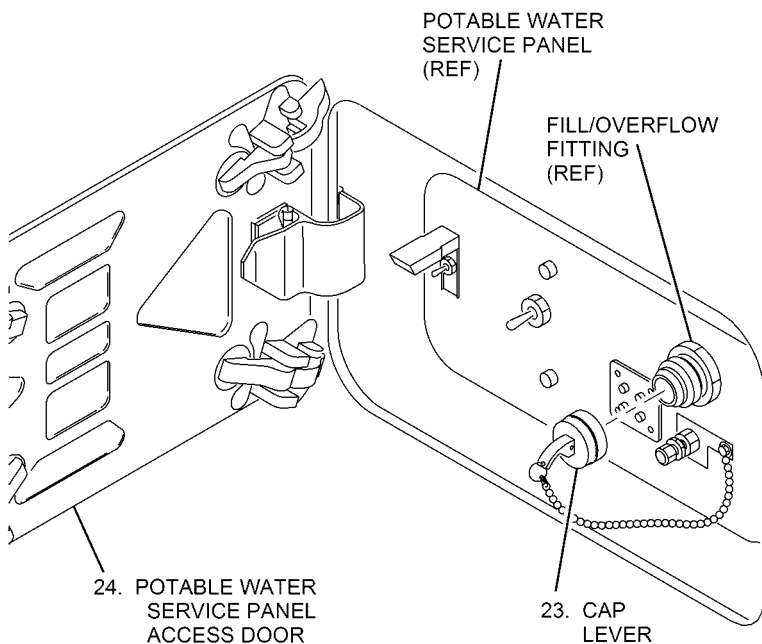
19. Unlatch and open access door (237RZD).
20. Pull potable water selector valve T-handle; drain trapped water for one minute.
21. Push potable water selector valve T-handle.
22. Close and latch access door (237RZD).



ICN-88277-G1238106-002-01

## **TO 1300i-2-12JG-38-1**

23. Replace cap and close lever on **FILL/OVERFLOW** fitting on **POTABLE WATER SERVICE PANEL**.
24. Close and latch potable water service panel access door (235ALD).

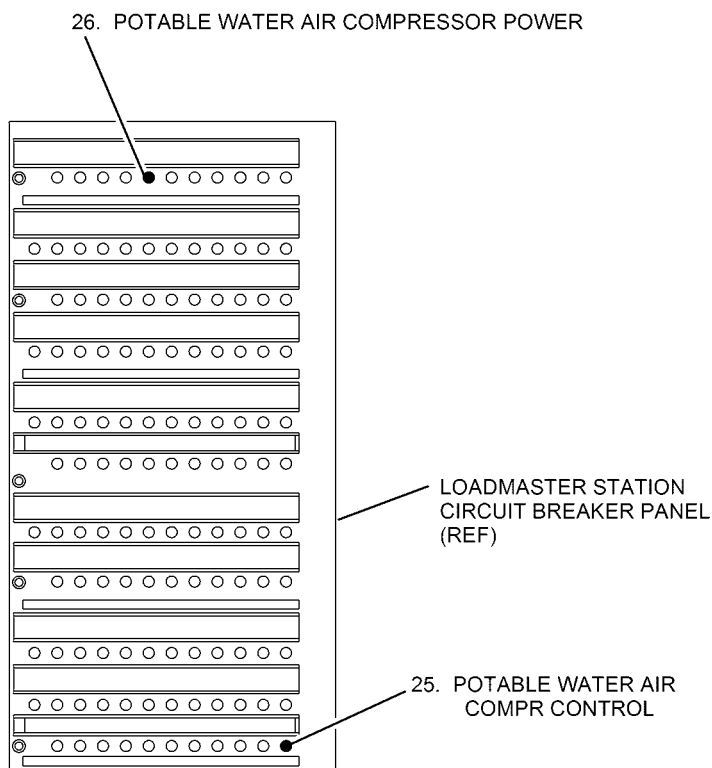


ICN-88277-G1238107-002-01

## TO 1300i-2-12JG-38-1

25. Open **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**, and attach warning tag.
26. Open **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker, on loadmaster station circuit breaker panel, row **A**, column **6**, and attach warning tag.

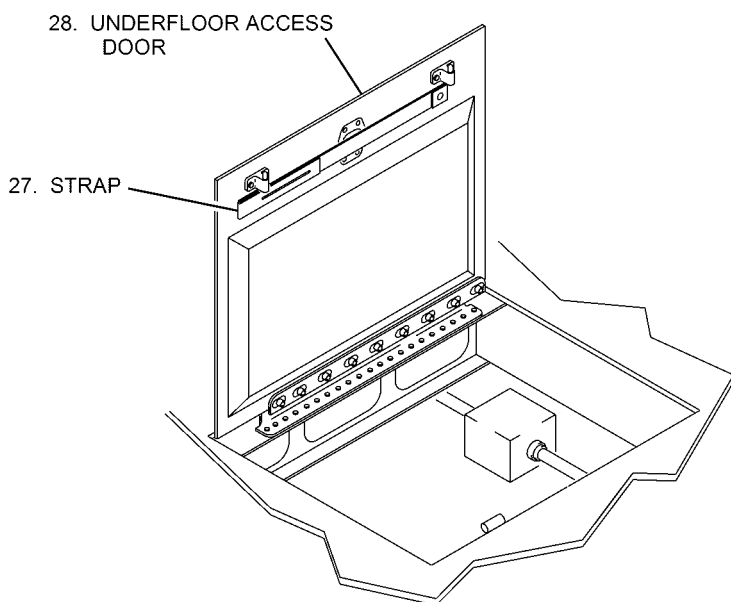
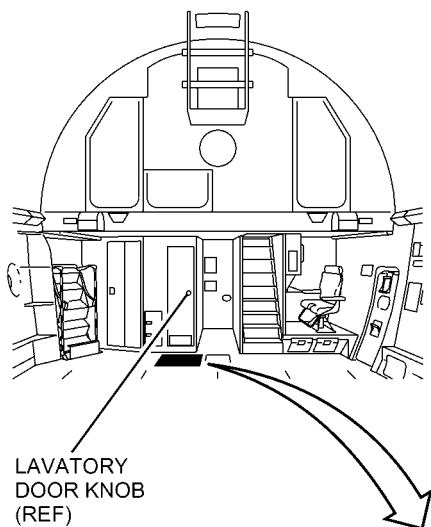




ICN-88277-G1238054-004-01

## **TO 1300i-2-12JG-38-1**

27. Remove hold open strap from lavatory door knob and secure to underfloor access door.
28. Close and latch underfloor access door (237HZD).



ICN-88277-G1238055-005-01

**NOTE**

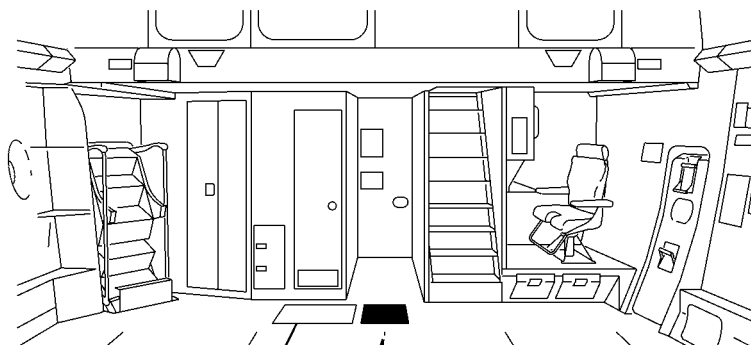
Perform steps 29 thru 31 when a boxcar seal is required on the underfloor access door.

29. Unlatch and open cargo winch access door (237JZD).

**NOTE**

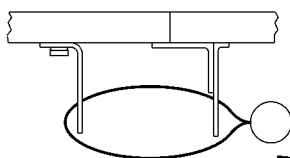
Document aircraft forms that boxcar seal has been installed. Ensure "seal control number" is included in entry.

30. Install boxcar seal to underfloor access door.
31. Close and latch cargo winch access door (237JZD).

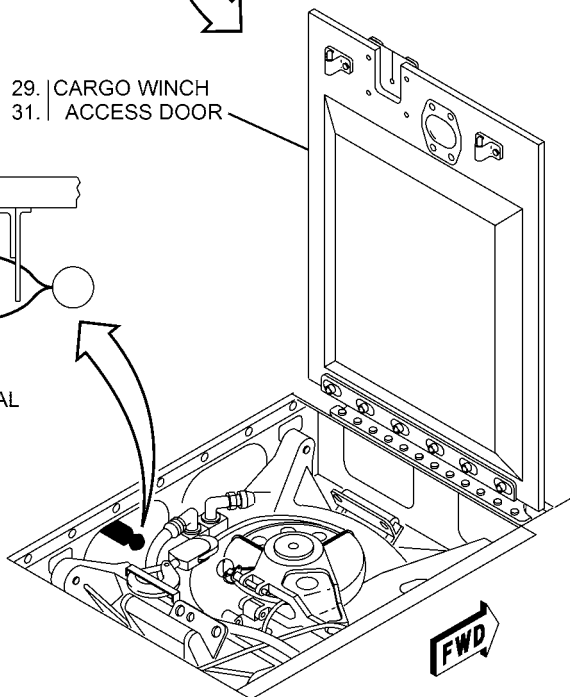


UNDERFLOOR ACCESS  
DOOR  
(REF)

29. CARGO WINCH  
31. ACCESS DOOR



30. BOXCAR SEAL



ICN-88277-G1238086-003-01



**POTABLE WATER PURGING  
(12-38-03)**

**GENERAL MAINTENANCE INPUT CONDITIONS:**

<b>Applicability:</b>	<b>Task</b>
All	All

**Additional information:**

This procedure consists of the following tasks:

- 03-1. Preparation.
- 03-2. Purging.
- 03-3. Follow-on maintenance.

<b>Additional data:</b>	<b>Task</b>
TO 1300i-2-10JG-60-1	03-3

<b>Personnel recommended:</b>	<b>Task</b>
One	All

<b>Safety conditions:</b>	<b>Task</b>
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**WARNING**

The use of personal protective equipment is mandatory to perform this procedure. The applicable Material Safety Data Sheet (MSDS) will identify special protection information. Failure to comply may cause injury to personnel.	03-2
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**Support equipment:**

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Grating, Metal Safety	17G110013-1	--	1	03-1, 03-2
Truck, Tank	--	MIL-T-83018	1	03-2

**Supplies:**

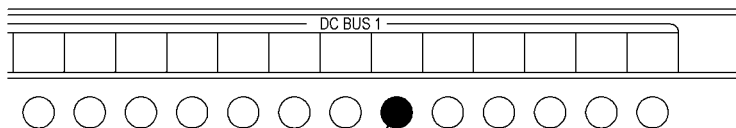
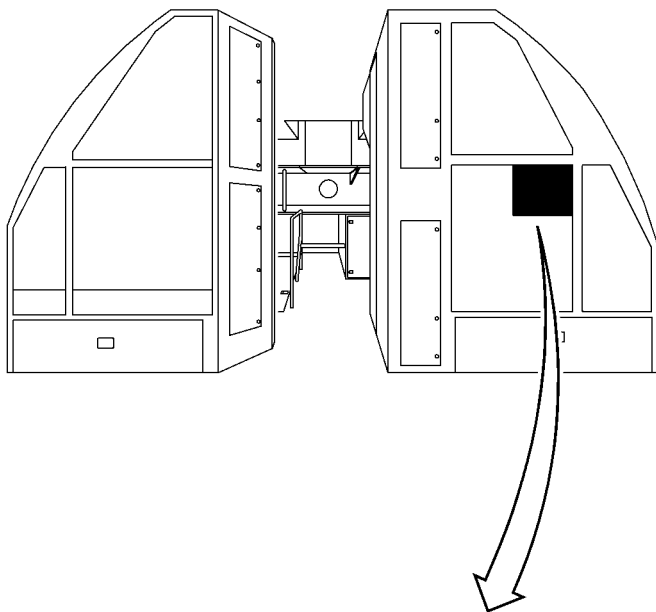
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Filter	150G	--	1	03-3
Gasket	0344-01	--	1	03-3
Sodium Hypochlorite Solution	--	A-A-1427 Grade B (12.5% wt Sodium Hypochlorite Solution)	1 gallon	03-2
Tag, Warning	--	--	4	03-1





## **03-1. PREPARATION.**

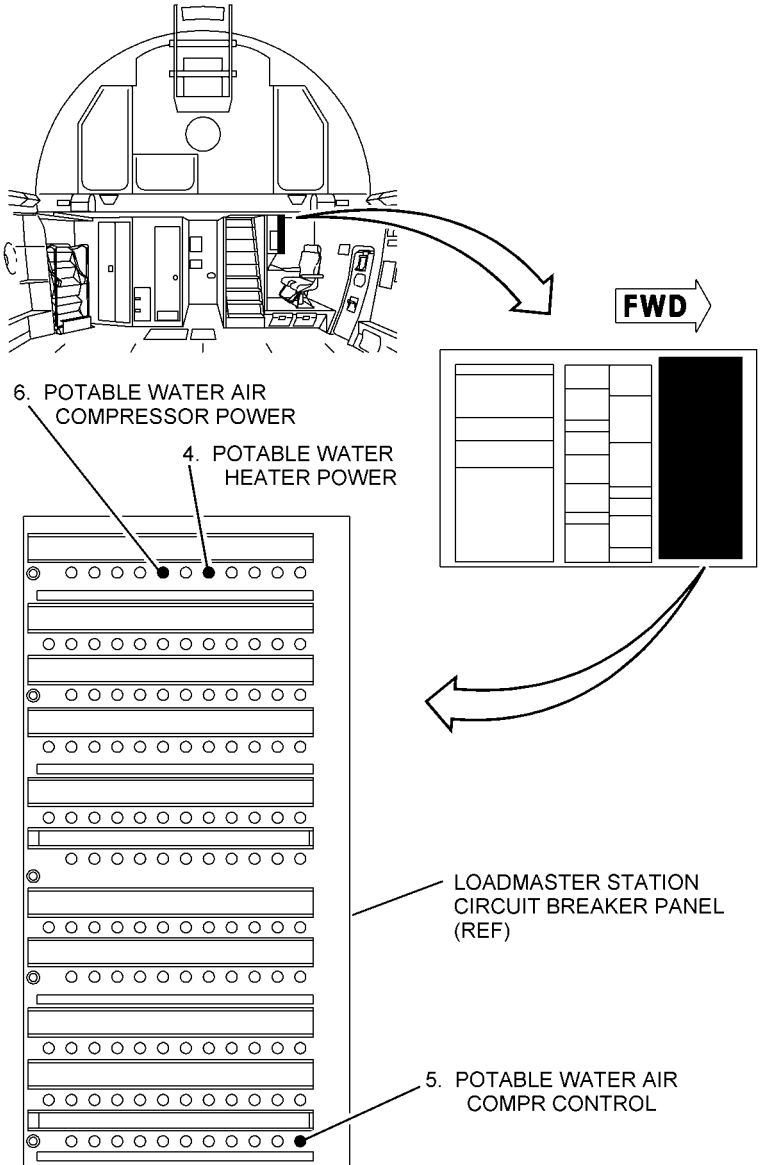
1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "General Maintenance Input Conditions" page for task specific safety conditions.
3. Open **POT WATER & WASTE PANEL CONTROL** circuit breaker on electrical power center, row **L**, column **61**, and attach warning tag.



3. POT WATER & WASTE PANEL CONTROL

## TO 1300i-2-12JG-38-1

4. Open **POTABLE WATER HEATER POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **8**, and attach warning tag.
5. Open **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**, and attach warning tag.
6. Open **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **6**, and attach warning tag.

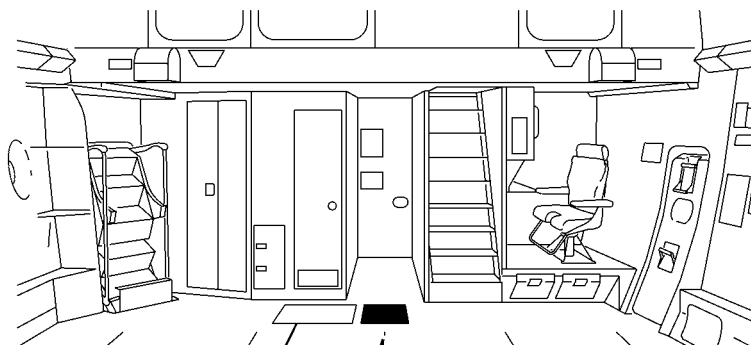


ICN-88277-G1238022-005-01

**NOTE**

Perform steps 7 thru 9 when AFTO Form 781 records indicate a boxcar seal for the underfloor access door, otherwise continue with step 10.

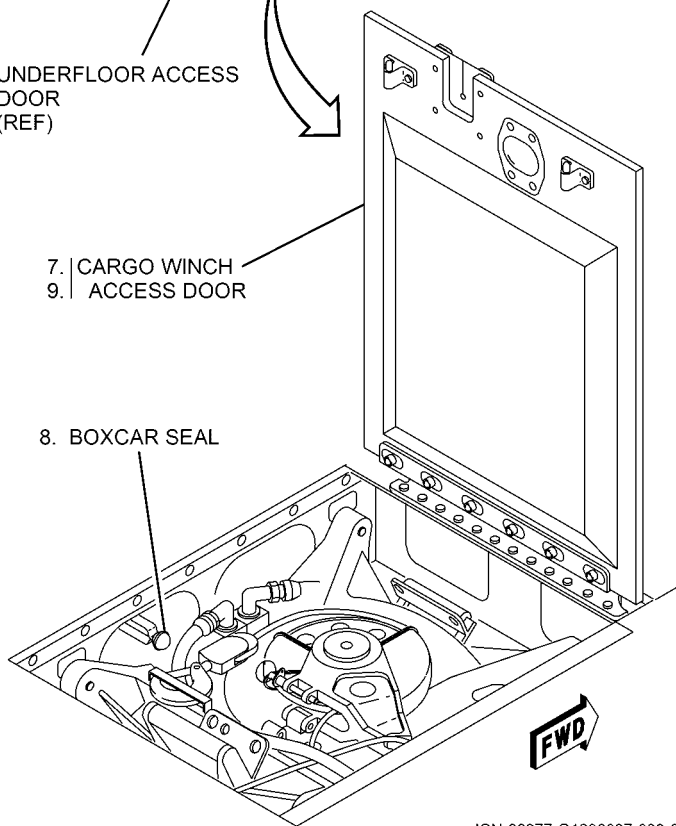
7. Unlatch and open cargo winch access door (237JZD).
8. Remove boxcar seal from underfloor access door (237HZD).
9. Close and latch cargo winch access door (237JZD).



UNDERFLOOR ACCESS  
DOOR  
(REF)

7. CARGO WINCH  
9. ACCESS DOOR

8. BOXCAR SEAL



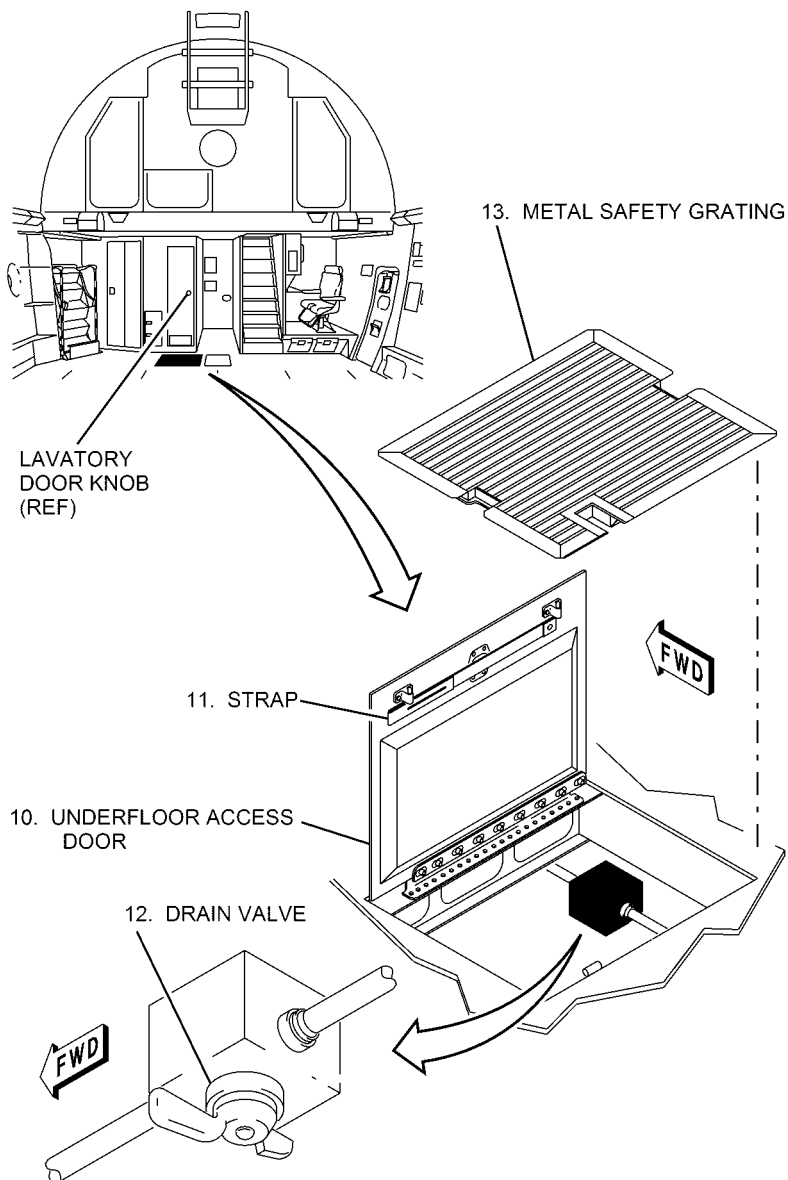
ICN-88277-G1238087-003-01



No personnel shall be in lavatory while underfloor access door is open. Failure to comply may cause damage to aircraft.

10. Unlatch and open underfloor access door (237HZD).
11. Attach hold open strap to lavatory door knob.
12. Open drain valve.
13. Install metal safety grating.

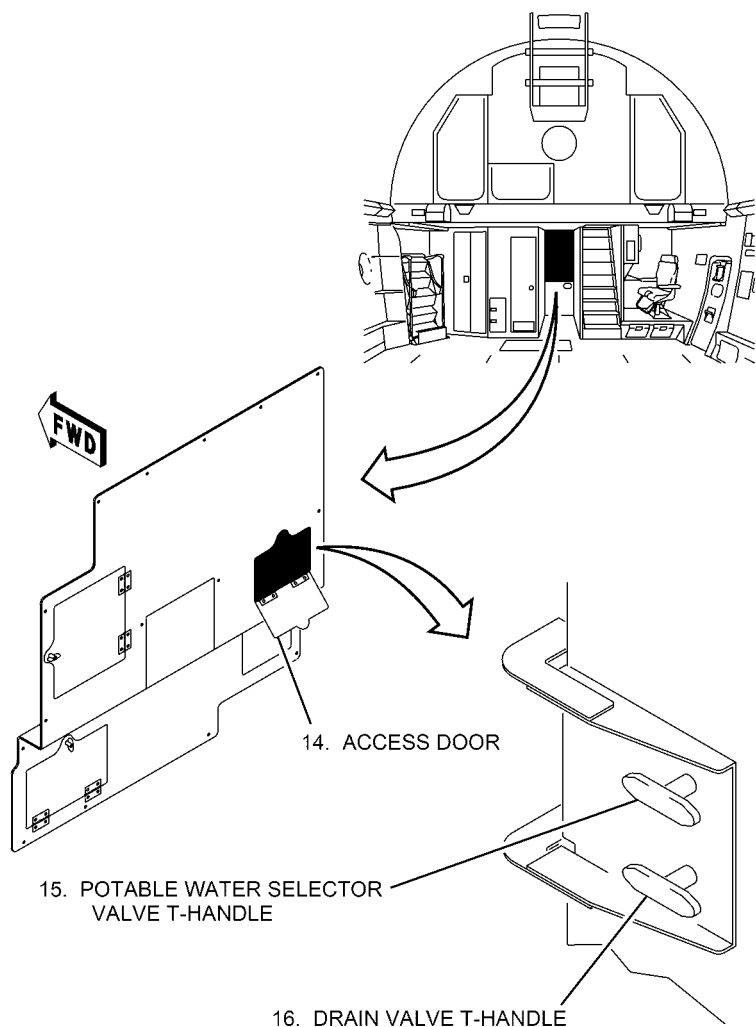




ICN-88277-G1238023-005-01

## **TO 1300i-2-12JG-38-1**

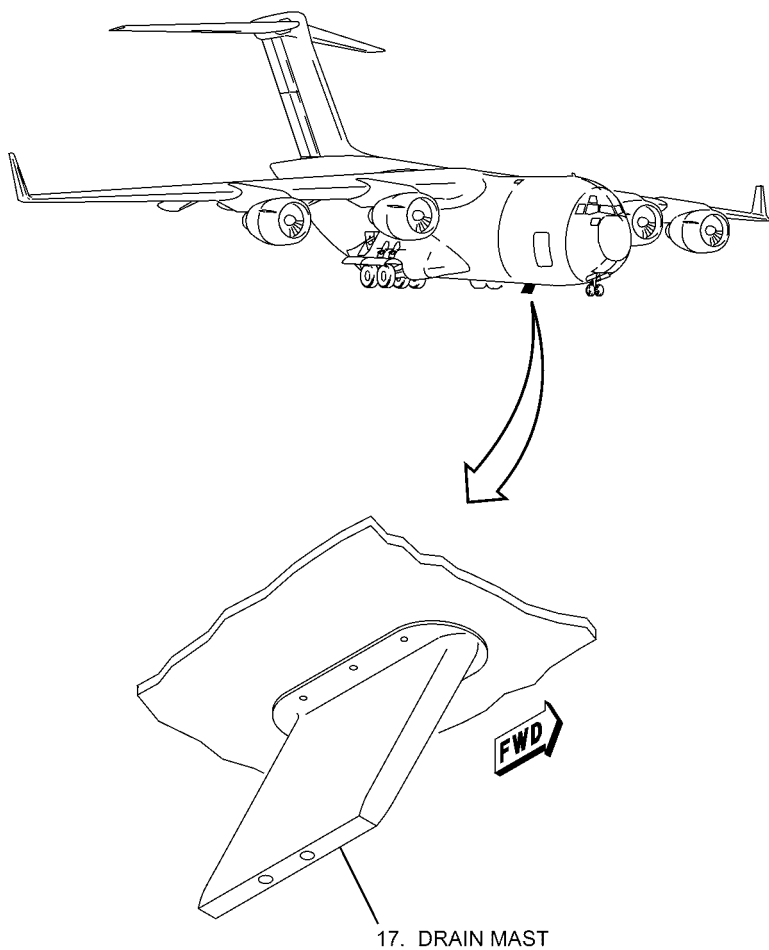
14. Unlatch and open access door (237RZD).
15. Pull potable water selector valve T-handle.
16. Pull drain valve T-handle.



**NOTE**

Drain time is approximately 5 minutes when potable water tank is full.

17. Check drain mast to ensure that water has stopped flowing.

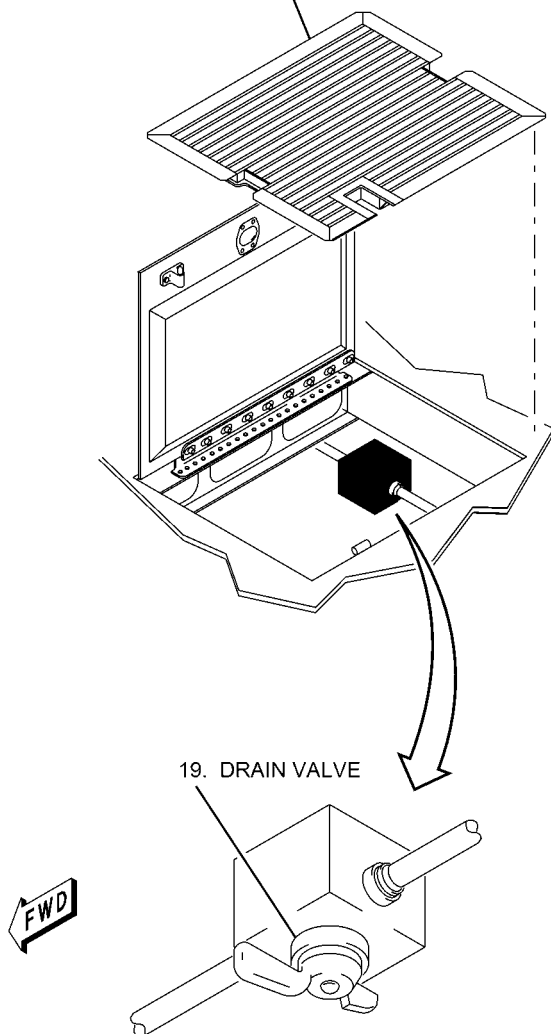


ICN-88277-G1238025-004-01

## **TO 1300i-2-12JG-38-1**

18. Remove metal safety grating.
19. Close drain valve.
20. Install metal safety grating.

18. METAL SAFETY GRATING  
20.

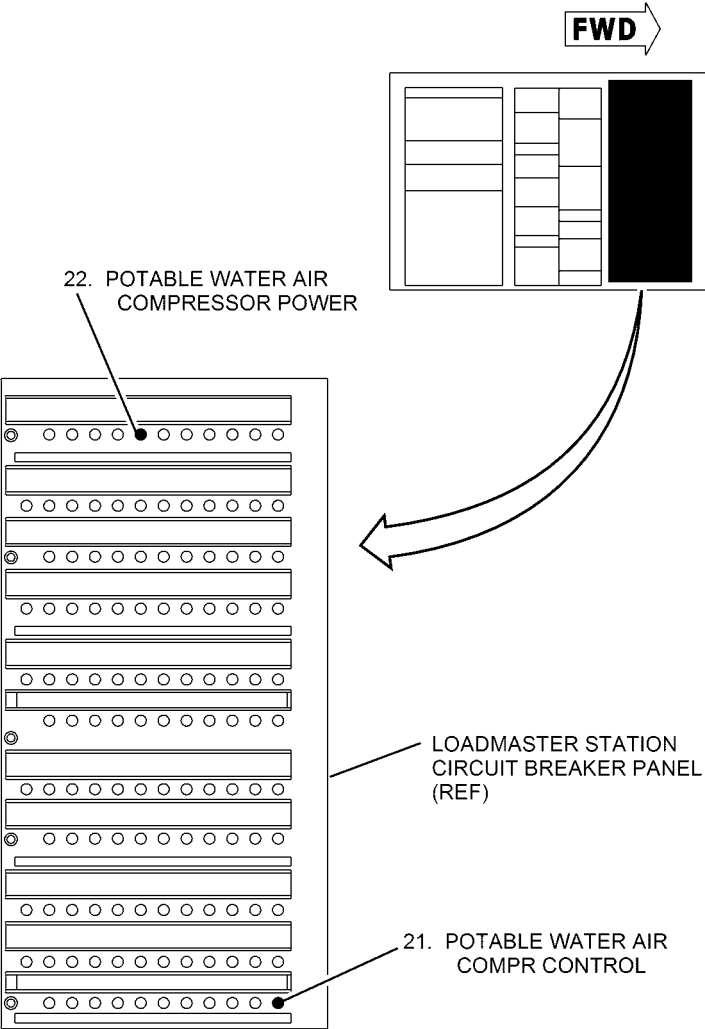


ICN-88277-G1238026-005-01

## TO 1300i-2-12JG-38-1

21. Remove warning tag and close **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**.
22. Remove warning tag and close **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **6**.



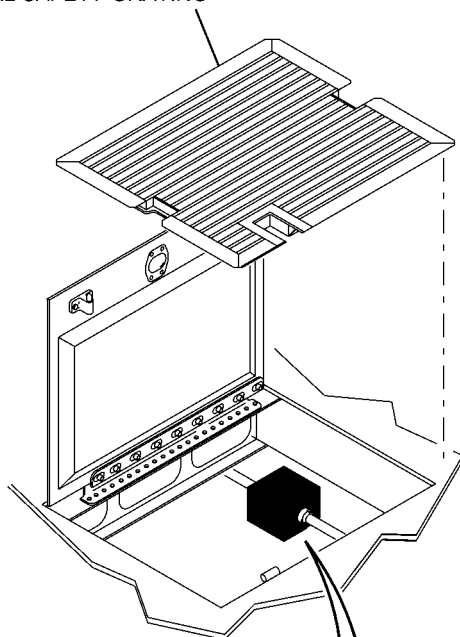


ICN-88277-G1238056-004-01

## **TO 1300i-2-12JG-38-1**

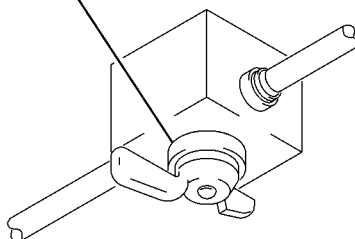
23. Remove metal safety grating.
24. Open drain valve for 1 minute; trapped water drains.
25. Close drain valve.

23. METAL SAFETY GRATING



24. DRAIN VALVE

25.



ICN-88277-G1238057-004-01

## TO 1300i-2-12JG-38-1

26. Open **POTABLE WATER AIR COMPR CONTROL** circuit breaker on loadmaster station circuit breaker panel, row **L**, column **12**, and attach warning tag.
27. Open **POTABLE WATER AIR COMPRESSOR POWER** circuit breaker on loadmaster station circuit breaker panel, row **A**, column **6**, and attach warning tag.