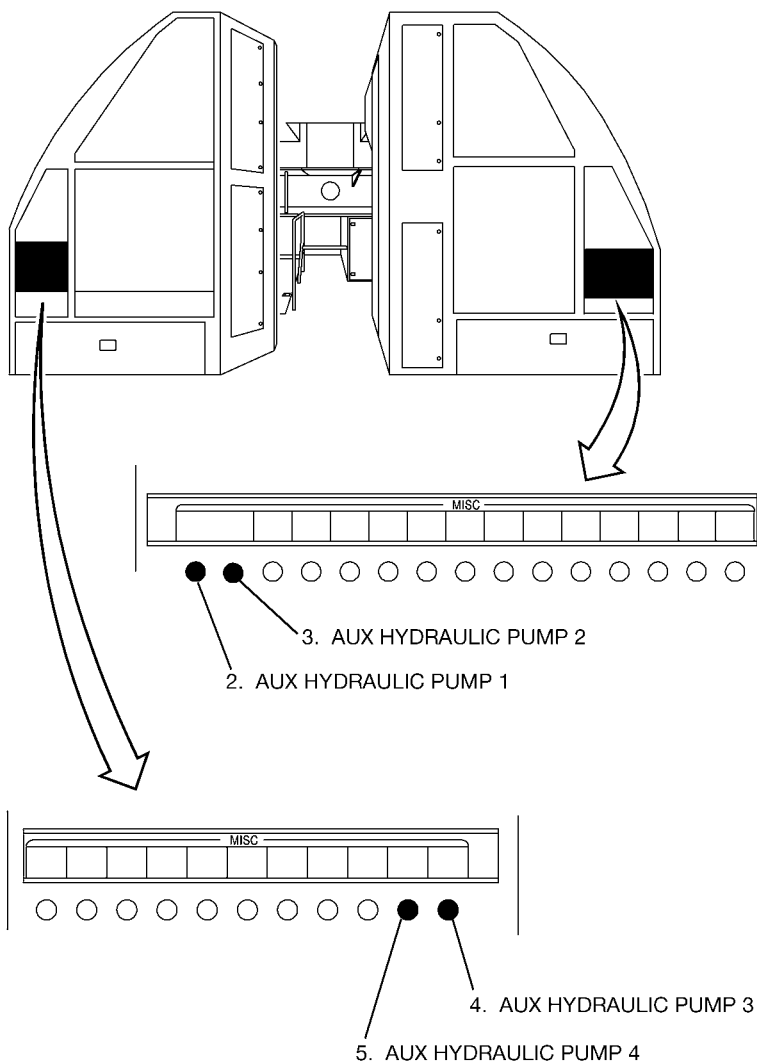


ICN-88277-G2711509-002-01

**03-5. AILERON CONTROL CABLE VALVE INPUT  
MECHANISM ASSEMBLY TO AILERON  
INTEGRATED FLIGHT CONTROL MODULE  
(IFCM) INPUT CONNECTING LINK  
ADJUSTMENT.**

1. Perform maintenance interphone operation (23-41-02, task 02-3).
2. (A) Remove warning tag and close **AUX HYDRAULIC PUMP 1** circuit breaker on Electrical Power Center (EPC), row **LL**, column **68**.
3. (A) Remove warning tag and close **AUX HYDRAULIC PUMP 2** circuit breaker on EPC, row **LL**, column **69**.
4. (A) Remove warning tag and close **AUX HYDRAULIC PUMP 3** circuit breaker on EPC, row **LL**, column **11**.
5. (A) Remove warning tag and close **AUX HYDRAULIC PUMP 4** circuit breaker on EPC, row **LL**, column **10**.
6. Operate auxiliary hydraulic system (29-20-01, task 01-1).

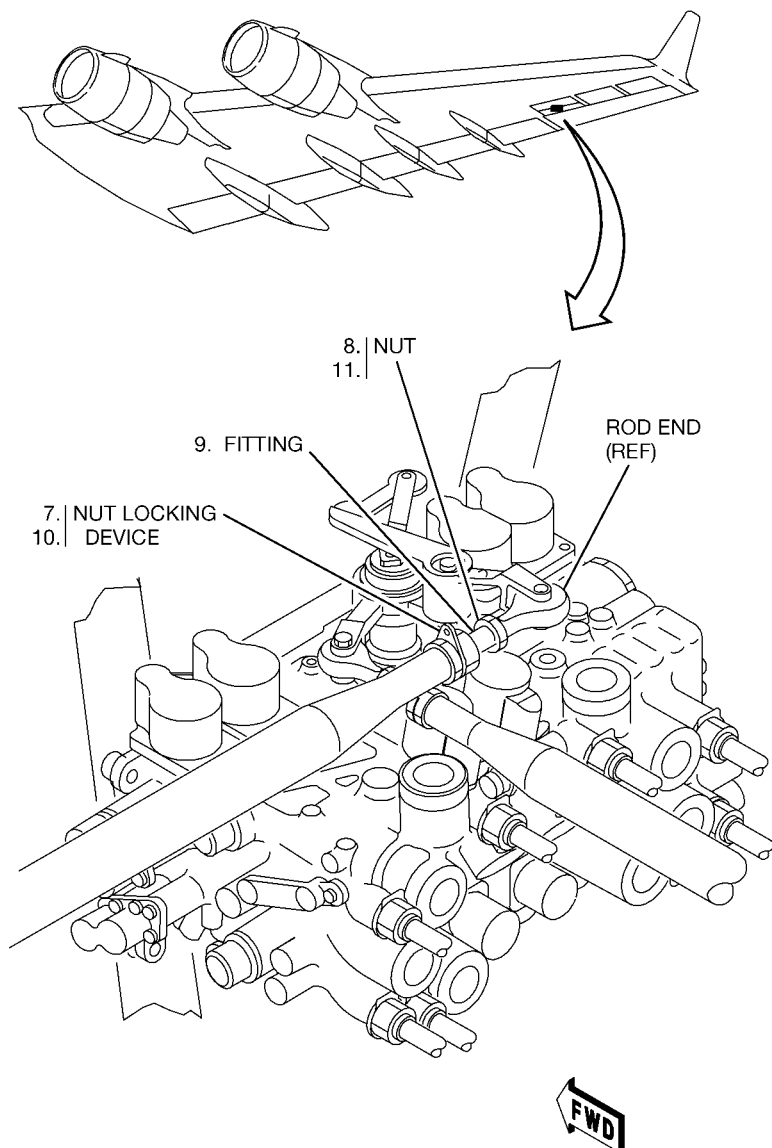


ICN-88277-G2711361-002-01

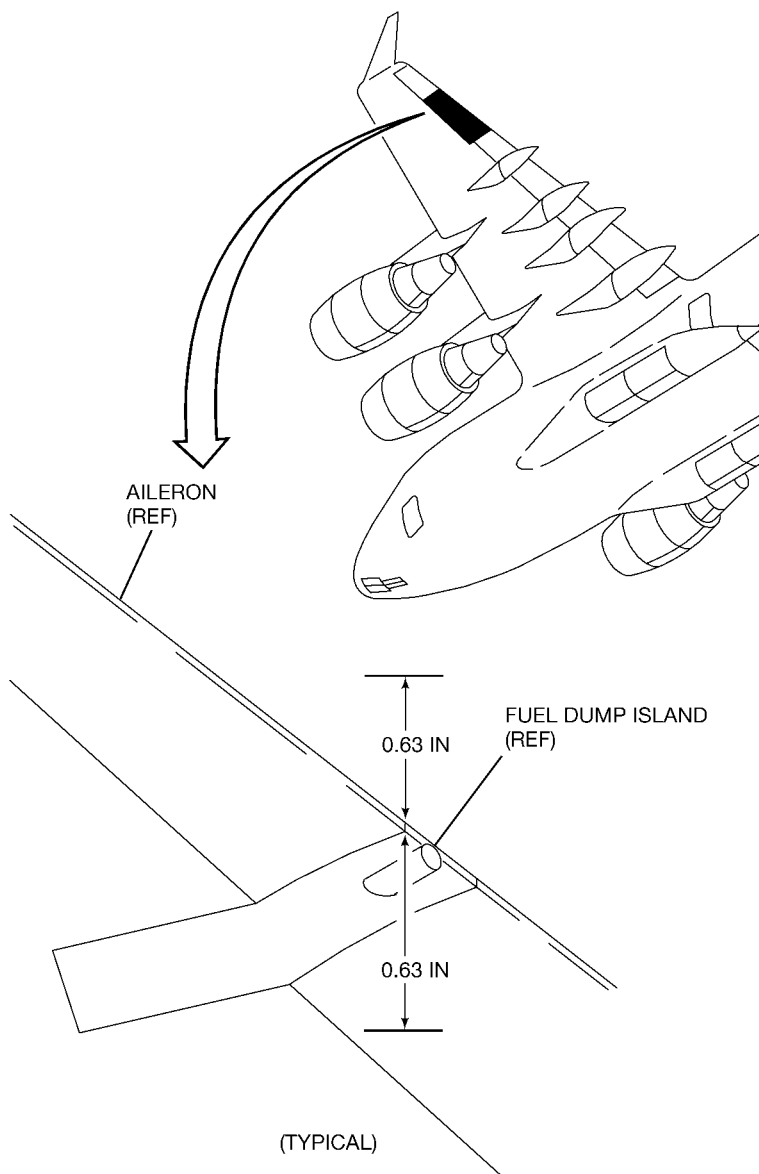
**WARNING**

The aileron connecting link shall not be disconnected to make adjustments. Adjustments must be made with the input link connected to prevent uncontrolled aileron movement. Adjustments with the link connected will still cause some movement of the flight control surface. Use extreme caution and keep flight control surfaces clear of personnel and equipment while adjusting linkage. Failure to comply may cause injury to personnel and damage to equipment.

7. (A) Remove safety wire; loosen nut locking device.
8. (A) Loosen nut on rod end.
9. (A,B) Adjust fitting until inboard trailing edge of aileron is within 0.63 inches above or below trailing edge of fuel dump island.
10. (A) Position nut locking device and tighten; secure with safety wire.
11. (A) Tighten nut.



ICN-88277-G2711362-005-01



ICN-88277-G2711366-001-01

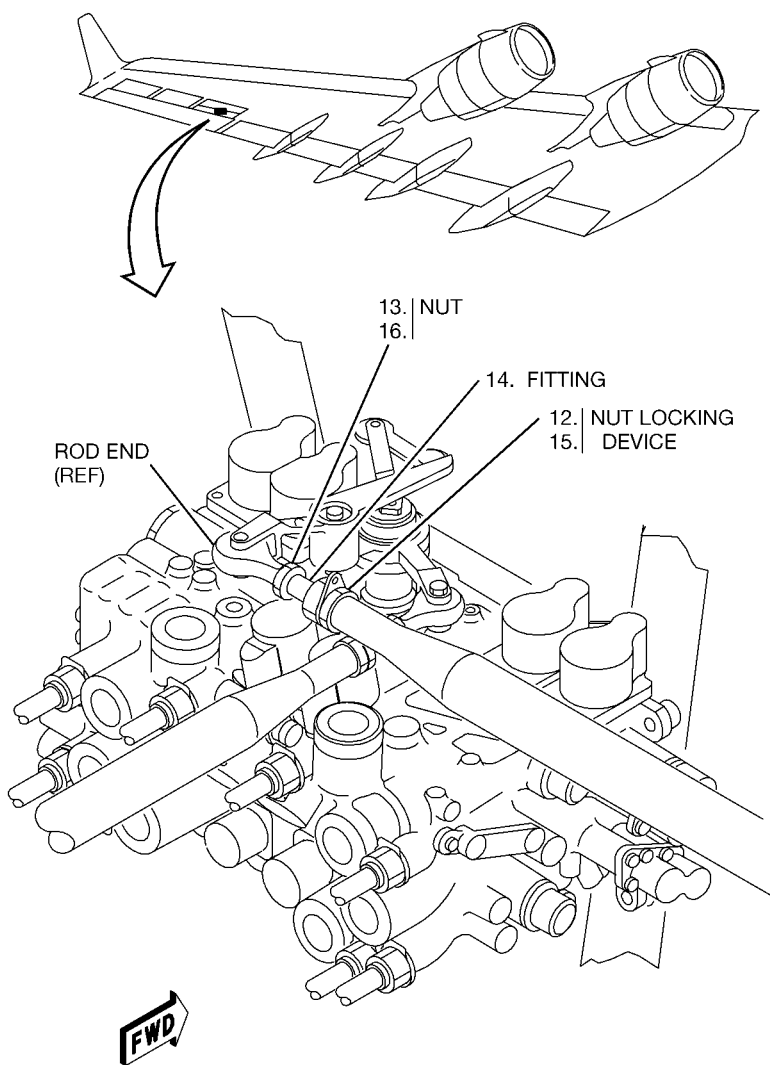


**WARNING**

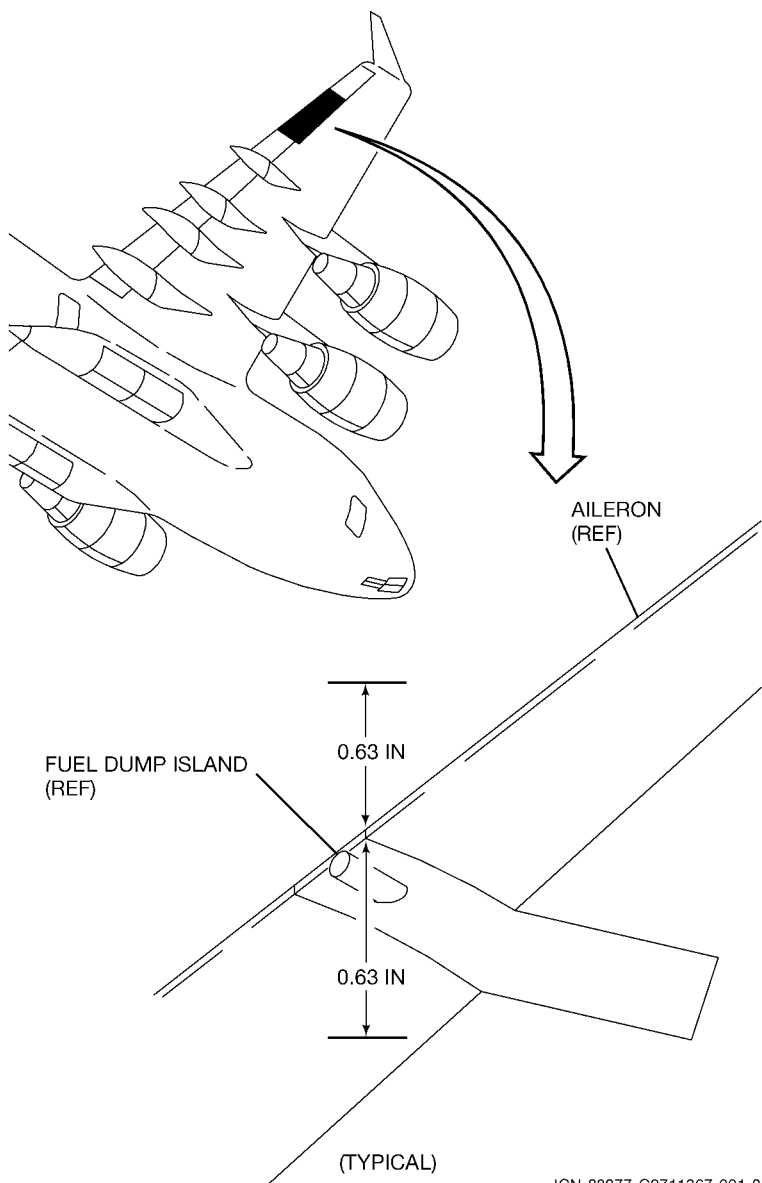
The aileron connecting link shall not be disconnected to make adjustments. Adjustments must be made with the input link connected to prevent uncontrolled aileron movement. Adjustments with the link connected will still cause some movement of the flight control surface. Use extreme caution and keep flight control surfaces clear of personnel and equipment while adjusting linkage. Failure to comply may cause injury to personnel and damage to equipment.

12. (A) Remove safety wire; loosen nut locking device.
13. (A) Loosen nut on rod end.
14. (A,B) Adjust fitting until inboard trailing edge of aileron is within 0.63 inches above or below trailing edge of fuel dump island.
15. (A) Position nut locking device and tighten; secure with safety wire.
16. (A) Tighten nut.
17. Perform maintenance interphone shutdown (23-41-02, task 02-4).
18. Shutdown auxiliary hydraulic system (29-20-01, task 01-2).





ICN-88277-G2711365-005-01

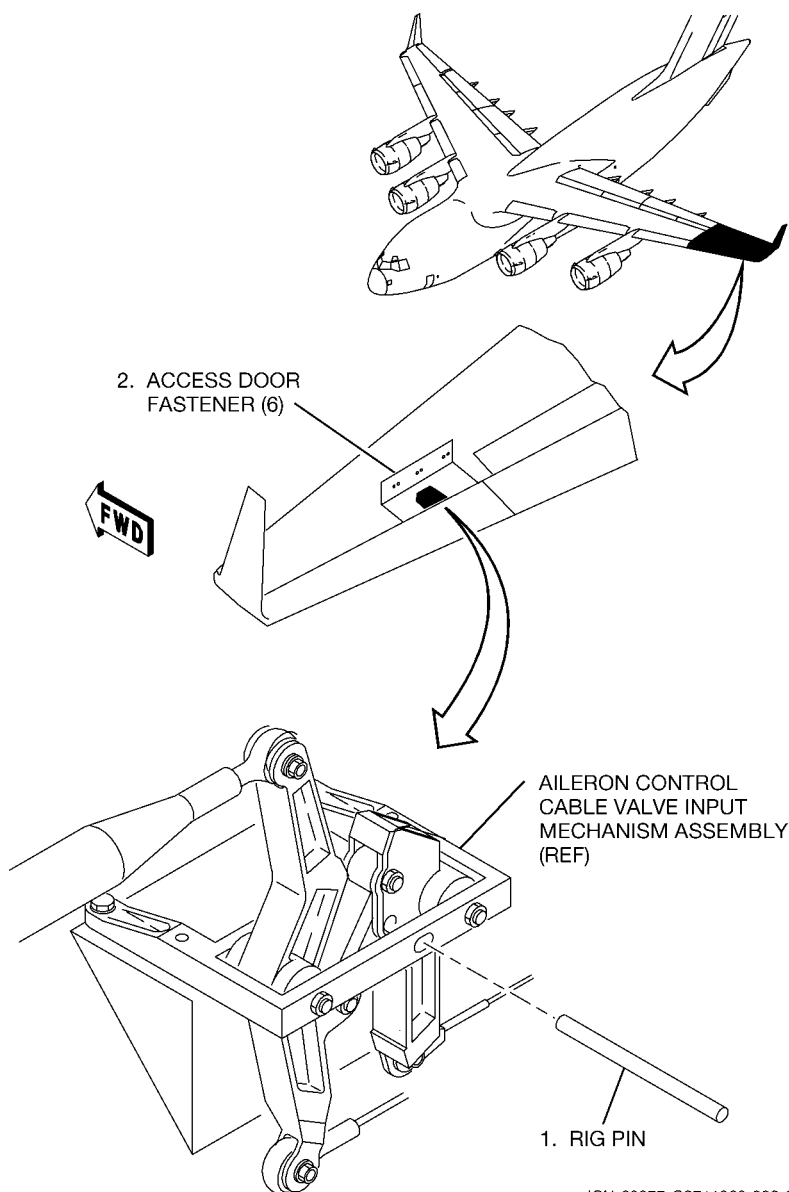


ICN-88277-G2711367-001-01



**03-6. FOLLOW-ON MAINTENANCE FOR TASKS  
03-2 THRU 03-5.**

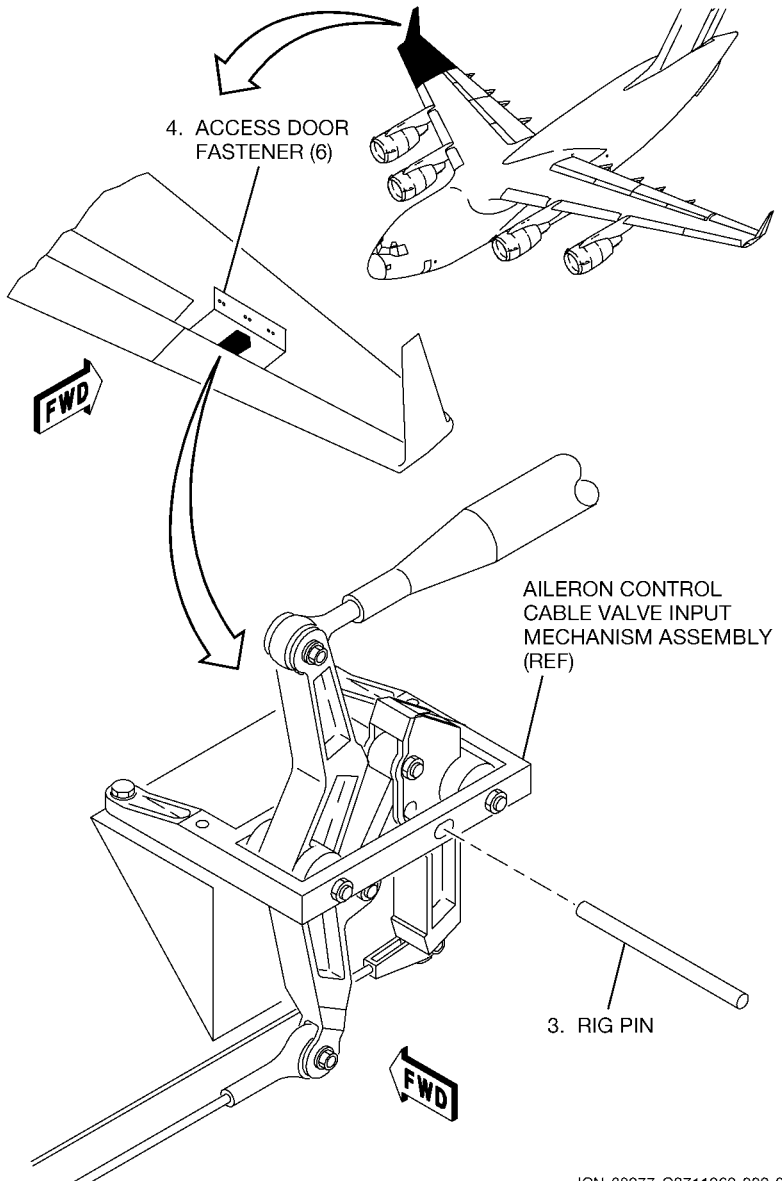
1. Remove rig pin 5-5 in left aileron control cable valve input mechanism assembly.
2. Close access door (566ATD), and tighten fasteners.



ICN-88277-G2711368-002-01

## **TO 1300i-2-27JG-10-2**

3. Remove rig pin 5-5 in right aileron control cable valve input mechanism assembly.
4. Close access door (666ATD), and tighten fasteners.



ICN-88277-G2711369-002-01

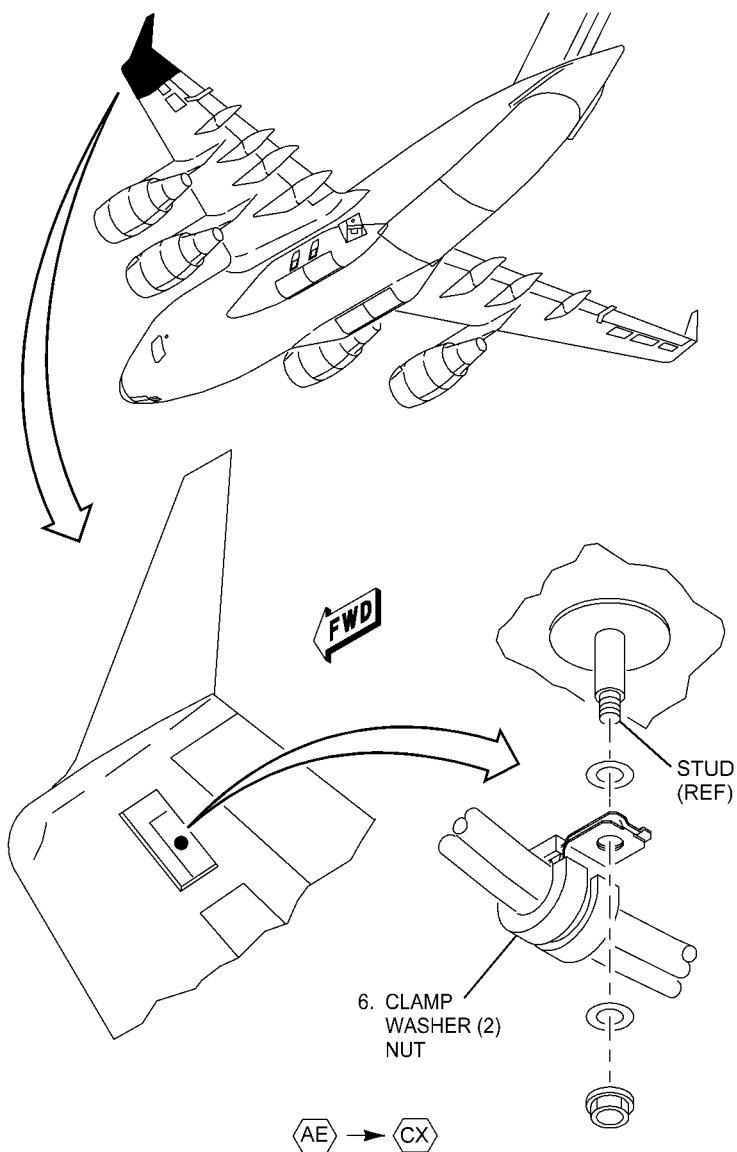
TO 1300i-2-27JG-10-2

- 5. <AA> → <AD> No action required.
- 5. <AE> → <CX> Raise lower wing fixed trailing edge door assemblies (57-54-01).

DOOR REF DES	DOOR ID
5754CA025	566BBD
5754CA040	666BBD

- 5. <CY> → No action required.
- 6. <AA> → <AD> No action required.
- 6. <AE> → <CX> Install washer on stud; position clamp, and install washer and nut; tighten nut.
- 6. <CY> → No action required.





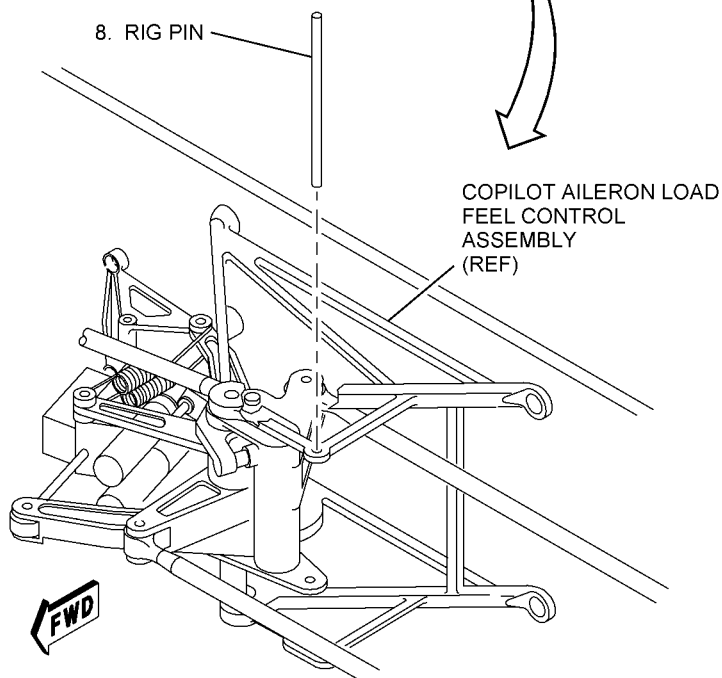
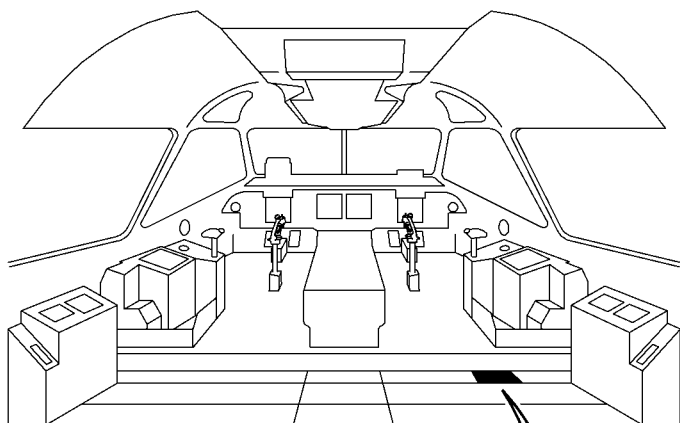
ICN-88277-G2711467-003-01

**TO 1300i-2-27JG-10-2**

7. Install horizontal pressure panel access cover assemblies (53-12-10).

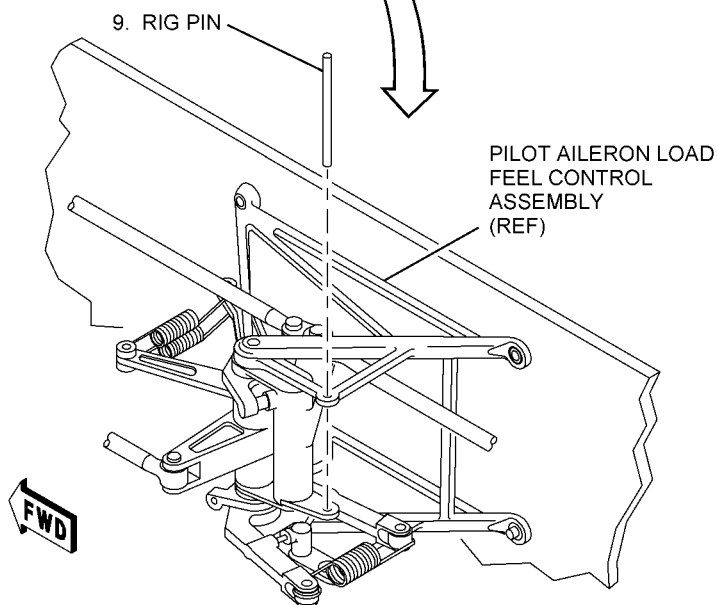
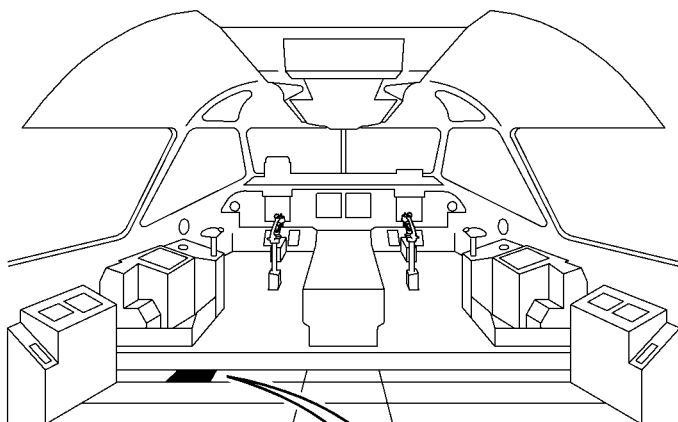
PANEL NO.	PANEL REF DES
112AZP	5312CA001
112BZP	5312CA002

8. Remove rig pin 5-10 in copilot aileron load feel control assembly.



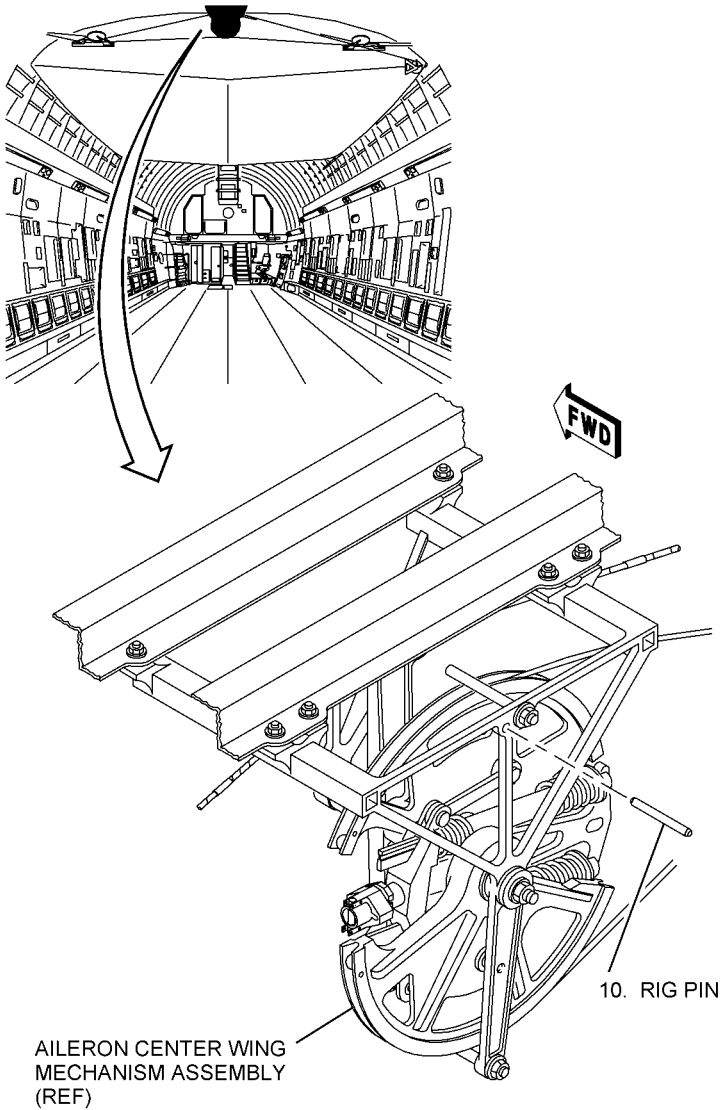
ICN-88277-G2711372-004-01

9. Remove rig pin 5-10 in pilot aileron load feel control assembly.



ICN-88277-G2711376-004-01

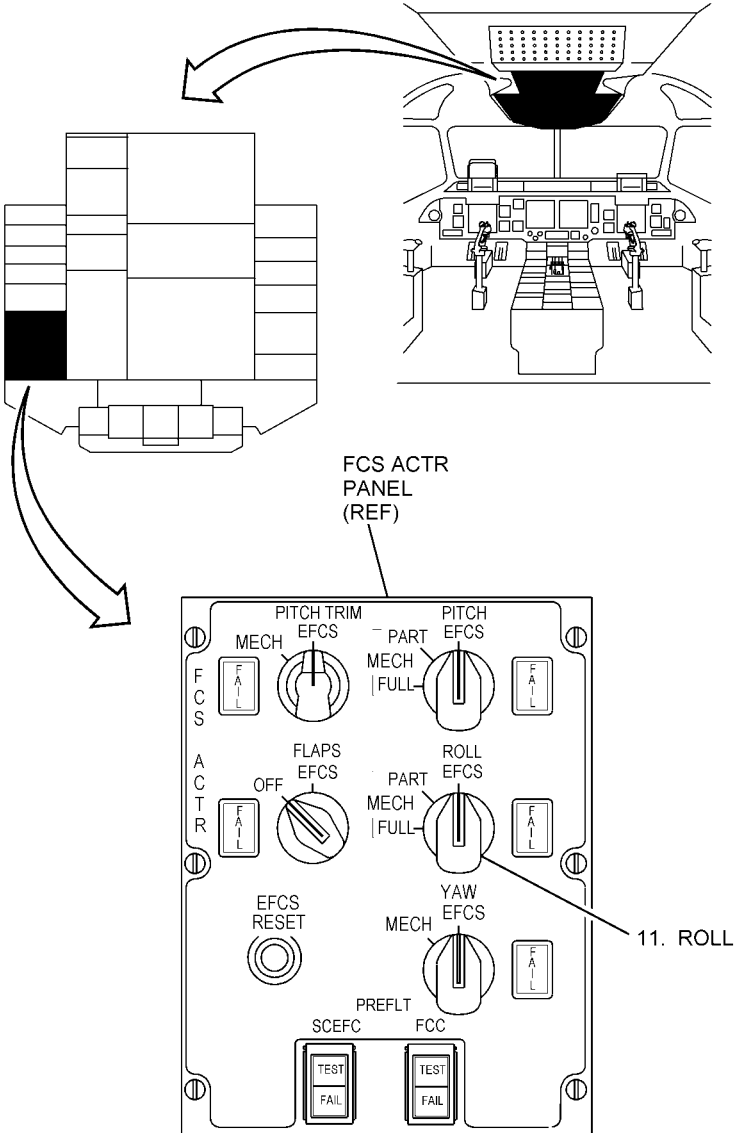
10. Remove rig pin 5-8 in aileron center wing mechanism assembly.



ICN-88277-G2711373-005-01

11. Remove warning tag and set **ROLL** switch on **FCS ACTR** panel to **EFCS**.

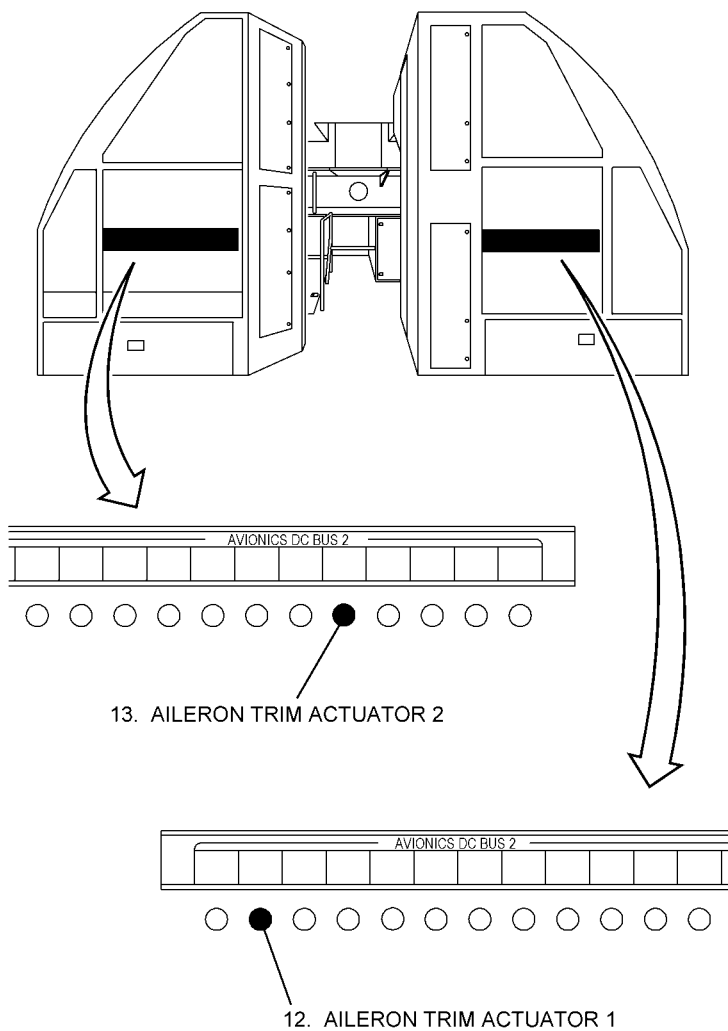




ICN-88277-G2711374-003-01

## **TO 1300i-2-27JG-10-2**

12. Remove warning tag and close **AILERON TRIM ACTUATOR 1** circuit breaker on Electrical Power Center (EPC), row **U**, column **41**.
13. Remove warning tag and close **AILERON TRIM ACTUATOR 2** circuit breaker on EPC, row **U**, column **36**.
14. Install upper crew compartment floor panels (215BZY, 216BZY, and 217AZY) (53-21-10).
15. Perform aileron mechanical controls and surfaces system operational checkout (27-11-01, task 01-1).



ICN-88277-G2711375-004-01

## 03-7. PREPARATION FOR TASKS 03-8 AND 03-9.

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).

### **WARNING**

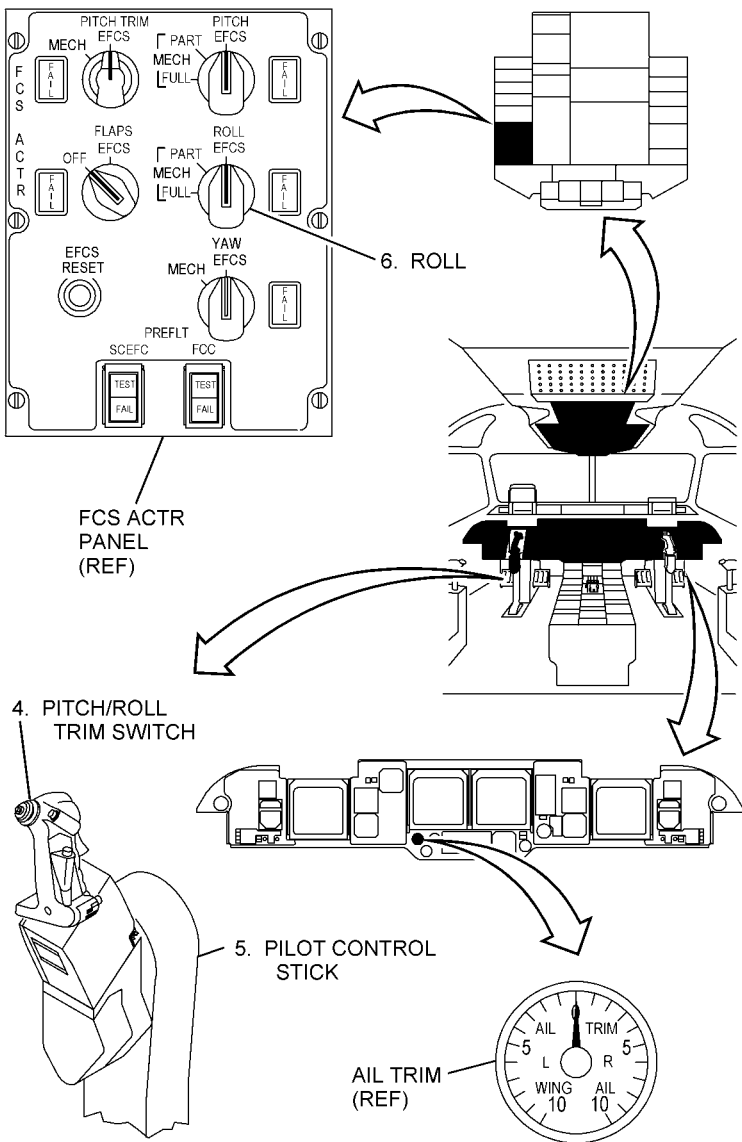
All flight control surfaces shall be clear of personnel and equipment prior to any movement of the surfaces. Failure to comply may cause injury to personnel or damage to aircraft.

4. Press and hold pitch/roll trim switch on pilot control stick until **AIL TRIM** position indicator reads 0 degrees.

### **NOTE**

One full aileron cycle is defined as aileron left, aileron right, and neutral.

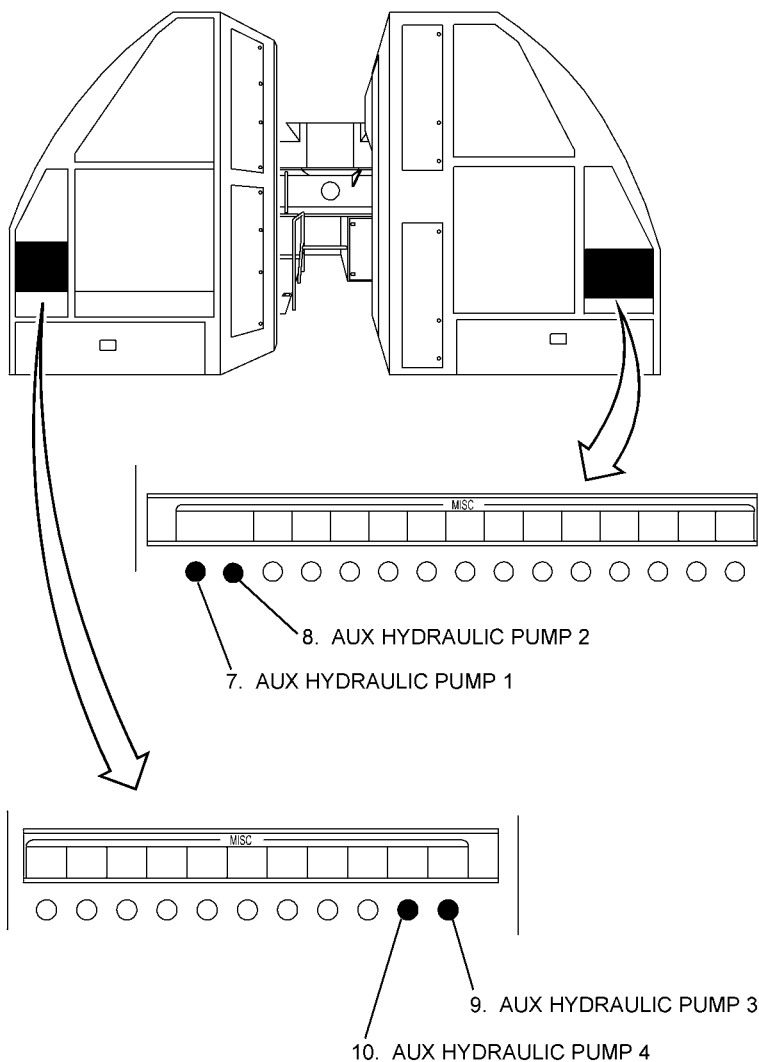
5. Operate pilot control stick through three full cycles.
6. Set **ROLL** switch on **FCS ACTR** panel to **PART MECH** and attach warning tag.



ICN-88277-G2711510-004-01

## **TO 1300i-2-27JG-10-2**

7. Open **AUX HYDRAULIC PUMP 1** circuit breaker on Electrical Power Center (EPC), row **LL**, column **68**, and attach warning tag.
8. Open **AUX HYDRAULIC PUMP 2** circuit breaker on EPC, row **LL**, column **69**, and attach warning tag.
9. Open **AUX HYDRAULIC PUMP 3** circuit breaker on EPC, row **LL**, column **11**, and attach warning tag.
10. Open **AUX HYDRAULIC PUMP 4** circuit breaker on EPC, row **LL**, column **10**, and attach warning tag.

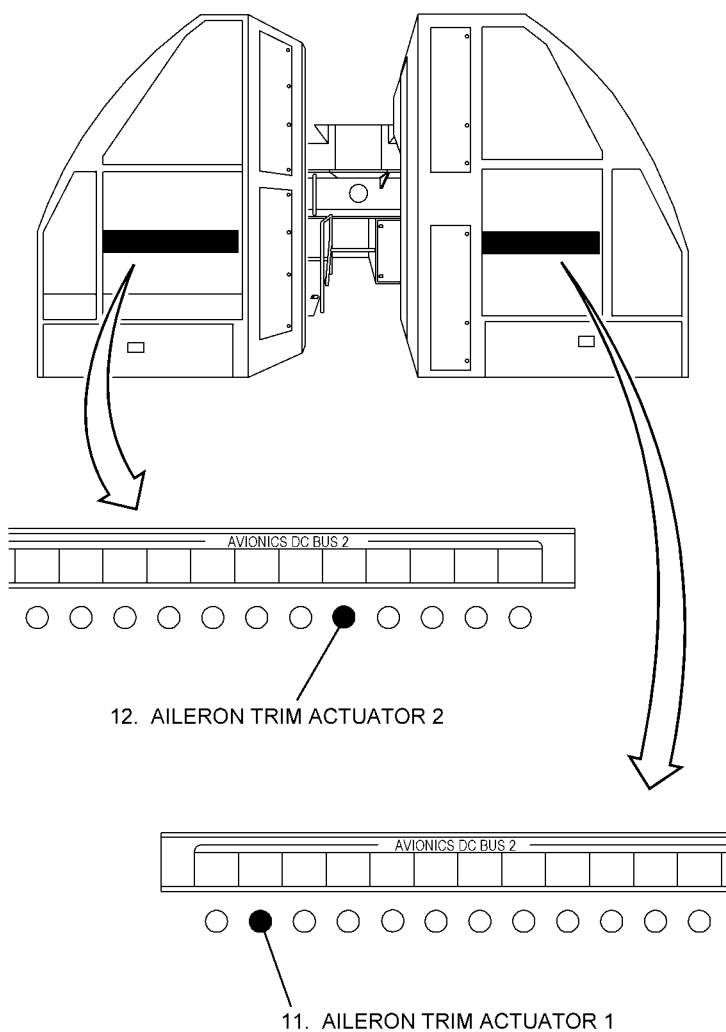


ICN-88277-G2711511-003-01

## **TO 1300i-2-27JG-10-2**

11. Open **AILERON TRIM ACTUATOR 1** circuit breaker on EPC, row **U**, column **41**, and attach warning tag.
12. Open **AILERON TRIM ACTUATOR 2** circuit breaker on EPC, row **U**, column **36**, and attach warning tag.

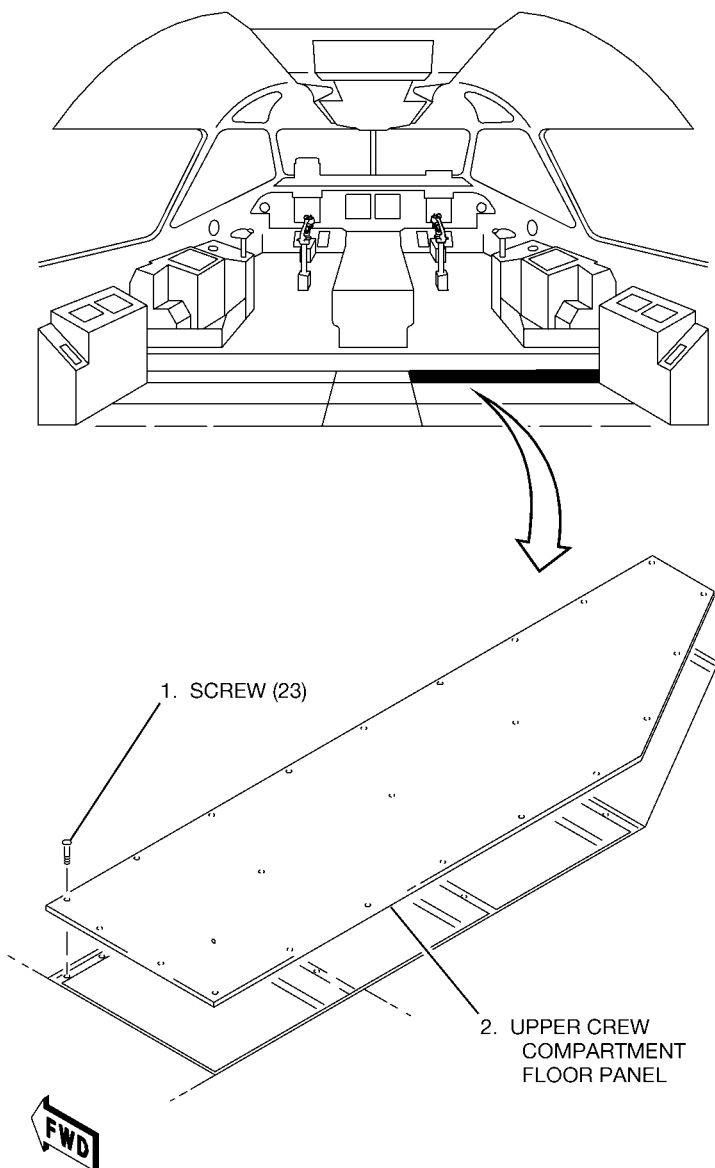




ICN-88277-G2711555-002-01

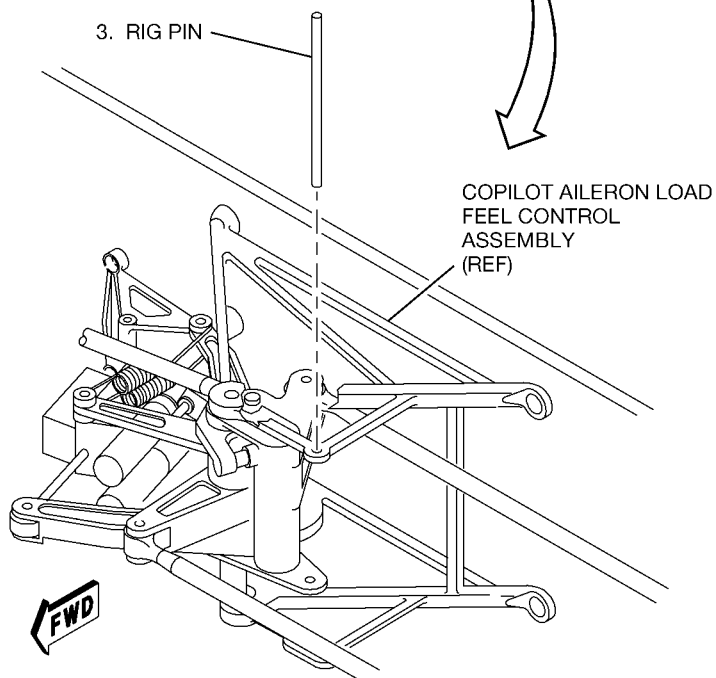
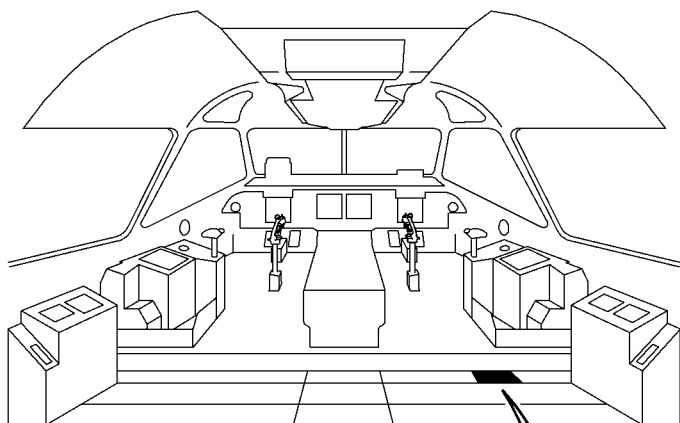
**03-8. CABLE TENSION REGULATOR READING  
AND VERIFICATION FOR CABLE RUNS 9  
AND 10.**

1. (A) Remove screws from upper crew compartment floor panel (216BZY).
2. (A) Remove upper crew compartment floor panel.



ICN-88277-G2711514-002-01

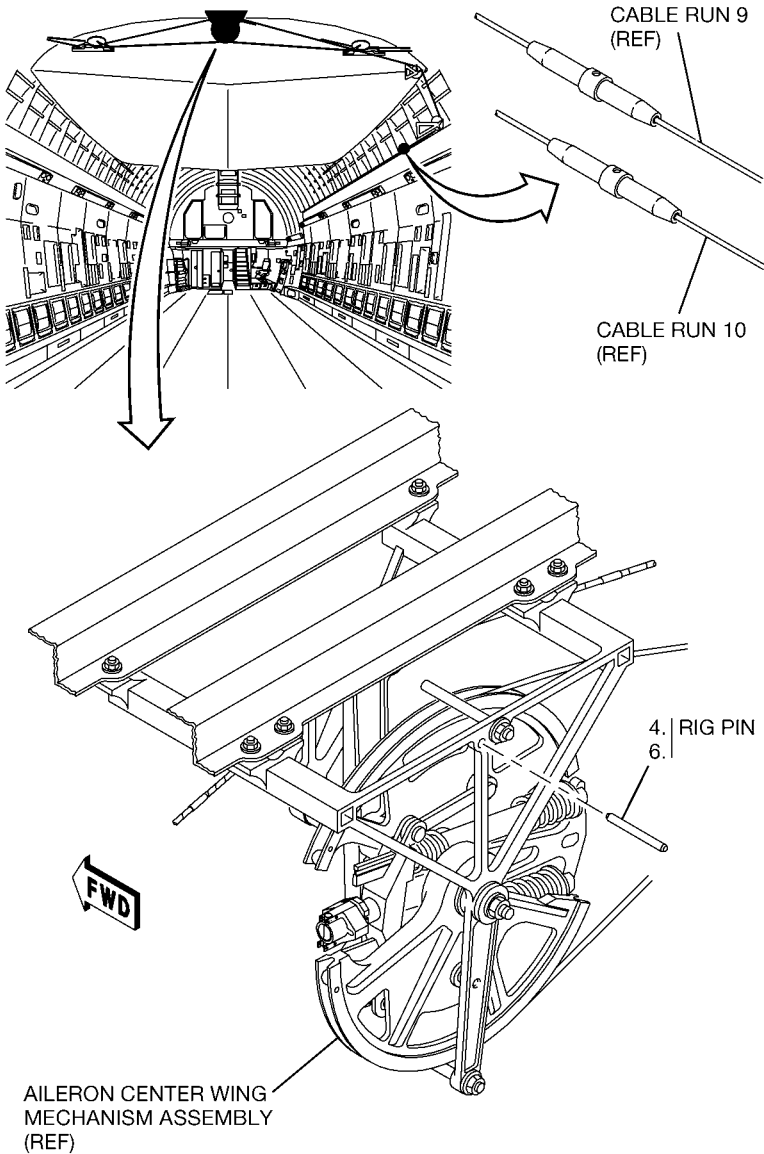
3. (A) Install rig pin 5-10 in copilot aileron load feel control assembly.



ICN-88277-G2711515-002-01

## **TO 1300i-2-27JG-10-2**

4. (A) Install rig pin 5-8 in aileron center wing mechanism assembly.
5. (A,B) Observe cable tension regulator for correct cable tension (Para 1-14); verify rig pin 5-8 for binding.
  - Cable tension regulator does not measure within limits, or rig pin does not move freely; perform tasks 03-1, 03-3, and 03-6.
6. (A) Remove rig pin 5-8 from aileron center wing mechanism assembly.

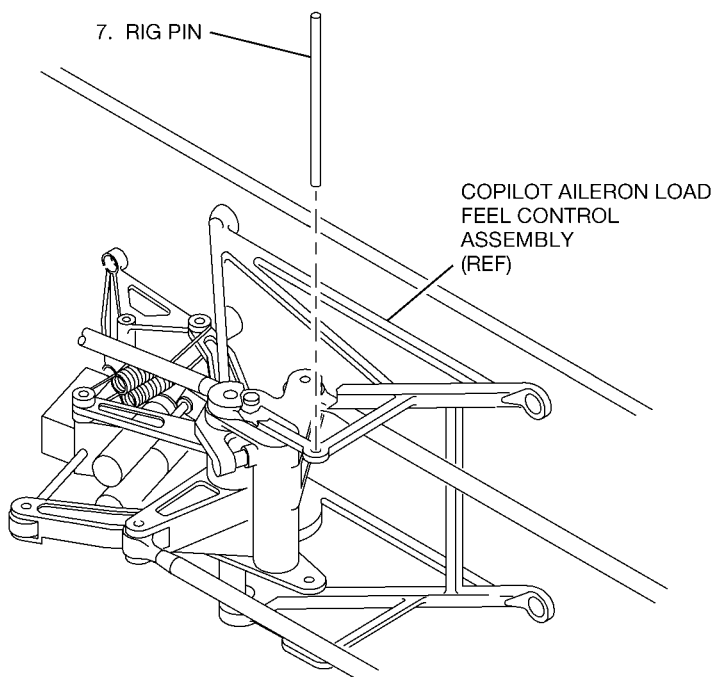


ICN-88277-G2711491-002-01

## **TO 1300i-2-27JG-10-2**

7. (A) Remove rig pin 5-10 from copilot aileron load feel control assembly.
8. Install upper crew compartment floor panel (216BZY) (53-21-10).





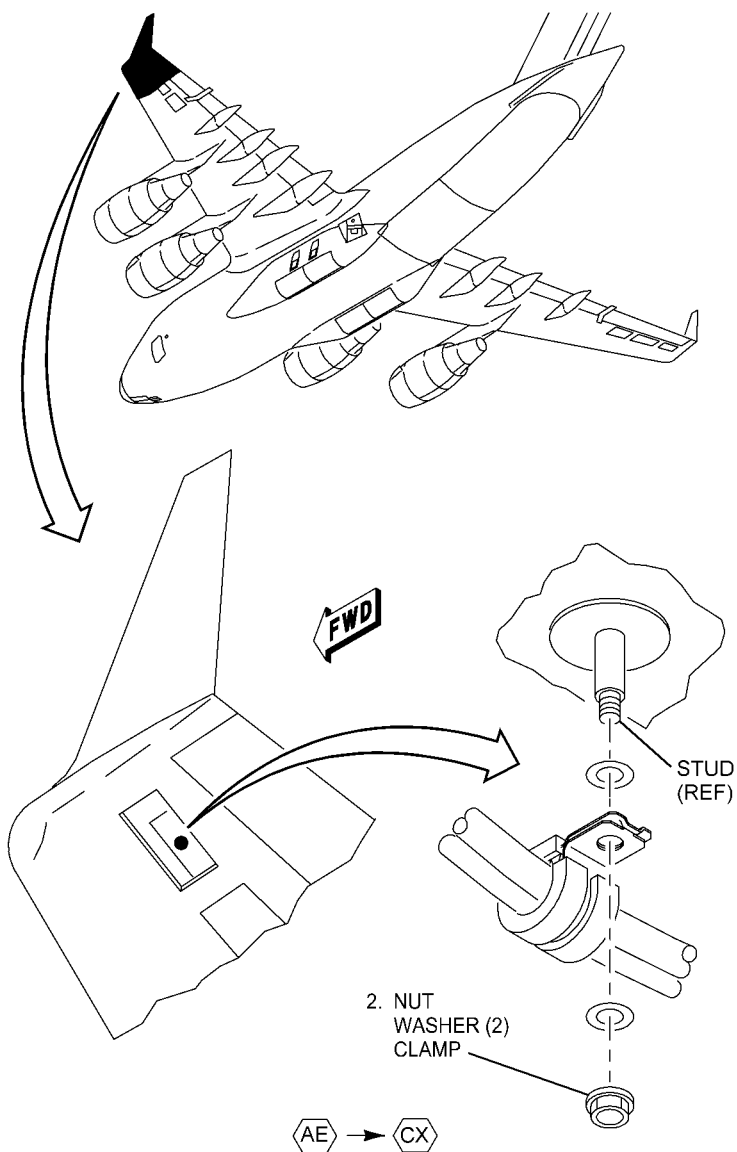
ICN-88277-G2711516-002-01

03-9. CABLE TENSION REGULATOR READING  
AND VERIFICATION FOR CABLE RUNS 11,  
12, 13, AND 14.

- 1. <AA> → <AD> No action required.
- 1. <AE> → <CX> Lower lower wing fixed trailing edge door assemblies (57-54-01).

DOOR REF DES	DOOR ID
5754CA025	566BBD
5754CA040	666BBD

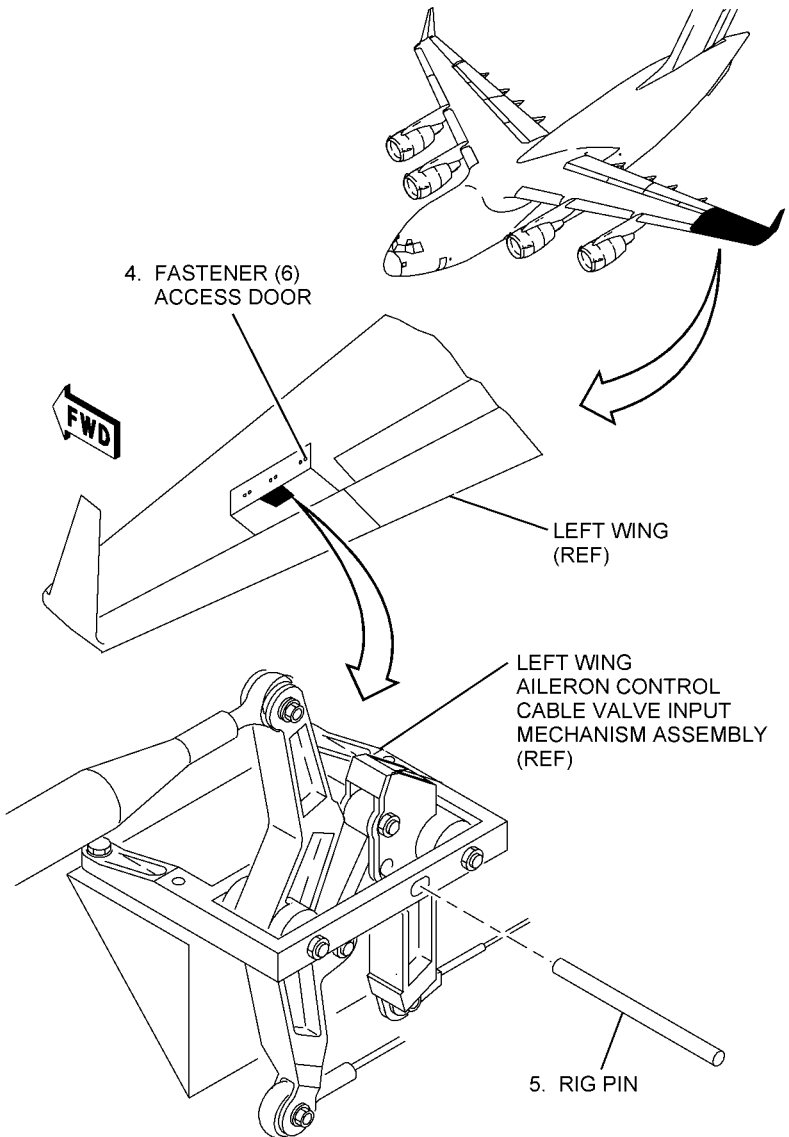
- 1. <CY> → No action required.
- 2. <AA> → <AD> No action required.
- 2. <AE> → <CX> (A) Remove nut, washers, and clamp from stud.
- 2. <CY> → No action required.



ICN-88277-G2711523-003-01

## **TO 1300i-2-27JG-10-2**

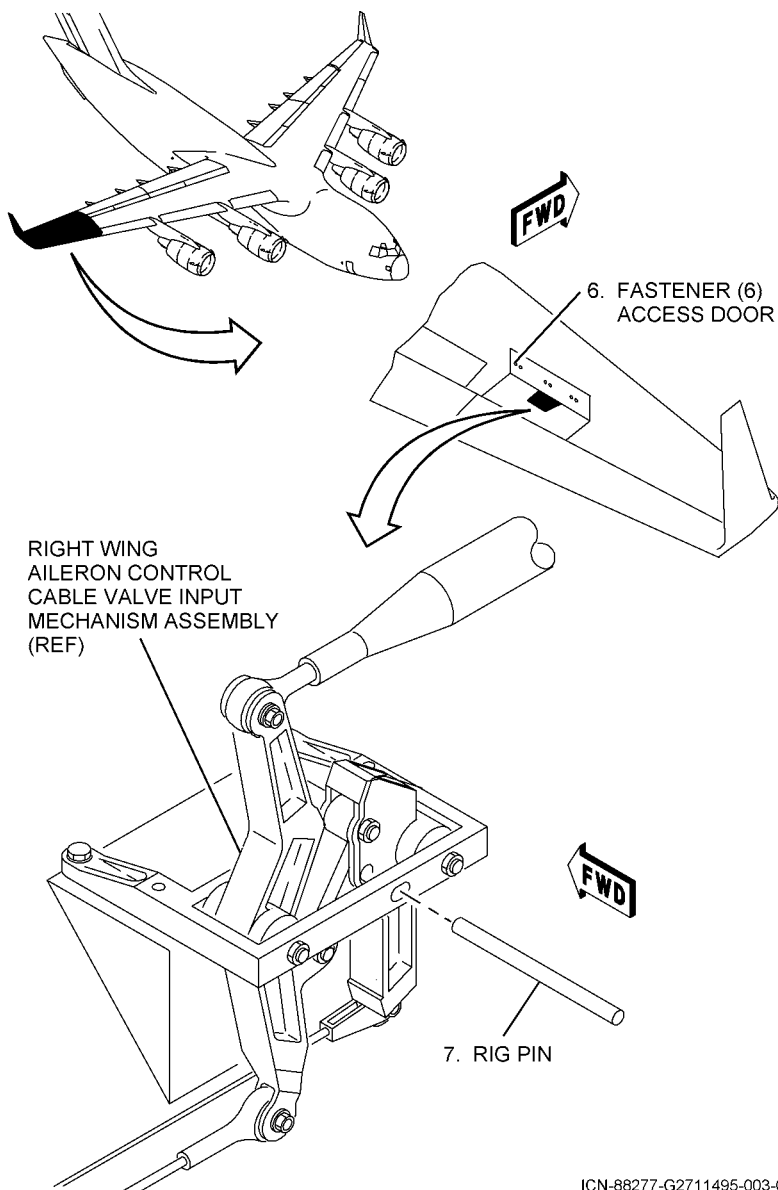
3. Enter fuselage and wing (00-00-01).
4. (A) Loosen fasteners and open left wing upper access door (566ATD).
5. (A) Install rig pin 5-5 in left wing aileron control cable valve input mechanism assembly.



ICN-88277-G2711492-003-01

## **TO 1300i-2-27JG-10-2**

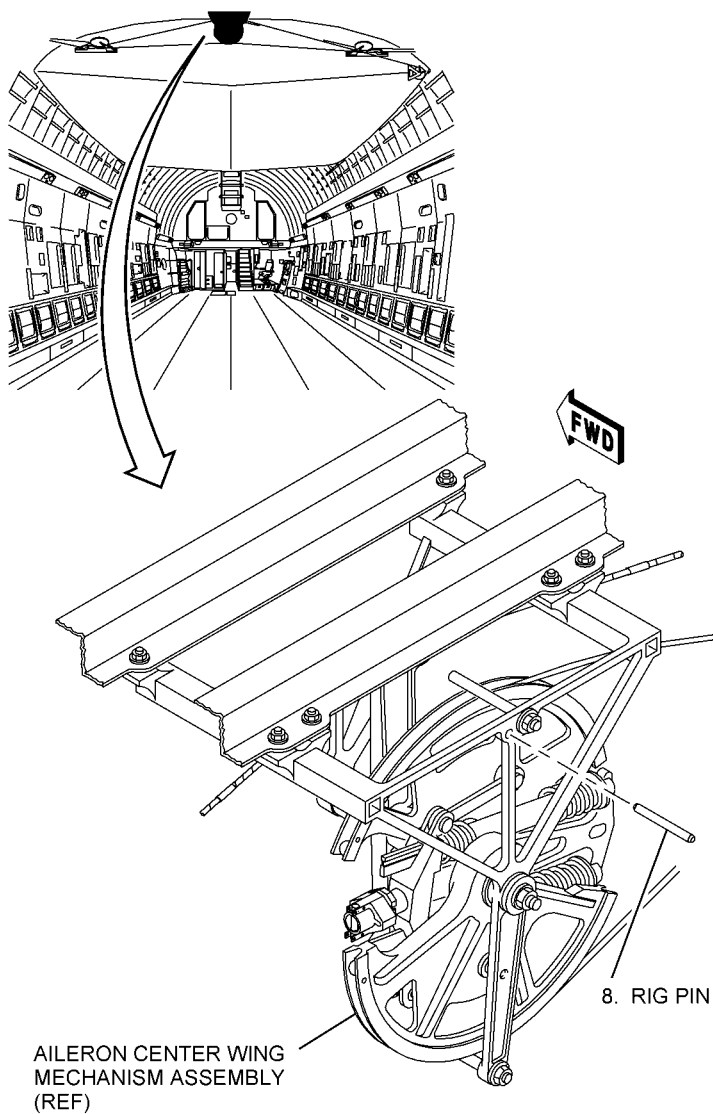
6. (A) Loosen fasteners and open right wing upper access door (666ATD).
7. (A) Install rig pin 5-5 in right wing aileron control cable valve input mechanism assembly.



ICN-88277-G2711495-003-01

8. (A) Install rig pin 5-8 in aileron center wing mechanism assembly.

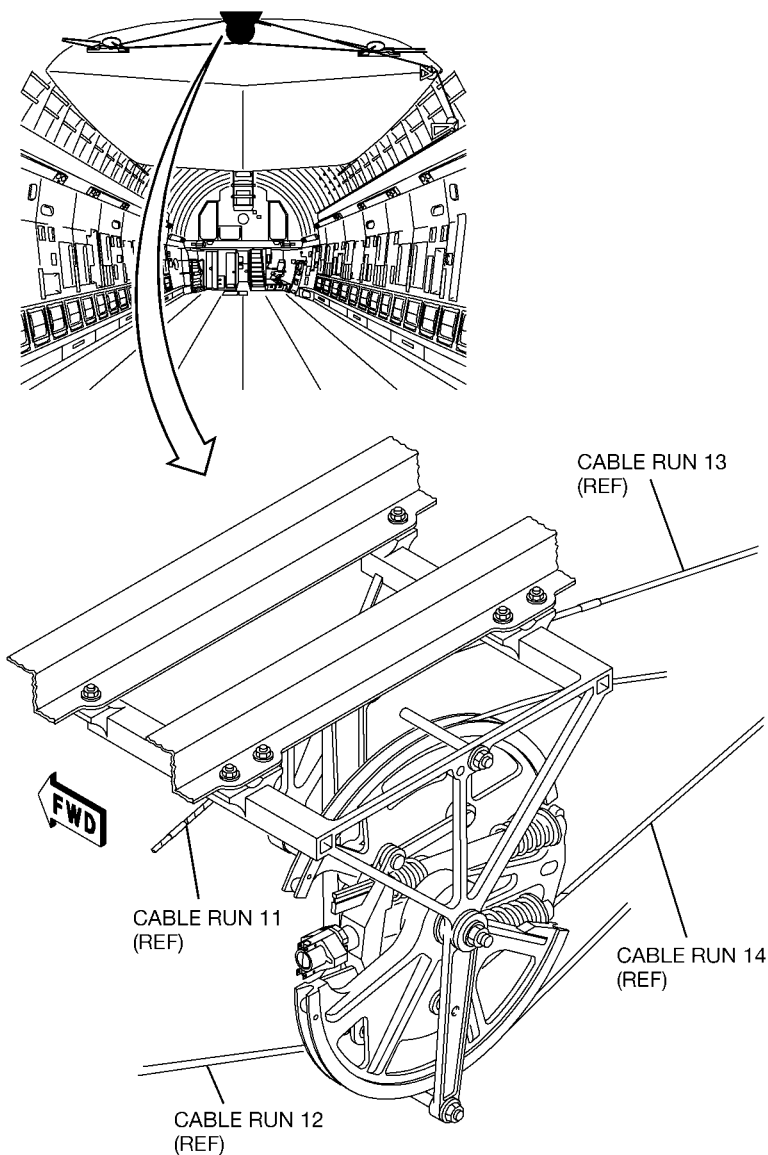




ICN-88277-G2711520-003-01

## **TO 1300i-2-27JG-10-2**

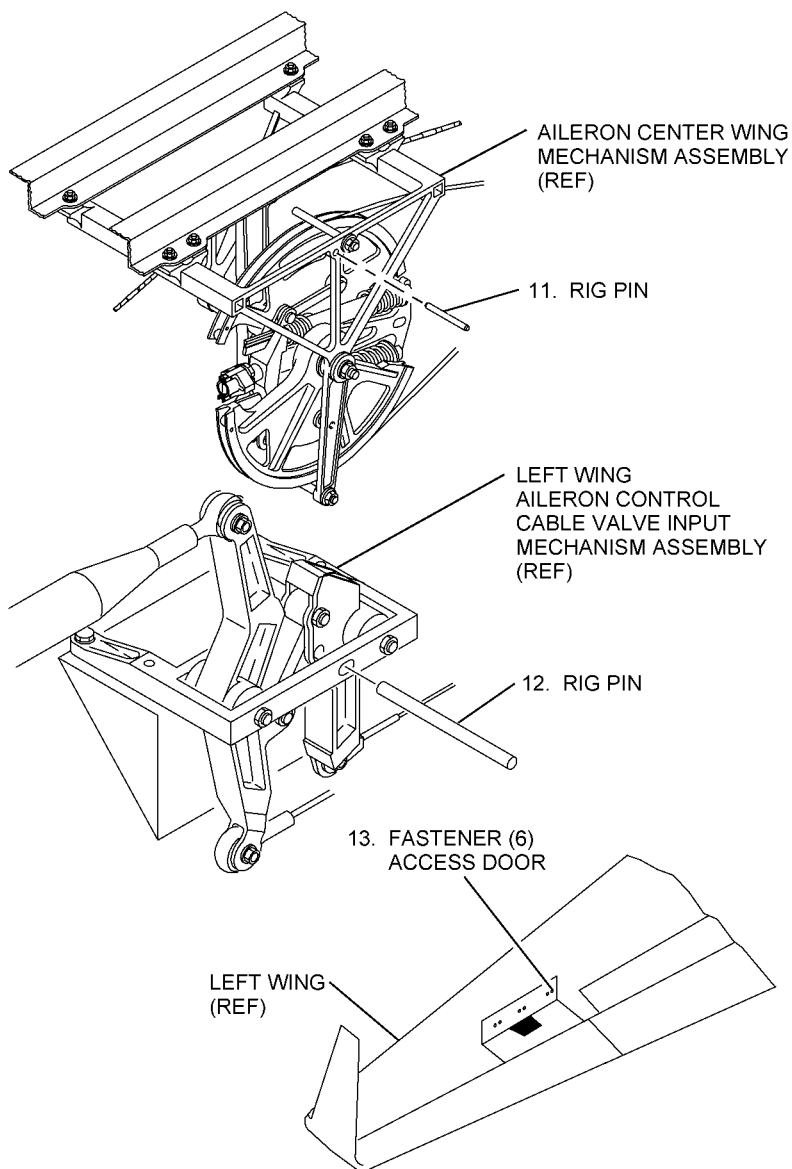
9. (A,B) Perform initial cable tension check (Para 1-9) for cable runs 11 and 12, 1/8 inch cable - 35 lb load rig; verify rig pin for binding.
  - Cable tension does not measure within 35 lb load rig, or rig pin does not move freely; perform tasks 03-1, 03-4, and 03-6.
10. (A,B) Perform initial cable tension check (Para 1-9) for cable runs 13 and 14, 1/8 inch cable - 35 lb load rig; verify rig pin for binding.
  - Cable tension does not measure within 35 lb load rig, or rig pin does not move freely; perform tasks 03-1, 03-4, and 03-6.



ICN-88277-G2711496-002-01

## **TO 1300i-2-27JG-10-2**

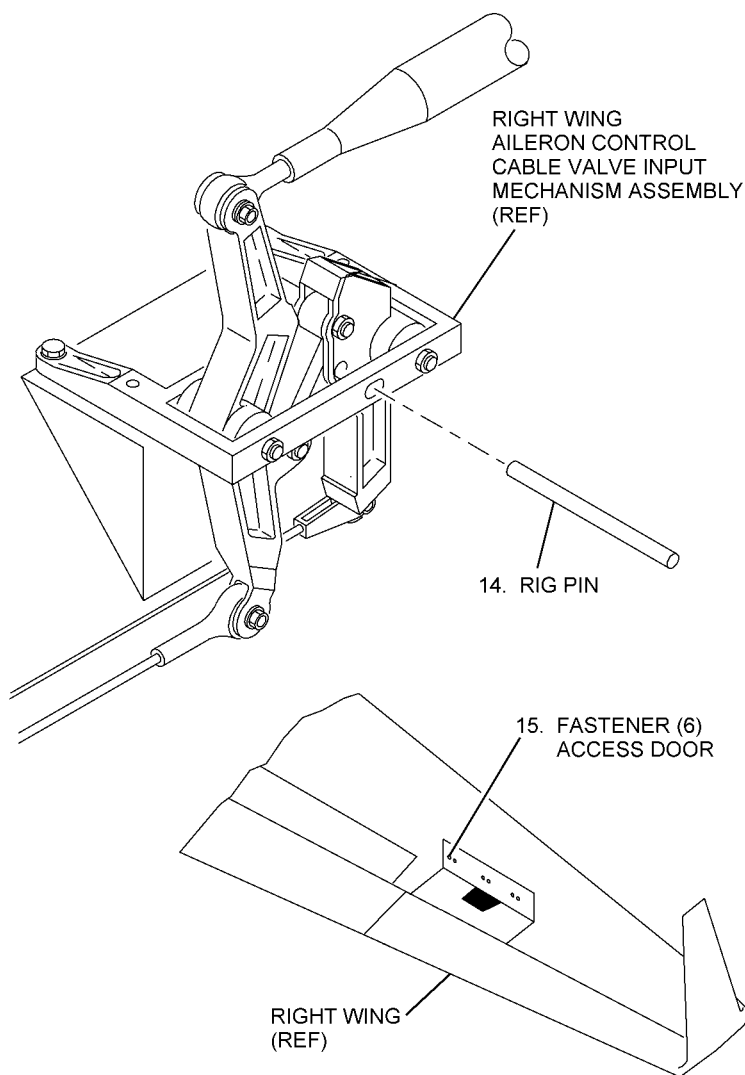
11. (A) Remove rig pin 5-8 from aileron center wing mechanism assembly.
12. (A) Remove rig pin 5-5 from left wing aileron control cable valve input mechanism assembly.
13. (A) Close and tighten fasteners on left wing upper access door (566ATD).



ICN-88277-G2711521-003-01

## **TO 1300i-2-27JG-10-2**

14. (A) Remove rig pin 5-5 from right wing aileron control cable valve input mechanism assembly.
15. (A) Close and tighten fasteners on right wing upper access door (666ATD).
16. Exit fuselage and wing (00-00-01).



ICN-88277-G2711497-003-01

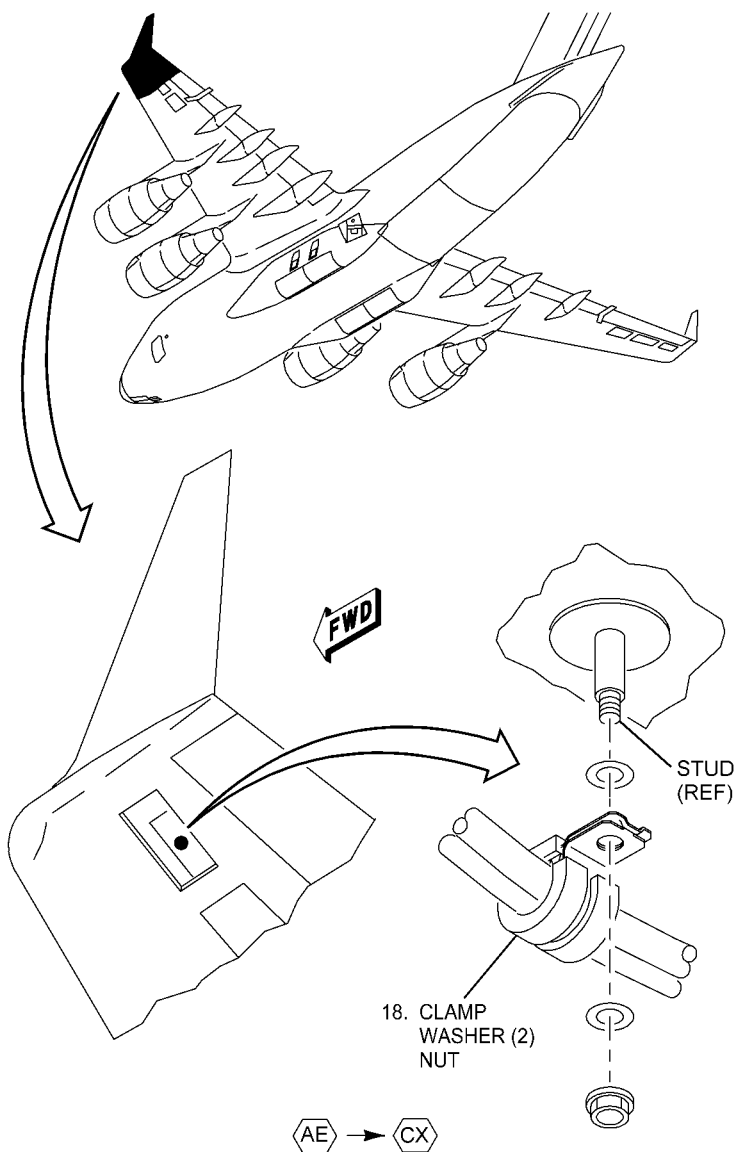
## TO 1300i-2-27JG-10-2

17.  $\langle \text{AA} \rangle \rightarrow \langle \text{AD} \rangle$  No action required.
17.  $\langle \text{AE} \rangle \rightarrow \langle \text{CX} \rangle$  Raise lower wing fixed trailing edge door assemblies (57-54-01).

DOOR REF DES	DOOR ID
5754CA025	566BBD
5754CA040	666BBD

17.  $\langle \text{CY} \rangle \rightarrow$  No action required.
18.  $\langle \text{AA} \rangle \rightarrow \langle \text{AD} \rangle$  No action required.
18.  $\langle \text{AE} \rangle \rightarrow \langle \text{CX} \rangle$  (A) Install washer on stud; position clamp, and install washer and nut; tighten nut.
18.  $\langle \text{CY} \rangle \rightarrow$  No action required.

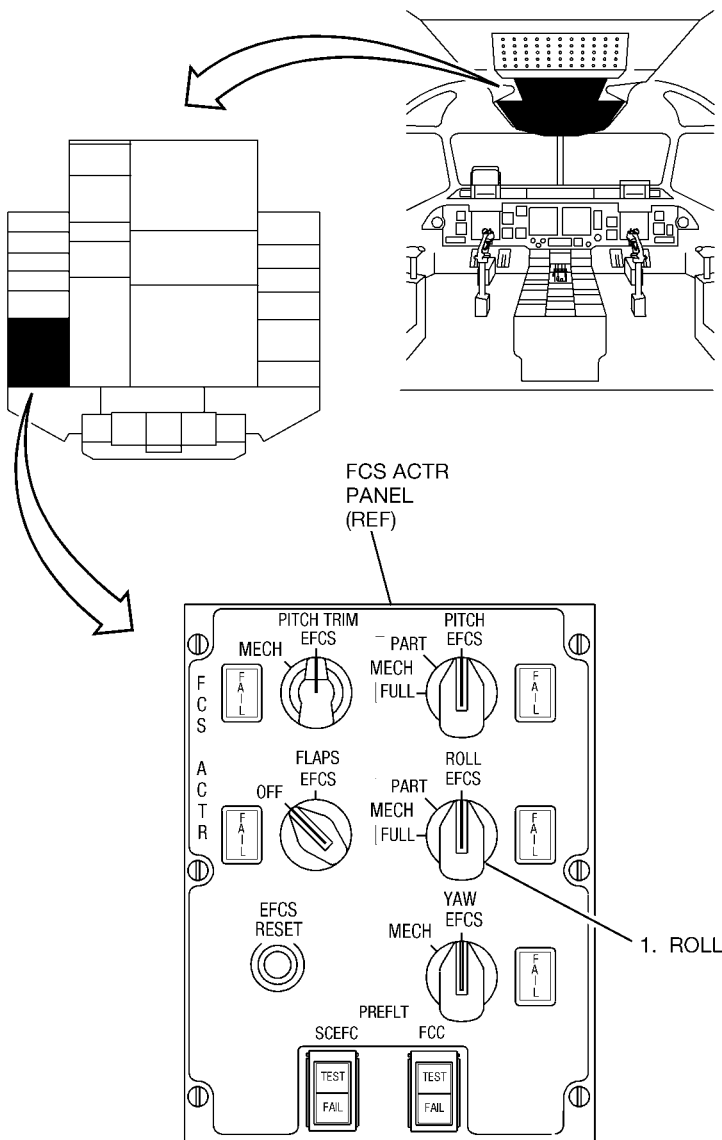




ICN-88277-G2711525-003-01

**03-10. FOLLOW-ON MAINTENANCE FOR TASKS  
03-8 AND 03-9.**

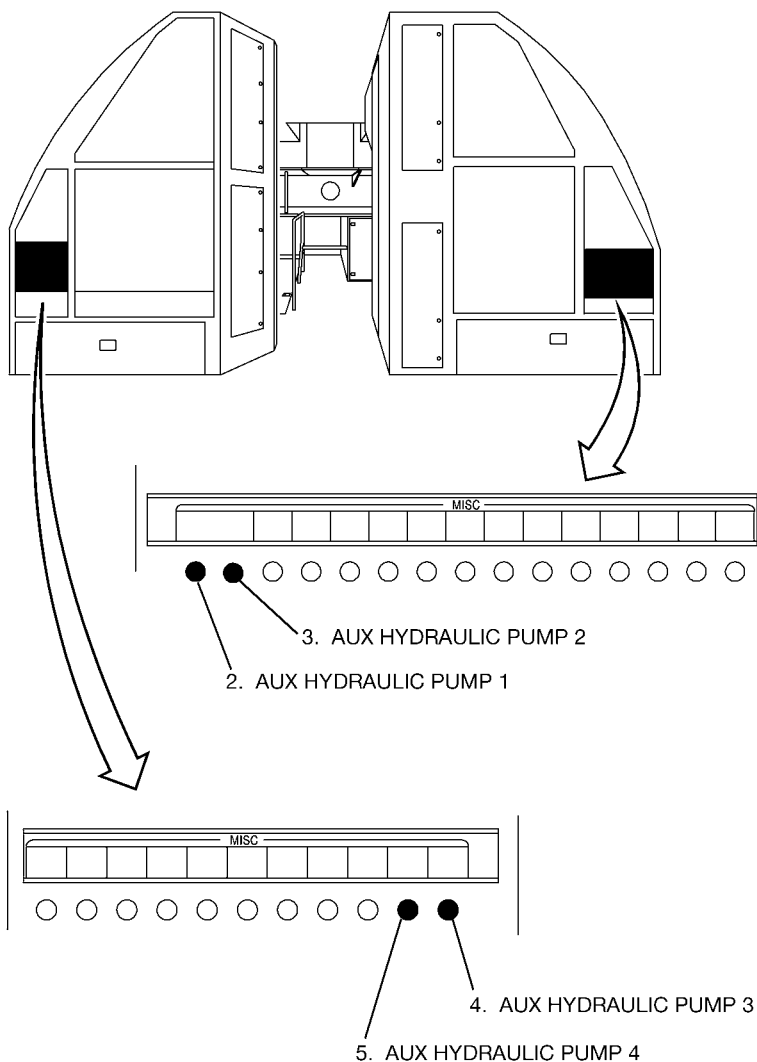
1. Remove warning tag and set **ROLL** switch on **FCS ACTR** panel to **FULL MECH**.



ICN-88277-G2711512-002-01

## **TO 1300i-2-27JG-10-2**

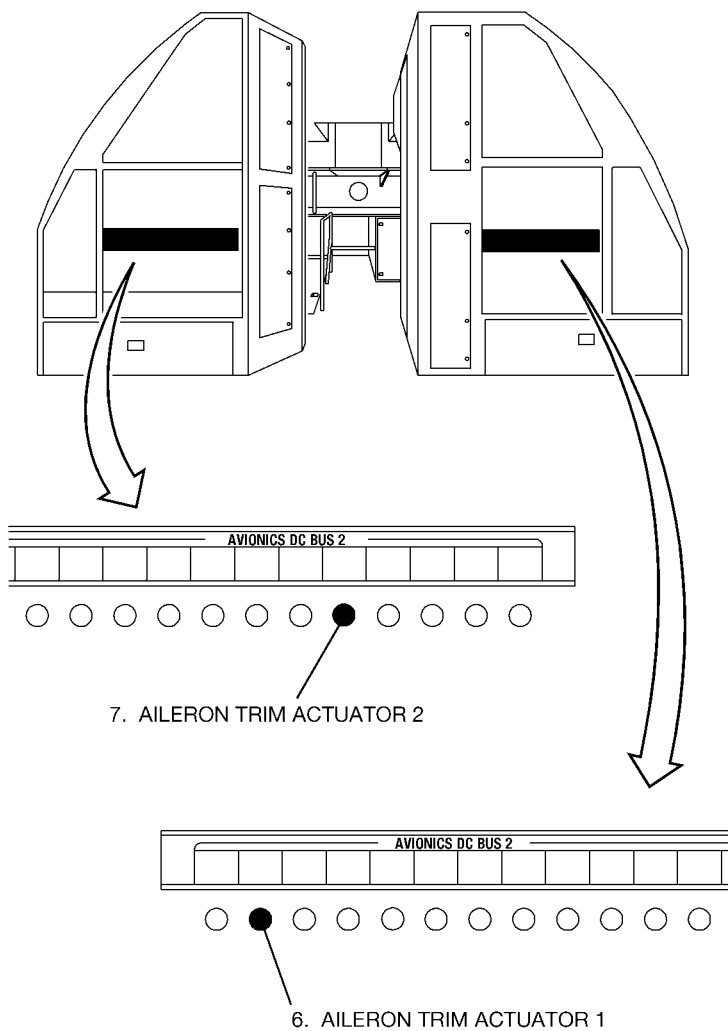
2. Remove warning tag and close **AUX HYDRAULIC PUMP 1** circuit breaker on Electrical Power Center (EPC), row **LL**, column **68**.
3. Remove warning tag and close **AUX HYDRAULIC PUMP 2** circuit breaker on EPC, row **LL**, column **69**.
4. Remove warning tag and close **AUX HYDRAULIC PUMP 3** circuit breaker on EPC, row **LL**, column **11**.
5. Remove warning tag and close **AUX HYDRAULIC PUMP 4** circuit breaker on EPC, row **LL**, column **10**.



ICN-88277-G2711513-002-01

## **TO 1300i-2-27JG-10-2**

6. Remove warning tag and close **AILERON TRIM ACTUATOR 1** circuit breaker on EPC, row **U**, column **41**.
7. Remove warning tag and close **AILERON TRIM ACTUATOR 2** circuit breaker on EPC, row **U**, column **36**.
8. Perform aileron mechanical controls and surfaces system operational checkout (27-11-01, task 01-1).



ICN-88277-G2711556-001-01

