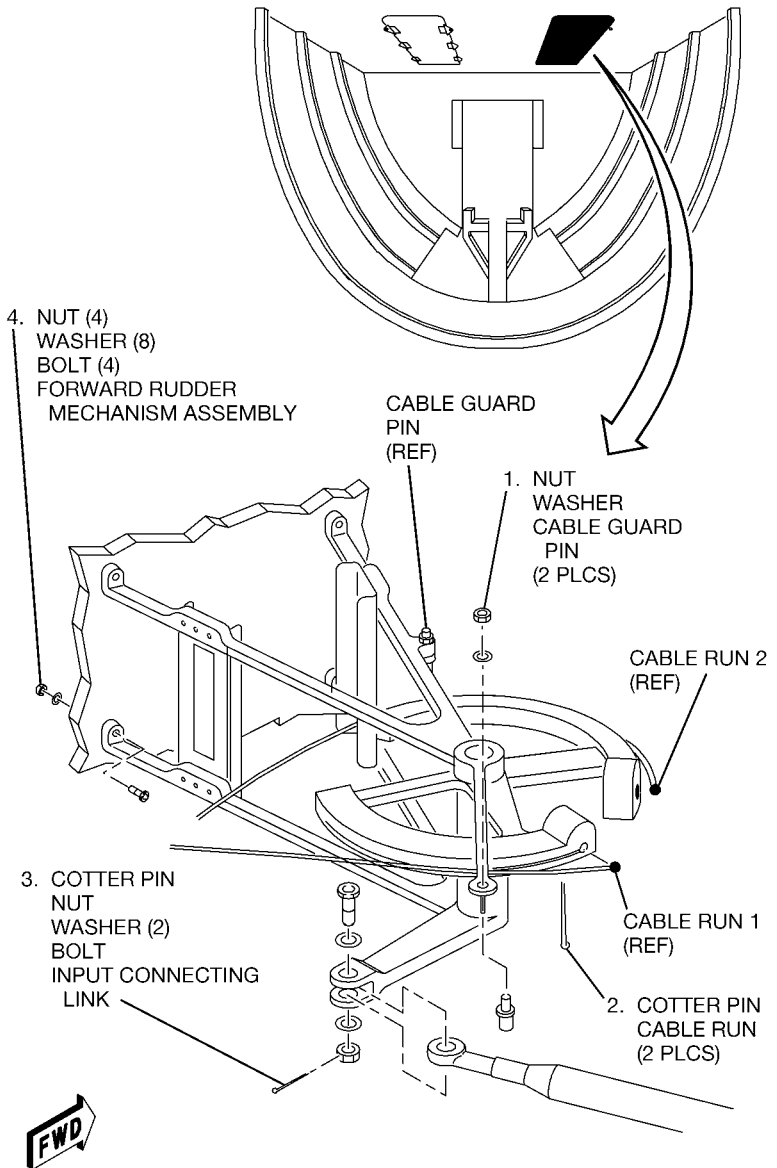


ICN-88277-G2721360-003-01

## **2-2. REMOVAL.**

1. (A,B) Remove nuts, washers, and cable guard pins.
2. (A,B) Remove cotter pins and disconnect cable runs 1 and 2 from forward rudder mechanism assembly.
3. (A,B) Remove cotter pin, nut, washers, bolt, and input connecting link.
4. (A,B) Remove nuts, washers, bolts, and forward rudder mechanism assembly.



ICN-88277-G2721151-003-01



# FORWARD RUDDER MECHANISM ASSEMBLY INSTALLATION (27-21-17-3)

## FUNCTIONAL INPUT CONDITIONS:

### Applicability:

	Task
All	All

### Additional information:

This procedure consists of the following tasks:

- 3-1. Installation.
- 3-2. Follow-on maintenance.

### Additional data:

	Task
TO 1300i-2-00JG-00-1	3-2
TO 1300i-2-05JG-10-1	3-2
TO 1300i-2-25JG-10-1	3-2
TO 1300i-2-27JG-20-1	3-2
TO 1300i-2-53JG-10-1	3-2
TO 1300i-23	All

### Personnel recommended:

	Task
One	3-2
Two	3-1
Person (A) performs task.	
Person (B) assists person (A).	

Safety conditions:

Task



The horizontal pressure panel access cover(s) are removed in these tasks to gain access to the cavity above. When rudder, aileron, and elevator aircraft ground safety locks are not installed, care shall be taken working around rudder, aileron, and elevator cables, pulleys, and linkage due to possible moving parts. 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>
Kit, Rig Pin	17G140015-1	--	--	--
Pin 5-5, Rig	17G140015-13	--	1	3-2
Kit, Rig Pin	17G140185-1	--	--	--
Pin 5-12, Rig	17G140185-5	--	1	3-2
Tool, Turnbuckle Adjustment	17G140019-1	--	1	3-2

## Supplies:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Pin, Cotter	MS24665-151	--	1	3-1
Pin, Cotter	MS24665-157	--	2	3-1

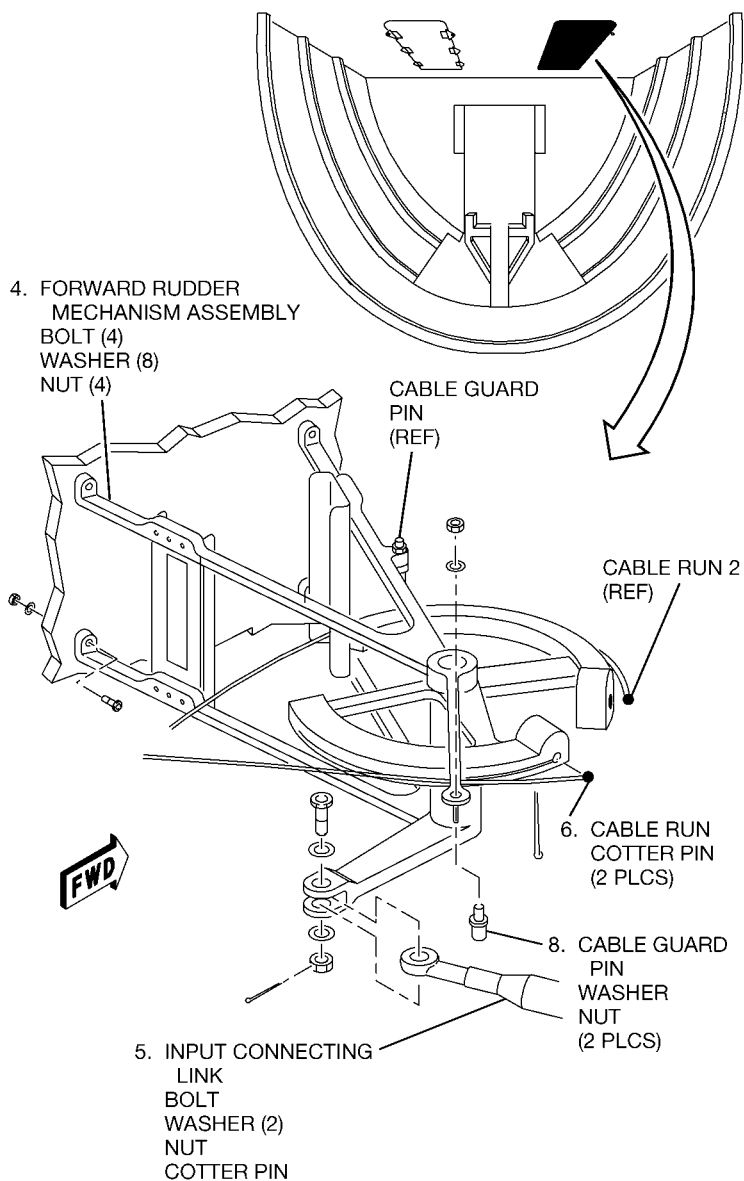
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Sealant	PR-1775 B-2	AMS 3265	AR	All
Tape, Sealing	GSC-21-80902-00	--	AR	3-2





## **3-1. INSTALLATION.**

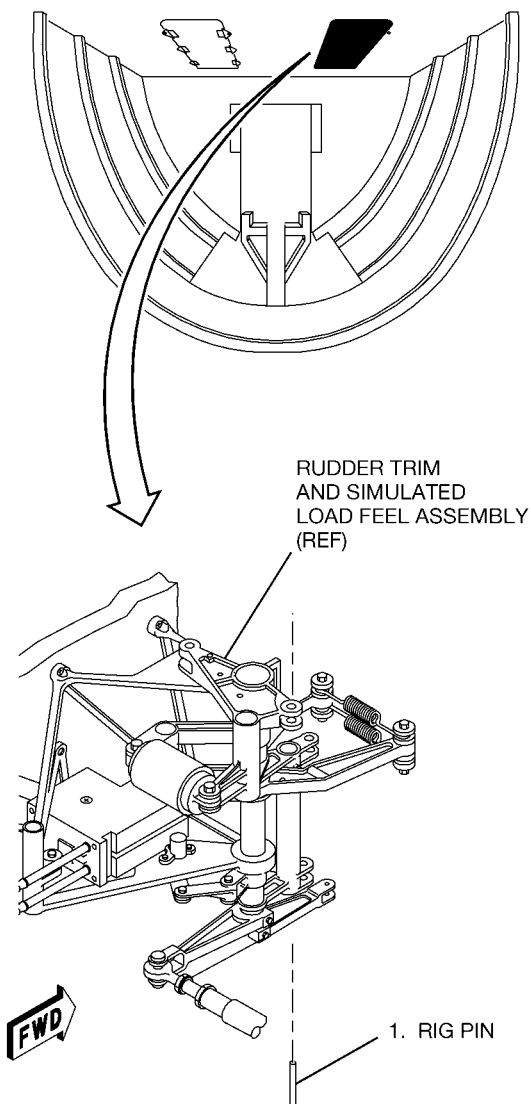
1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "Functional Input Conditions" page for task specific safety conditions.
3. Perform wet fastener installation (TO 1300i-23, Chapter 1, Section III).
4. (A,B) Position forward rudder mechanism assembly; install bolts, washers, and nuts.
5. (A,B) Position input connecting link; install bolt, washers, nut, and cotter pin (MS24665-151).
6. (A,B) Connect cable runs 1 and 2 and install cotter pins (MS24665-157).
7. Perform wet fastener installation (TO 1300i-23, Chapter 1, Section III).
8. (A,B) Install cable guard pins, washers, and nuts.



ICN-88277-G2721152-003-01

## **3-2. FOLLOW-ON MAINTENANCE.**

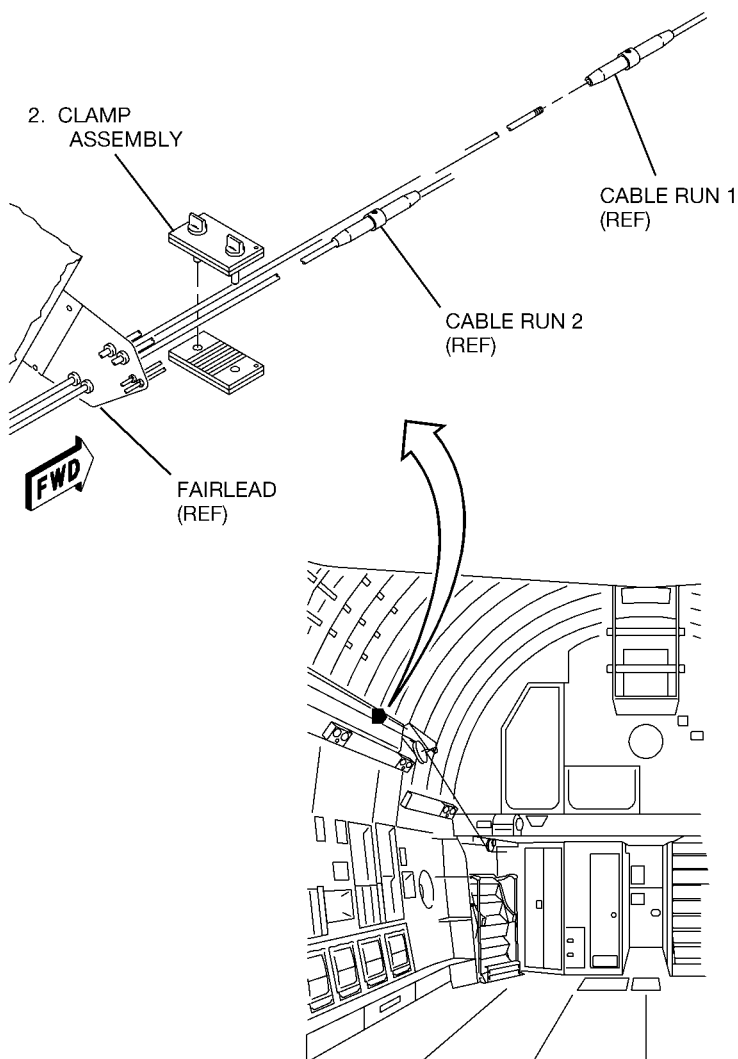
1. Install rig pin 5-12 in rudder trim and simulated load feel assembly.



ICN-88277-G2721153-004-01

## **TO 1300i-2-27JG-20-3**

2. Remove clamp assembly from cable runs 1 and 2 forward of fairlead at STA 511.

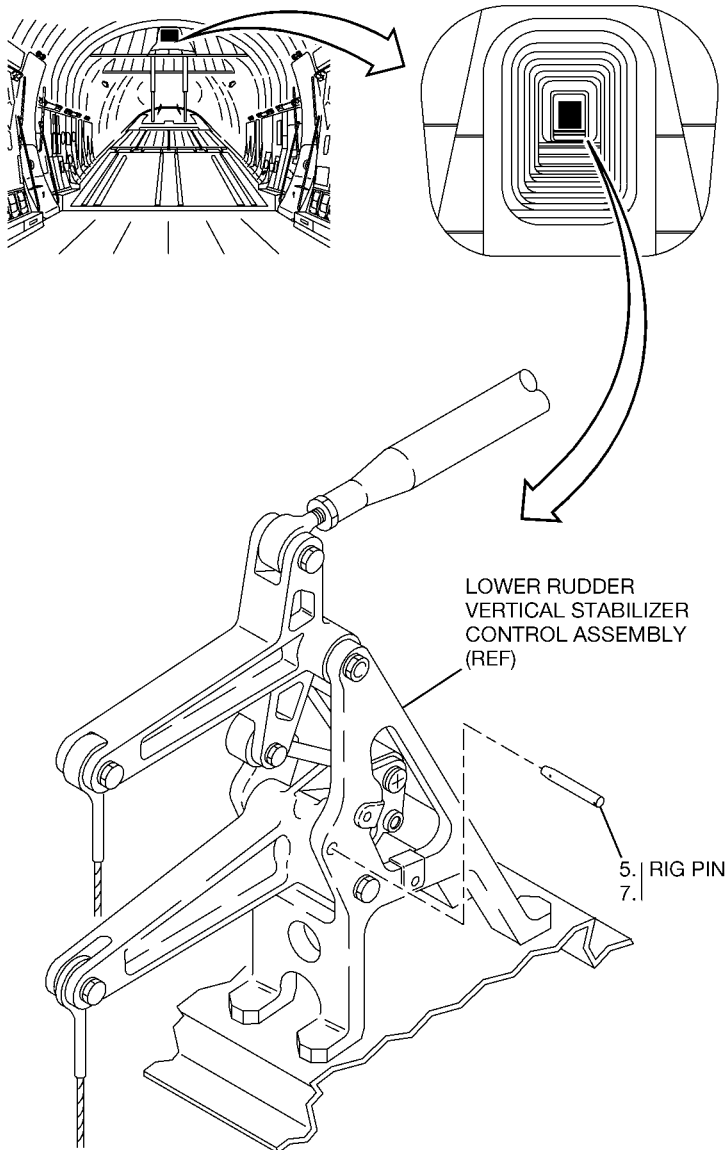


ICN-88277-G2721154-002-01

## **TO 1300i-2-27JG-20-3**

3. Remove rudder aircraft ground safety lock (05-10-01, task 01-2).
4. Enter vertical stabilizer (00-00-02, task 02-1).
5. Install rig pin 5-5 in lower rudder vertical stabilizer control assembly.
6. Perform rudder mechanical controls and surfaces system adjustment (27-21-02, task 02-3).
7. Remove rig pin 5-5 from control assembly.
8. Exit vertical stabilizer (00-00-02, task 02-8).



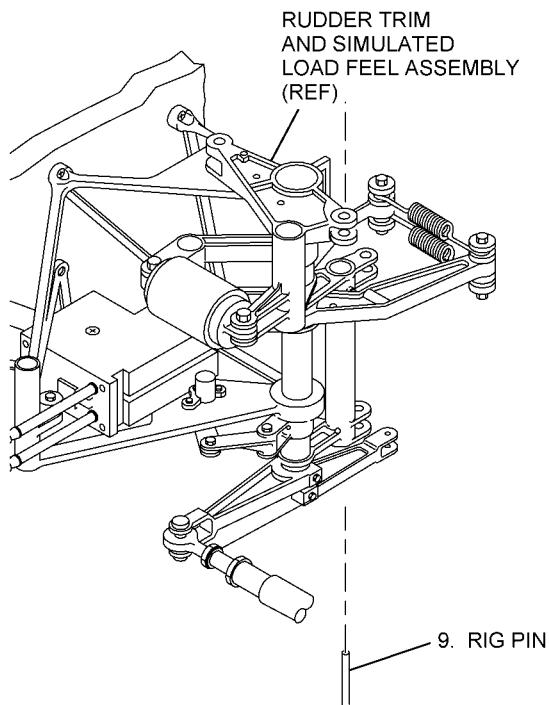


ICN-88277-G2721155-003-01

**TO 1300i-2-27JG-20-3**

- 9. Remove rig pin 5-12 from rudder trim and simulated load feel assembly.
- 10. Perform rudder system operational check (27-20-01).
- 11. Install horizontal pressure panel access cover assembly (53-12-10).

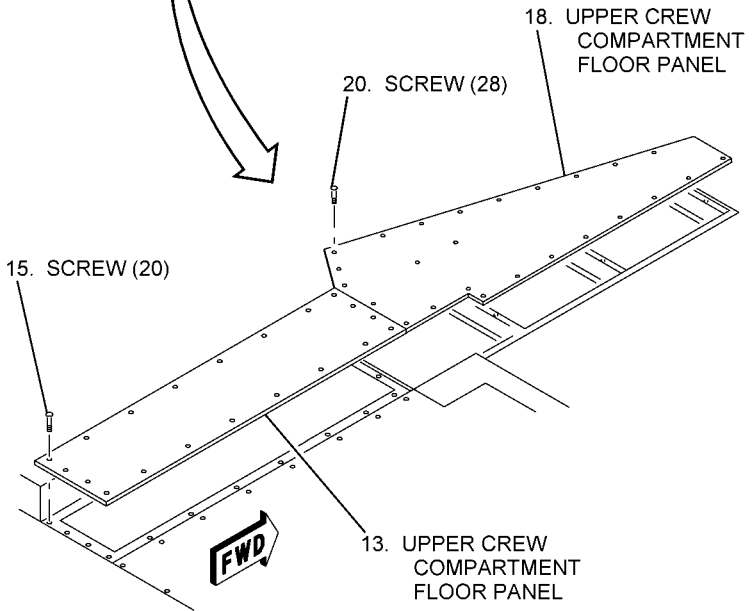
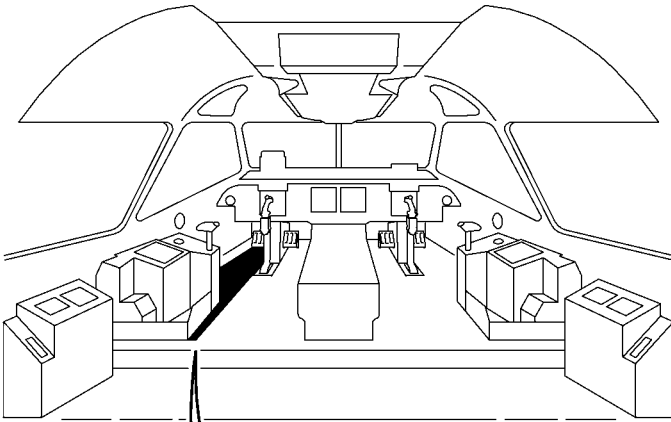
PANEL NO.	PANEL REF DES
112AZP	5312CA001



ICN-88277-G2721156-005-01

## **TO 1300i-2-27JG-20-3**

12. Perform tape type sealing (TO 1300i-23, Chapter 1, Section III).
13. Position upper crew compartment floor panel (213CZY).
14. Perform fastener head sealing (TO 1300i-23, Chapter 1, Section III).
15. Install screws as identified.
16. Perform floor panel sealing (TO 1300i-23, Chapter 1, Section III).
17. Perform tape type sealing (TO 1300i-23, Chapter 1, Section III).
18. Position upper crew compartment floor panel (211AZY).
19. Perform fastener head sealing (TO 1300i-23, Chapter 1, Section III).
20. Install screws as identified.
21. Perform floor panel sealing (TO 1300i-23, Chapter 1, Section III).
22. Install pilot seat assembly (25-11-10).



ICN-88277-G2721454-002-01



# LOWER RUDDER VERTICAL STABILIZER CONTROL ASSEMBLY (27-21-18)

## MASTER INPUT CONDITIONS:

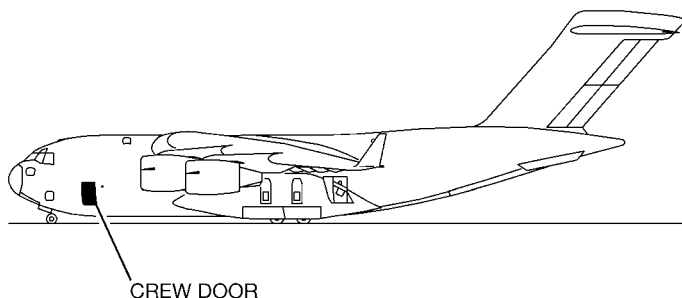
### Reference designators:

2721AA025	Lower Rudder Vertical Stabilizer Control Assembly
-----------	---

### Applicable functions:

- 2 Removal.
- 3 Installation.

### Access data:



ICN-88277-G2721161-002-01





**LOWER RUDDER VERTICAL STABILIZER  
CONTROL ASSEMBLY REMOVAL  
(27-21-18-2)**

**FUNCTIONAL INPUT CONDITIONS:**

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

**Additional information:**

This procedure consists of the following tasks:

- 2-1. Preparation.
- 2-2. Removal.

<b>Additional data:</b>	<b>Task</b>
TO 1300i-2-00JG-00-1	2-1
TO 1300i-2-05JG-10-1	2-1

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

<b>Safety conditions:</b>	<b>Task</b>
NA	--

Support equipment:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Kit, Rig Pin	17G140015-1	--	--	--
Assembly, Clamp	17G140015-7	--	1	2-1
Tool, Turnbuckle Adjustment	17G140019-1	--	1	2-1

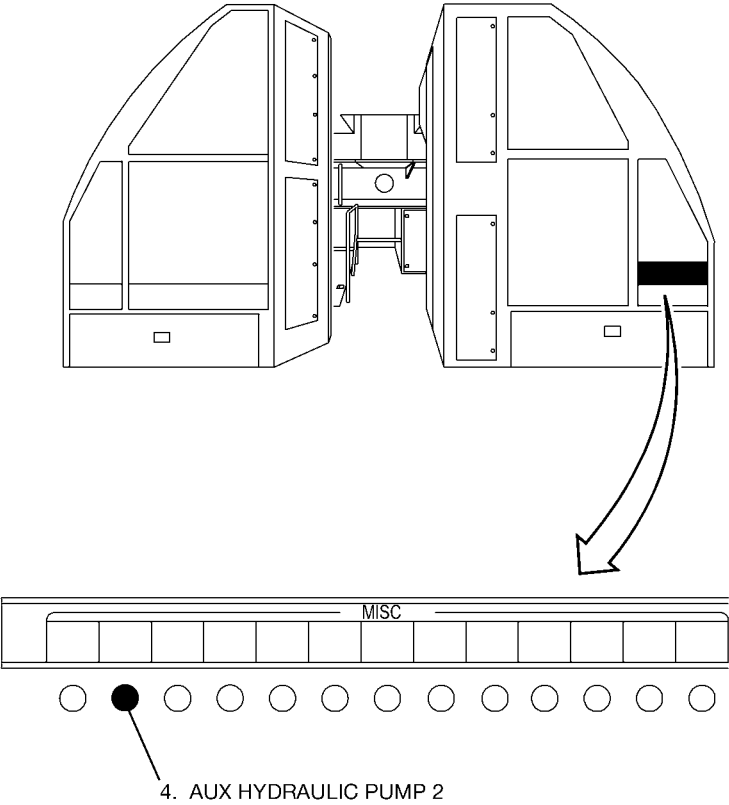
Supplies:

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



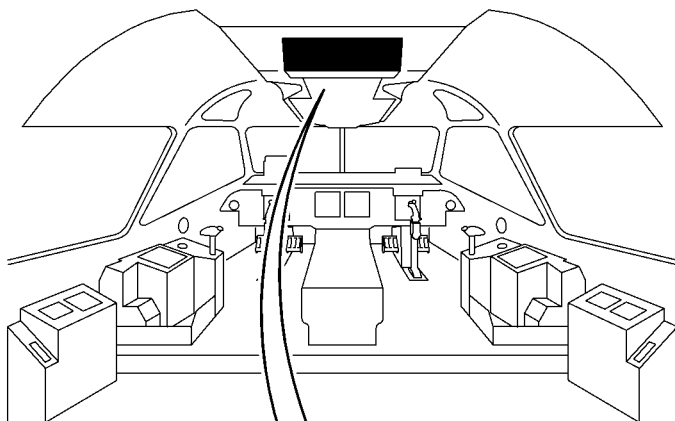
## **2-1. PREPARATION.**

1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "Functional Input Conditions" page for task specific safety conditions.
3. Install rudder aircraft ground safety lock (05-10-01, task 01-1).
4. Open **AUX HYDRAULIC PUMP 2** circuit breaker, on electrical power center, row **LL**, column **69**, and attach warning tag.



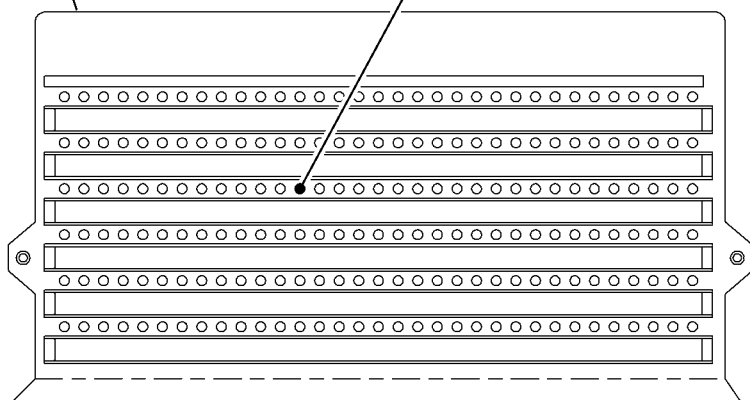
## **TO 1300i-2-27JG-20-3**

5. Open **HYD XFER VALVE POWER** circuit breaker, on overhead circuit breaker panel, row **C**, column **13**, and attach warning tag.



OVERHEAD CIRCUIT  
BREAKER PANEL  
(REF)

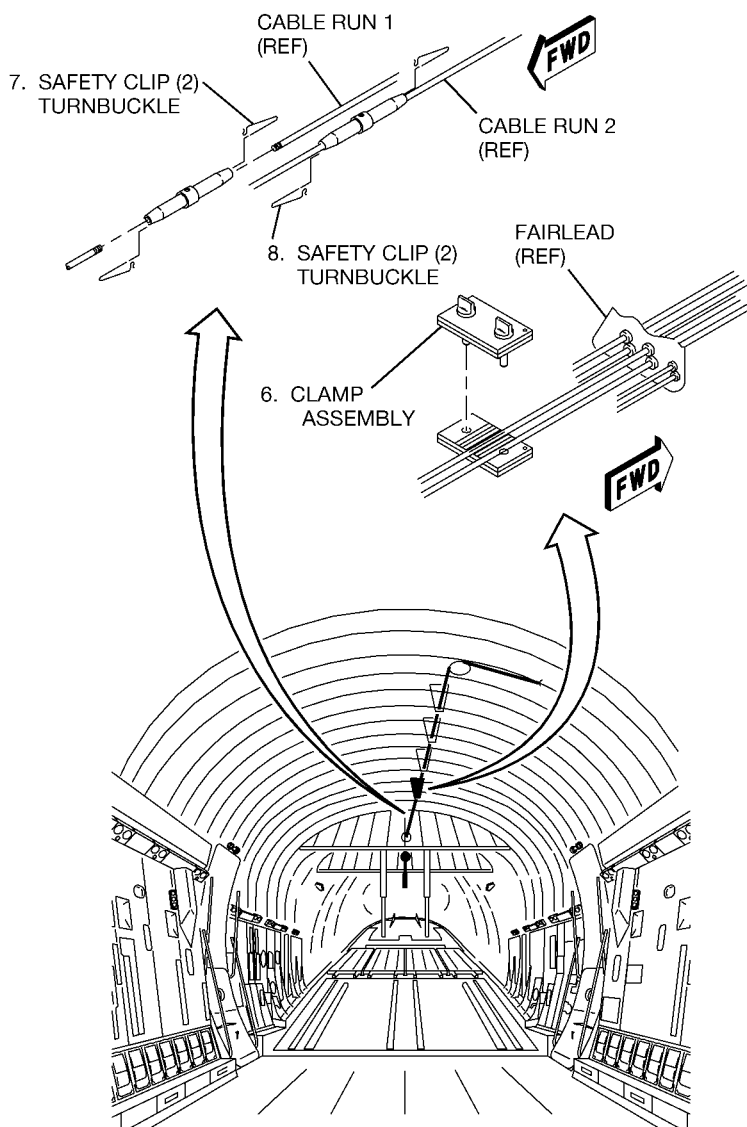
5. HYD XFER VALVE POWER



## **TO 1300i-2-27JG-20-3**

6. Install clamp assembly on cable runs 1 and 2 aft of fairlead at STA 910.
7. Remove and discard safety clips; loosen turnbuckle on cable run 1 at STA 1004.
8. Remove and discard safety clips; loosen turnbuckle on cable run 2 at STA 956.

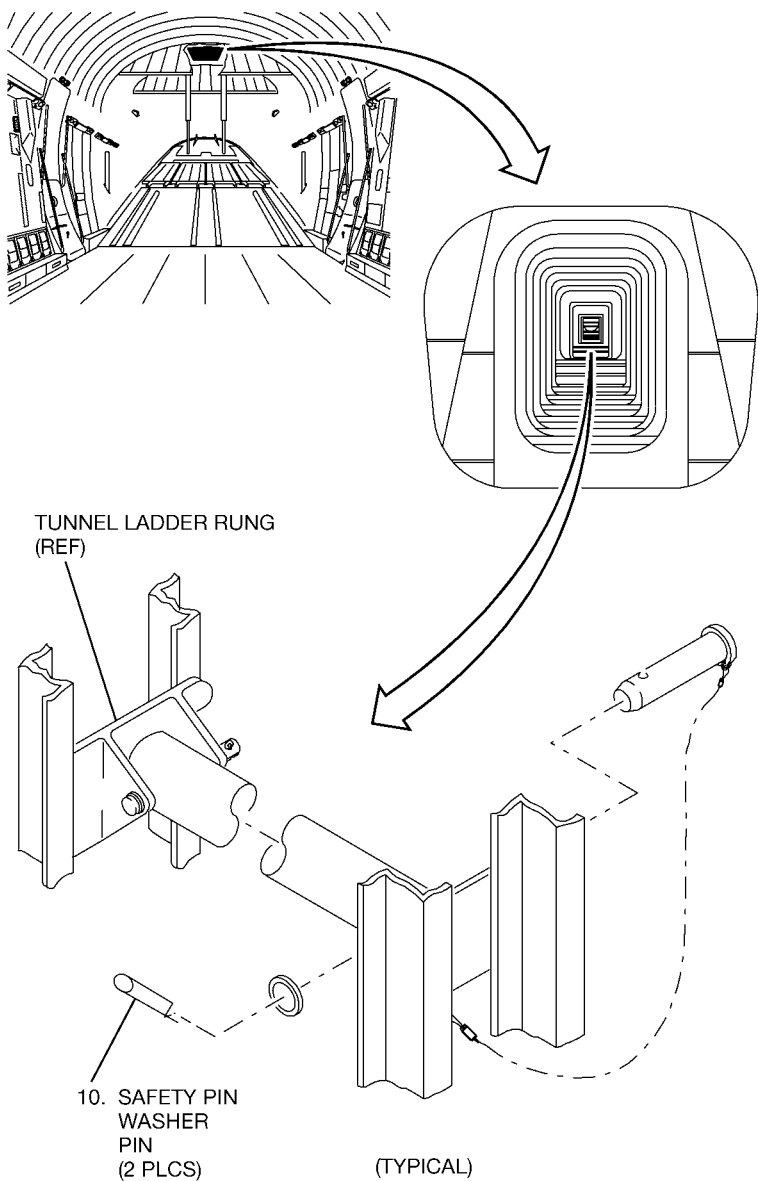




ICN-88277-G2721164-003-01

## **TO 1300i-2-27JG-20-3**

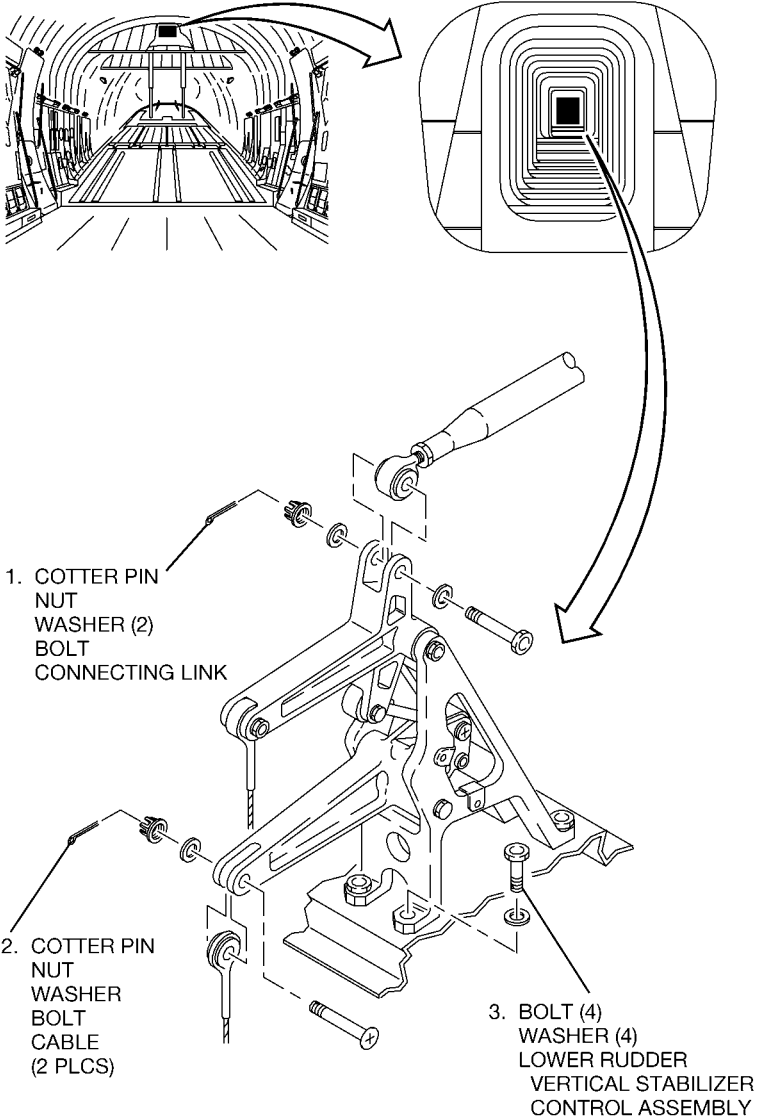
9. Enter vertical stabilizer (00-00-02, task 02-1).
10. Remove safety pins, washers, and pins from tunnel ladder rungs.



ICN-88277-G2721165-002-01

## **2-2. REMOVAL.**

1. Remove cotter pin, nut, washers, bolt and disconnect connecting link.
2. Remove cotter pins, nuts, washers, bolts, and cables.
3. Remove bolts, washers, and lower rudder vertical stabilizer control assembly.



ICN-88277-G2721166-003-01



# LOWER RUDDER VERTICAL STABILIZER CONTROL ASSEMBLY INSTALLATION (27-21-18-3)

## FUNCTIONAL INPUT CONDITIONS:

### Applicability:

All

### Task

All

### Additional information:

This procedure consists of the following tasks:

- 3-1. Installation.
- 3-2. Follow-on maintenance.

### Additional data:

TO 1300i-2-00JG-00-1

TO 1300i-2-05JG-10-1

TO 1300i-2-23JG-40-1

TO 1300i-2-27JG-20-1

TO 1300i-2-53JG-10-1

TO 1300i-23

### Task

3-2

3-2

3-2

3-2

3-2

3-1

### Personnel recommended:

One

### Task

All

**Safety conditions:**

**Task**

**WARNING**

The horizontal pressure panel access cover(s) are removed in these tasks to gain access to the cavity above. When rudder, aileron, and elevator aircraft ground safety locks are not installed, care shall be taken working around rudder, aileron, and elevator cables, pulleys, and linkage due to possible moving parts. 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>
Kit, Rig Pin	17G140015-1	--	--	--
Pin 5-5	17G140015-13	--	1	3-1, 3-2
Kit, Rig Pin	17G140185-1	--	--	--
Pin 5-12	17G140185-5	--	1	3-2
Tool, Turnbuckle Adjustment	17G140019-1	--	1	3-2

**Supplies:**

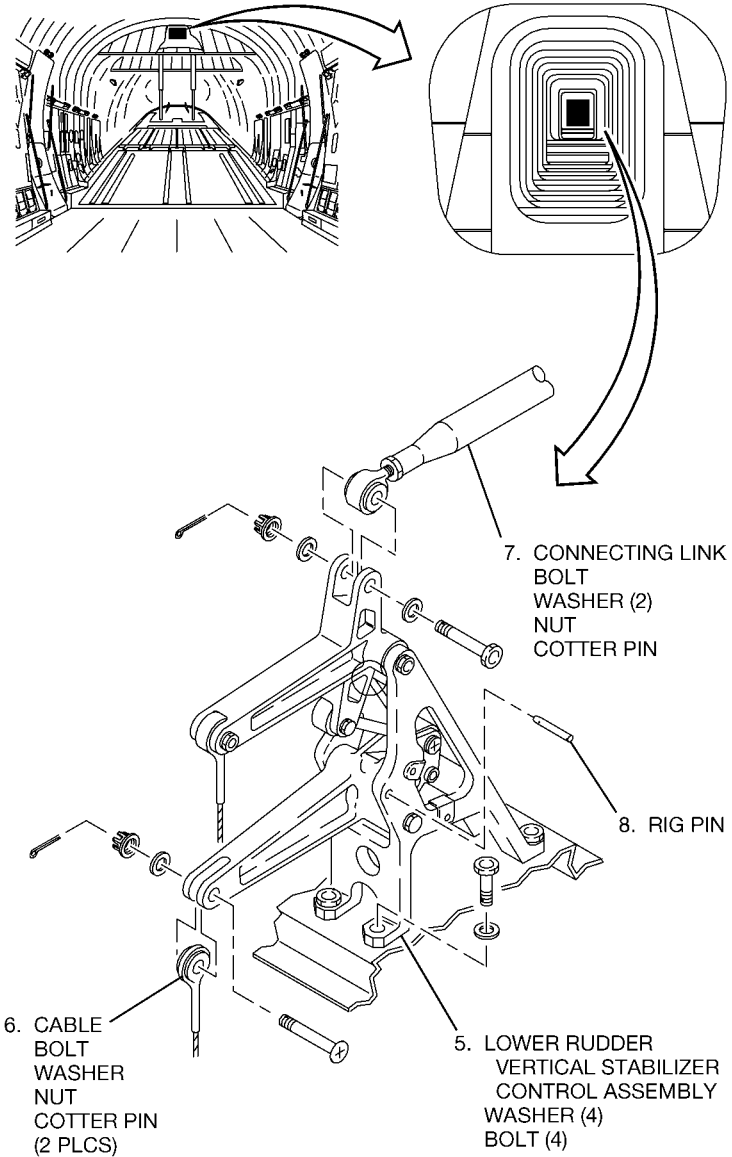
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Pin, Cotter	MS24665-151	--	3	3-1
Sealant	PR-1775 B-2	AMS 3265	AR	3-1

<u>Task</u>	<u>Qty</u>	<u>Specification</u>	<u>PN</u>	<u>Nomenclature</u>
3-1	AR	MIL-PRF-81733	--	Sealant



## **3-1. INSTALLATION.**

1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
2. Review task "Functional Input Conditions" page for task specific safety conditions.
3. Perform faying surface sealing using MIL-PRF-81733 (TO 1300i-23, Chapter 1, Section III).
4. Perform wet fastener installation using AMS 3265 (TO 1300i-23, Chapter 1, Section III).
5. Position lower rudder vertical stabilizer control assembly; install washers and bolts.
6. Position cables; install bolts, washers, nuts, and cotter pins.
7. Position connecting link; install bolt, washers, nut, and cotter pin.
8. Install rig pin 5-5 in lower rudder vertical stabilizer control assembly.



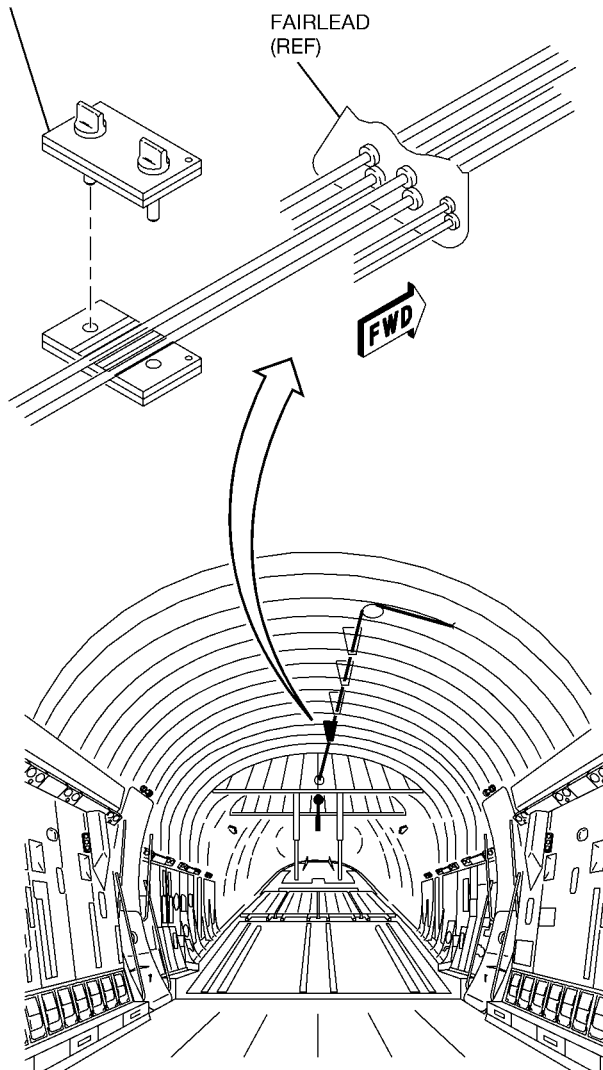
ICN-88277-G2721174-003-01

3-2. FOLLOW-ON MAINTENANCE.

- 1. Remove clamp assembly on cable runs 1 and 2 aft of fairlead at STA 910.
- 2. Remove rudder aircraft ground safety lock (05-10-01, task 01-2).
- 3. Remove horizontal pressure panel access cover assembly (53-12-10).

PANEL NO.	PANEL REF DES
112AZP	5312CA001

1. CLAMP ASSEMBLY

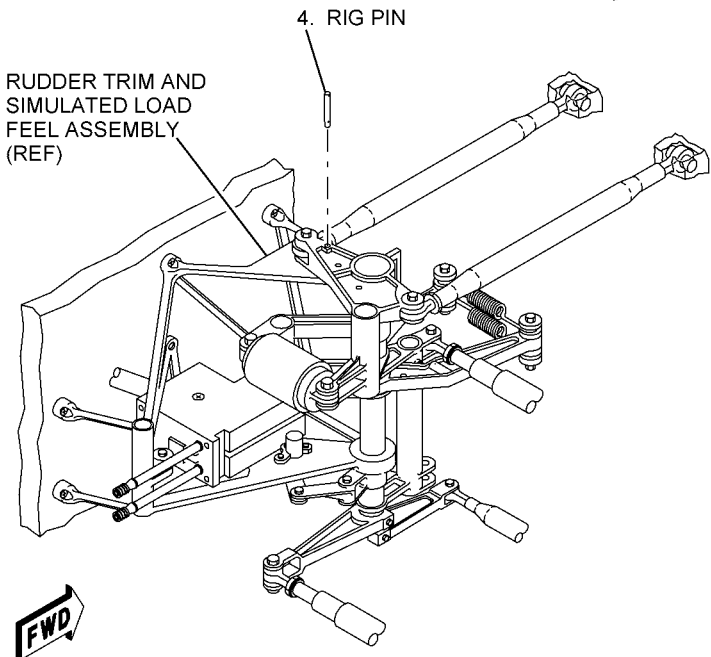
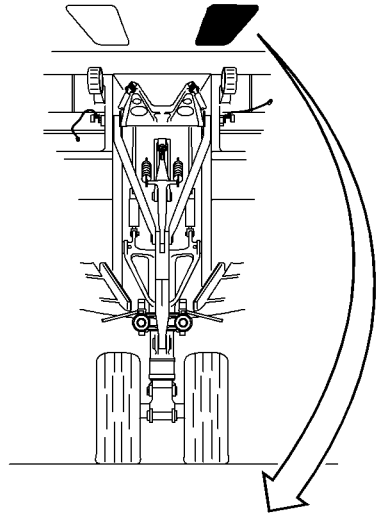


ICN-88277-G2721167-002-01

## **TO 1300i-2-27JG-20-3**

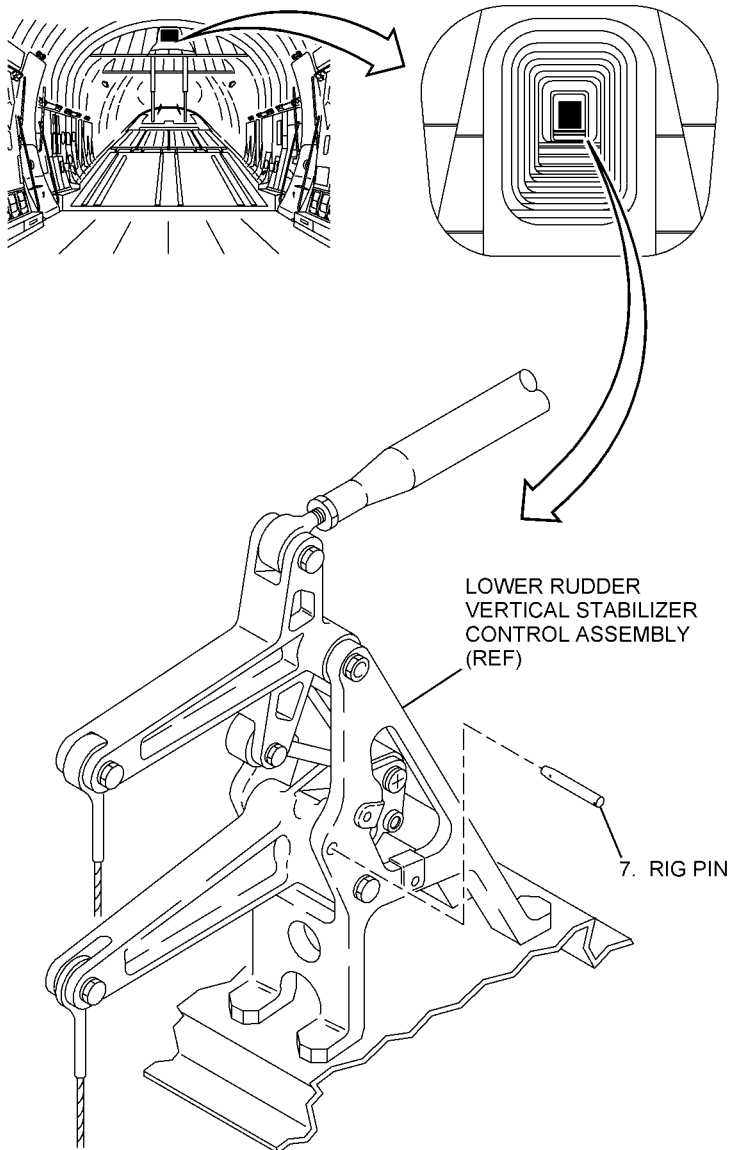
4. Install rig pin 5-12 in rudder trim and simulated load feel assembly.
5. Perform maintenance interphone operation (23-41-02, task 02-3).
6. Perform rudder controls and surfaces system adjustment (27-21-02, task 02-3).





ICN-88277-G2721170-004-01

7. Remove rig pin from lower rudder vertical stabilizer control assembly.

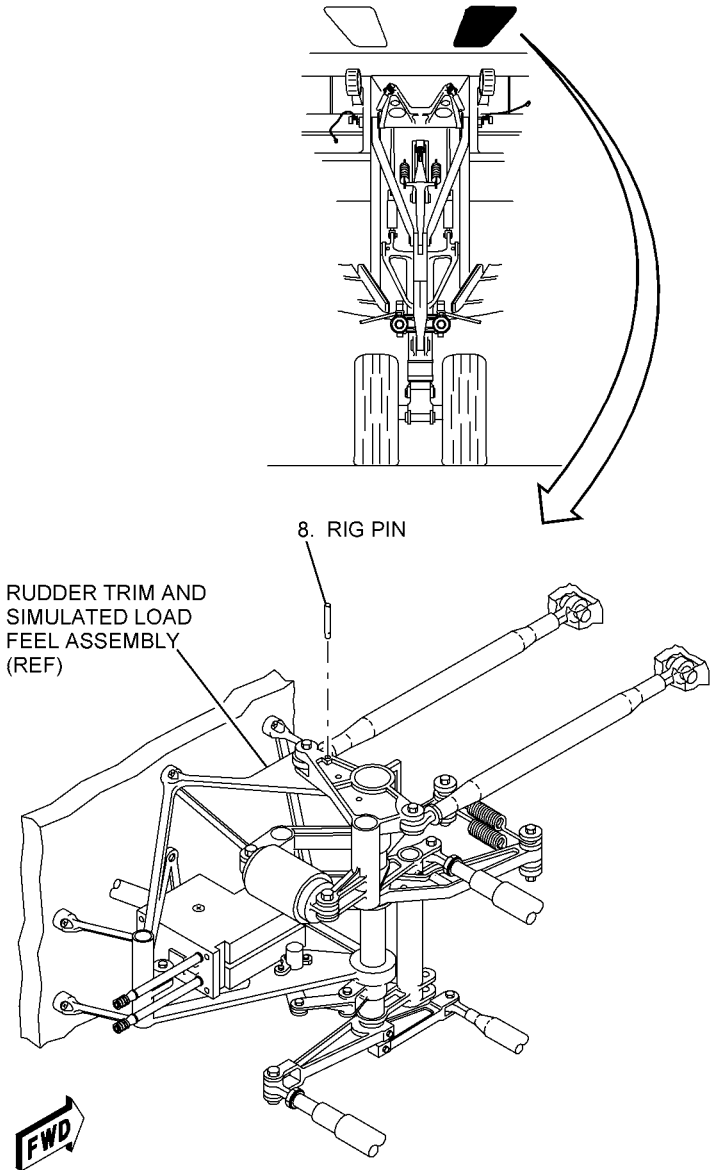


ICN-88277-G2721171-004-01

**TO 1300i-2-27JG-20-3**

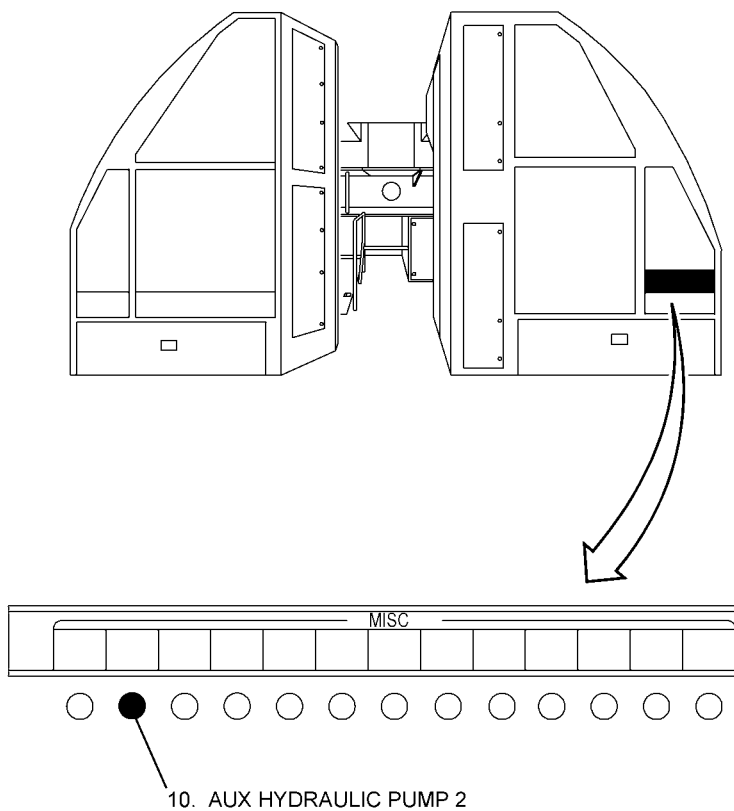
- 8. Remove rig pin from rudder trim and simulated load feel assembly.
- 9. Install horizontal pressure panel access cover assembly (53-12-10).

PANEL NO.	PANEL REF DES
112AZP	5312CA001



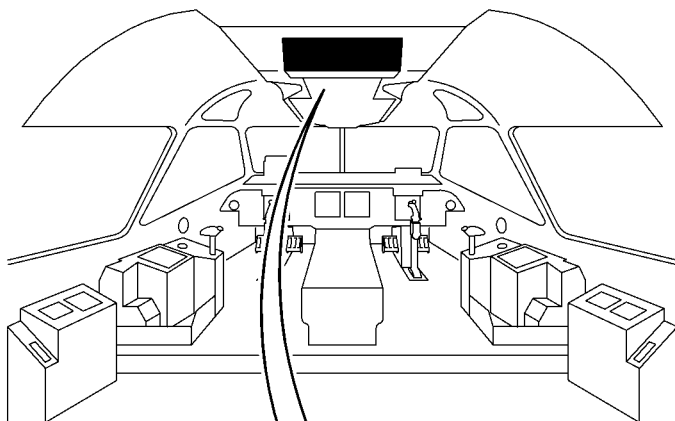
ICN-88277-G2721172-004-01

10. Remove warning tag and close **AUX HYDRAULIC PUMP 2** circuit breaker, on electrical power center, row **LL**, column **69**.



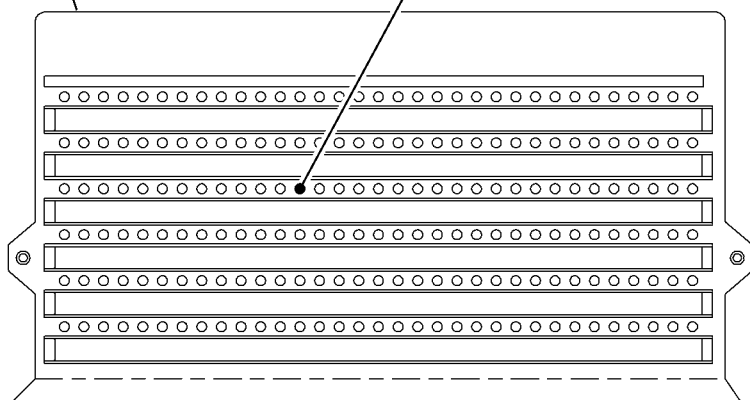
11. Remove warning tag and close **HYD XFER VALVE POWER** circuit breaker, on overhead circuit breaker panel, row **C**, column **13**.





OVERHEAD CIRCUIT  
BREAKER PANEL  
(REF)

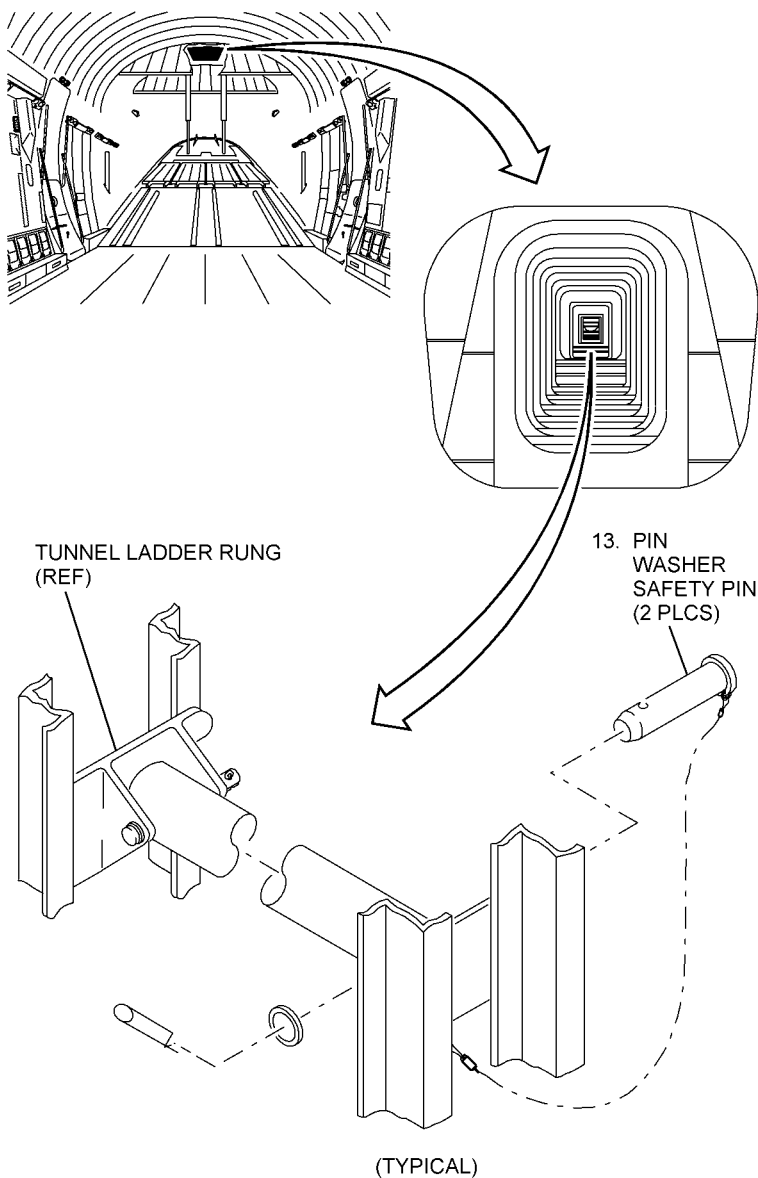
11. HYD XFER VALVE POWER



ICN-88277-G2721177-003-01

## **TO 1300i-2-27JG-20-3**

12. Perform operational checkout (27-21-01, task 01-2).
13. Install pins, washers, and safety pins attaching tunnel ladder rungs.
14. Exit vertical stabilizer (00-00-02, task 02-8).
15. Perform maintenance interphone shutdown (23-41-02, task 02-4).



ICN-88277-G2721178-003-01

