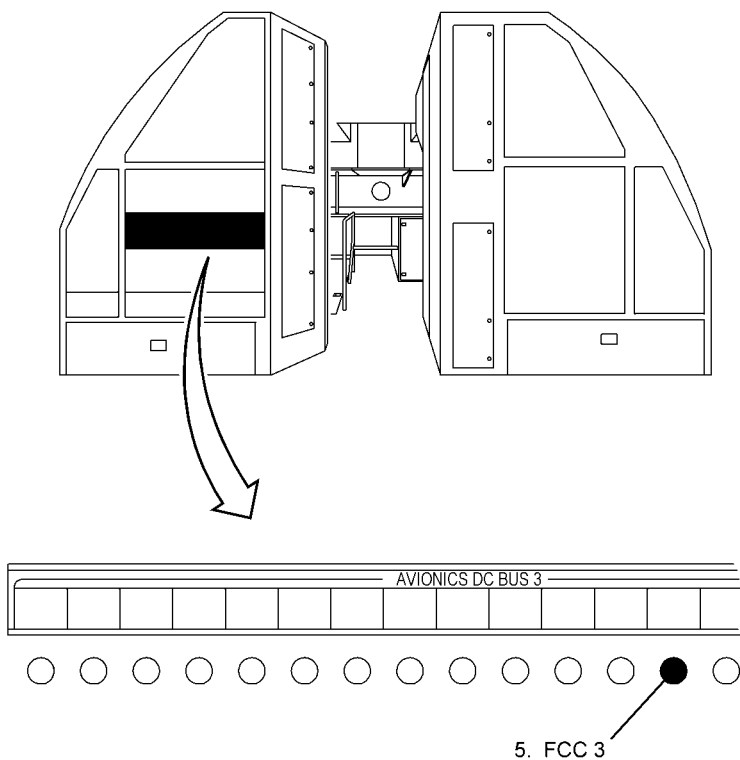


ICN-88277-G2715025-006-01

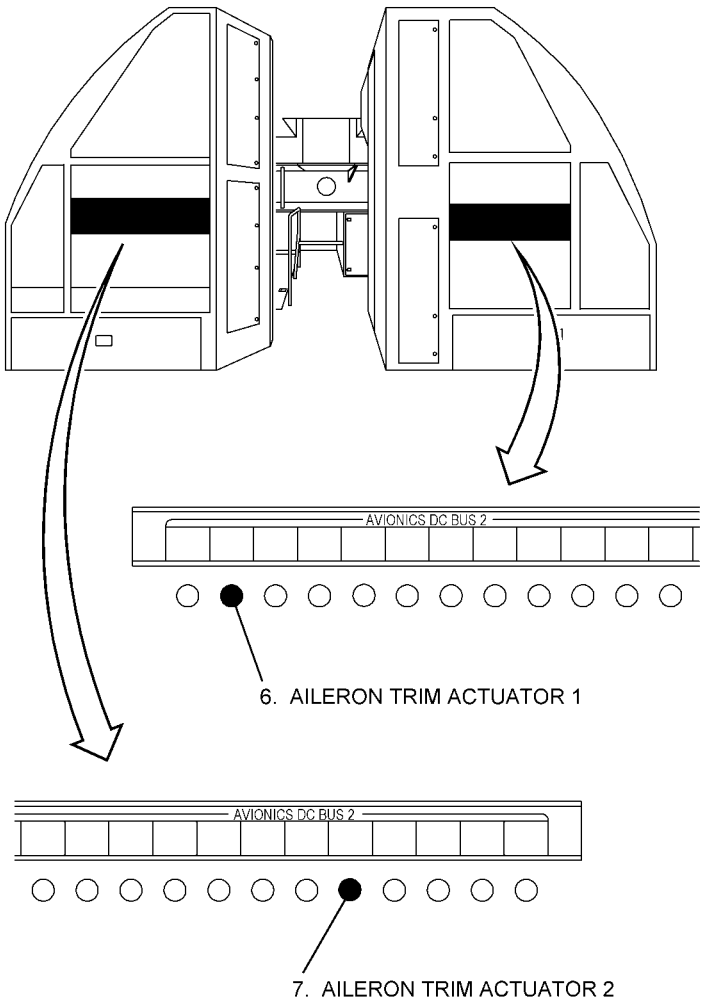
5. Remove warning tag and close **FCC 3** circuit breaker on Electrical Power Center (EPC), row **T**, column **24**.



ICN-88277-G2715026-005-01

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

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 position sensor adjustment (task 5-2).



ICN-88277-G2715060-004-01



# AILERON POSITION-ROTARY VARIABLE DIFFERENTIAL TRANSDUCER SENSOR ADJUSTMENT (27-15-10-5)

## FUNCTIONAL INPUT CONDITIONS:

### Applicability:

All

**Task**

All

### Additional information:

This procedure consists of the following tasks:

- 5-1. Adjustment for 2715AS001 and 2715AS003.
- 5-2. Adjustment for 2715AS002 and 2715AS004.

### NOTE

This is a typical adjustment task for all aileron position-rotary variable differential transducer sensors.

**Task**

All

### Additional data:

TO 1300i-2-22JG-10-4  
TO 1300i-2-34JG-60-1  
TO 1300i-2-53JG-20-1

**Task**

All

All

All

### Personnel recommended:

Two

Person (A) performs task.

Person (B) assists person (A).

**Task**

All

### Safety conditions:

NA

**Task**

--

Support equipment:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Kit, Rig Pin	17G140015-1	--	--	--
Pin Assy 5-10	17G140015-17	--	1	All

Supplies:

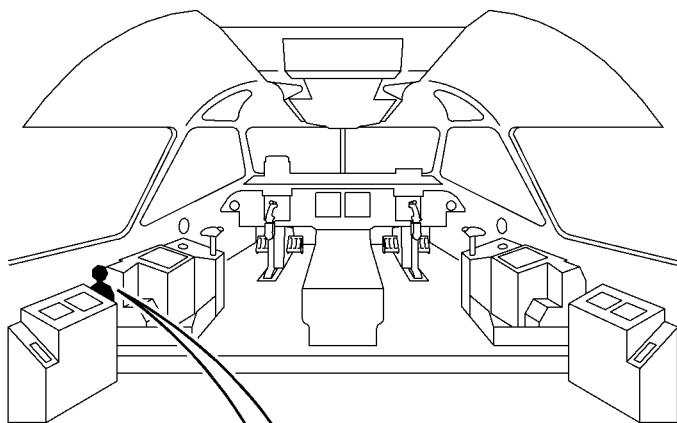
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Wire, Safety	MS20995C20	--	AR	5-1, 5-2



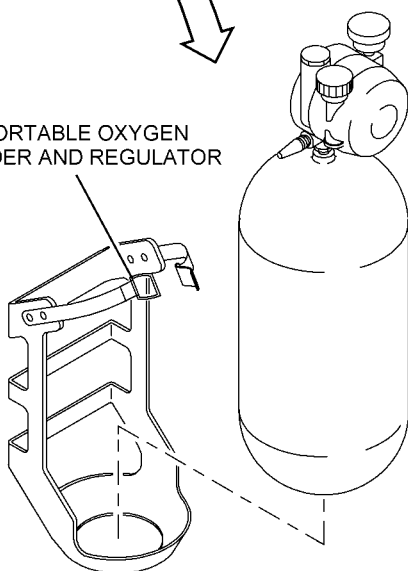


**5-1. ADJUSTMENT FOR 2715AS001 AND  
2715AS003.**

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. (A) Release latch and remove crew portable oxygen cylinder and regulator.



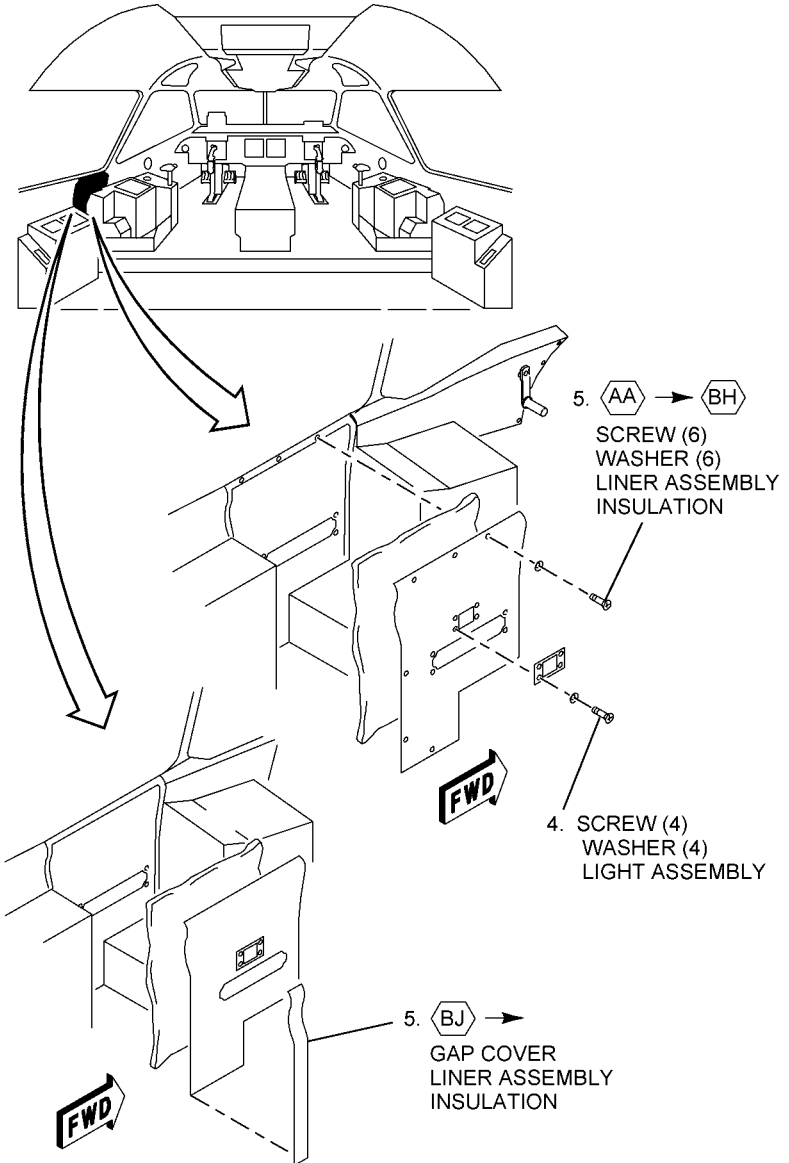
3. LATCH  
CREW PORTABLE OXYGEN  
CYLINDER AND REGULATOR



ICN-88277-G2715063-003-01

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

4. (A) Remove screws, washers, and light assembly.
5.  $\langle \text{AA} \rangle \rightarrow \langle \text{BH} \rangle$  (A) Remove screws, washers, liner assembly (213FZM) and insulation.
5.  $\langle \text{BJ} \rangle \rightarrow$  (A) Remove gap cover, liner assembly (213FZM) and insulation.



ICN-88277-G2715064-003-01

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

6. (A) Remove screws from upper crew compartment floor panel (217BZY).

### **NOTE**

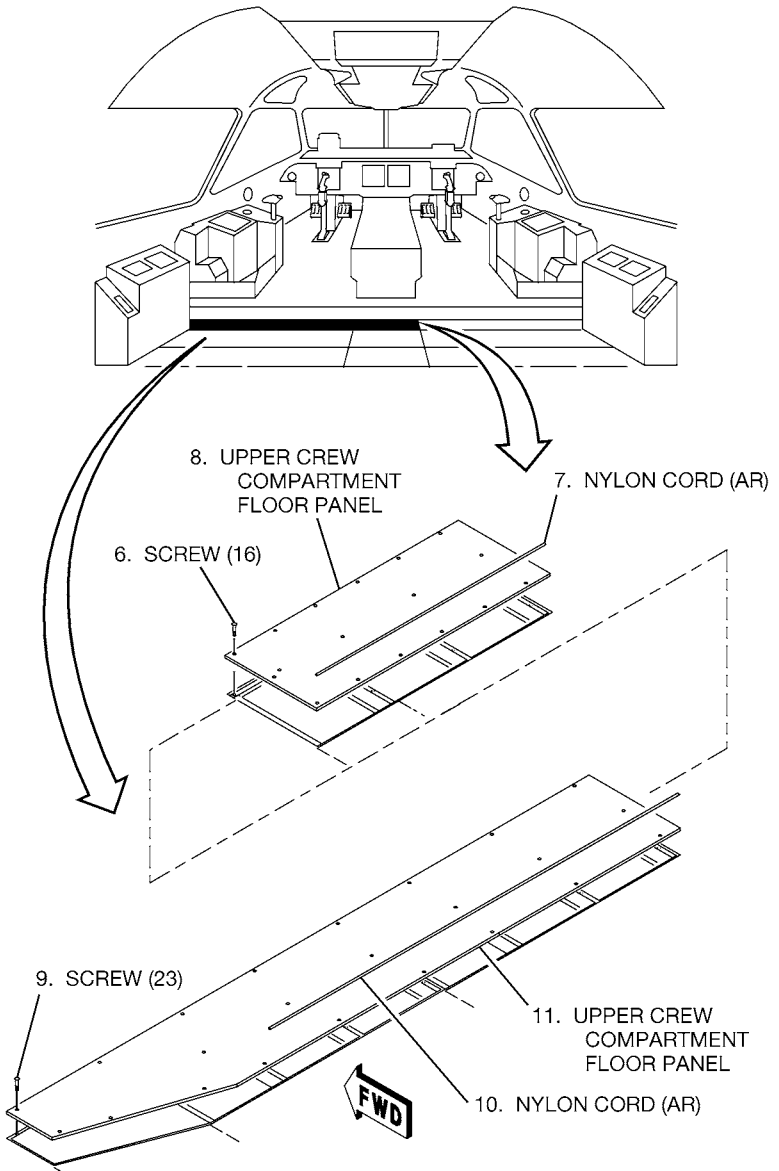
Nylon cords are being eliminated by attrition, not all floor panels will have nylon cords.

7. (A) Remove and discard nylon cords.
8. (A) Remove upper crew compartment floor panel.
9. (A) Remove screws from upper crew compartment floor panel (215BZY).

### **NOTE**

Nylon cords are being eliminated by attrition, not all floor panels will have nylon cords.

10. (A) Remove and discard nylon cords.
11. (A) Remove upper crew compartment floor panel.



ICN-88277-G2715065-002-01

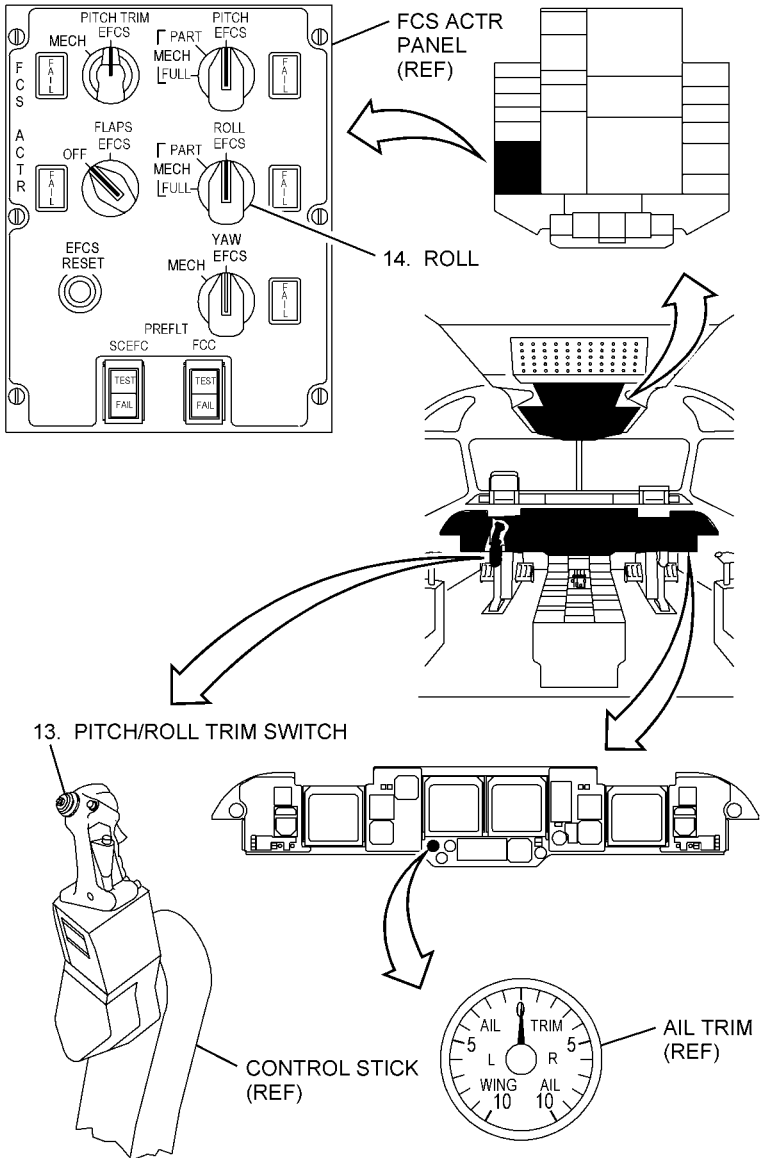
12. Operate mission computing system (34-62-02, task 02-1).

**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.

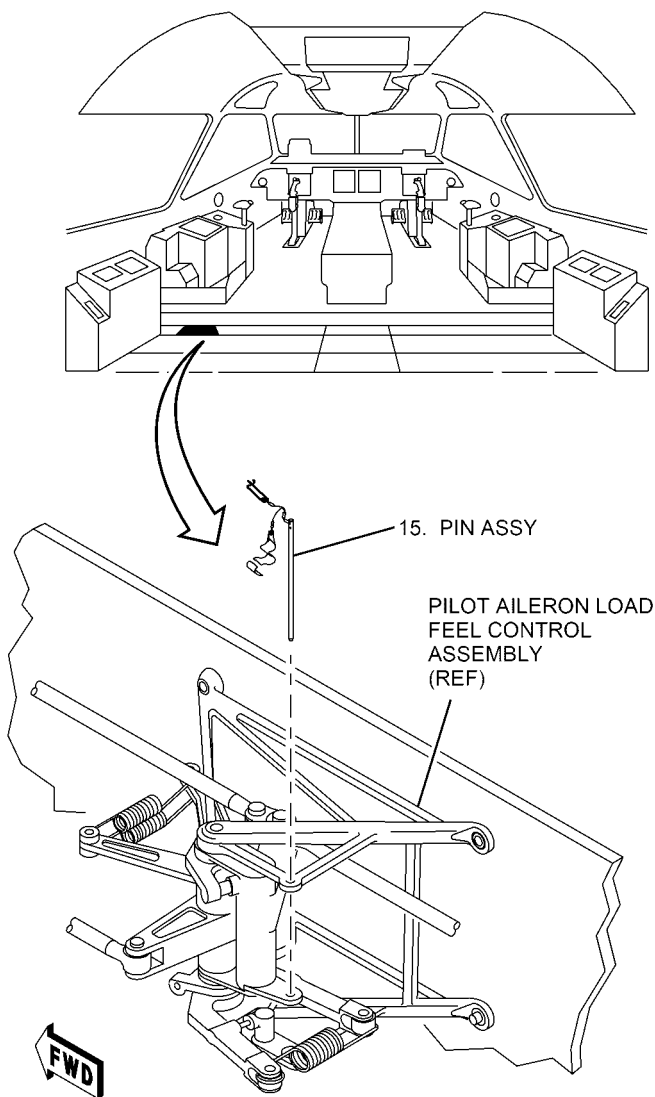
13. (A,B) Set pitch/roll trim switch on control stick to **LWD** or **RWD** until **AIL TRIM** indicator shows **0**.
14. (A) Set **ROLL** switch on **FCS ACTR** panel to **PART MECH**.





ICN-88277-G2715066-004-01

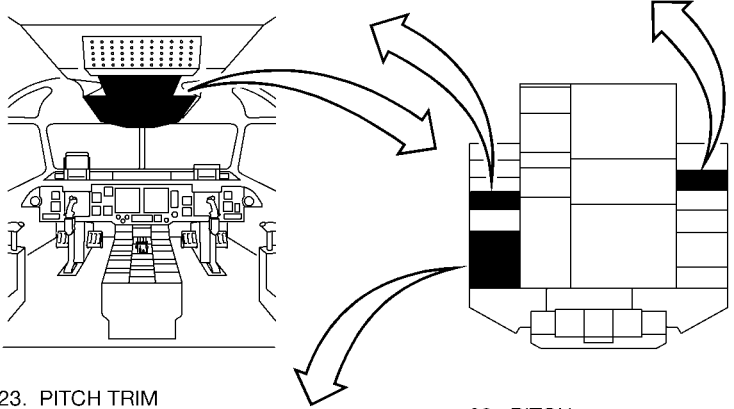
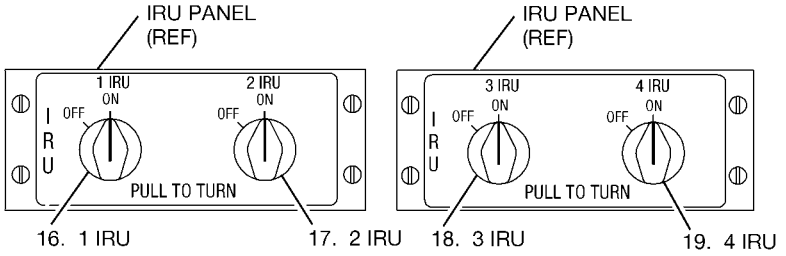
15. (B) Install pin assy 5-10 in pilot aileron load feel control assembly.



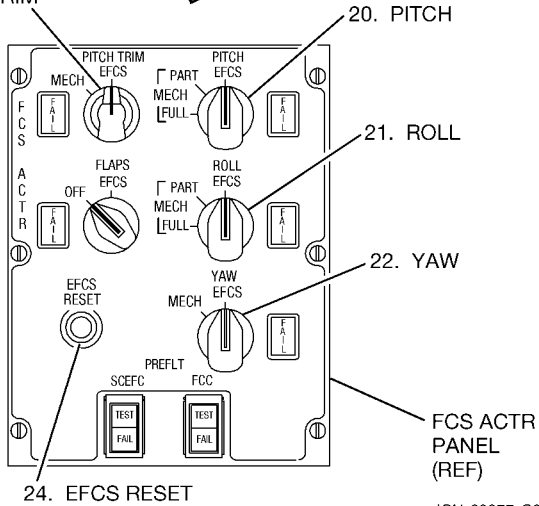
ICN-88277-G2715067-005-01

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

16. (A) Set **1 IRU** switch on **IRU** panel to **ON**.
17. (A) Set **2 IRU** switch to **ON**.
18. (A) Set **3 IRU** switch on **IRU** panel to **ON**.
19. (A) Set **4 IRU** switch to **ON**.
20. (A) Set **PITCH** switch on **FCS ACTR** panel to **EFCS**.
21. (A) Set **ROLL** switch to **EFCS**.
22. (A) Set **YAW** switch to **EFCS**.
23. (A) Set **PITCH TRIM** switch to **EFCS**.
24. (A) Press **EFCS RESET** button.



23. PITCH TRIM

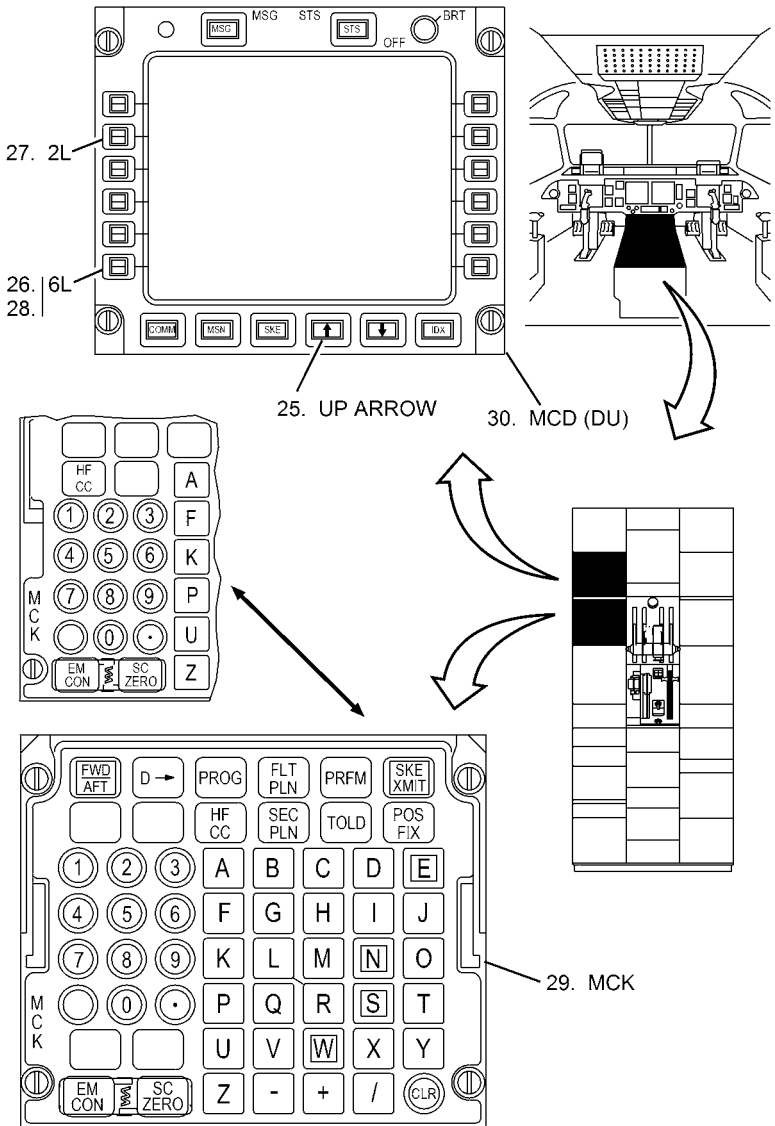


ICN-88277-G2715035-006-01

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

25. (A) Press up arrow key on **MCD (DU)**.
- **MSN INDEX 2** is displayed.
26. (A) Press 6L Line Select (LS) key.
- **MAINTENANCE MENU** is displayed.
27. (A) Press 2L LS key.
- **EFCS MAINT MENU** is displayed.
28. (A) Press 6L LS key.
- **EFCS MEMORY INSPECT** is displayed.
29. (A) Enter 1B948 on **MCK**.
- **EFCS MEMORY INSPECT** is displayed with address/data.
30. (A) Read memory inspect data for address B948 on **MCD (DU)** as follows:

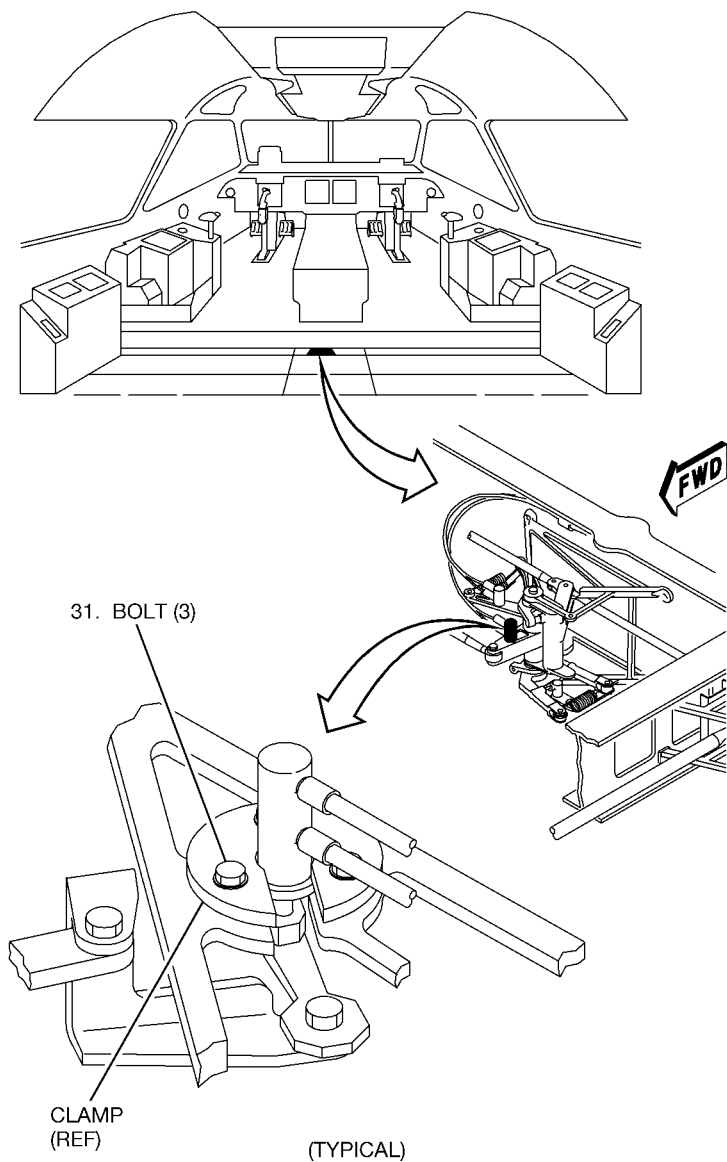
REF DES	FCC NO.
2715AS001	1
2715AS003	2



ICN-88277-G2715036-007-01

31. (B) Remove safety wire and loosen bolts on clamp.



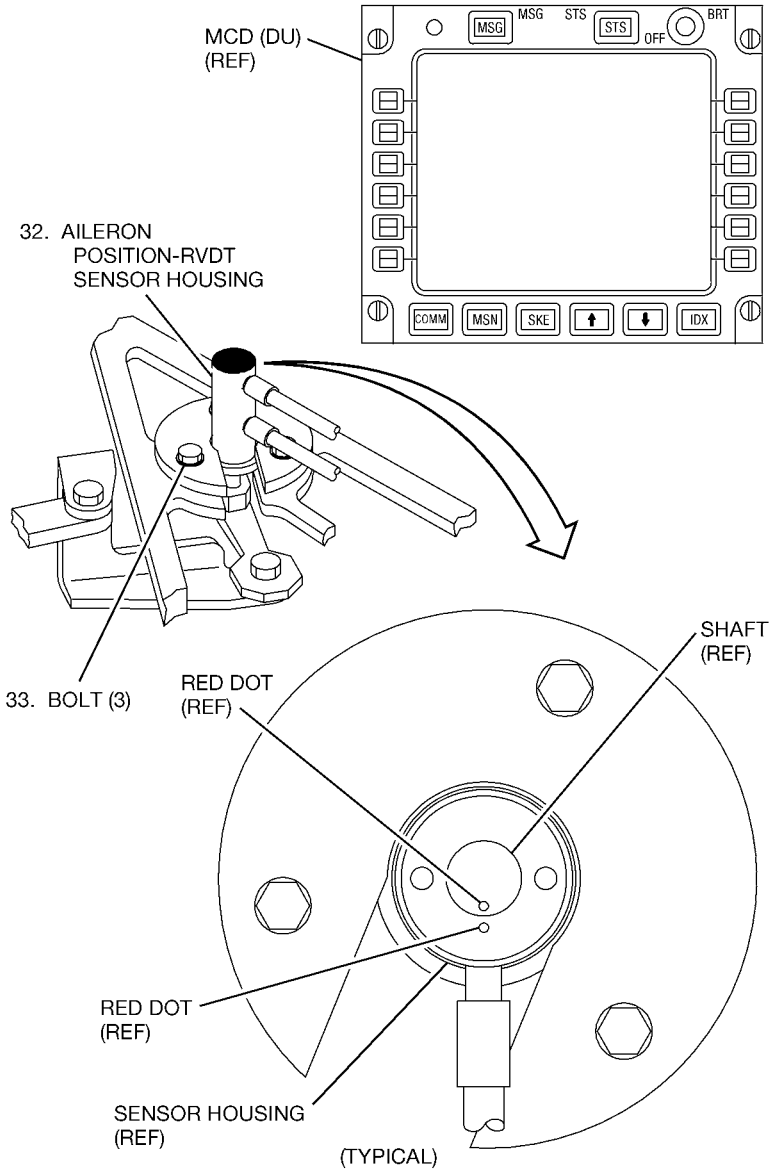


ICN-88277-G2715078-002-01

**NOTE**

The red dot on end of shaft shall be aligned with the red dot on sensor housing within 30 degrees at electrical zero by rotating the sensor housing clockwise or counterclockwise as required.

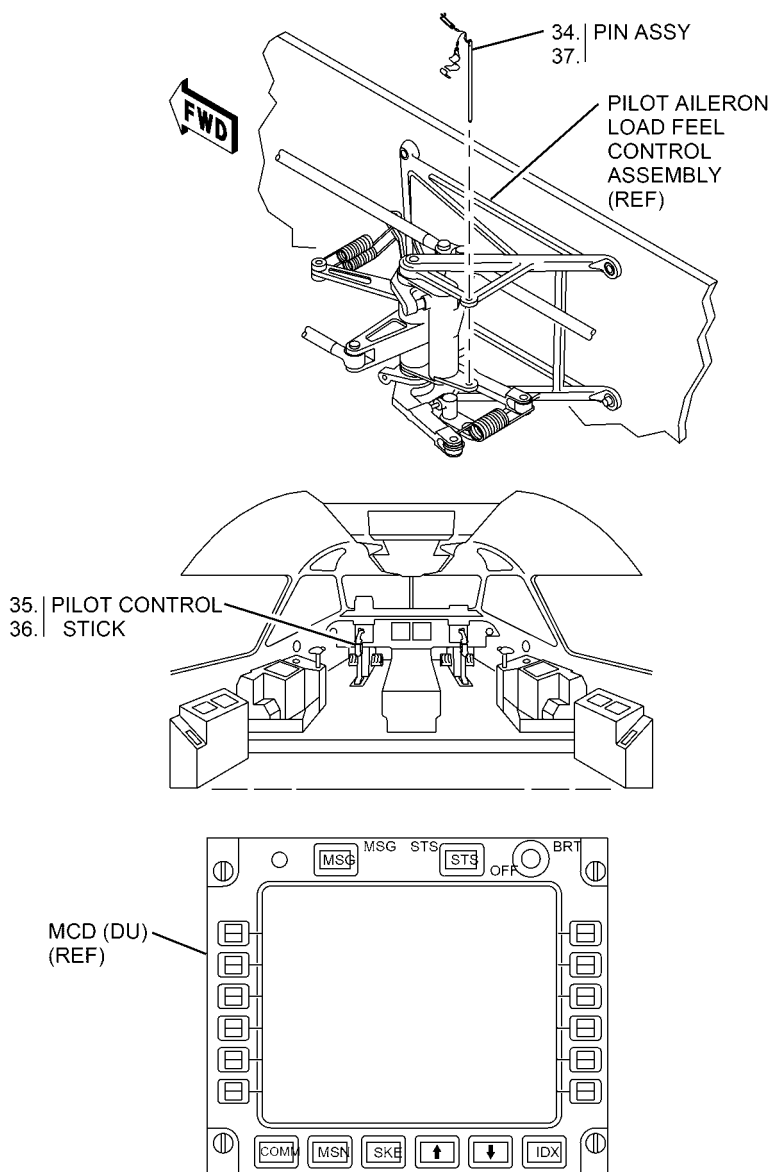
32. (B) Slowly rotate aileron position-Rotary Variable Differential Transducer (RVDT) sensor housing; align red dots.
- **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **FEFF** and **010F**.
33. (B) Tighten bolts.
- **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **FEFF** and **010F**.



ICN-88277-G2715037-009-01

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

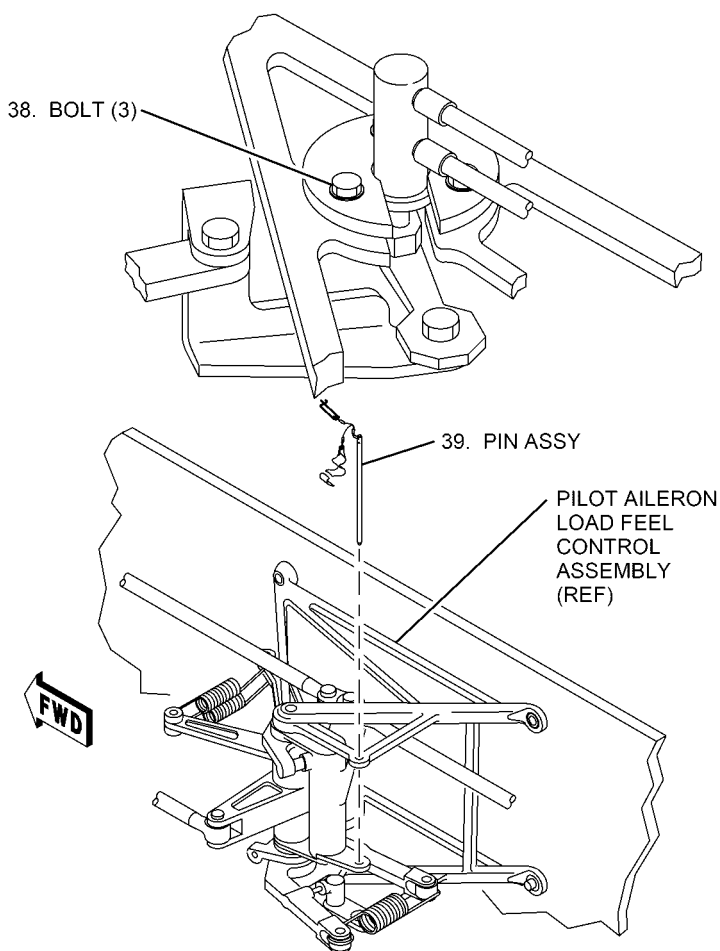
34. (B) Remove pin assy 5-10 from pilot aileron load feel control assembly.
35. (A) Move pilot control stick full right.
  - **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **5D00** and **659C**.
36. (A) Move control stick full left.
  - **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **A300** and **9A64**.
37. (B) Install pin assy 5-10 in pilot aileron load feel control assembly.



ICN-88277-G2715048-007-01

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

38. (B) Secure bolts with safety wire.
39. (B) Remove pin assy from pilot aileron load feel control assembly.

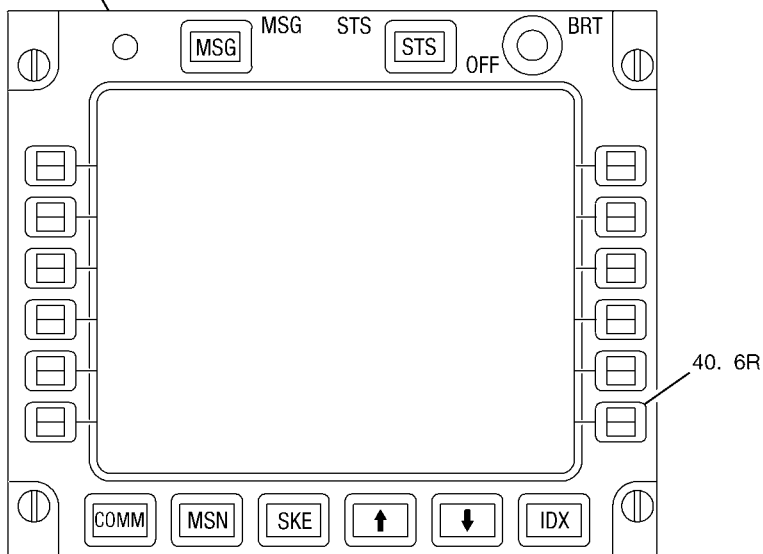


ICN-88277-G2715079-002-01

40. (A) Press 6R LS key.
  - **EFCS MAINT MENU** is displayed on **MCD (DU)**.
41. Perform control stick sensor assembly operational checkout (22-15-13, task 1-1).
42. Install upper crew compartment floor panels (215BZY), (217AZY), and (213FZM) (53-21-10).



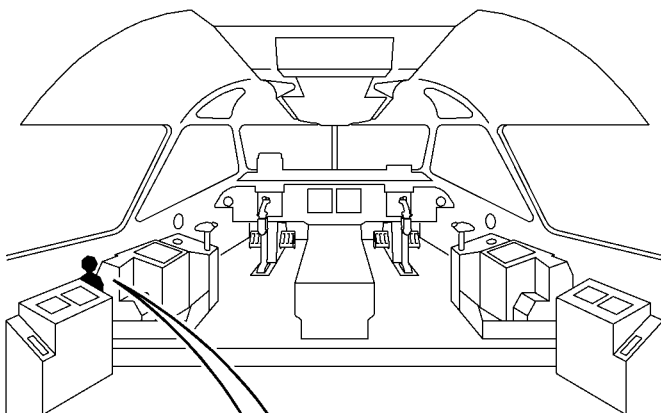
MCD (DU)  
(REF)



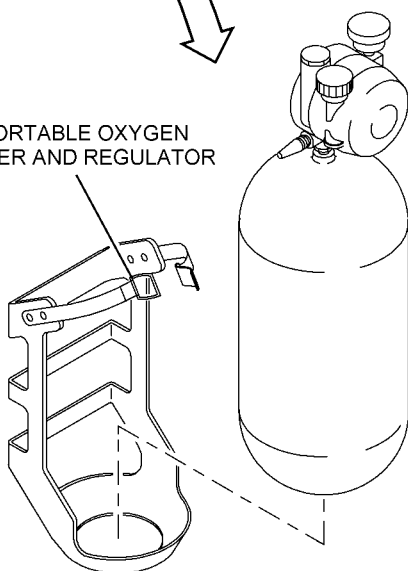
ICN-88277-G2715080-001-01

**5-2. ADJUSTMENT FOR 2715AS002 AND  
2715AS004.**

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. (A) Release latch and remove crew portable oxygen cylinder and regulator.



3. LATCH  
CREW PORTABLE OXYGEN  
CYLINDER AND REGULATOR

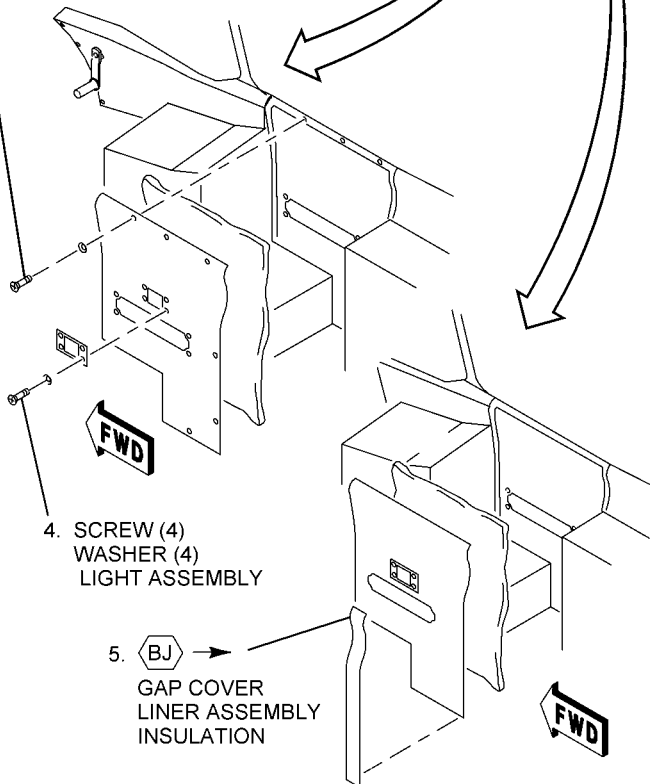


ICN-88277-G2715070-003-01

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

4. (A) Remove bolts, washers, and light assembly.
5.  $\langle \text{AA} \rangle \rightarrow \langle \text{BH} \rangle$  (A) Remove screws, washers, liner assembly (214FZM), and insulation.
5.  $\langle \text{BJ} \rangle \rightarrow$  (A) Remove gap cover, liner assembly (214FZM), and insulation.

5. AA → BH  
 SCREW (6)  
 WASHER (6)  
 LINER ASSEMBLY  
 INSULATION



ICN-88277-G2715071-003-01

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

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

### **NOTE**

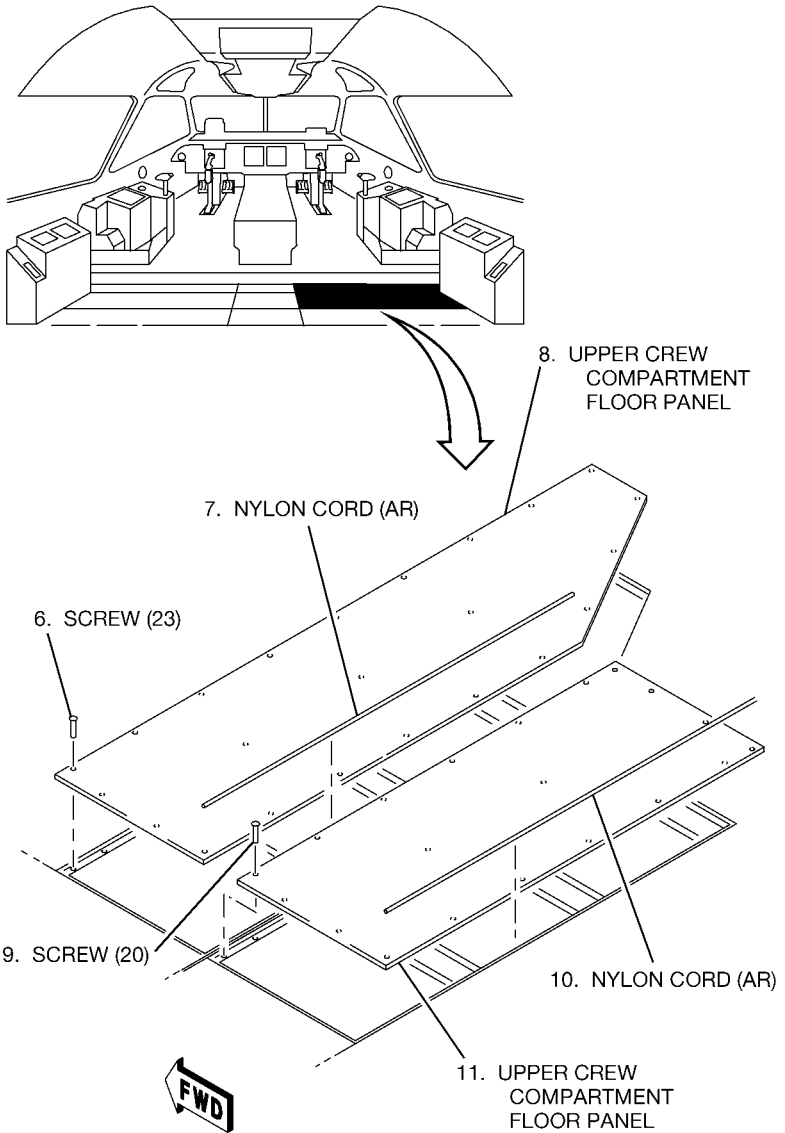
Nylon cords are being eliminated by attrition, not all floor panels will have nylon cords.

7. (A) Remove and discard nylon cords.
8. (A) Remove upper crew compartment floor panel.
9. (A) Remove screws from upper crew compartment floor panel (216CZY).

### **NOTE**

Nylon cords are being eliminated by attrition, not all floor panels will have nylon cords.

10. (A) Remove and discard nylon cords.
11. (A) Remove upper crew compartment floor panel.



ICN-88277-G2715072-002-01

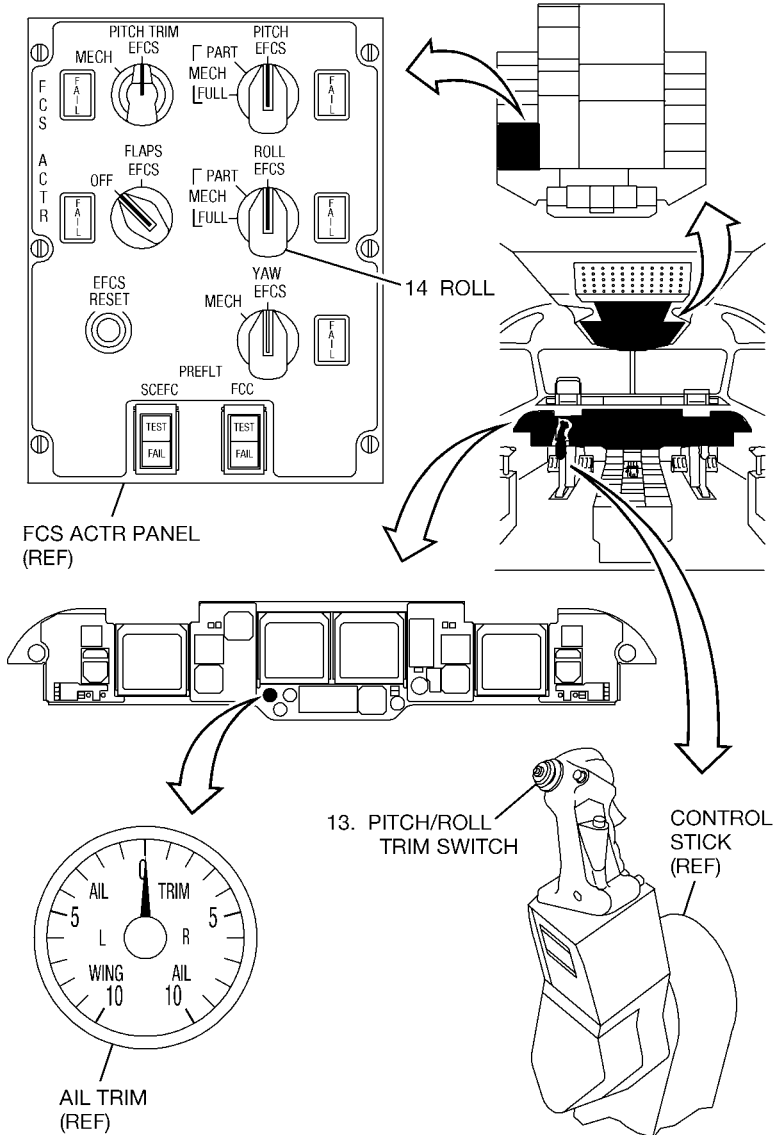
12. Operate mission computing system (34-62-02, task 02-1).

**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.

13. (A,B) Set pitch/roll trim switch on control stick to **LWD** or **RWD** until **AIL TRIM** indicator shows **0**.
14. (A) Set **ROLL** switch on **FCS ACTR** panel to **PART MECH**.

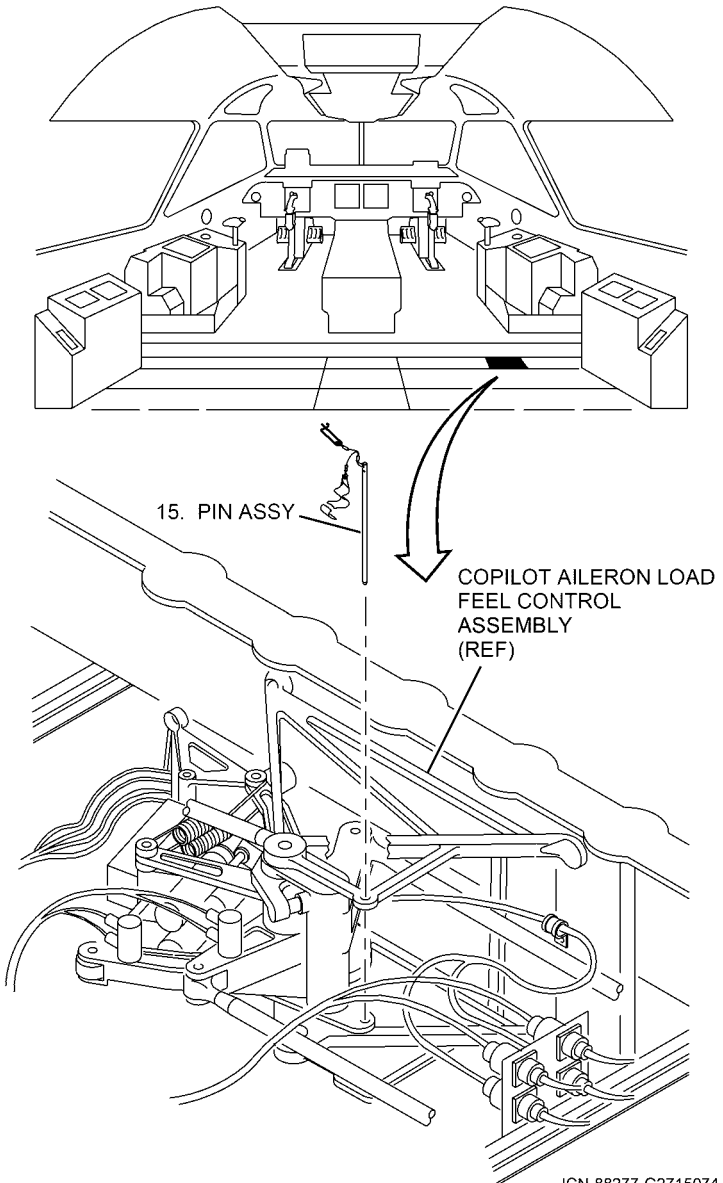




ICN-88277-G2715073-003-01

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

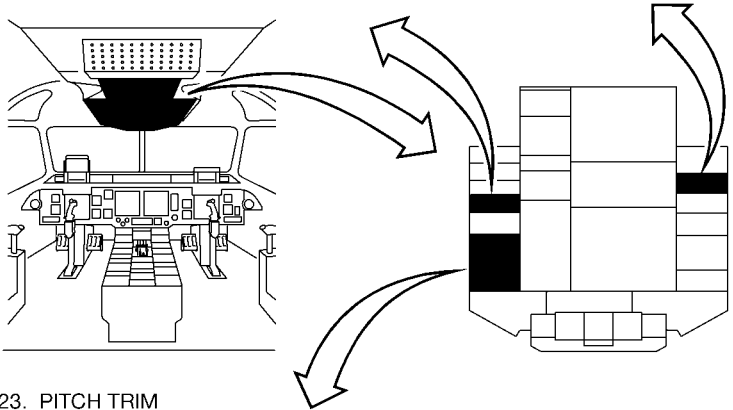
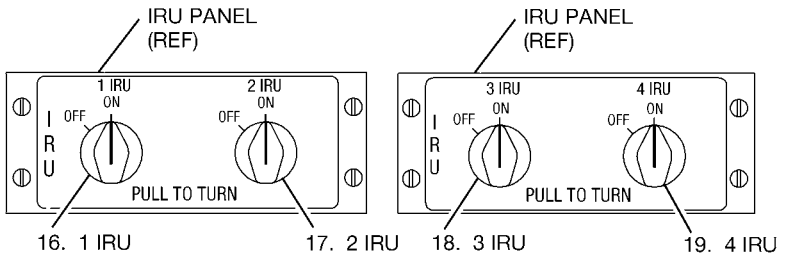
15. (B) Install pin assy 5-10 in copilot aileron load feel control assembly.



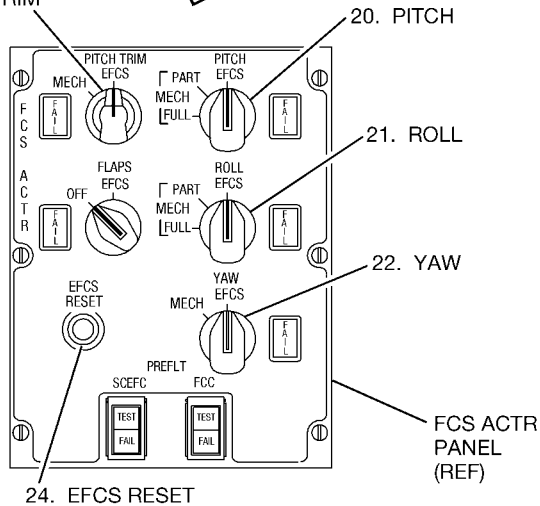
ICN-88277-G2715074-005-01

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

16. (A) Set **1 IRU** switch on **IRU** panel to **ON**.
17. (A) Set **2 IRU** switch to **ON**.
18. (A) Set **3 IRU** switch on **IRU** panel to **ON**.
19. (A) Set **4 IRU** switch to **ON**.
20. (A) Set **PITCH** switch on **FCS ACTR** panel to **EFCS**.
21. (A) Set **ROLL** switch to **EFCS**.
22. (A) Set **YAW** switch to **EFCS**.
23. (A) Set **PITCH TRIM** switch to **EFCS**.
24. (A) Press **EFCS RESET** button.



23. PITCH TRIM

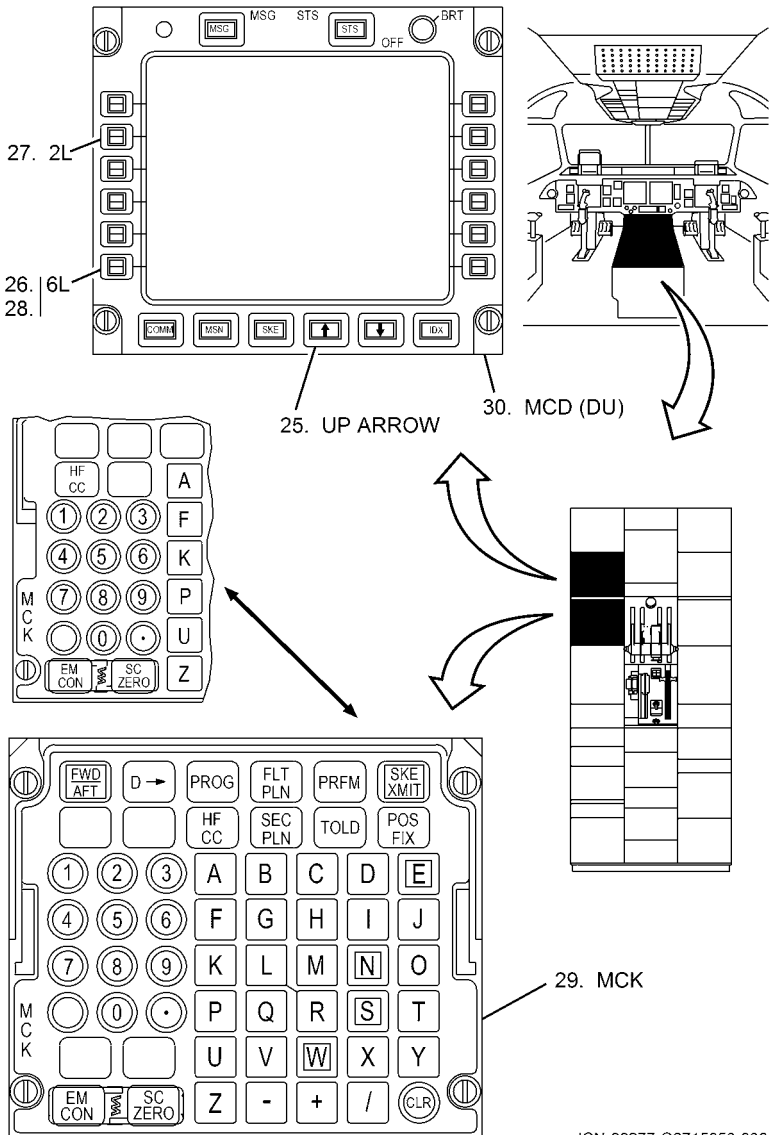


ICN-88277-G2715049-005-01

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

25. (A) Press up arrow key on **MCD (DU)**.
- **MSN INDEX 2** is displayed.
26. (A) Press 6L Line Select (LS) key.
- **MAINTENANCE MENU** is displayed.
27. (A) Press 2L LS key.
- **EFCS MAINT MENU** is displayed.
28. (A) Press 6L LS key.
- **EFCS MEMORY INSPECT** is displayed.
29. (A) Enter 1B948 on **MCK**.
- **EFCS MEMORY INSPECT** is displayed with address/data.
30. (A) Read memory inspect data for address B948 on **MCD (DU)** as follows:

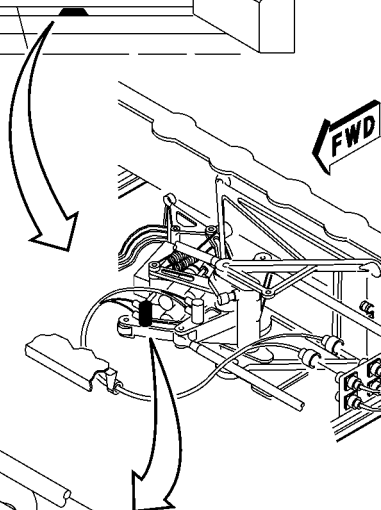
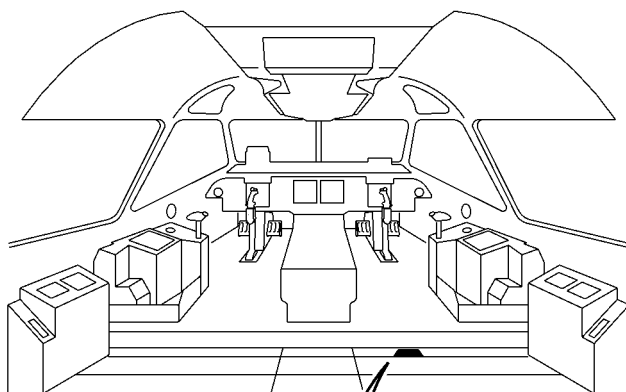
REF DES	FCC NO.
2715AS002	3
2715AS004	4



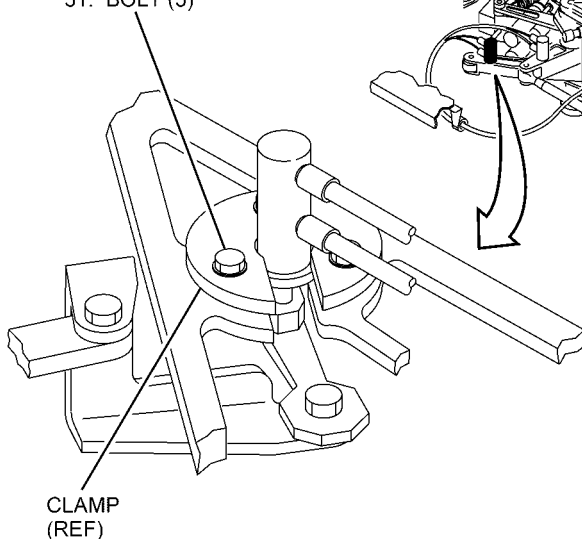
ICN-88277-G2715050-006-01

31. (B) Remove safety wire and loosen bolts on clamp.





31. BOLT (3)



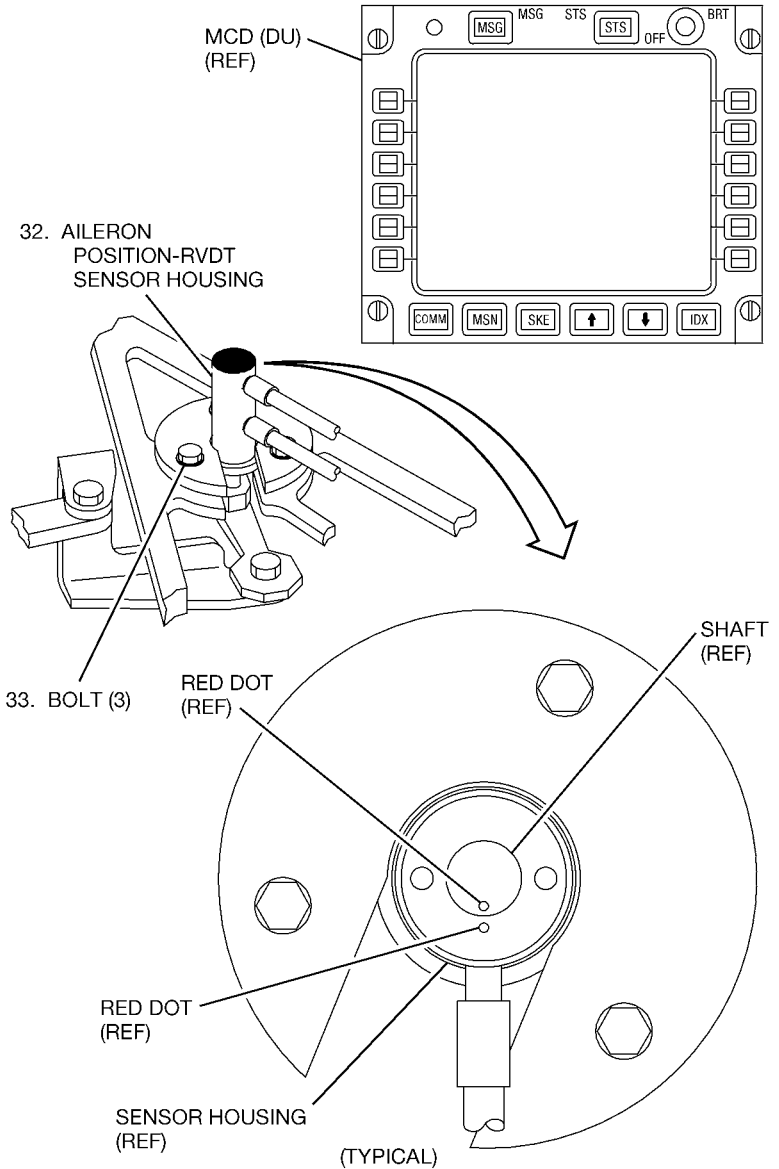
(TYPICAL)

ICN-88277-G2715081-003-01

**NOTE**

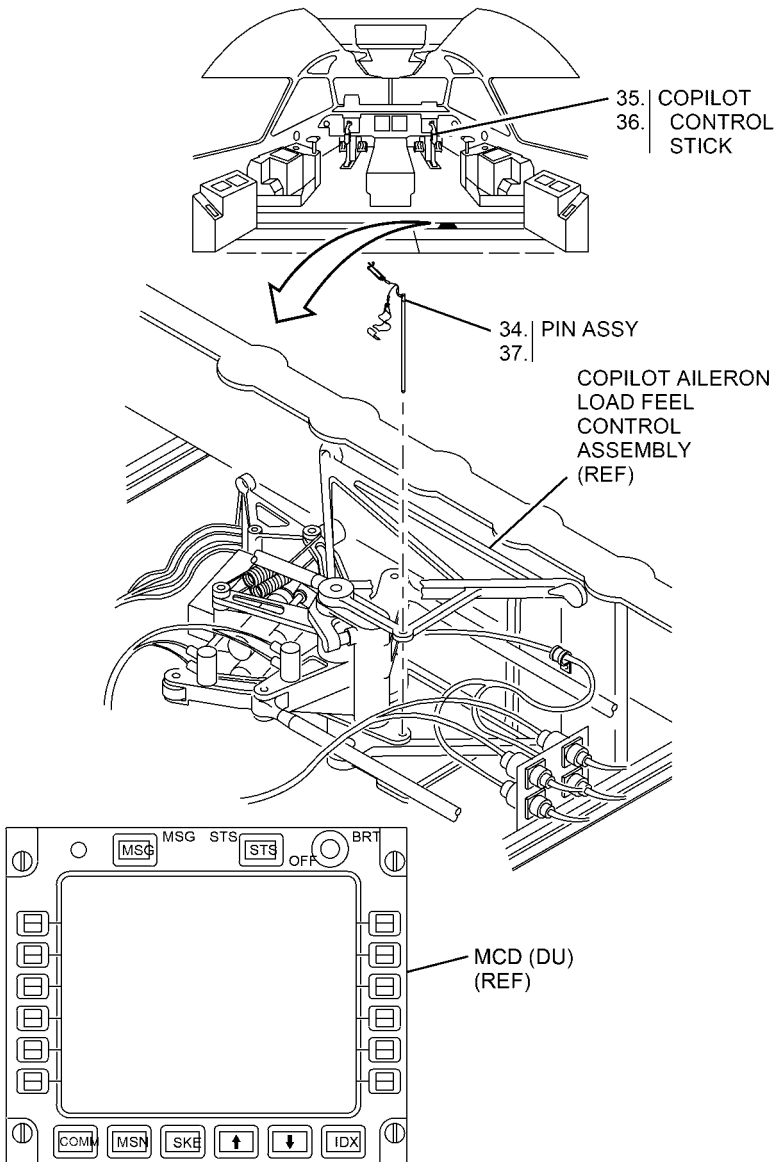
The red dot on end of shaft shall be aligned with the red dot on sensor housing within 30 degrees at electrical zero by rotating the sensor housing clockwise or counterclockwise as required.

32. (B) Slowly rotate aileron position-Rotary Variable Differential Transducer (RVDT) sensor housing; align red dots.
- **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **FEFF** and **010F**.
33. (B) Tighten bolts.
- **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **FEFF** and **010F**.



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

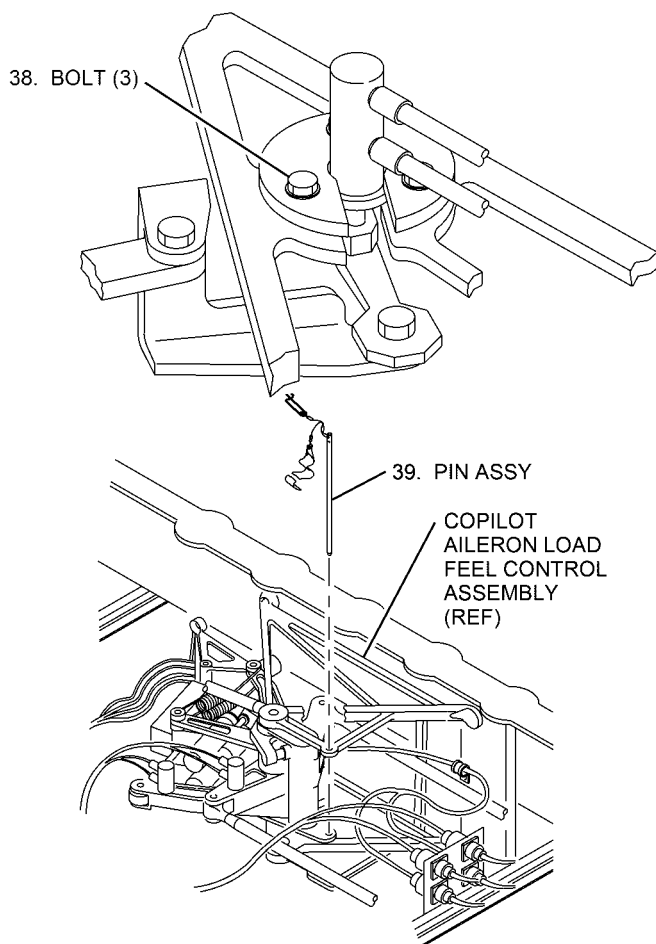
34. (B) Remove pin assy 5-10 from copilot aileron load feel control assembly.
35. (A) Move copilot control stick full right.
  - **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **4894** and **659C**.
36. (A) Move control stick full left.
  - **EFCS MEMORY INSPECT** data at address **B948** on **MCD (DU)** reads between **B76C** and **9A64**.
37. (B) Install pin assy 5-10 in copilot aileron load feel control assembly.



ICN-88277-G2715052-007-01

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

38. (B) Secure bolts with safety wire.
39. (B) Remove pin assy from copilot aileron load feel control assembly.



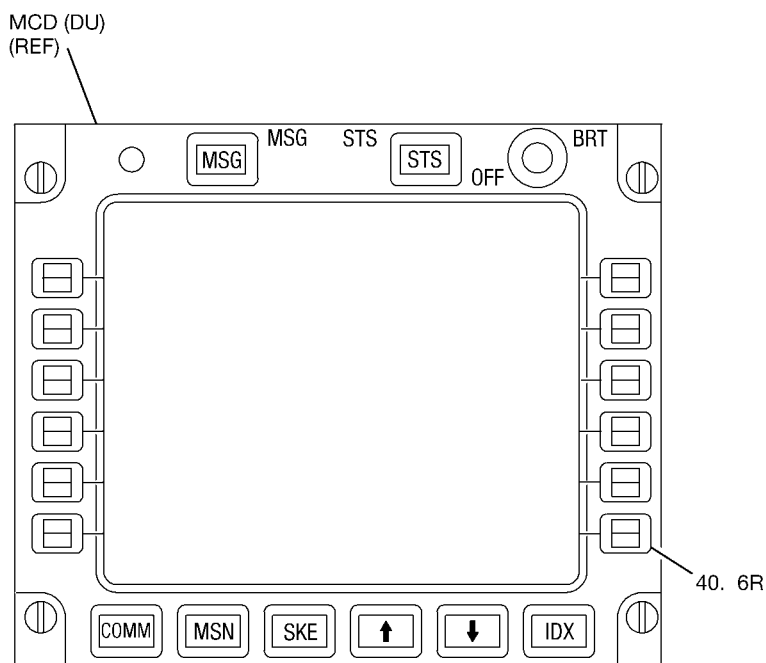
(TYPICAL)

ICN-88277-G2715082-002-01

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

40. (A) Press 6R LS key.
  - **EFCS MAINT MENU** is displayed on **MCD (DU)**.
41. Perform control stick sensor assembly operational checkout (22-15-13, task 1-1).
42. Perform copilot aileron position sensor maintenance built-in test (task 1-1).
43. Install upper crew compartment floor panels (217AZY) and (216BZY) (53-21-10).





(TYPICAL)

ICN-88277-G2715083-001-01

**27-15-10-5**  
**2-245/(2-246 blank)**

