TO 1300i-2-12JG-28-2

TECHNICAL MANUAL

JOB GUIDE
ORGANIZATIONAL MAINTENANCE

SERVICING FUEL
(12-28-00 AND 12-28-02 THROUGH 12-28-03)

USAF SERIES
300i
AIRCRAFT

MCDONNELL DOUGLAS CORPORATION
MILITARY TRANSPORT AIRCRAFT
F33657-81-C-2108
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Basic and all changes have been merged to make this a complete publication.
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TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 278 CONSISTING OF THE FOLLOWING:

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INTRODUCTION

SCOPE.

This manual contains maintenance procedures for refueling and defueling of the aircraft.

MODEL(S) COVERED.

All

ABBREVIATIONS.

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

AFOSH	Air Force Occupational Safety and Health
CMDS	Countermeasures Dispensing System
ER	Extended Range
FSSZ	Fuel Servicing Safety Zone
GRC	Ground Refueling Control
LS	Line Select
OBIGGS	OnBoard Inert Gas Generation System
PLCS	Places
SDS	Safety Data Sheet
SPR	Single Point Refueling
WAP	Warning and caution Annunciator Panel

CHANGE REQUEST.

Recommended changes to this manual shall be submitted in accordance with TO 00-5-1.

300i TO INFORMATION.

General 300i TO/eTO, TO Manager, Supplement and finalized Recommended Change (RC) information can be found in the Enhanced Technical Information Management System (ETIMS), System of Record.

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-1616D	Installation of Extended Range Fuel Containment System, (System 28), and Modification of On-Board Inert Gas Generation System - OBIGGS II (System 47), 300i Aircraft	19 JUL 17	〈AA〉 → 〈CX〉
1300i-1617E	Modification of On-Board Inert Gas Generation System - OBIGGS II (System 47), 300i Aircraft	19 JUL 17	〈CY〉 → 〈FW〉

SECTION 1

GENERAL INFORMATION (12-28-00)

1-1. GENERAL INFORMATION.

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

1-3. When operating an auxiliary motor pump below 15 degrees Fahrenheit a 30 seconds on/30 seconds off duty cycle for a maximum 10 cycles may be required to reach full hydraulic pressure of 3800 to 4200 psi. Allow ten minutes for cooling and repeat cycles.

1-4. Hydraulic system No. 2 may require 45 seconds before reaching full hydraulic pressure of 3800 to 4200 psi.

1-5. 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).

1-6. FUEL TEAM BRIEFING.

1-7. The fuel team supervisor will brief team members on their position and responsibility.

1-8. The fuel team supervisor will brief fuel team on type of fueling or defueling task to be performed.

1-9. The fuel team supervisor will brief fuel team on type of equipment used according to the task to be performed.

1-10. The fuel team supervisor will brief fuel team on use of authorized hand signals.

1-11. The fuel team supervisor will brief fuel team on critical phases of fueling or defueling operation.

1-12. The fuel team supervisor will brief fuel team on ground intercommunication procedures.

1-13. Establish a meeting point and take a head count of the people involved in case of emergency. When practical, meeting point should be upwind to eliminate possibility of smoke inhalation.

1-14. Position vehicles and equipment only when signaled to do so.

1-15. Do not drive or operate any vehicles or powered equipment within 25 feet of wingtip fuel vent outlets. Vehicles and equipment authorized for operations inside the Fuel Servicing Safety Zone (FSSZ) shall maintain at least a 25-foot separation distance from pressurized fuel servicing components. This does not apply to fuel servicing trucks or vehicles driven on the cargo ramp.

1-16. Only intrinsically safe radios may be used within 10 feet of aircraft wingtip fuel vent outlets and any fuel spills.

1-17. GENERAL WARNINGS, CAUTIONS, AND NOTES.

WARNING

- All flight control surfaces and thrust reversers shall be clear of personnel and equipment prior to applying or removing hydraulic power. Failure to comply may cause injury to personnel and damage to equipment.

- Aircraft jacking, towing, and taxiing is not allowed with a lateral fuel imbalance between wings that exceeds 8,000 lbs of fuel. Lateral fuel imbalance is not limited for maintenance provided aircraft is static and nose and main landing gear are on the ground (not jacked). Failure to comply may cause injury to personnel and damage to aircraft.

- Aircraft defueling can cause a lateral fuel imbalance between wings, causing one wing to drastically lower and the other rise. Ensure all personnel and support equipment are clear of aircraft, wings, and tail section during defueling. Failure to comply could cause injury to personnel or damage to aircraft and/or support equipment.

WARNING - Continued

- The refuel/defuel team shall be constantly alert during refueling/defueling operations for fuel spills, fuel servicing equipment failure, and sparks emitted from electrical systems or exhausts. If any of the above malfunctions or fuel spills occur, immediately cease operation and clear the aircraft of personnel. No electrical or aircraft support equipment in the area shall be operated until it is determined that safe conditions again exist. Small amounts of spillage may be absorbed with rags or oil absorbents. Large spillage shall be disposed of by the fire department. Failure to comply may cause injury to personnel and damage to aircraft.

- All possible sources of ignition, including matches, lighters, and spark-producing devices shall not be taken into the Fuel Servicing Safety Zone (FSSZ). Failure to comply may cause injury to personnel and damage to aircraft.

- Shoes with exposed steel nails or metal plates on walking surfaces shall not be worn in the FSSZ. Failure to comply may cause injury to personnel and damage to aircraft.

- Do not put on or take off outer garments in FSSZ. Failure to comply may cause injury to personnel and damage to aircraft.

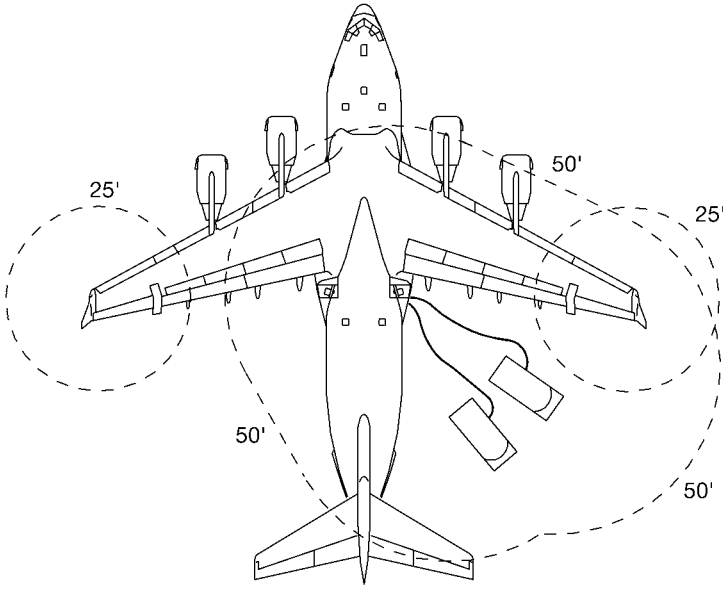
WARNING - Continued

- Do not connect or disconnect any connections of auxiliary equipment (i.e. power unit, interphone, etc.) within the FSSZ during fuel servicing. Failure to comply may cause injury to personnel or damage to aircraft.

NOTE

- Personnel performing fuel servicing shall be familiar with TO 00-25-172 and AFMAN 91-203 chapter 18.5.

- If during ground refueling at ambient temperatures below zero degrees Fahrenheit, the fill valves do not operate, the override button can be held down during refuel operations. If fill valves still do not operate, valves may be operated manually IAW TO 1300i-2-00GV-00-1, Chapter 13.



C-17A FUEL SERVICING SAFETY ZONE

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1-18. FUEL TANK CAPACITIES.

1-19. The following is a list of individual fuel tank capacities relative to total aircraft fuel capacity. Tank quantity reflects weight rather than volume so fuel density is not a factor. Select total fuel quantity to be serviced and read across to select amount required for each tank.

1-20. FUEL TANK CAPACITIES (JP-4).

〈AA〉 → 〈CX〉 **BEFORE** 1616

CAUTION

Maximum allowed fuel load is 173,000 lbs. Failure to comply may cause structural damage to aircraft.

NOTE

Values listed below for filling tank 1 and 4 are nominal values, based on nominal fuel density. Tank 1 and 4 may not achieve an indicated 36,000 lbs of fuel due to ambient temperature changes. Adjust inboard tank 2 and 3 fill quantities to achieve the total quantity (lbs) requirement. Failure to comply may result in failure to achieve required fuel load.

FUEL TANK CAPACITIES (JP-4)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 146,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
147,000 TO 173,000	**FILL 1 AND 4 TANKS FULL (36,000), FILL 2 AND 3 TANKS AS FOLLOWS:**
147,000	37,500
148,000	38,000
149,000	38,500
150,000	39,000
151,000	39,500
152,000	40,000
153,000	40,500

FUEL TANK CAPACITIES (JP-4)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 146,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
147,000 TO 173,000	**FILL 1 AND 4 TANKS FULL (36,000), FILL 2 AND 3 TANKS AS FOLLOWS:**
154,000	41,000
155,000	41,500
156,000	42,000
157,000	42,500
158,000	43,000
159,000	43,500
160,000	44,000
161,000	44,500
162,000	45,000
163,000	45,500
164,000	46,000
165,000	46,500
166,000	47,000
167,000	47,500
168,000	48,000
169,000	48,500
170,000	49,000
171,000	49,500
172,000	50,000
173,000	50,500

1-20. FUEL TANK CAPACITIES (JP-4).

〈AA〉 → 〈CX〉 **AFTER** 1616 〈CY〉 →

CAUTION

Maximum allowed fuel load is 240,000 lbs. Failure to comply may cause structural damage to aircraft.

NOTE

Values listed below for filling tank 1 and 4 are nominal values, based on nominal fuel density. Tank 1 and 4 may not achieve an indicated 36,000 lbs of fuel due to ambient temperature changes. Adjust inboard tank 2 and 3 fill quantities to achieve the total quantity (lbs) requirement. Failure to comply may result in failure to achieve required fuel load.

FUEL TANK CAPACITIES (JP-4)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 146,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
147,000 TO 240,000	**FILL 1 AND 4 TANKS TO (36,000), FILL 2 AND 3 TANKS AS FOLLOWS:**
147,000	37,500
150,000	39,000
153,000	40,500
156,000	42,000
159,000	43,500
162,000	45,000
165,000	46,500
168,000	48,000
171,000	49,500
174,000	51,000
177,000	52,500
180,000	54,000

FUEL TANK CAPACITIES (JP-4)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 146,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
147,000 TO 240,000	**FILL 1 AND 4 TANKS TO (36,000), FILL 2 AND 3 TANKS AS FOLLOWS:**
183,000	55,500
186,000	57,000
189,000	58,500
192,000	60,000
195,000	61,500
198,000	63,000
201,000	64,500
204,000	66,000
207,000	67,500
210,000	69,000
213,000	70,500
216,000	72,000
219,000	73,500
222,000	75,000
225,000	76,500
228,000	78,000
231,000	79,500
234,000	81,000
237,000	82,500
240,000	84,000

1-21. FUEL TANK CAPACITIES (JP-8). 〈AA〉 → 〈CX〉 BEFORE 1616

CAUTION

Maximum allowed fuel load is 184,000 lbs. Failure to comply may cause structural damage to aircraft.

NOTE

Values listed below for filling tank 1 and 4 are nominal values, based on nominal fuel density. Tank 1 and 4 may not achieve an indicated 38,200 lbs of fuel due to ambient temperature changes. Adjust inboard tank 2 and 3 fill quantities to achieve the total quantity (lbs) requirement. Failure to comply may result in failure to achieve required fuel load.

FUEL TANK CAPACITIES (JP-8)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 152,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
153,000 TO 184,000	**FILL 1 AND 4 TANKS TO (38,200), FILL 2 AND 3 TANKS AS FOLLOWS:**
153,000	38,300
154,000	38,800
155,000	39,300
156,000	39,800
157,000	40,300
158,000	40,800
159,000	41,300
160,000	41,800
161,000	42,300
162,000	42,800
163,000	43,300
164,000	43,800

FUEL TANK CAPACITIES (JP-8)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 152,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
153,000 TO 184,000	**FILL 1 AND 4 TANKS TO (38,200), FILL 2 AND 3 TANKS AS FOLLOWS:**
165,000	44,300
166,000	44,800
167,000	45,300
168,000	45,800
169,000	46,300
170,000	46,800
171,000	47,300
172,000	47,800
173,000	48,300
174,000	48,800
175,000	49,300
176,000	49,800
177,000	50,300
178,000	50,800
179,000	51,300
180,000	51,800
181,000	52,300
182,000	52,800
183,000	53,300
184,000	53,800

1-21. FUEL TANK CAPACITIES (JP-8).

〈AA〉 → 〈CX〉 **AFTER** 1616 〈CY〉 →

CAUTION

Maximum allowed fuel load is 249,000 lbs. Failure to comply may cause structural damage to aircraft.

NOTE

Values listed below for filling tank 1 and 4 are nominal values, based on nominal fuel density. Tank 1 and 4 may not achieve an indicated 38,200 lbs of fuel due to ambient temperature changes. Adjust inboard tank 2 and 3 fill quantities to achieve the total quantity (lbs) requirement. Failure to comply may result in failure to achieve required fuel load.

FUEL TANK CAPACITIES (JP-8)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 152,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
153,000 TO 249,000	**FILL 1 AND 4 TANKS TO (38,200), FILL 2 AND 3 TANKS AS FOLLOWS:**
156,000	39,800
159,000	41,300
162,000	42,800
165,000	44,300
168,000	45,800
171,000	47,300
174,000	48,800
177,000	50,300
180,000	51,800
183,000	53,300
186,000	54,800
189,000	56,300

FUEL TANK CAPACITIES (JP-8)	
TOTAL QUANTITY (LBS)	**FUEL QUANTITY PER TANK**
0 TO 152,000	**DIVIDE TOTAL QUANTITY EQUALLY BETWEEN ALL 4 TANKS**
153,000 TO 249,000	**FILL 1 AND 4 TANKS TO (38,200), FILL 2 AND 3 TANKS AS FOLLOWS:**
192,000	57,800
195,000	59,300
198,000	60,800
201,000	62,300
204,000	63,800
207,000	65,300
210,000	66,800
213,000	68,300
216,000	69,800
219,000	71,300
222,000	72,800
225,000	74,300
228,000	75,800
231,000	77,300
234,000	78,800
237,000	80,300
240,000	81,800
243,000	83,300
246,000	84,800
249,000	86,300

1-22. FUEL QUANTITY COMPENSATOR FUEL DENSITY AND WET CAPACITANCE VALUES.

WARNING

The values listed below are not valid for JP-4 fuel usage. Failure to comply may cause injury to personnel and damage to aircraft.

1-23. This section provides fuel density and fuel quantity compensator capacitance values.

Fuel Density VS Fuel Quantity Compensator Capacitance Values	
FUEL DENSITY (LBS/GAL)	**MAXIMUM FUEL QUANTITY COMPENSATOR CAPACITANCE (pF)**
7.137 - 7.124	121.95
7.123 - 7.111	121.76
7.110 - 7.097	121.58
7.096 - 7.084	121.39
7.083 - 7.071	121.21
7.070 - 7.057	121.03
7.056 - 7.044	120.84
7.043 - 7.031	120.66
7.030 - 7.017	120.48
7.016 - 7.004	120.29
7.003 - 6.991	120.11
6.990 - 6.978	119.93
6.977 - 6.964	119.75
6.963 - 6.951	119.57
6.950 - 6.938	119.39
6.937 - 6.924	119.21
6.923 - 6.911	119.03
6.910 - 6.898	118.85
6.897 - 6.884	118.67
6.883 - 6.871	118.49
6.870 - 6.858	118.31
6.857 - 6.844	118.13
6.843 - 6.831	117.95
6.830 - 6.818	117.78
6.817 - 6.805	117.60
6.804 - 6.791	117.42
6.790 - 6.778	117.24
6.777 - 6.765	117.07
6.764 - 6.751	116.89
6.750 - 6.738	116.72
6.737 - 6.725	116.54
6.724 - 6.711	116.36
6.710 - 6.698	116.19

Fuel Density VS Fuel Quantity Compensator Capacitance Values	
FUEL DENSITY (LBS/GAL)	**MAXIMUM FUEL QUANTITY COMPENSATOR CAPACITANCE (pF)**
6.697 - 6.685	116.01
6.684 - 6.672	115.84
6.671 - 6.658	115.66
6.657 - 6.645	115.49
6.644 - 6.632	115.32
6.631 - 6.618	115.14
6.617 - 6.605	114.97
6.604 - 6.592	114.80
6.591 - 6.578	114.62
6.577 - 6.565	114.45
6.564 - 6.552	114.28
6.551 - 6.539	114.11
6.538 - 6.525	113.94
6.524 - 6.512	113.77
6.511 - 6.499	113.59
6.498 - 6.485	113.42
6.484 - 6.472	113.25
6.471 - 6.459	113.08
6.458 - 6.445	112.91
6.444 - 6.432	112.74
6.431 - 6.419	112.57
6.418 - 6.406	112.41
6.405 - 6.392	112.24
6.391 - 6.379	112.07

SECTION 2

SINGLE POINT DEFUELING - CHECKLIST (12-28-02)

GENERAL MAINTENANCE INPUT CONDITIONS:

Applicability:

	Task
All	All

Additional information:

	Task
Accomplishment of this procedure shall be followed in exact step-by-step **CHECKLIST** sequence to prevent damage to equipment or injury to personnel.	02-2A, 02-3, 02-4, 02-4A, 02-5A

This procedure consists of the following tasks:

02-1. Preparation.
02-2. Preparation - alternate method.
02-2A. Preparation - alternate method defuel through the engine pylon disconnect panel.
02-3. Single point defueling.
02-4. Single point defueling - alternate method.
02-4A. Defuel through the engine pylon disconnect panel.
02-5. Follow-on maintenance.
02-5A. Follow-on maintenance defuel through the engine pylon disconnect panel.

	Task
NOTE • This procedure can be accomplished for one tank or multiple tanks simultaneously.	02-1, 02-2, 02-3, 02-4, 02-5

	Task
NOTE - Continued	
• Night vision goggles are approved for use when defueling procedures require them. These procedures shall be used in conjunction with local directives.	All

Additional data:

	Task
TO 1300i-2-10JG-60-1	02-1, 02-2, 02-2A, 02-4A, 02-5
TO 1300i-2-12JG-28-1	02-2A
TO 1300i-2-12JG-29-1	02-1, 02-2, 02-2A
TO 1300i-2-49JG-00-1	02-1, 02-2
TO 1300i-2-54JG-10-1	02-4A

Personnel recommended:

	Task
Three	All
Person (A) perform task.	
Person (B) assists person (A).	
Person (C) operates fuel container.	

Safety conditions:

	Task
WARNING	
• 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.	02-1, 02-2, 02-2A, 02-3, 02-4, 02-4A, 02-5A
• The use of personal protective equipment is mandatory if unable to scavenge manifold i.e. GRP or scavenge pump is inoperative. The applicable SDS will identify special protection information. Failure to comply may cause injury to personnel.	02-2A, 02-4A, 02-5, 02-5A
• Maintenance shall not be performed on the Countermeasures Dispense System (CMDS) while Servicing Refueling is in progress. Failure to comply may cause injury to personnel and damage to aircraft.	All
• (FOR IRCM AIRCRAFT ONLY) Maintenance shall not be performed on the Infrared Countermeasures (IRCM) system while defueling service is in progress. IRCM aircraft can be identified by the components listed in 05-10-06, task 06-1. Failure to comply could cause injury to personnel and damage to equipment.	All

Support equipment:

Nomenclature	PN	Specification	Qty	Task
Bowser, Fuel	BOW 4002	--	1	02-5A
Container, Fuel	--	TO 00-25-172	AR	02-5
Defueling Kit, Alternate Aircraft	17G460235-1	--	1	02-4A

Supplies:

Nomenclature	PN	Specification	Qty	Task
Packing	MS25988/1-226	--	2	02-2A, 02-5A
Petrolatum, Technical	--	VV-P-236	AR	02-5A
Tag, Warning	--	--	7	02-4A

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. Perform fuel team briefing (TO 1300i-2-12JG-28-2, 12-28-00, para 1-6).

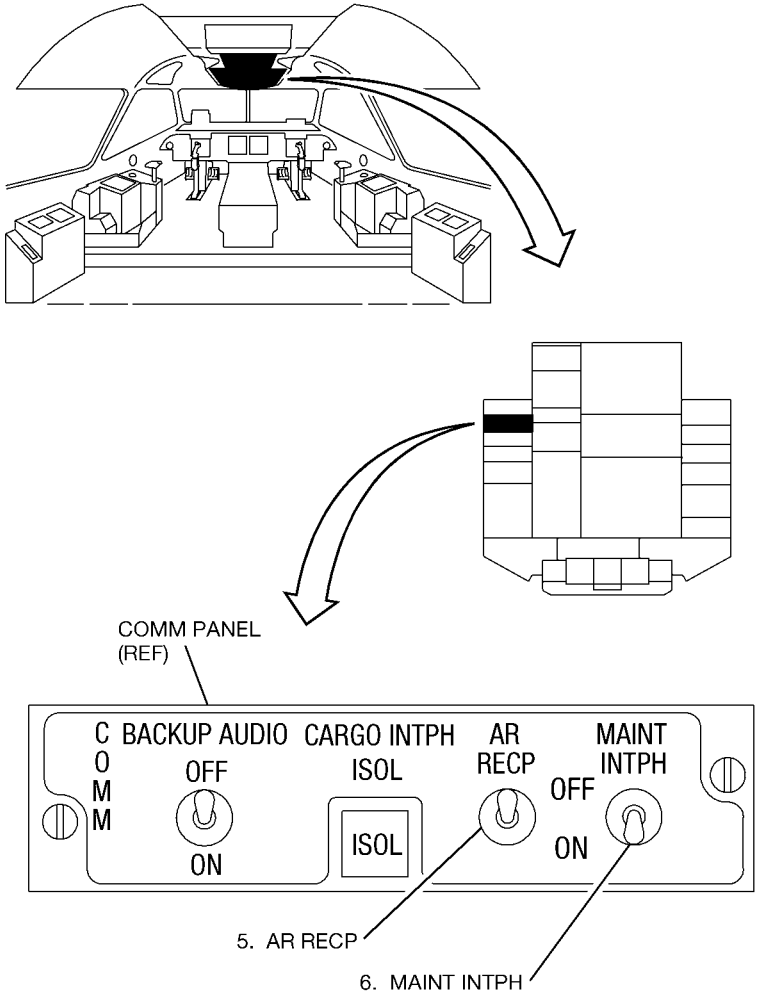
NOTE

Auxiliary Power Unit (APU) may be used if external electrical power source is not available (49-00-01).

4. Connect external electrical power (10-61-01, task 01-1).

5. (B) Set **AR RECP** switch on **COMM** panel to **OFF**.

6. (B) Set **MAINT INTPH** switch to **ON**.



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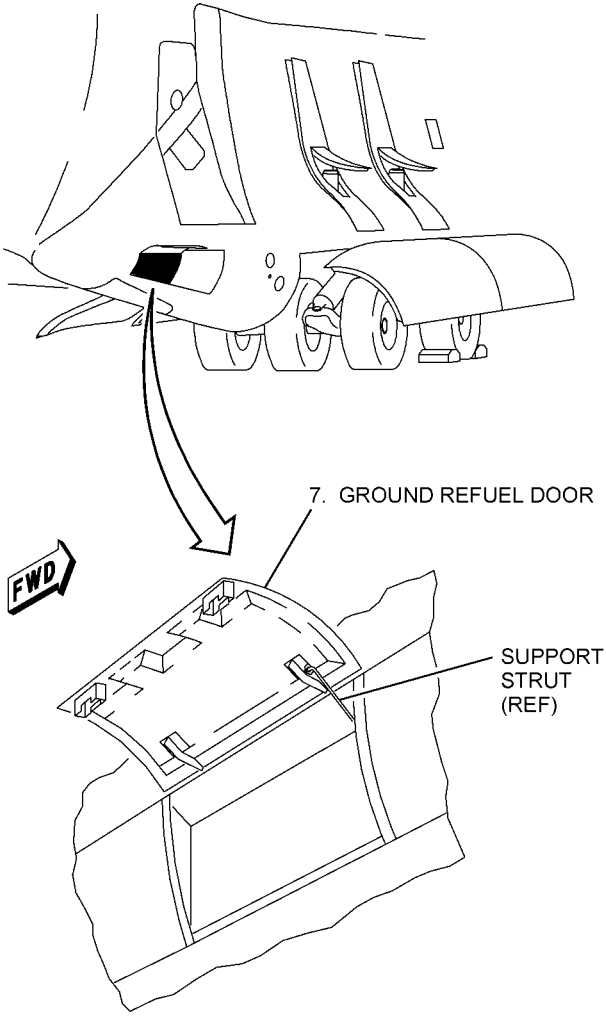
7. (B) Unlatch and open ground refuel door (183JRD); install support strut.



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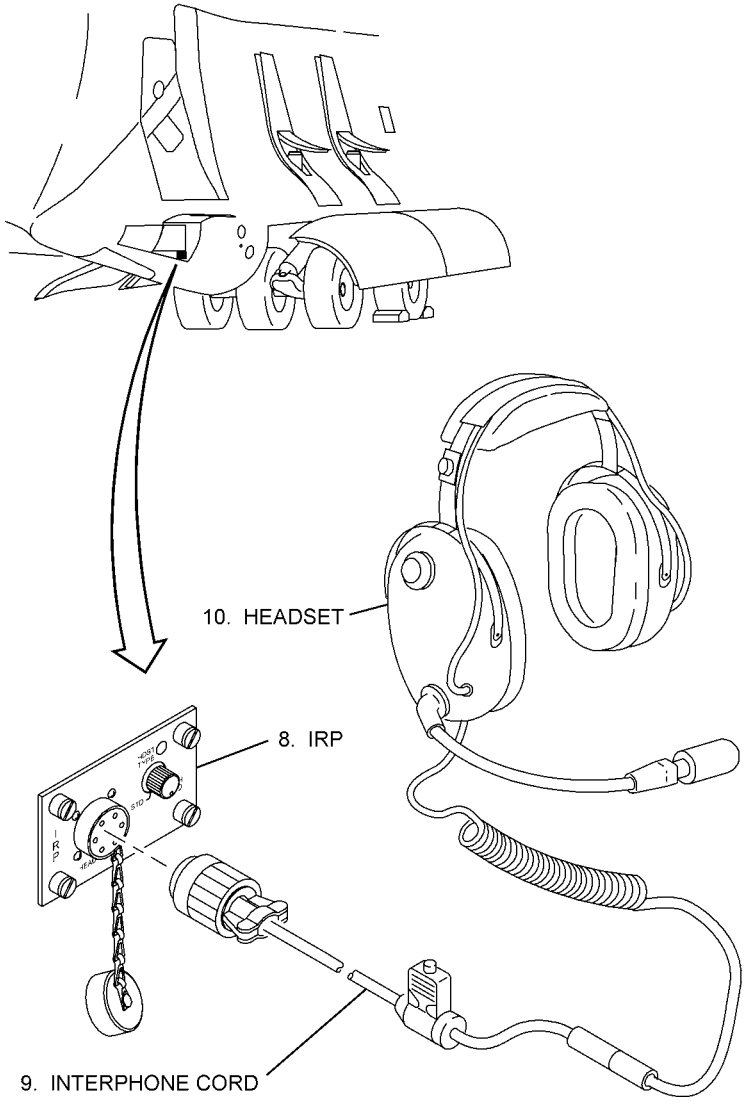
8. (B) Locate desired **IRP**.

9. (B) Connect interphone cord to **IRP**.

10. (B) Connect headset to interphone cord.



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11. (B) Check hydraulic system reservoir **2 SYS** and **3 SYS** quantity for sufficient hydraulic systems levels in gallons on **HYD** panel.

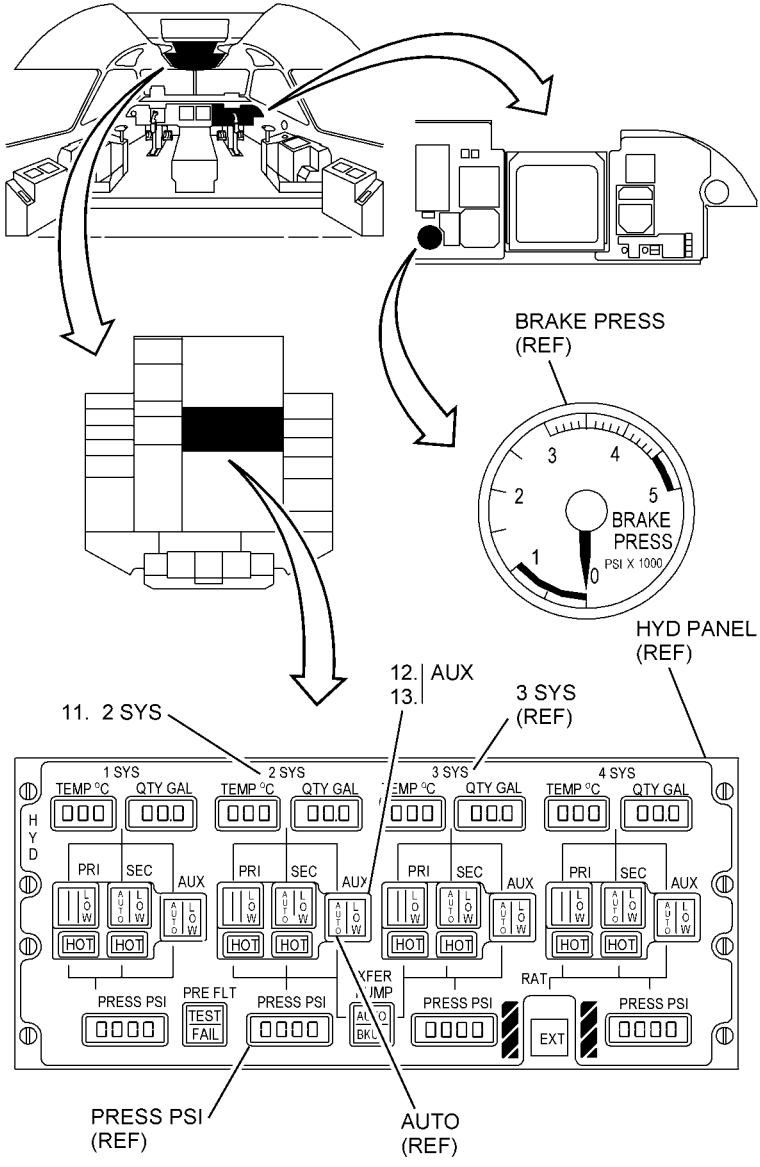
    - Minimum reservoir quantities are 4 gallons for system 2 and 3 gallons for system 3.
    - Systems within specified limits or service (TO 1300i-2-12JG-29-1, 12-29-00, para 1-9).

12. (B) Press **2 SYS AUX** switchlight, on **HYD** panel.

    - **AUTO** light comes on.
    - **PRESS PSI** indicator reads 3800-4200.
    - **BRAKE PRESS** indicator on instrument panel reads 3800-4200.

13. (B) Press **2 SYS AUX** switchlight, on **HYD** panel.

    - **AUTO** light goes off.



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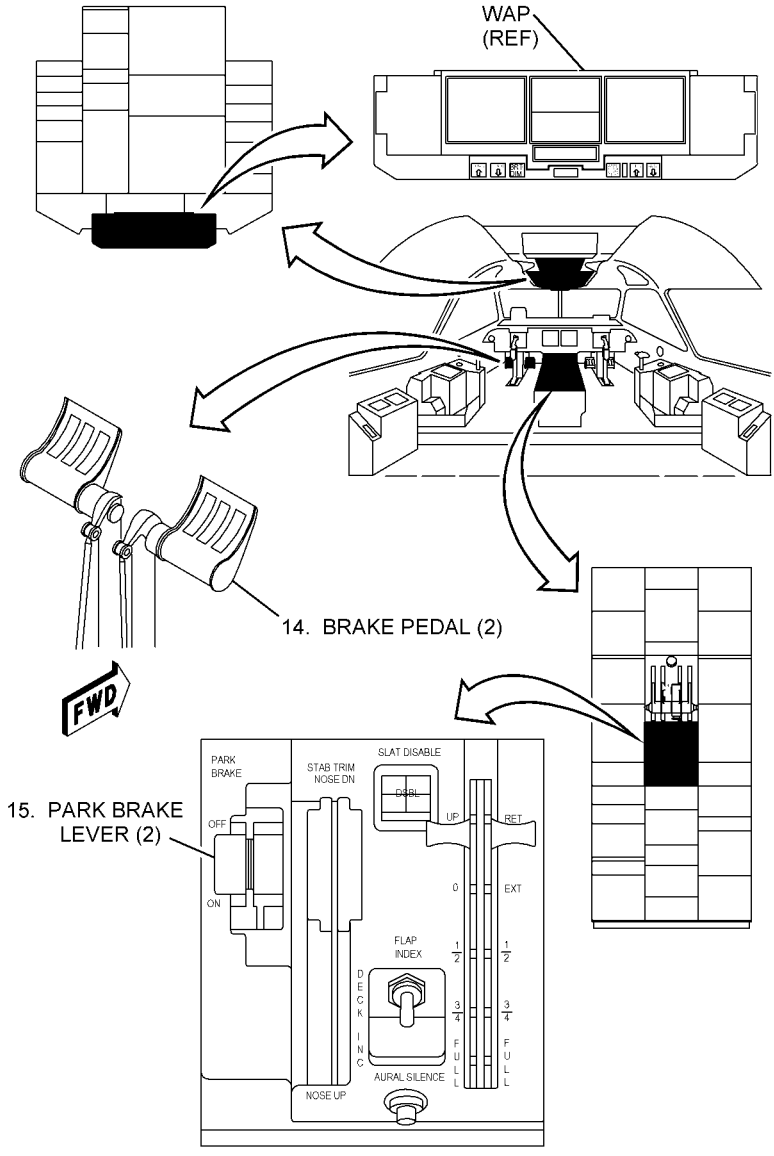
14. (B) Press and hold brake pedals.

15. (B) Set **PARK BRAKE** levers to **ON** and release brake pedals.

    - **PARK BRAKE ON L R** is displayed on the Warning and caution Annunciator Panel (WAP).



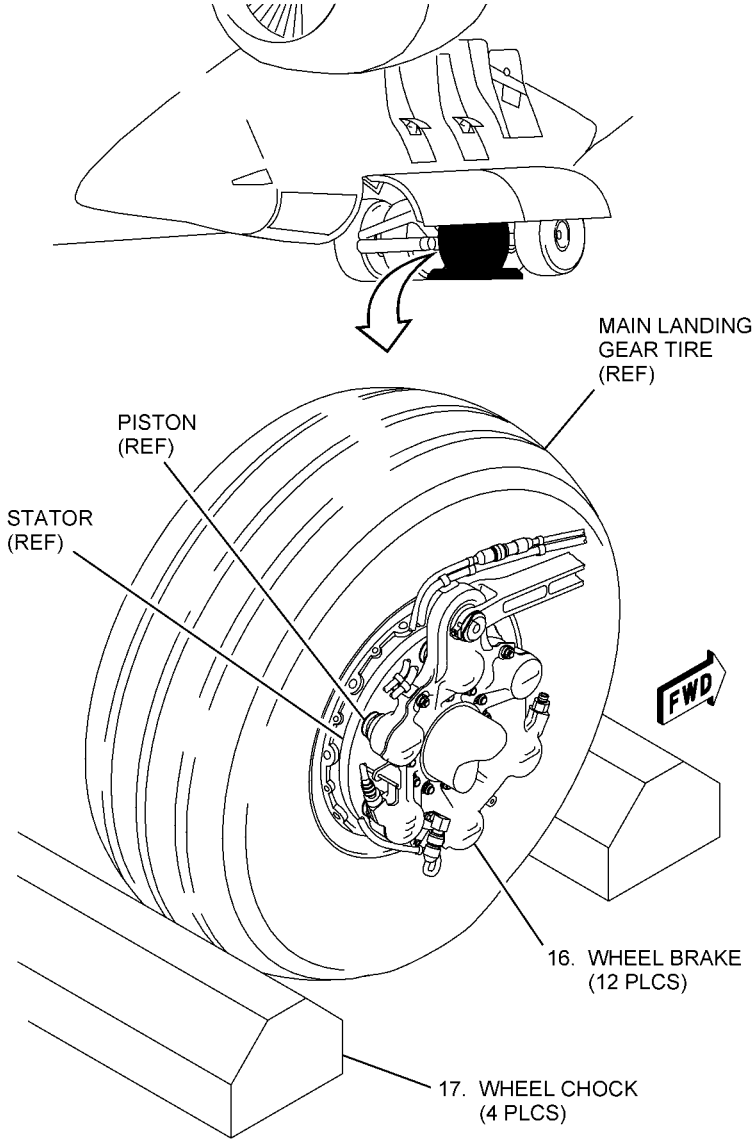
ICN-88277-G1228005-010-01

NOTE

Wheel brakes are set when pistons are pressed against the stator.

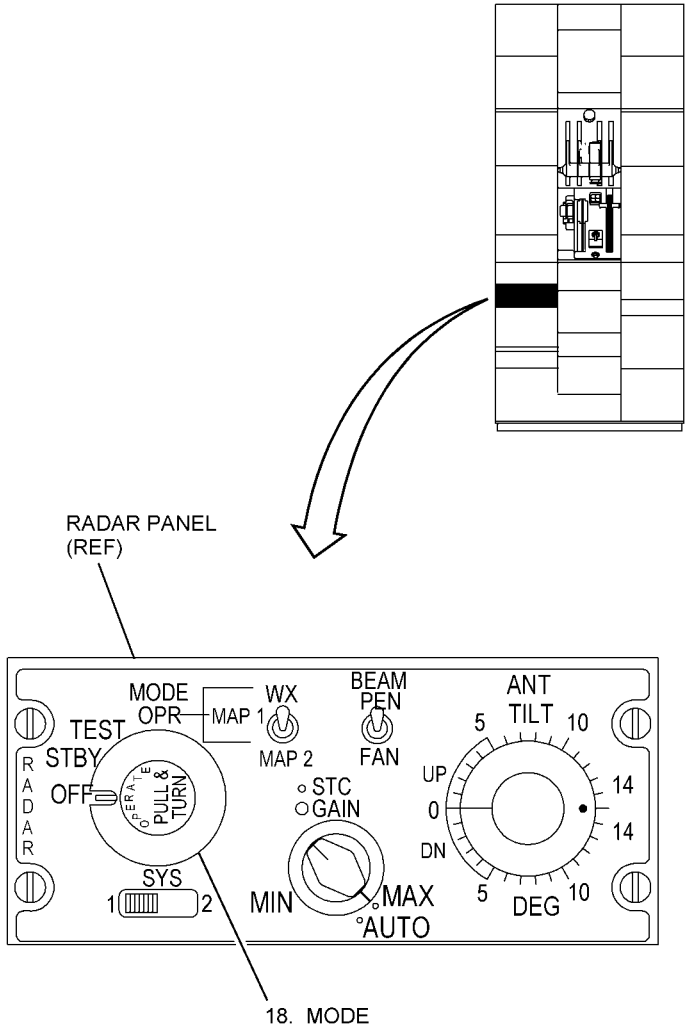
16. (A) Visually inspect wheel brakes to ensure they are set.

17. (A) Position wheel chocks approximately 2 inches forward and aft of main landing gear tires.



ICN-88277-G1228430-003-01

18. (B) Ensure **MODE** switch on **RADAR** panel is set to **OFF**.



ICN-88277-G1228275-005-01

19. (B) Rotate **OFF BRT** knob on **MCD** (**DU**) clockwise.

    - Characters on **MCD** (**DU**) come on.

20. (B) Press **COMM** key.

    - **COMM/NAV SUMMARY** is displayed.

21. (B) Press **IDX** key.

    - **COMM INDEX 1** is displayed.

22. (B) Press 6R Line Select (LS) key.

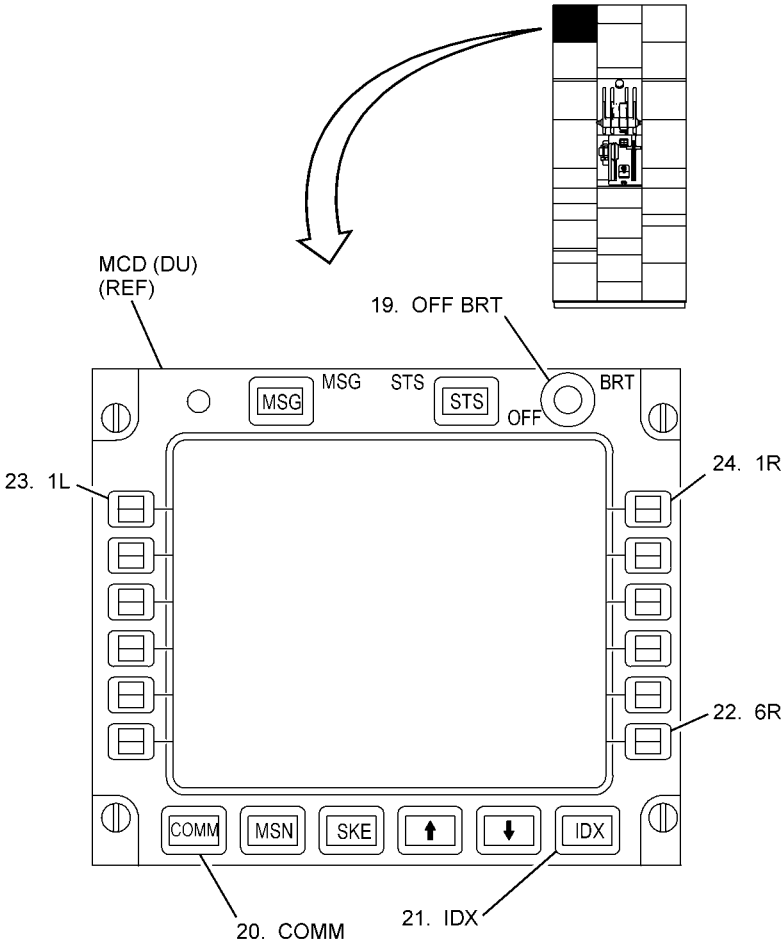
    - **NAV EMITTER CONTROL PG1** is displayed.

23. (B) Press 1L LS key.

    - **STANDBY** is displayed.

24. (B) Press 1R LS key.

    - **STANDBY** is displayed.



ICN-88277-G1228276-008-01

25. (B) Press 6R LS key.

    - **COMM INDEX 1** is displayed.

26. (B) Press 3L LS key.

    - **HF** radios selected.

NOTE

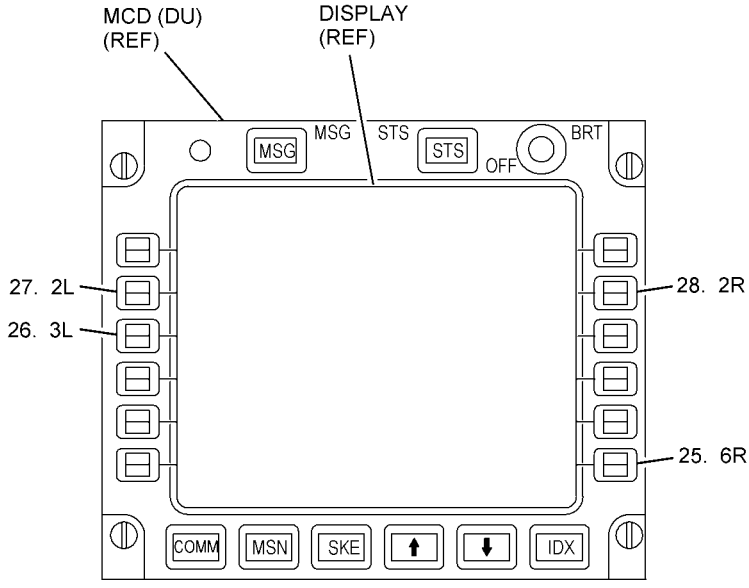
Pressing the LS key will cycle through the operational modes of the HF radio.

27. (B) Press 2L LS key.

    - **MODE:UV LV AM OFF** is displayed.
    - →**OFF** is displayed.

28. (B) Press 2R LS key.

    - **MODE:UV LV AM OFF** is displayed.
    - →**OFF** is displayed.



ICN-88277-G1228277-006-01

29. (B) Press **SKE** key.

    - **SKE SET UP 1/2** is displayed.

NOTE

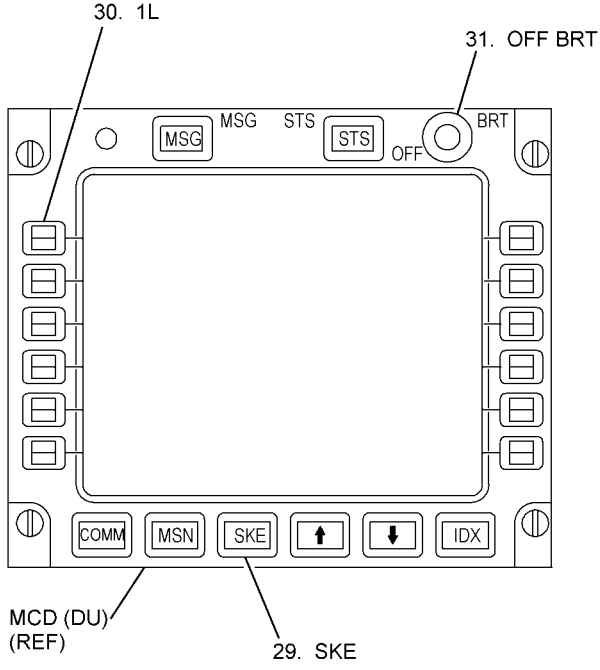
Pressing 1L LS key toggles between **STANDBY**, **NORMAL**, **MAX** and **SILENT** modes.

30. (B) Press 1L LS key until **STANDBY** is displayed.

    - **STANDBY** is displayed.

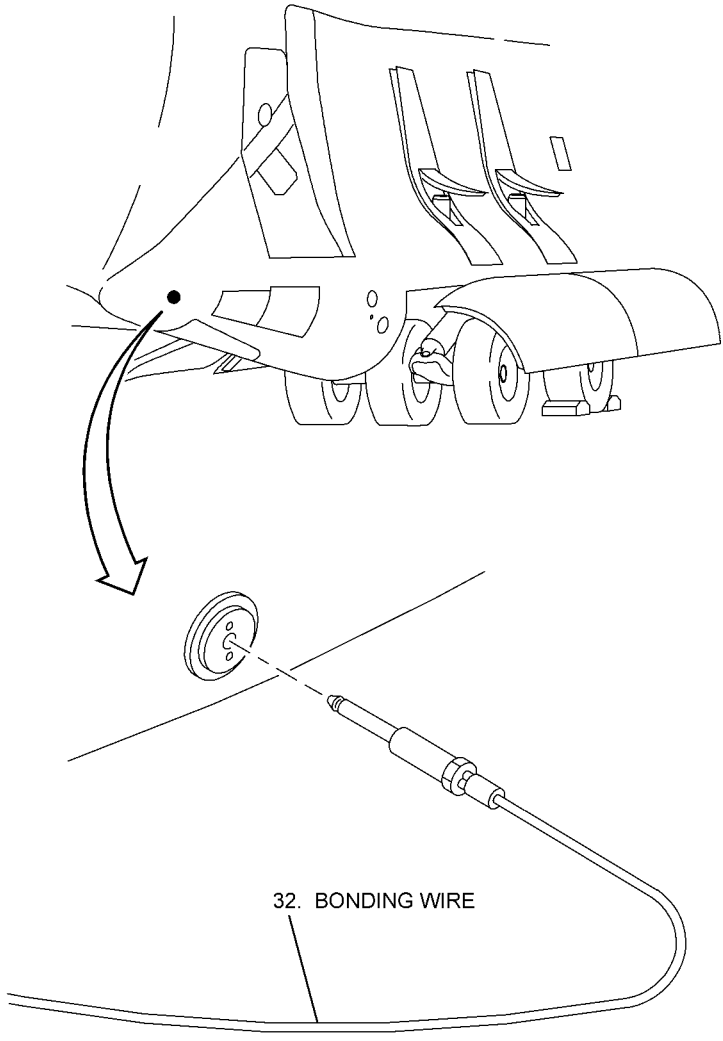
31. (B) Rotate **OFF BRT** knob to **OFF**.

    - Characters on **MCD** (**DU**) go off.



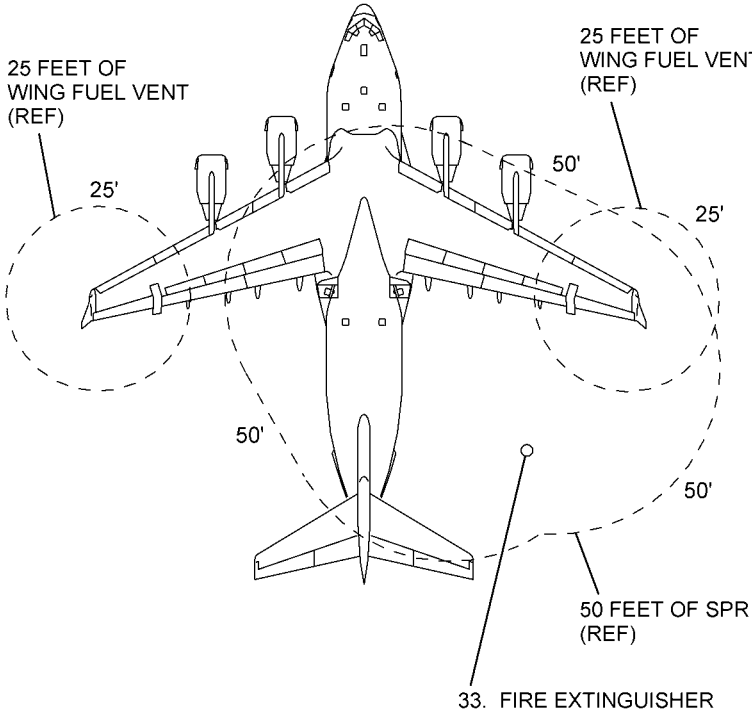
ICN-88277-G1228278-008-01

32. (A) Position defueling equipment and connect bonding wire to aircraft.



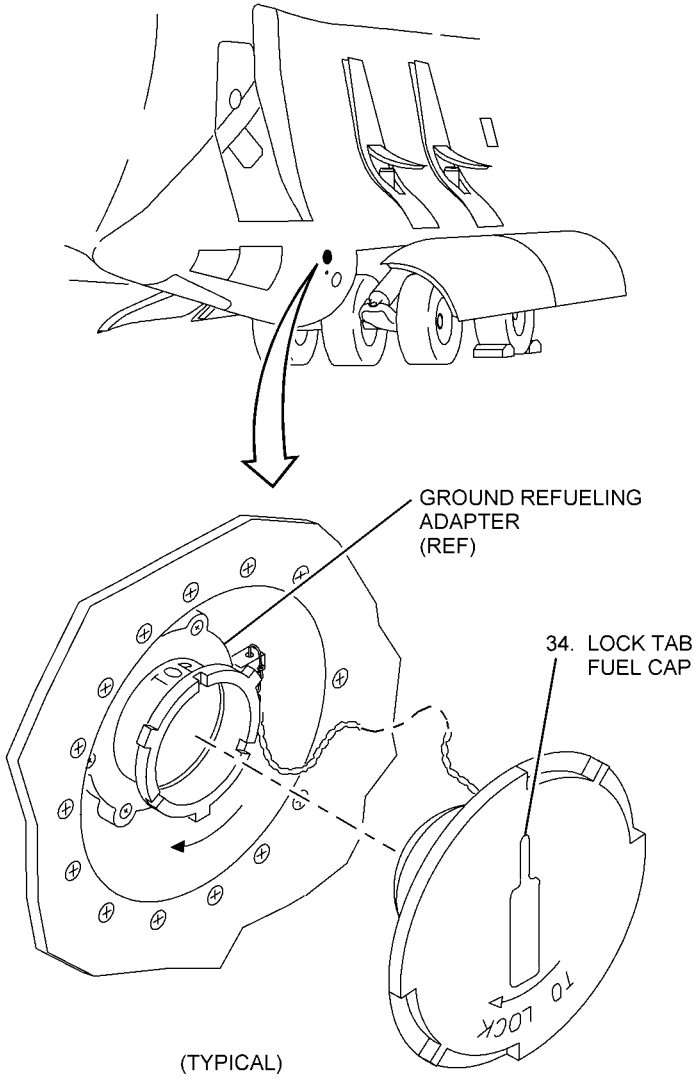
ICN-88277-G1228279-007-01

33. (A) Place fire extinguisher within 50 feet of Single Point Refueling (SPR), but outside 25 feet wing fuel vent Fuel Servicing Safety Zone (FSSZ).



ICN-88277-G1228654-001-01

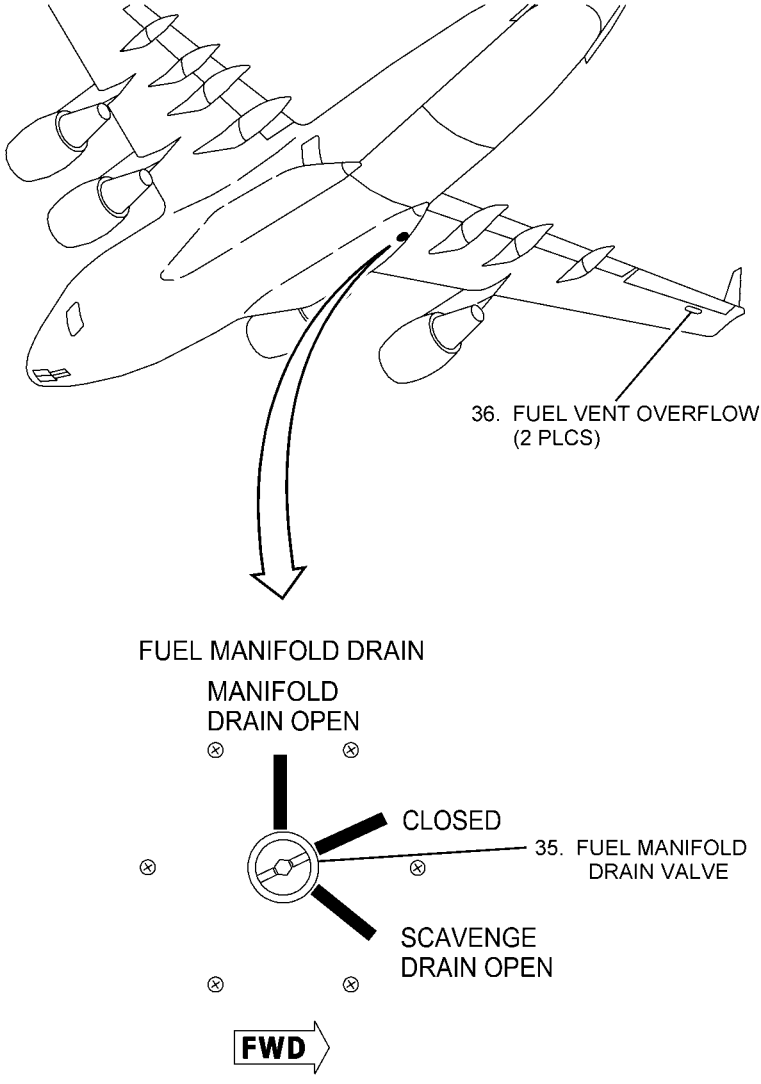
34. (B) Press lock tab and remove fuel cap from ground refueling adapter.



ICN-88277-G1228029-014-01

35. (B) Ensure **FUEL MANIFOLD DRAIN** valve is in **CLOSED** position.

36. (B) Ensure fuel vent overflow is free of obstructions.



ICN-88277-G1228030-010-01

02-2. PREPARATION - ALTERNATE METHOD.

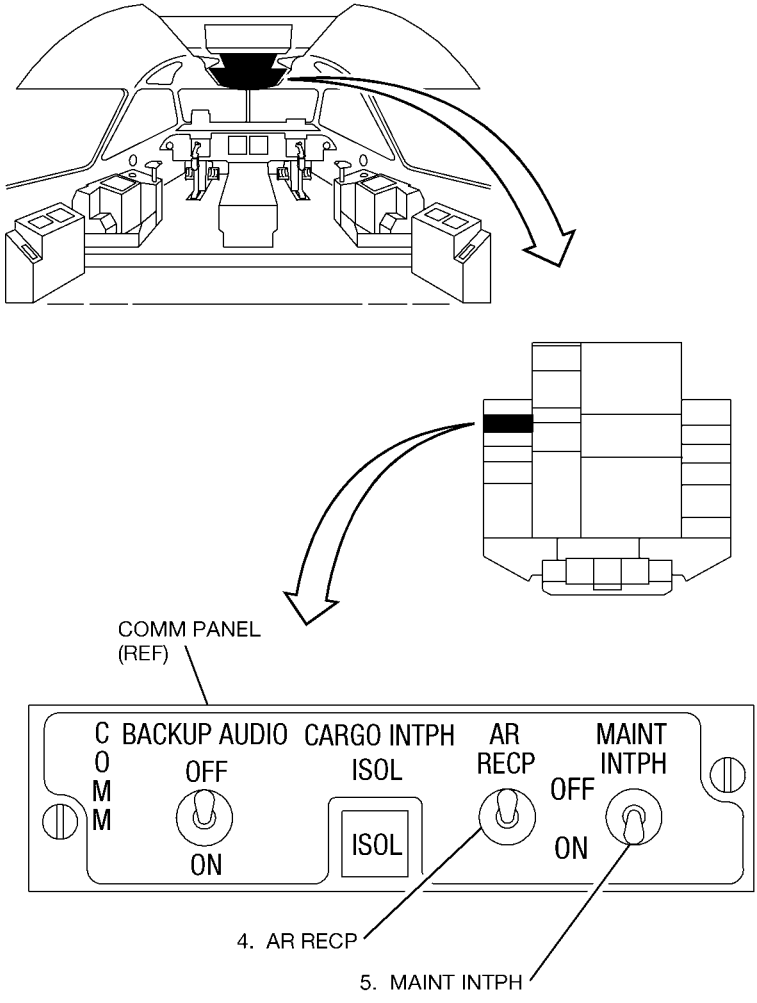
1. Review ″Section 1 (General Information)″ of this TO for system general warnings, cautions, and notes.

2. Review task ″General Maintenance Input Conditions″ page for task specific safety conditions.

3. Perform fuel team briefing (TO 1300i-2-12JG-28-2, 12-28-00, para 1-6).

4. (B) Set **AR RECP** switch on **COMM** panel to **OFF**.

5. (B) Set **MAINT INTPH** switch to **ON**.

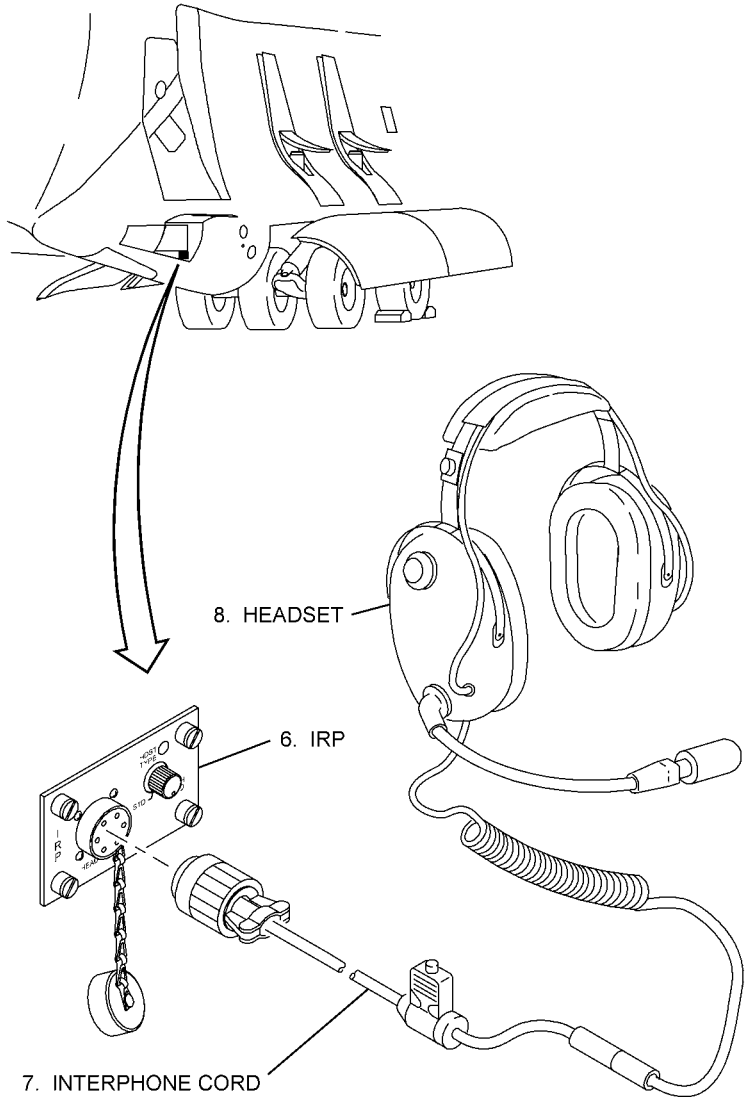


ICN-88277-G1228459-001-01

6. (B) Locate desired **IRP**.

7. (B) Connect interphone cord to **IRP**.

8. (B) Connect headset to interphone cord.



ICN-88277-G1228460-003-01

NOTE

Auxiliary Power Unit (APU) may be used if external electrical power source is not available (49-00-01).

9. Connect external electrical power (10-61-01, task 01-1).

10. (B) Check hydraulic system reservoir **2 SYS** and **3 SYS** quantity for sufficient hydraulic systems levels in gallons on **HYD** panel.

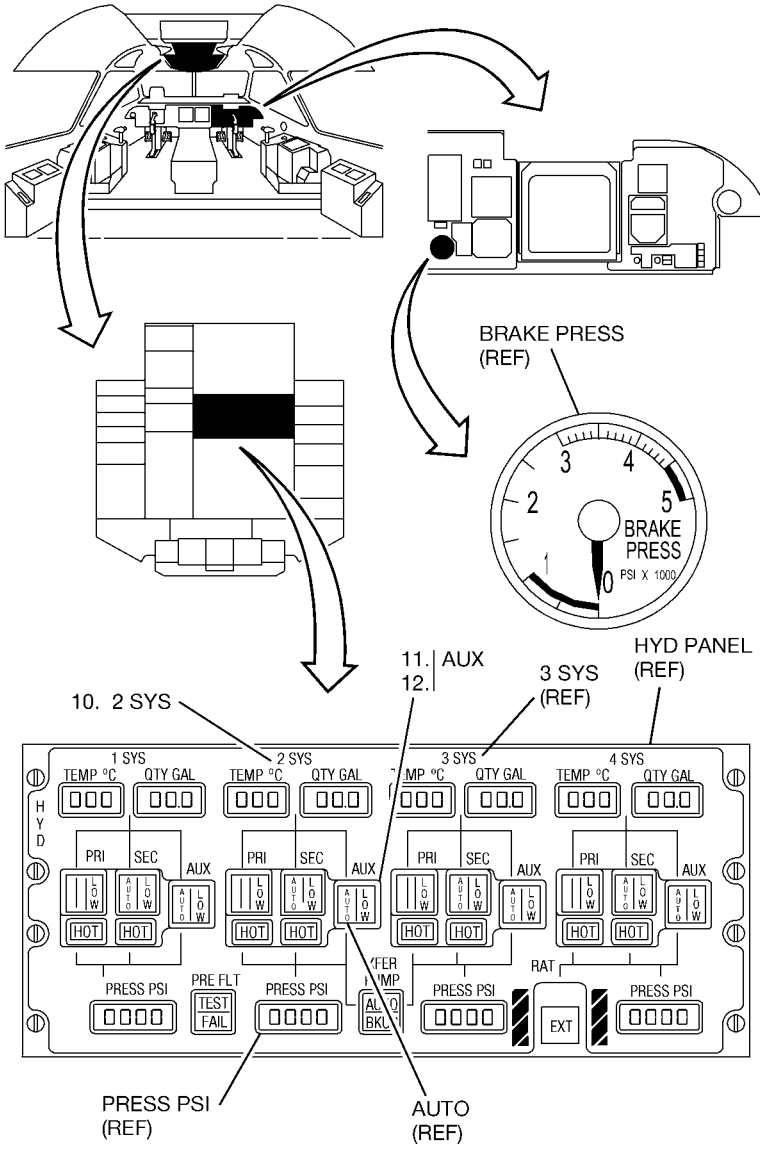
    - Minimum reservoir quantities are 4 gallons for system 2 and 3 gallons for system 3.
    - Systems within specified limits or service (TO 1300i-2-12JG-29-1, 12-29-00, para 1-9).

11. (B) Press **2 SYS AUX** switchlight, on **HYD** panel.

    - **AUTO** light comes on.
    - **PRESS PSI** indicator reads 3800-4200.
    - **BRAKE PRESS** indicator on instrument panel reads 3800-4200.

12. (B) Press **2 SYS AUX** switchlight, on **HYD** panel.

    - **AUTO** light goes off.

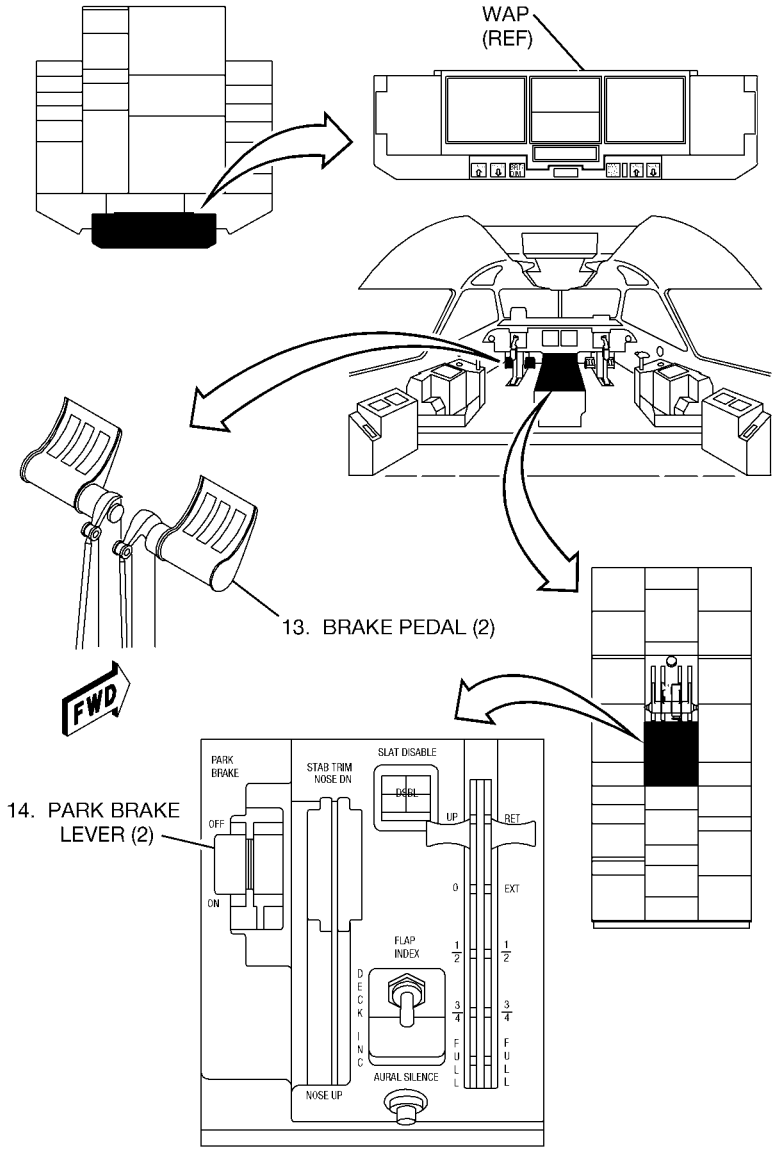


ICN-88277-G1228346-004-01

13. (B) Press and hold brake pedals.

14. (B) Set **PARK BRAKE** levers to **ON** and release brake pedals.

    - **PARK BRAKE ON L R** is displayed on the Warning and caution Annunciator Panel (WAP).



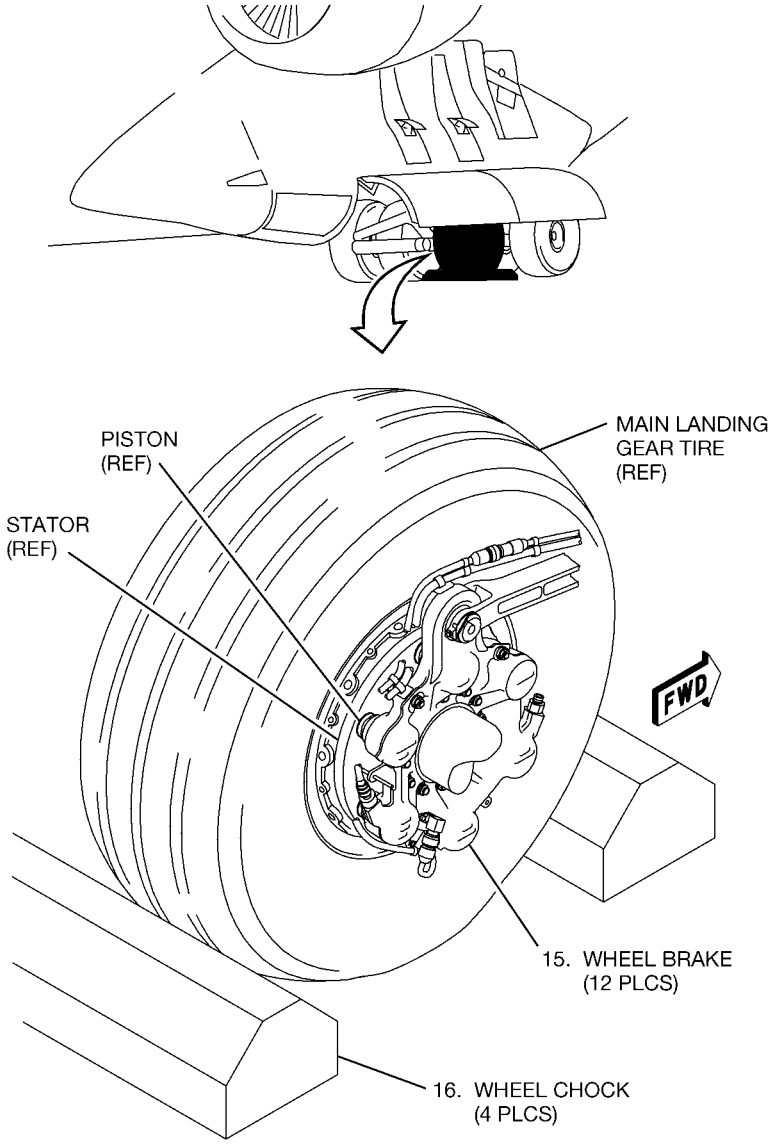
ICN-88277-G1228347-004-01

NOTE

Wheel brakes are set when pistons are pressed against the stator.

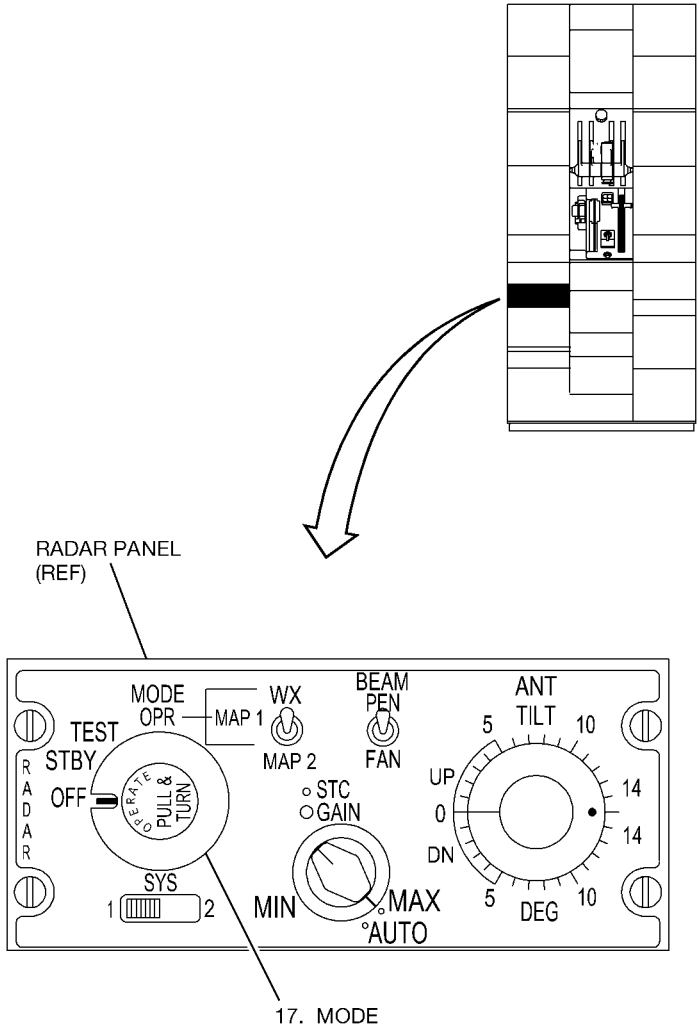
15. (A) Visually inspect wheel brakes to ensure they are set.

16. (B) Position wheel chocks approximately 2 inches forward and aft of main landing gear tires.



ICN-88277-G1228431-002-01

17. (B) Ensure **MODE** switch on **RADAR** panel is set to **OFF**.



ICN-88277-G1228348-003-01

18. (B) Rotate **OFF BRT** knob on **MCD** (**DU**) clockwise.

    - Characters on **MCD** (**DU**) come on.

19. (B) Press **COMM** key.

    - **COMM/NAV SUMMARY** is displayed.

20. (B) Press **IDX** key.

    - **COMM INDEX 1** is displayed.

21. (B) Press 6R Line Select (LS) key.

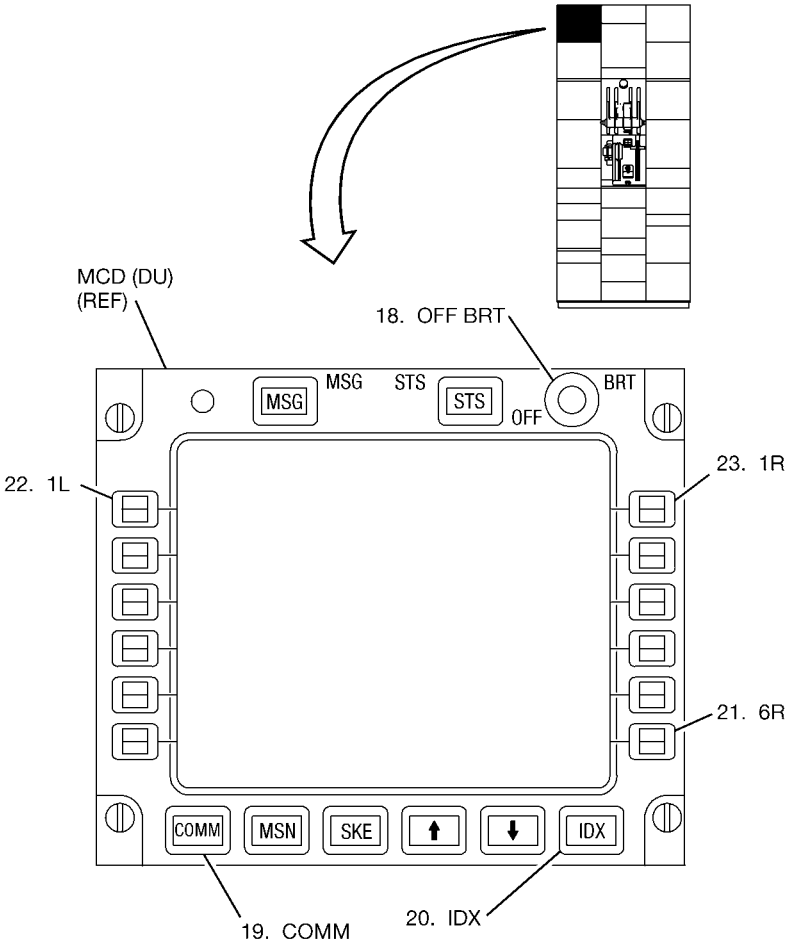
    - **NAV EMITTER CONTROL PG1** is displayed.

22. (B) Press 1L LS key.

    - **STANDBY** is displayed.

23. (B) Press 1R LS key.

    - **STANDBY** is displayed.



ICN-88277-G1228349-005-01

24. (B) Press 6R LS key.

    - **COMM INDEX 1** is displayed.

25. (B) Press 3L LS key.

    - **HF** radios selected.

NOTE

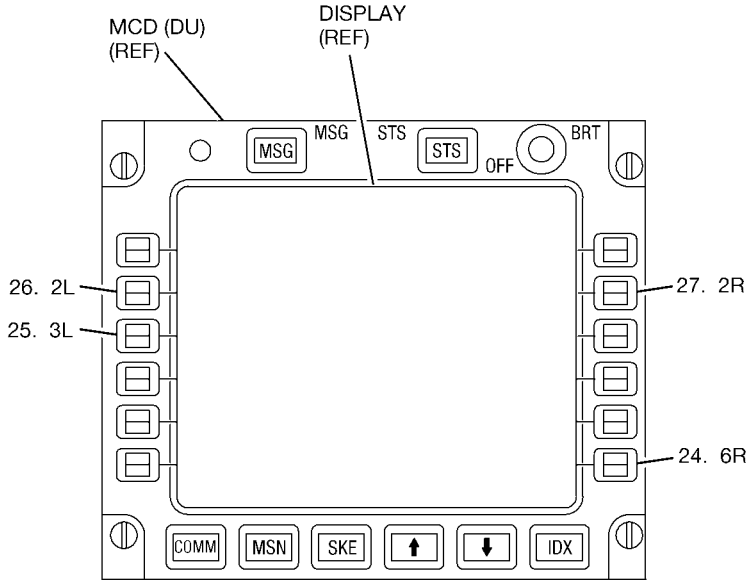
Pressing LS key will cycle through operational modes of the HF radio.

26. (B) Press 2L LS key.

    - **MODE: UV LV AM OFF** is displayed.
    - →**OFF** is displayed.

27. (B) Press 2R LS key.

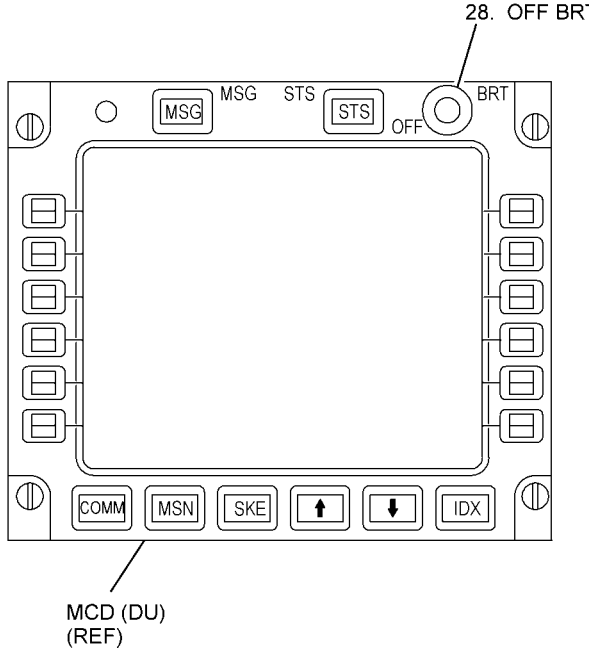
    - **MODE: UV LV AM OFF** is displayed.
    - →**OFF** is displayed.



ICN-88277-G1228350-003-01

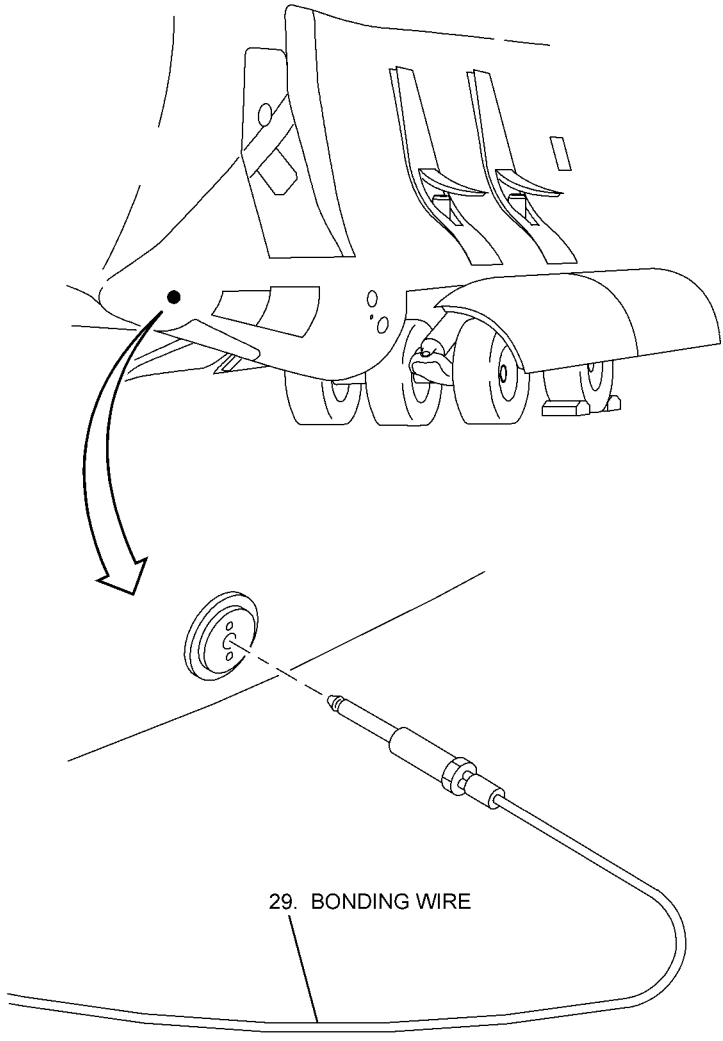
28. (B) Rotate **OFF BRT** knob to **OFF**.

    - Characters on **MCD** (**DU**) go off.



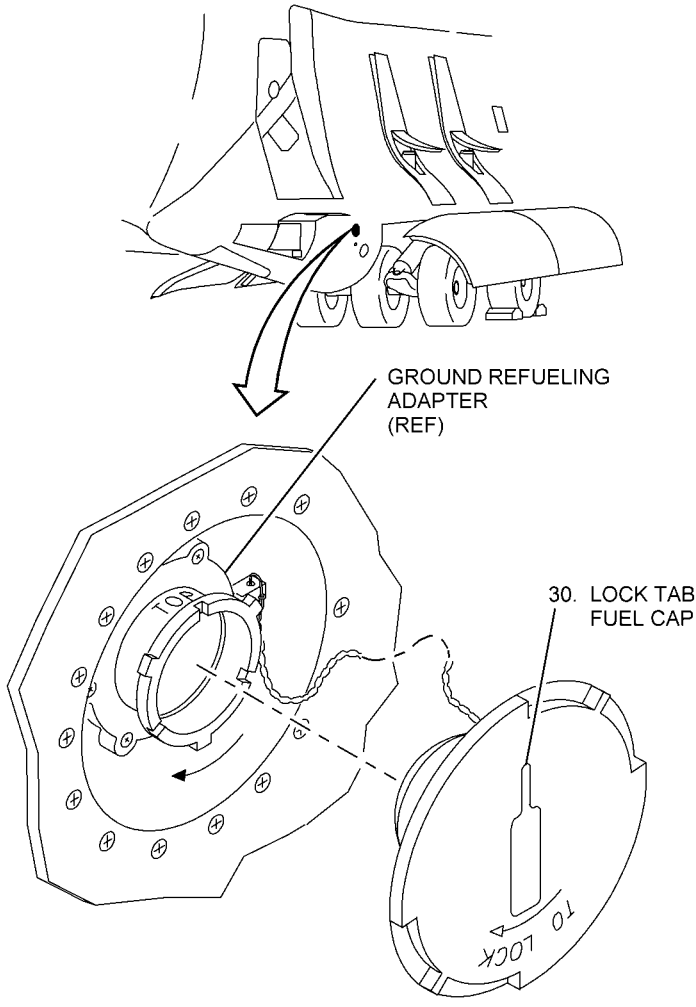
ICN-88277-G1228351-004-01

29. (A) Position defueling equipment and connect bonding wire to aircraft.



ICN-88277-G1228352-005-01

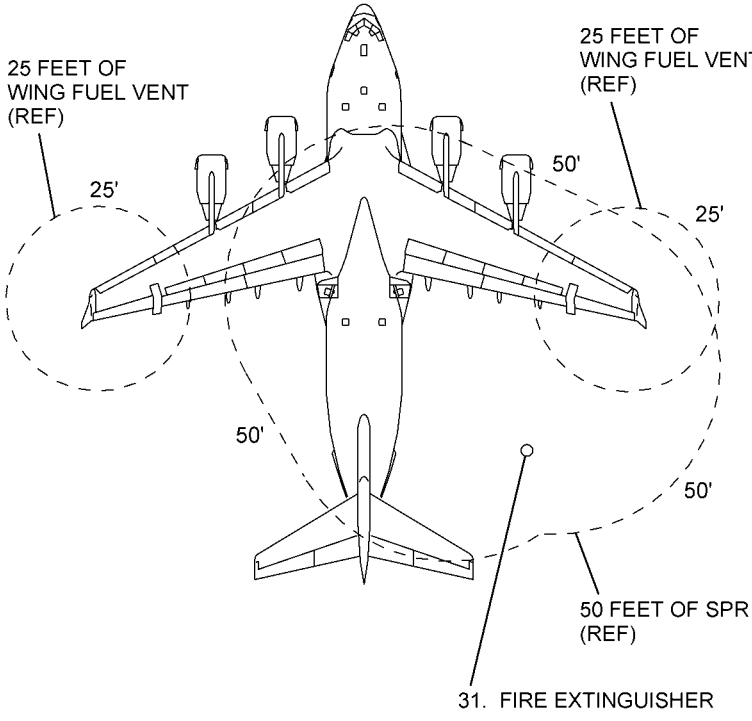
30. (A) Press lock tab and remove fuel cap from ground refueling adapter.



(TYPICAL)

ICN-88277-G1228353-007-01

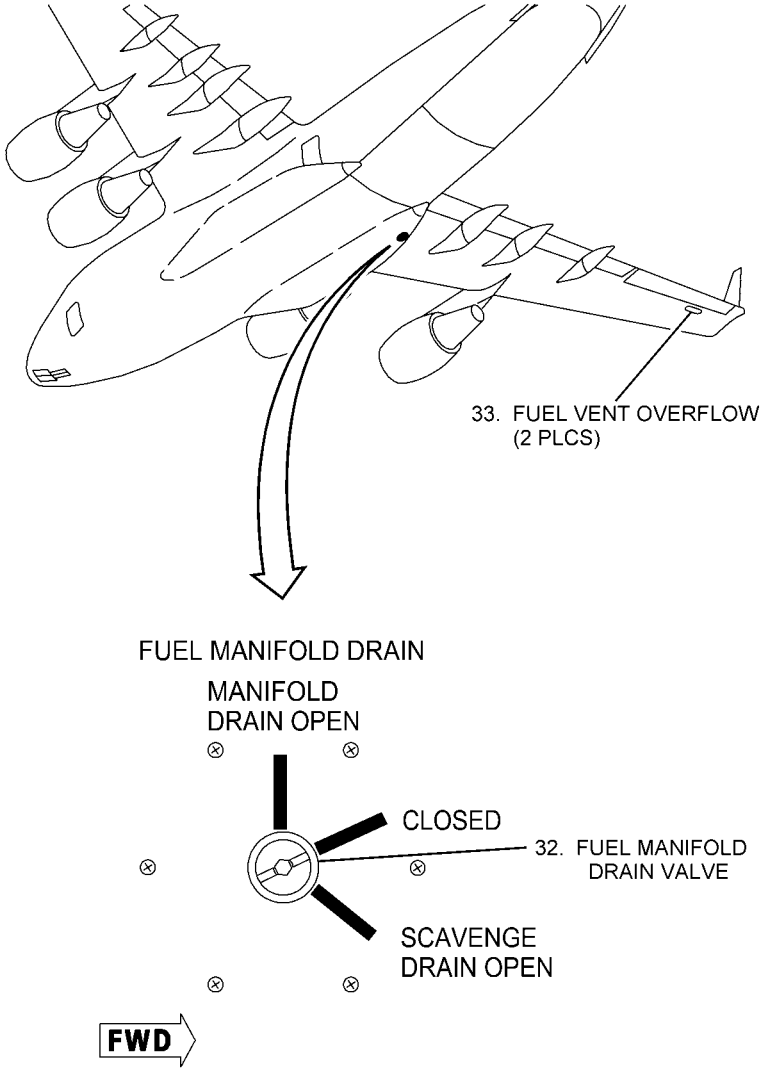
31. (A) Place fire extinguisher within 50 feet of Single Point Refueling (SPR), but outside 25 feet wing fuel vent Fuel Servicing Safety Zone (FSSZ).



ICN-88277-G1228605-002-01

32. (A) Ensure **FUEL MANIFOLD DRAIN** valve is in **CLOSED** position.

33. (A) Ensure fuel vent overflow is free of obstructions.



ICN-88277-G1228354-004-01

02-2A. PREPARATION - ALTERNATE METHOD DEFUEL THROUGH THE ENGINE PYLON DISCONNECT PANEL.

1. Review ″Section 1 (General Information)″ of this TO for system general warnings, cautions, and notes.

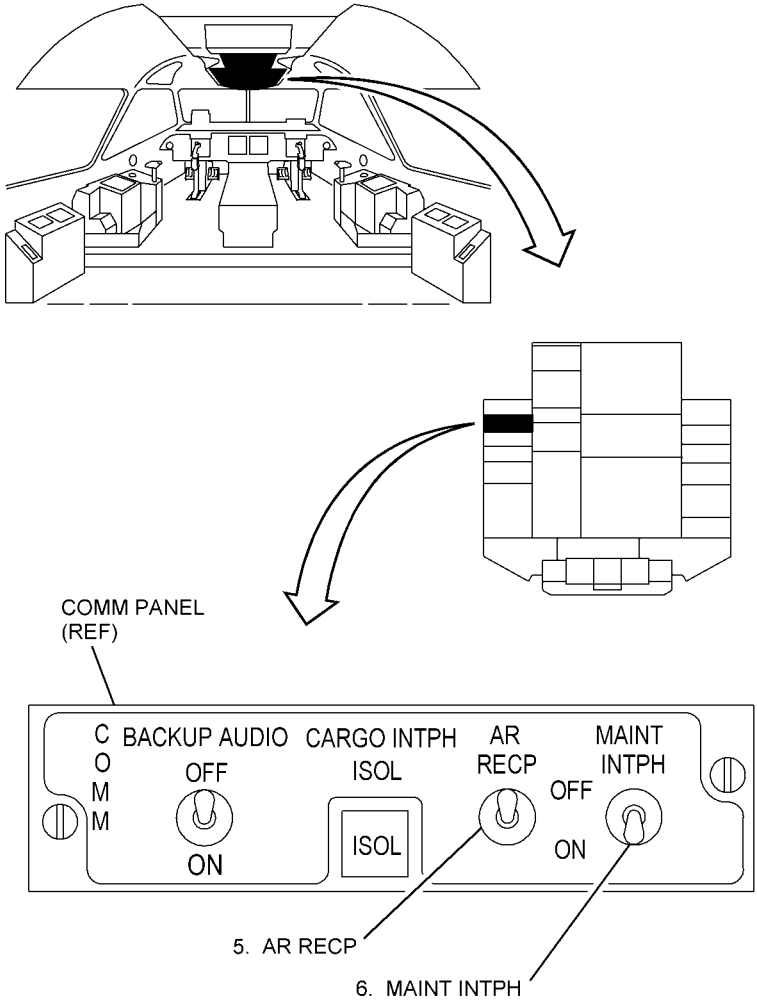
2. Review task ″General Maintenance Input Conditions″ page for task specific safety conditions.

3. Perform fuel team briefing (TO 1300i-2-12JG-28-2, 12-28-00, para 1-6).

4. Connect external electrical power (10-61-01, task 01-1).

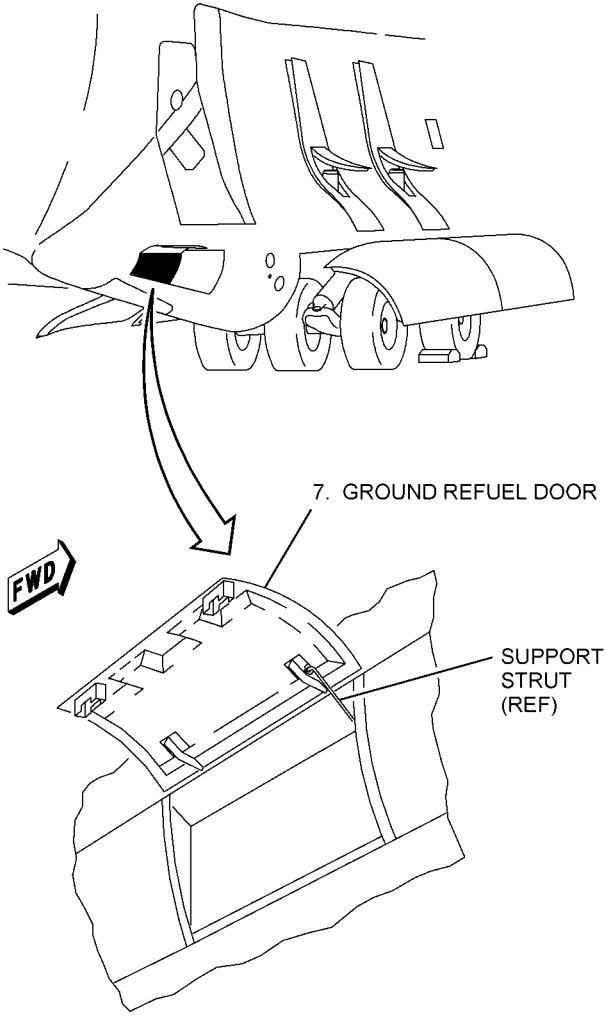
5. (A) Set **AR RECP** switch on **COMM** panel to **OFF**.

6. (A) Set **MAINT INTPH** switch to **ON**.



ICN-88277-G1228627-001-01

7. (B) Unlatch and open ground refuel door (183JRD); install support strut.

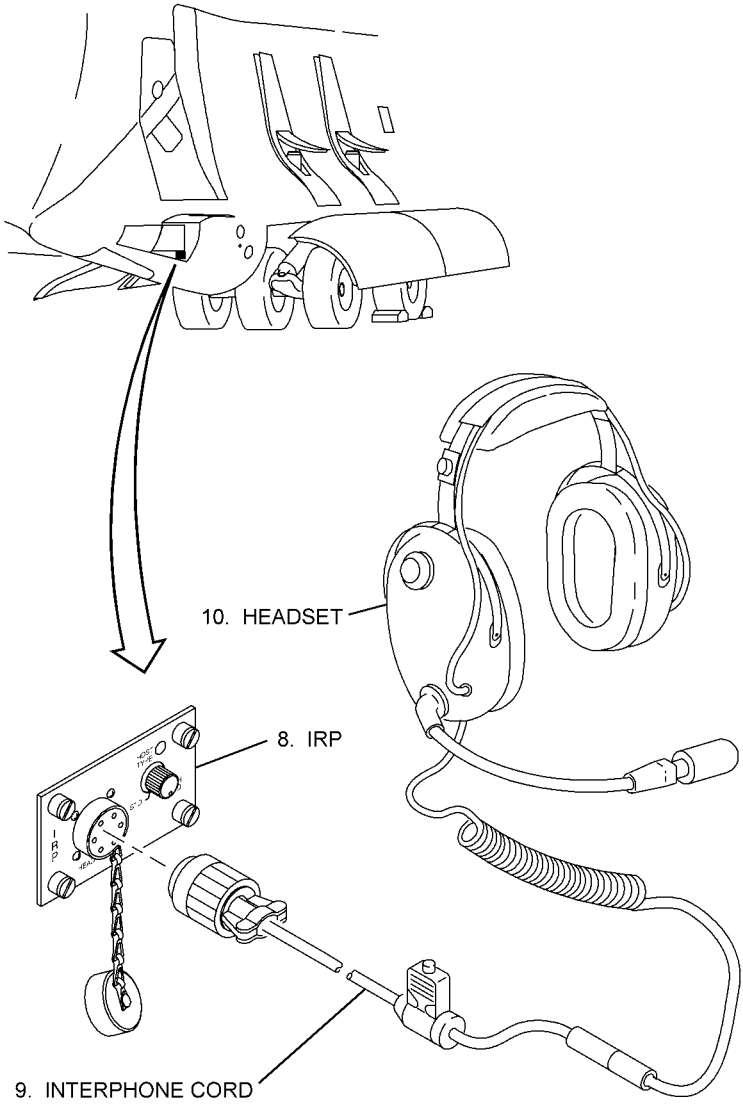


ICN-88277-G1228628-001-01

8. (B) Locate desired Integrated Refuel Panel **IRP**.

9. (B) Connect interphone cord to **IRP**.

10. (B) Connect headset to interphone cord.



ICN-88277-G1228629-001-01

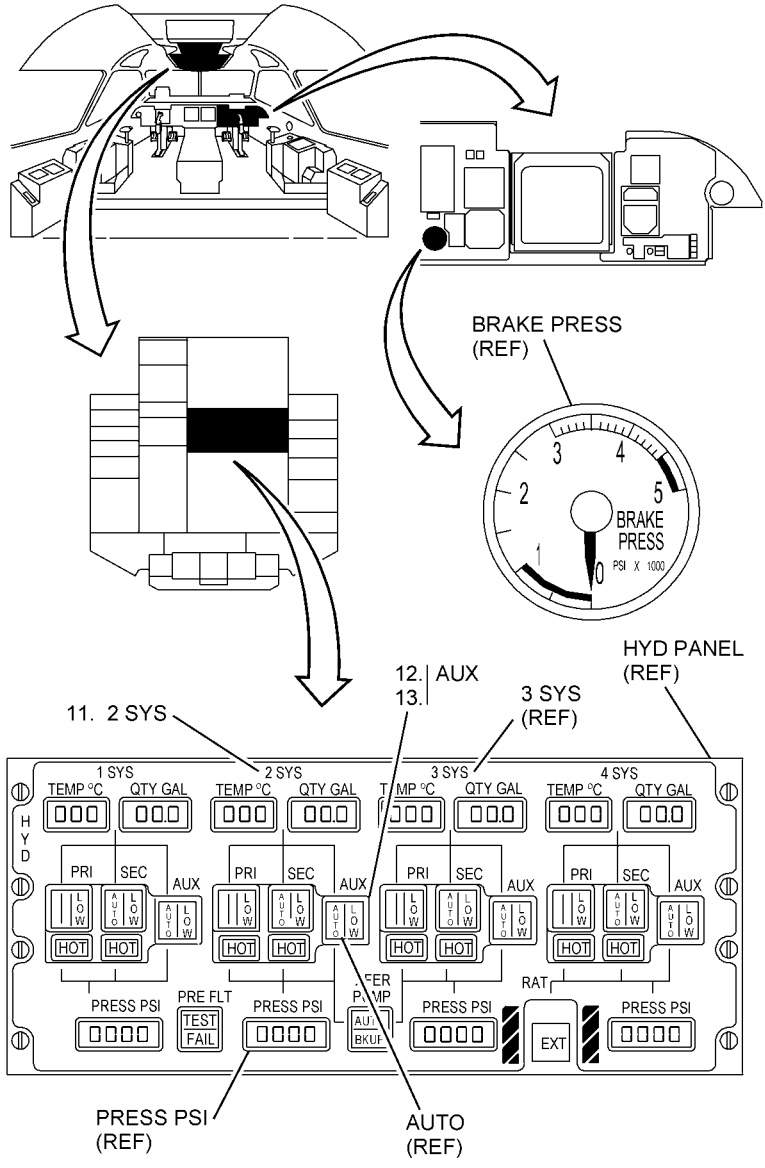
NOTE

- Minimum reservoir quantities are 4 gallons for system 2 and 3 gallons for system 3.
- Systems not within specified limits or service (TO 1300i-2-12JG-29-1, 12-29-00, para 1-9).

11. (B) Check **2 SYS** and **3 SYS** hydraulic system reservoir quantity for sufficient hydraulic systems levels in gallons on **HYD** panel.

12. (B) Press **2 SYS AUX** switchlight, on **HYD** panel.
    - **AUTO** light comes on.
    - **PRESS PSI** indicator reads 3800-4200.
    - **BRAKE PRESS** indicator on instrument panel reads 3800-4200.

13. (B) Press **2 SYS AUX** switchlight, on **HYD** panel.
    - **AUTO** light goes off.

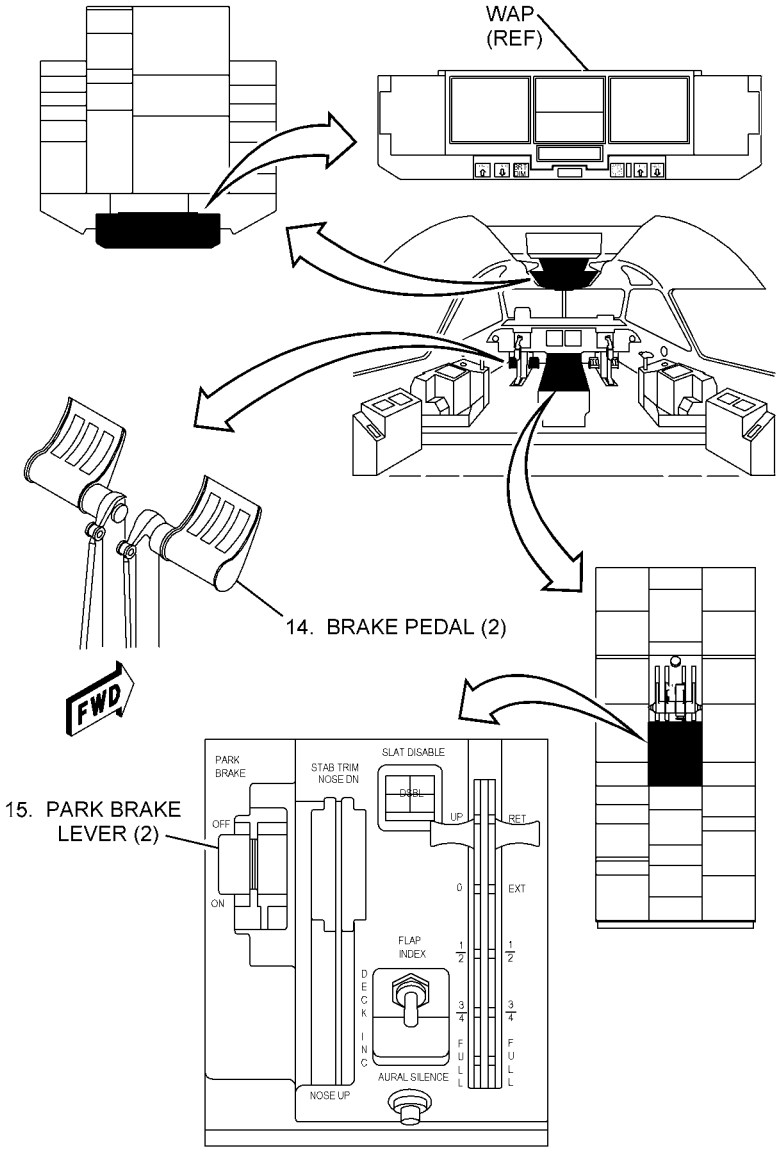


ICN-88277-G1228620-001-01

14. (B) Press and hold brake pedals.

15. (B) Set **PARK BRAKE** levers to **ON** and release brake pedals.

    - **PARK BRAKE ON L R** is displayed on the Warning and caution Annunciator Panel (WAP).



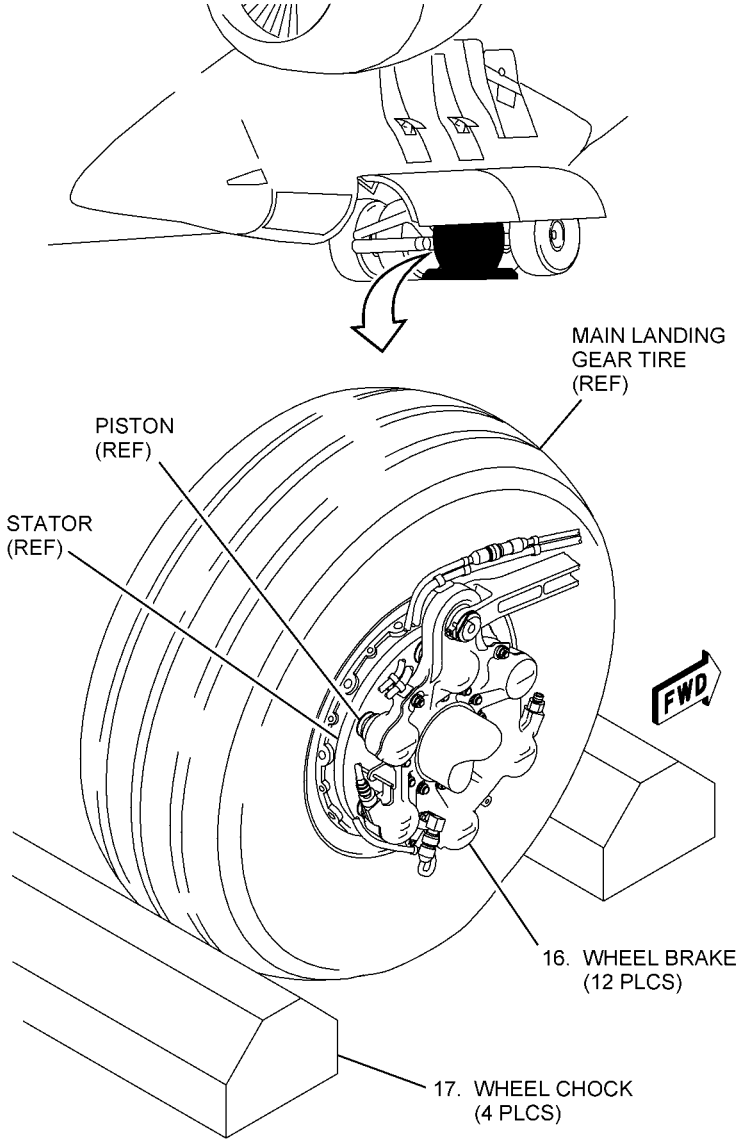
ICN-88277-G1228621-001-01

NOTE

Wheel brakes are set when pistons are pressed against the stator.

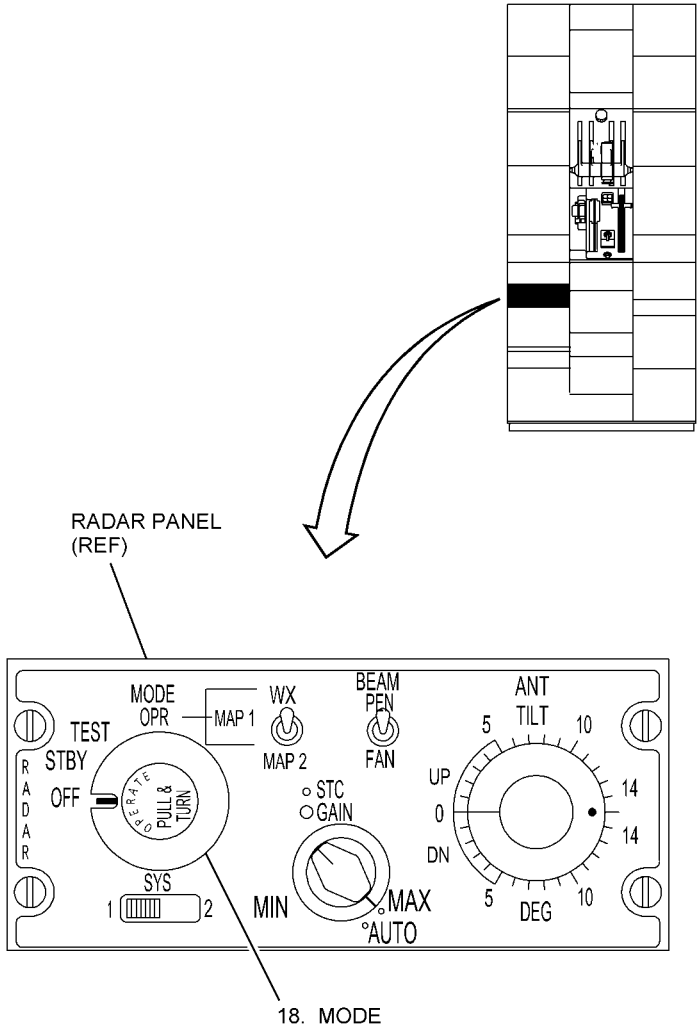
16. (B) Visually inspect wheel brakes to ensure they are set.

17. (B) Position wheel chocks approximately 2 inches forward and aft of main landing gear tires.



ICN-88277-G1228622-001-01

18. (B) Ensure **MODE** switch on **RADAR** panel is set to **OFF**.



ICN-88277-G1228623-001-01

19. (B) Rotate **OFF BRT** knob on **MCD** (**DU**) clockwise.

    - Characters on **MCD** (**DU**) come on.

20. (B) Press **COMM** key.

    - **COMM/NAV SUMMARY** is displayed.

21. (B) Press **IDX** key.

    - **COMM INDEX 1** is displayed.

22. (B) Press 6R Line Select (LS) key.

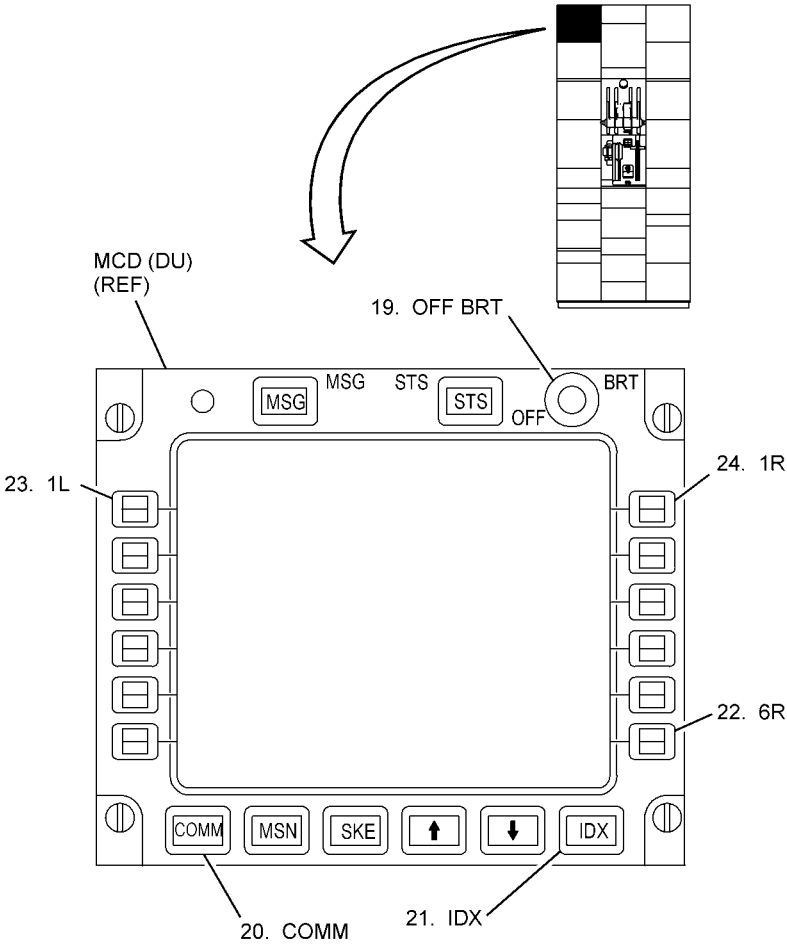
    - **NAV EMITTER CONTROL PG1** is displayed.

23. (B) Press 1L LS key.

    - **STANDBY** is displayed.

24. (B) Press 1R LS key.

    - **STANDBY** is displayed.



ICN-88277-G1228624-001-01

25. (B) Press 6R LS key.

    - **COMM INDEX 1** is displayed.

26. (B) Press 3L LS key.

    - **HF** radios selected.

NOTE

Pressing LS key will cycle through operational modes of the HF radio.

27. (B) Press 2L LS key.

    - **MODE: UV LV AM OFF** is displayed.
    - →**OFF** is displayed.

28. (B) Press 2R LS key.

    - **MODE: UV LV AM OFF** is displayed.
    - →**OFF** is displayed.