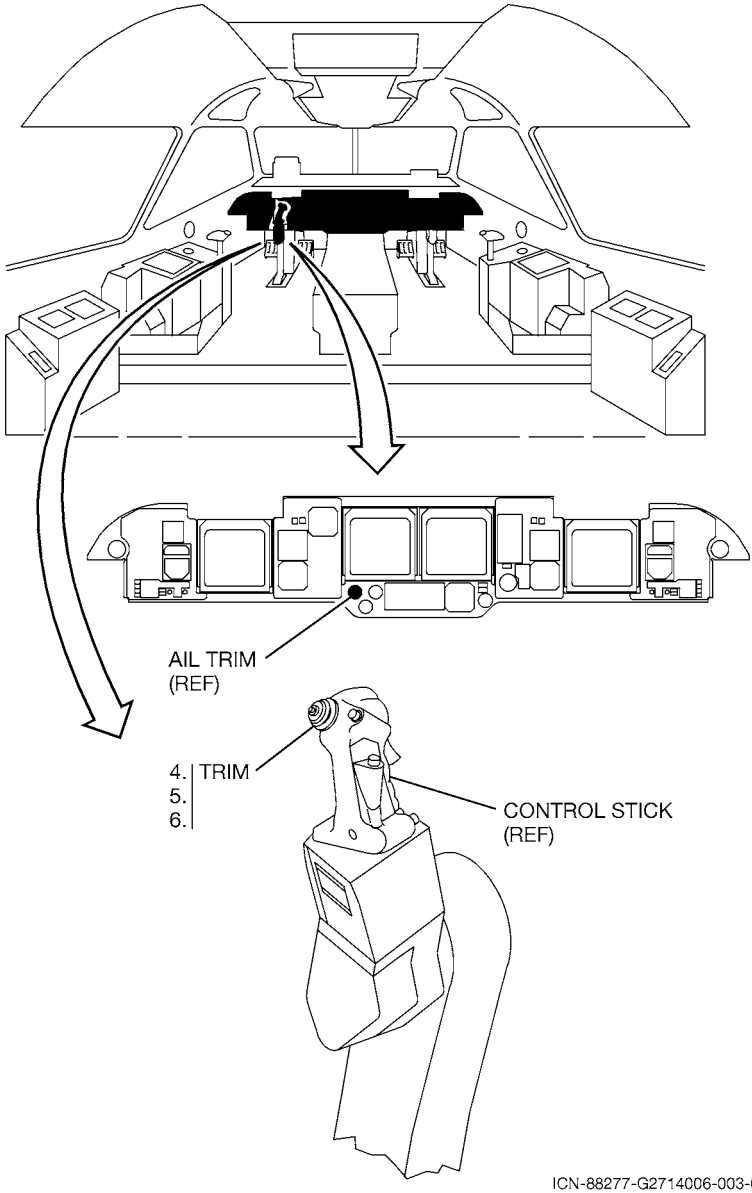


ICN-88277-G2714006-003-01

6A. Rotate **PANEL** knob on copilot **INST LT** panel fully clockwise.

- Verify **AIL TRIM** indicator lights come on (33-11-BK-00).

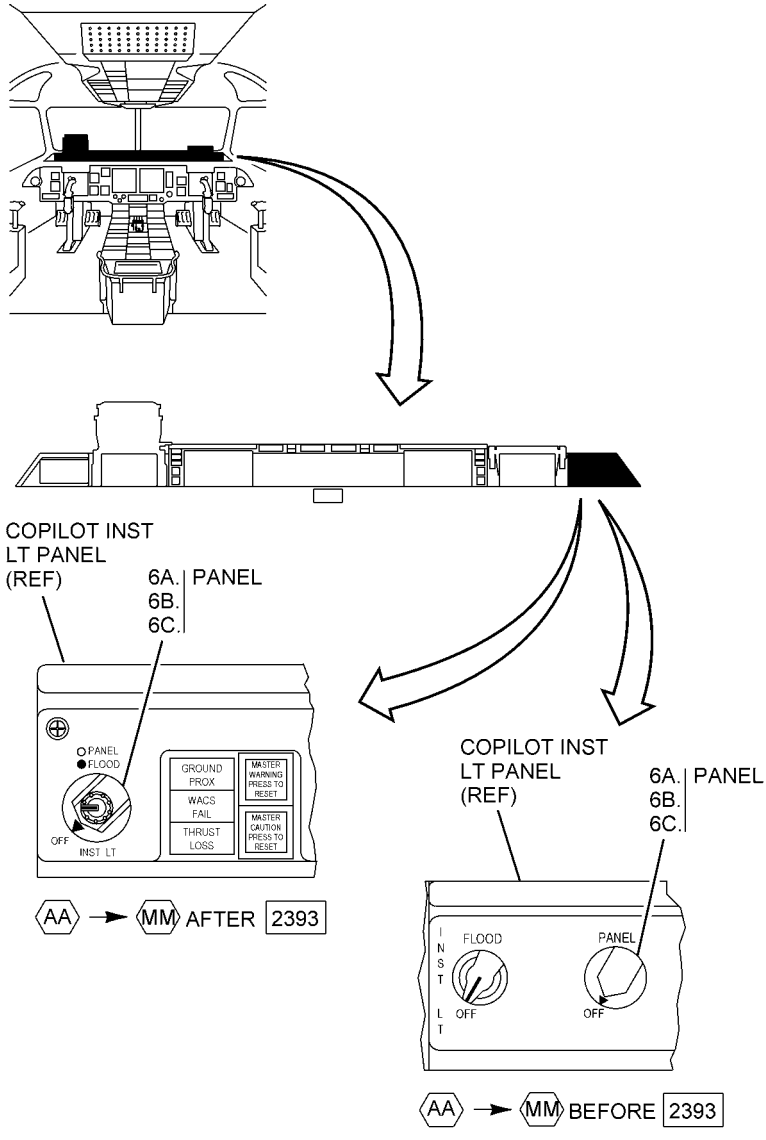
6B. Rotate **PANEL** knob on copilot **INST LT** panel slowly counterclockwise.

- Verify **AIL TRIM** indicator lights decrease in brightness (33-11-BL-00).

6C. Rotate **PANEL** knob on copilot **INST LT** panel fully counterclockwise.

- Verify **AIL TRIM** indicator lights go off (33-11-BM-00).

7. Disconnect external electrical power (10-61-01, task 01-2).



ICN-88277-G2714007-002-01

AILERON TRIM POSITION INDICATOR REMOVAL (27-14-10-2)

FUNCTIONAL INPUT CONDITIONS:

Applicability:

	Task
All	All

Additional information:

This procedure consists of the following tasks:

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

Additional data:

	Task
NA	--

Personnel recommended:

	Task
One	All

Safety conditions:

	Task
NA	--

Support equipment:

Nomenclature	PN	Specification	Qty	Task
NA	--	--	--	--

Supplies:

Nomenclature	PN	Specification	Qty	Task
Tag, Warning	--	--	2	2-1

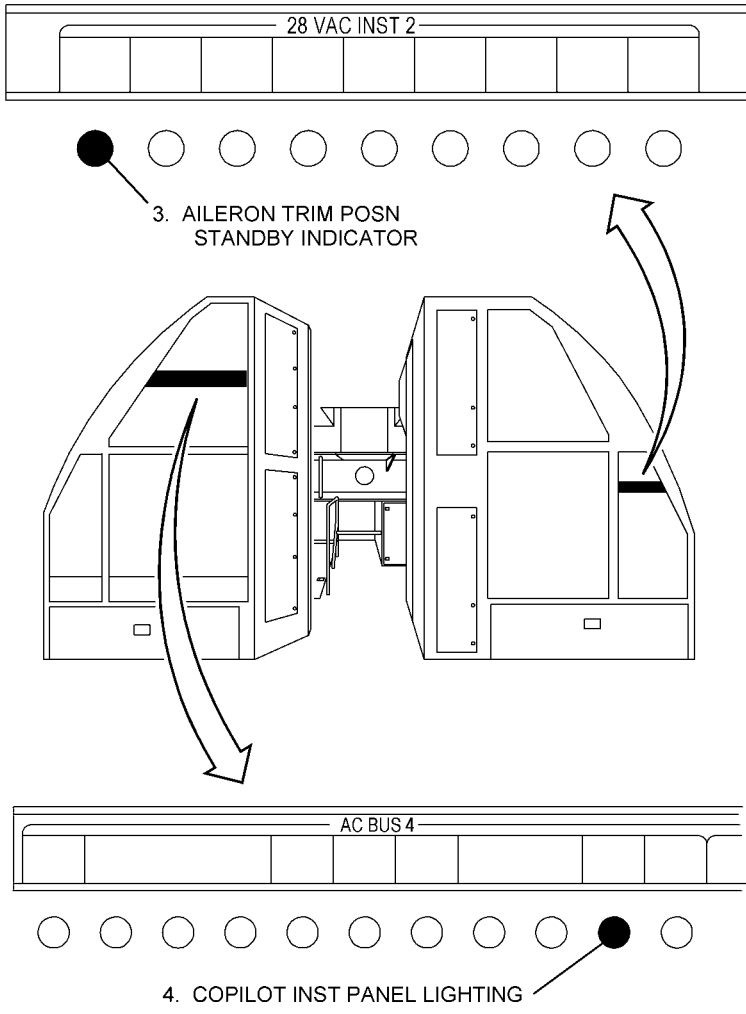
2-1. PREPARATION.

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. Open **AILERON TRIM POSN STANDBY INDICATOR** circuit breaker on Electrical Power Center (EPC), row **EE**, column **68**, and attach warning tag.

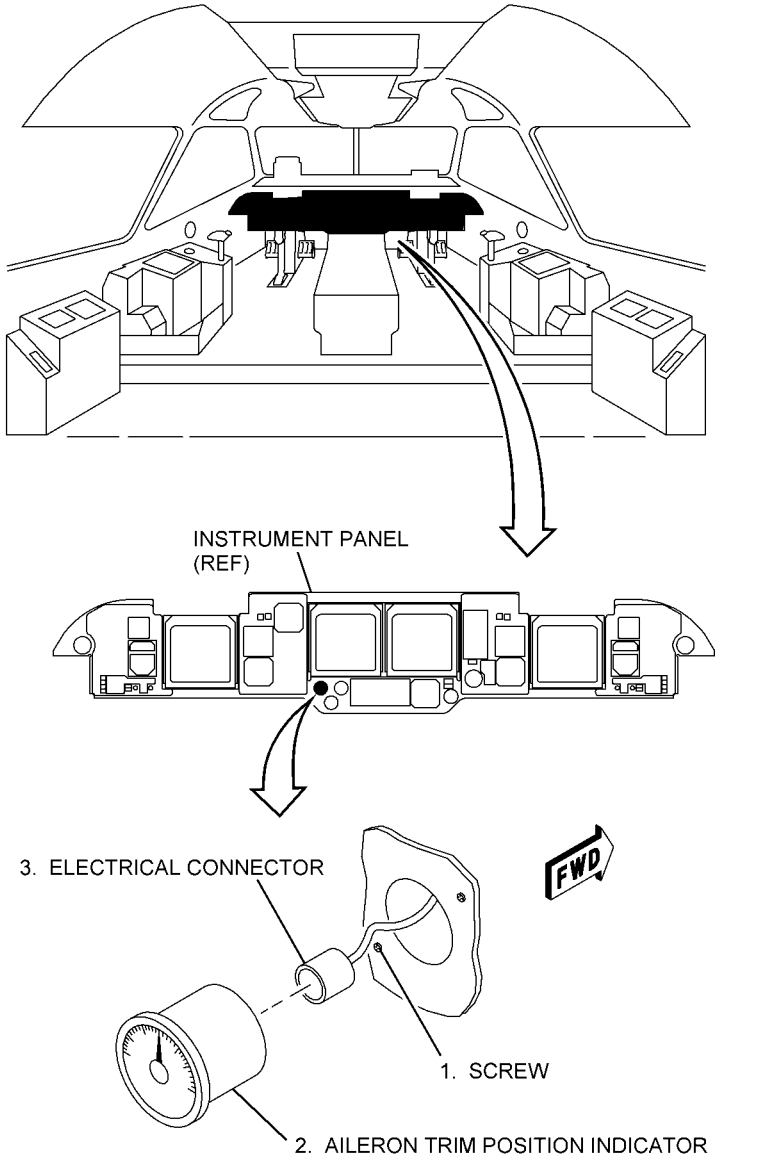
4. Open **COPILOT INST PANEL LIGHTING** circuit breaker on EPC, row **E**, column **30**, and attach warning tag.



ICN-88277-G2714002-004-01

2-2. REMOVAL.

1. Loosen screw.
2. Remove aileron trim position indicator from instrument panel.
3. Disconnect electrical connector.



ICN-88277-G2714003-005-01

AILERON TRIM POSITION INDICATOR INSTALLATION (27-14-10-3)

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
NA	--

Personnel recommended:

	Task
One	All

Safety conditions:

	Task
NA	--

Support equipment:

Nomenclature	PN	Specification	Qty	Task
NA	--	--	--	--

Supplies:

Nomenclature	PN	Specification	Qty	Task
NA	--	--	--	--

3-1. INSTALLATION.

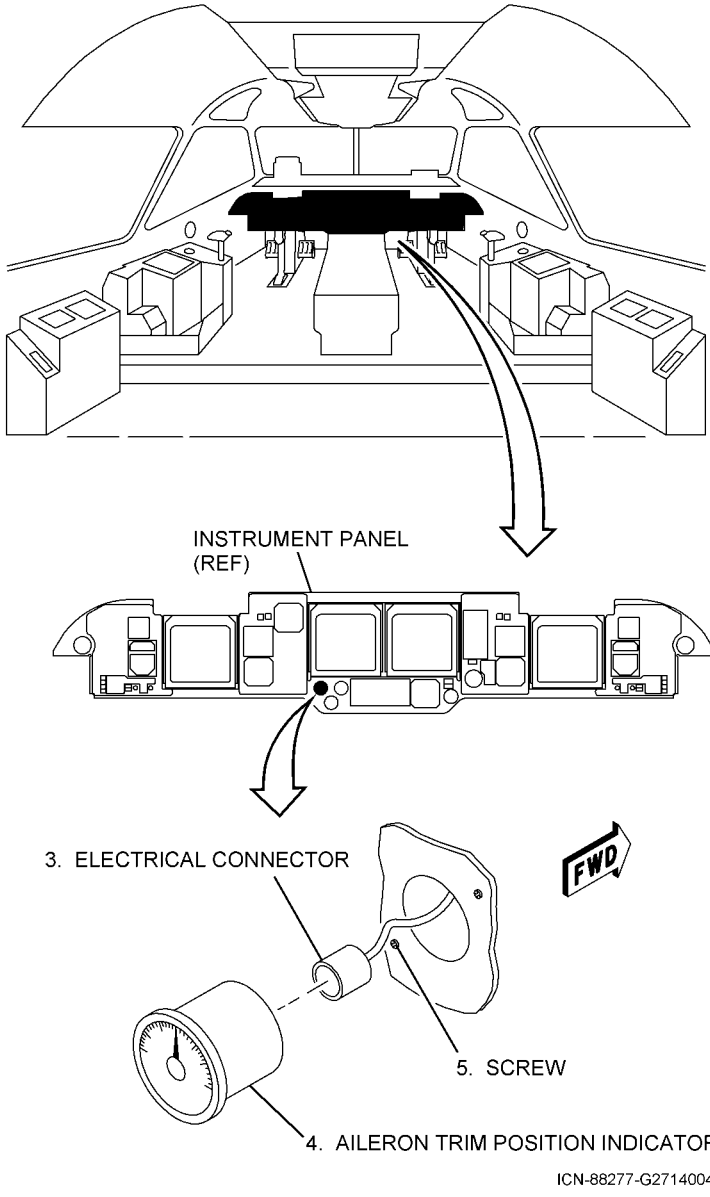
1. Review ″Section 1 (General Information)″ of this TO for system general warnings, cautions, and notes.

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

3. Connect electrical connector (2714PP001).

4. Install aileron trim position indicator in instrument panel.

5. Tighten screw.



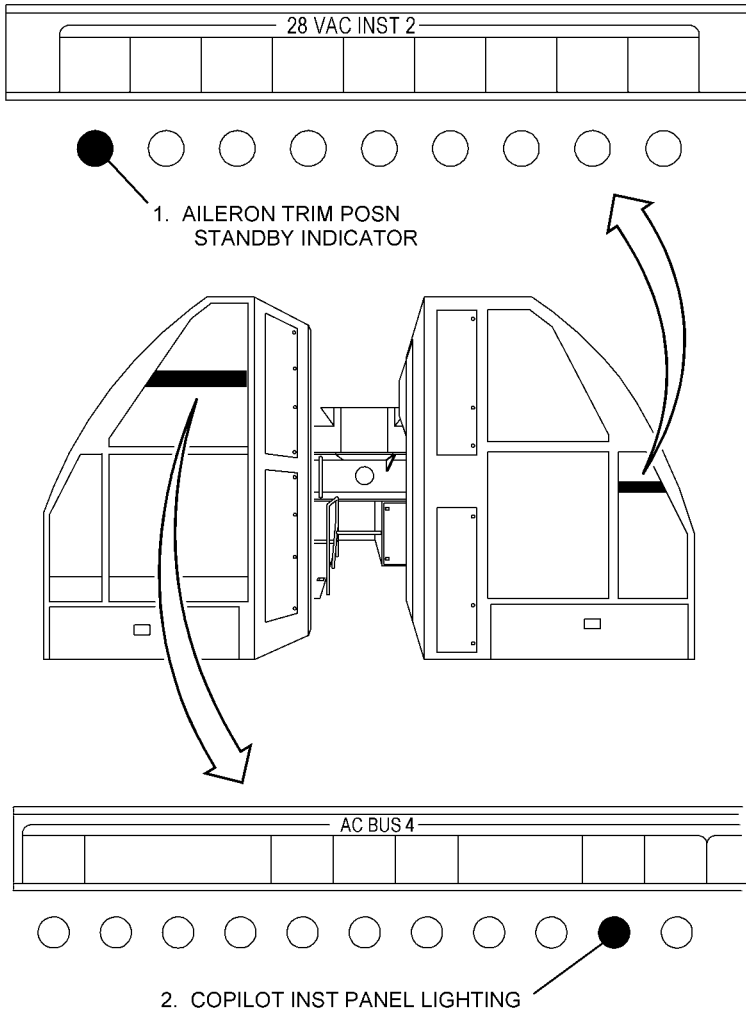
ICN-88277-G2714004-005-01

3-2. FOLLOW-ON MAINTENANCE.

1. Remove warning tag and close **AILERON TRIM POSN STANDBY INDICATOR** circuit breaker on Electrical Power Center (EPC), row **EE**, column **68**.

2. Remove warning tag and close **COPILOT INST PANEL LIGHTING** circuit breaker on EPC, row **E**, column **30**.

3. Perform aileron trim position indicator operational checkout (task 1-1).



ICN-88277-G2714005-004-01

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

MASTER INPUT CONDITIONS:

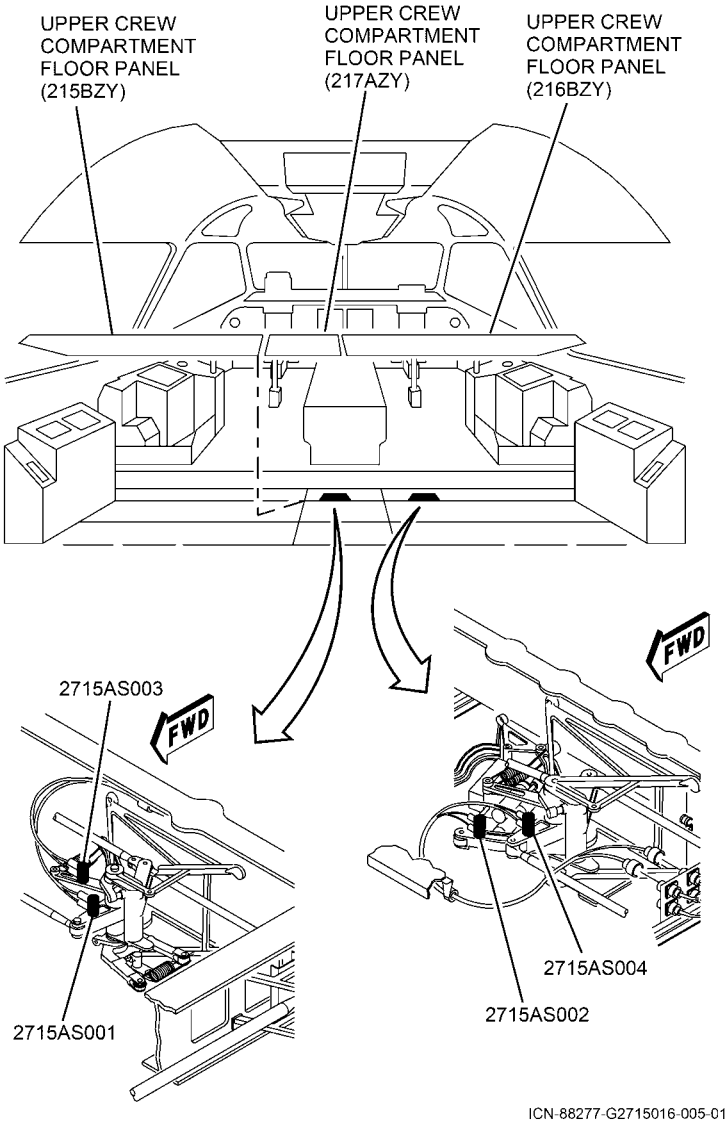
Reference designators:

2715AS001	Pilot Aileron Position-Rotary Variable Differential Transducer Sensor
2715AS002	Copilot Aileron Position-Rotary Variable Differential Transducer Sensor
2715AS003	Pilot Aileron Position-Rotary Variable Differential Transducer Sensor
2715AS004	Copilot Aileron Position-Rotary Variable Differential Transducer Sensor

Applicable functions:

-1 Maintenance Built-in Test.
-2 Removal.
-3 Installation.
-5 Adjustment.

Access data:


UPPER CREW COMPARTMENT FLOOR PANEL (215BZY)
UPPER CREW COMPARTMENT FLOOR PANEL (217AZY)
UPPER CREW COMPARTMENT FLOOR PANEL (216BZY)
2715AS003
FWD
2715AS001
FWD
2715AS004
2715AS002
ICN-88277-G2715016-005-01

COPILOT AILERON POSITION SENSOR MAINTENANCE BUILT-IN TEST (27-15-10-1)

FUNCTIONAL INPUT CONDITIONS:

Applicability:

	Task
All	All

Additional information:

This procedure consists of the following task:

1-1. Copilot aileron position sensors maintenance built-in test.

NOTE	Task
This is a typical maintenance built-in test task for copilot aileron position sensors 2715AS002 and 2715AS004.	All

Additional data:

	Task
TO 1300i-2-12JG-29-1	All
TO 1300i-2-27FI-00-1	All
TO 1300i-2-31JG-60-1	All

Personnel recommended:

	Task
One	All

Safety conditions:

	Task
WARNING	
Equipment must be clear of flight control surfaces. Failure to comply may cause injury or death to personnel or damage to equipment and aircraft.	All

Support equipment:

Nomenclature	PN	Specification	Qty	Task
NA	--	--	--	--

Supplies:

Nomenclature	PN	Specification	Qty	Task
NA	--	--	--	--

1-1. COPILOT AILERON POSITION SENSORS MAINTENANCE BUILT-IN TEST.

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. Operate multifunction displays system and select **CFG** format (31-61-02, task 02-1 or 02-2).

WARNING

All flight control surfaces and thrust reversers 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.

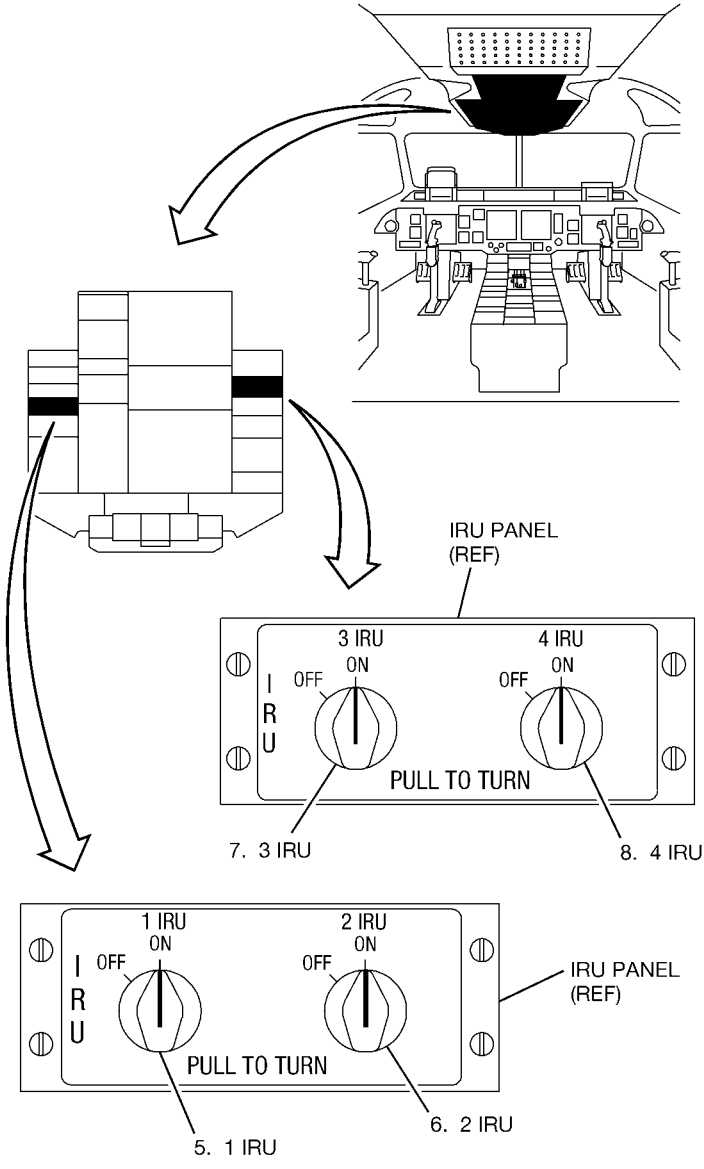
4. Operate auxiliary hydraulic system (29-20-01, task 01-1).

5. Set **1 IRU** switch on **IRU** panel to **ON**.

6. Set **2 IRU** switch to **ON**.

7. Set **3 IRU** switch on **IRU** panel to **ON**.

8. Set **4 IRU** switch to **ON**.



ICN-88277-G2715040-005-01

9. Set **PITCH** switch on **FCS ACTR** panel to **EFCS**.

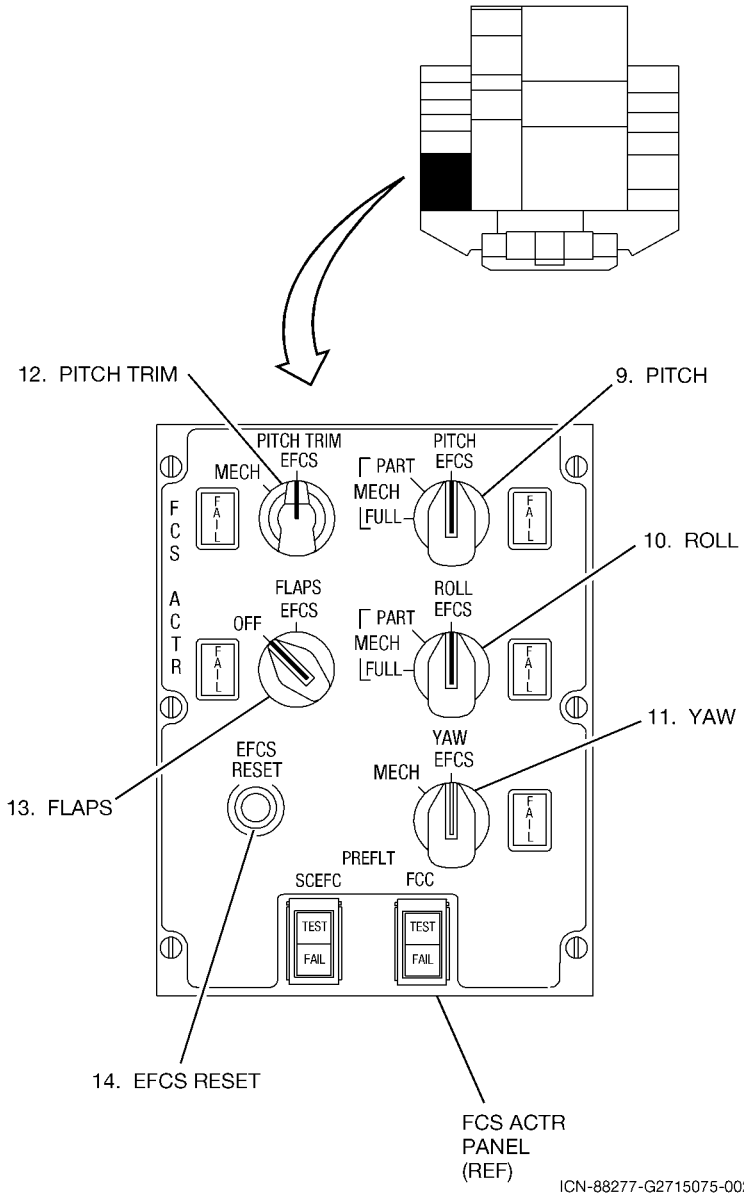
10. Set **ROLL** switch to **EFCS**.

11. Set **YAW** switch to **EFCS**.

12. Set **PITCH TRIM** switch to **EFCS**.

13. Set **FLAP** switch to **EFCS**.

14. Press **EFCS RESET** button.



ICN-88277-G2715075-002-01

15. Press **MSN** key on **MCD** (**DU**).

    - **MSN INDEX 1** displayed.

16. Press up arrow key.

    - **MSN INDEX 2** is displayed.

17. Press 6L Line Select (LS) key.

    - **MAINT MENU** is displayed.

18. Press 3L LS key.

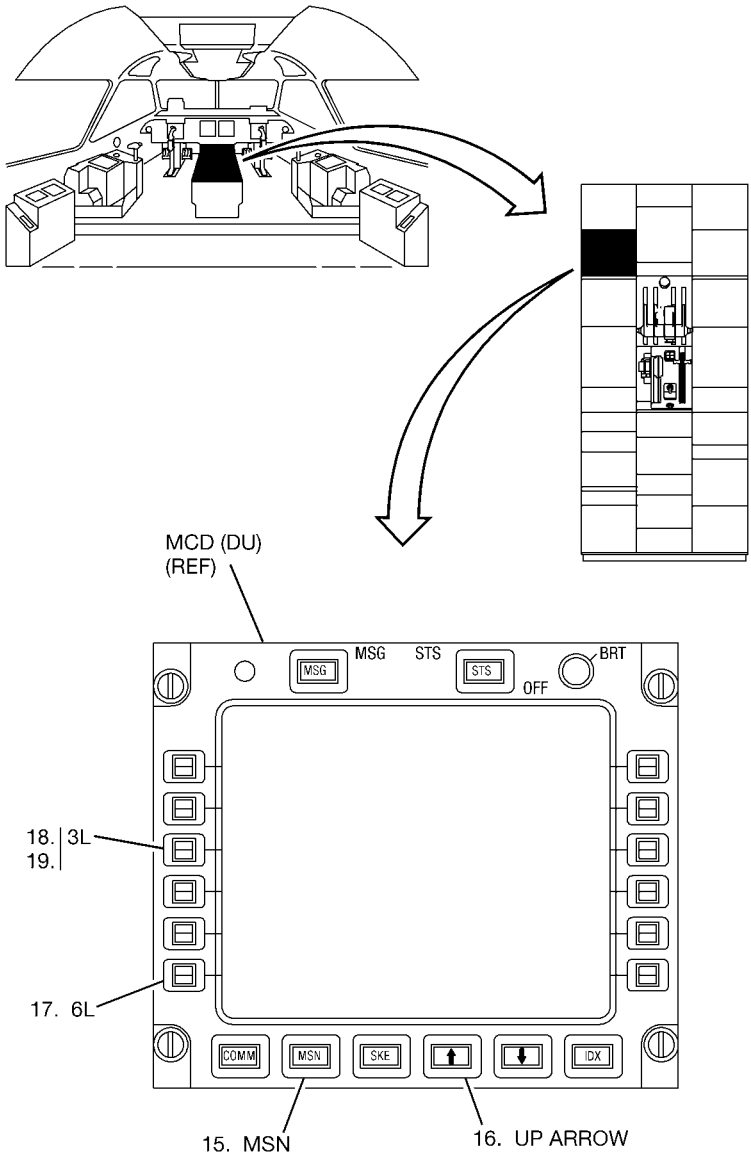
    - **SCEFC MAINT MENU** is displayed.

NOTE

A fault list history of each line replaceable unit can be accessed form **EFCS MAINT MENU** page by pressing 1L or 2L LS key.

19. Press 3L LS key.

    - **SCEFC MAINTENANCE BIT** is displayed.



ICN-88277-G2715041-004-01

20. Set **GND SPLR** switch on **AUTOMATIC PILOT CONTROL INDICATOR** panel to ARM.

    - **SCEFC MAINTENANCE BIT ENTRY IN PROGRESS** is displayed.
    - **SCEFC MAINTENANCE BIT** page **1/3** is displayed.

    NOTE

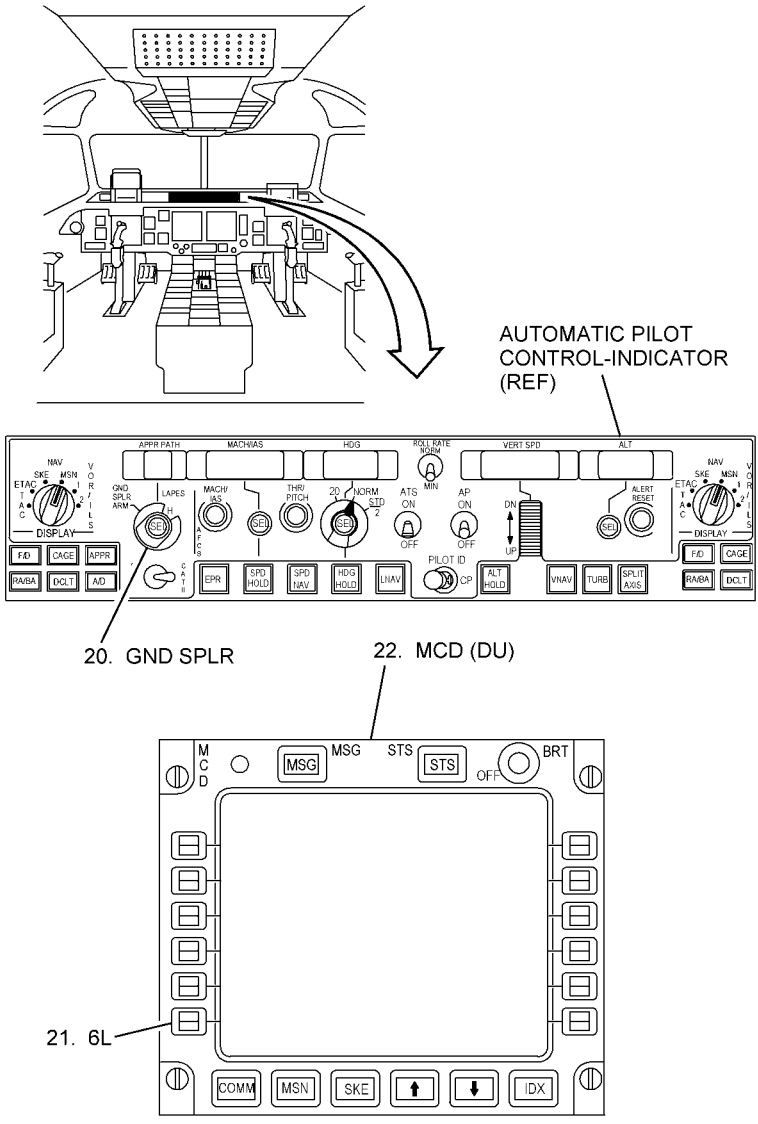
    - Do not touch LS keys, control sticks, rudder pedals, or flap/slat handle while **IN PROGRESS** is displayed.
    - Test may be aborted at any time by pressing 6L LS key.
    - Refer to (TO 1300i-2-27FI-00-1, Chapter 3) to correct any failure condition.

21. Press 6L LS key on **MCD** (**DU**).

    - **SCEFC MAINTENANCE BIT CRS IN PROGRESS** is displayed.

22. Follow instructions on **MCD** (**DU**).

    - **TEST PASSED** is displayed.



ICN-88277-G2715042-005-01

23. Press 6R LS key.

    - **SCEFC MAINTENANCE BIT** page **1/3** is displayed.

24. Press 6R LS key.

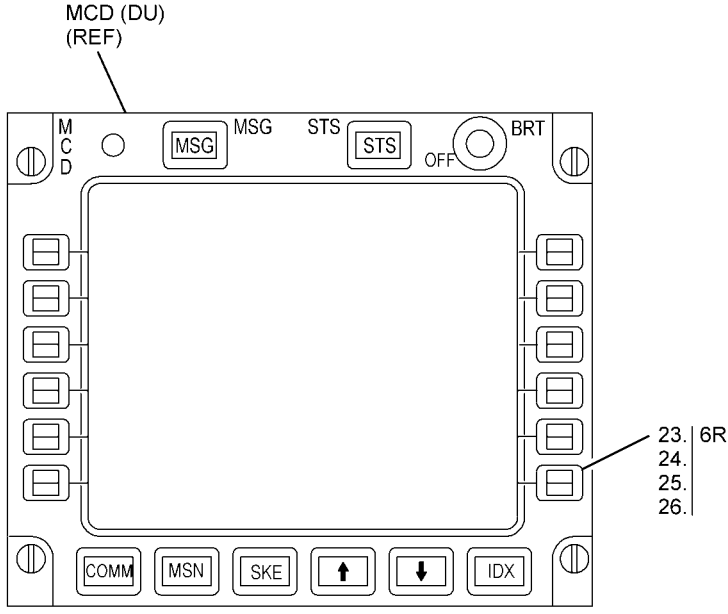
    - **SCEFC MAINT MENU** is displayed.

25. Press 6R LS key.

    - **MAINTENANCE MENU** is displayed.
    - **GND SPLR** switch disarms.

26. Press 6R LS key.

    - **MSN INDEX 2** is displayed.



ICN-88277-G2715043-005-01

27. Shutdown auxiliary hydraulic system (29-20-01, task 01-2).

28. Set **FLAPS** switch on **FCS ACTR** panel to **OFF**.

29. Set **PITCH** switch to **FULL MECH**.

30. Set **ROLL** switch to **FULL MECH**.

31. Set **YAW** switch to **MECH**.

32. Set **PITCH TRIM** switch to **MECH**.

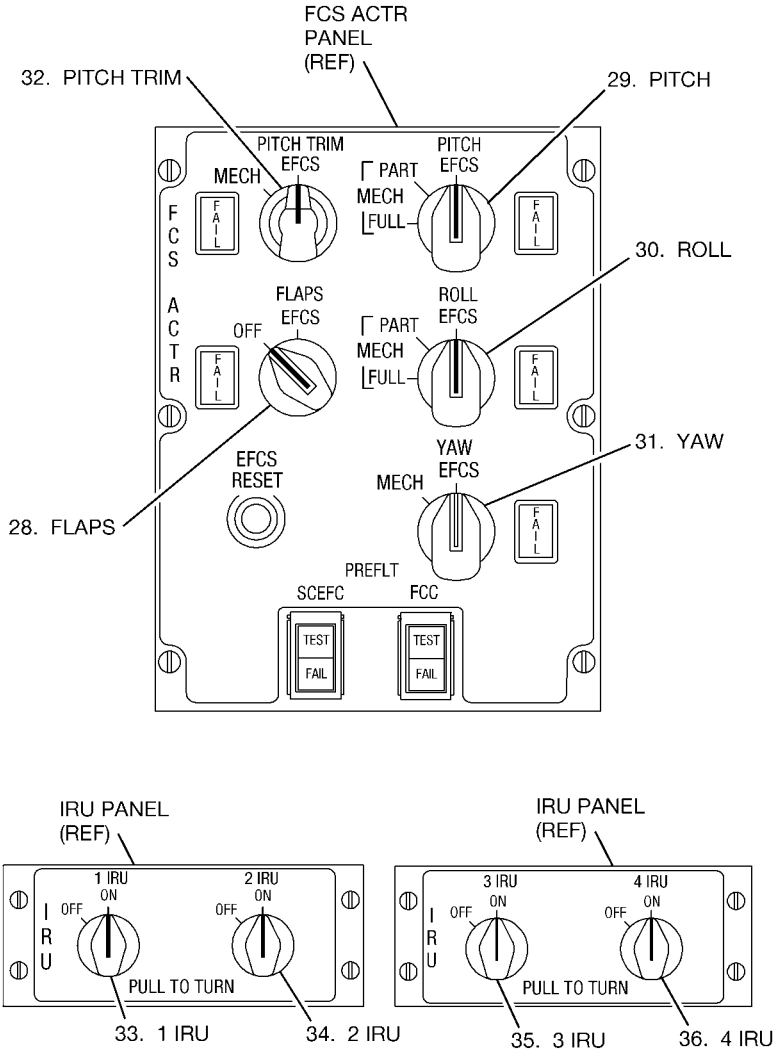
33. Set **1 IRU** switch on **IRU** panel to **OFF**.

34. Set **2 IRU** switch to **OFF**.

35. Set **3 IRU** switch on **IRU** panel to **OFF**.

36. Set **4 IRU** switch to **OFF**.

37. Shutdown multifunction displays system (31-61-02, task 02-3 or 02-4).



ICN-88277-G2715044-004-01

AILERON POSITION-ROTARY VARIABLE DIFFERENTIAL TRANSDUCER SENSOR REMOVAL (27-15-10-2)

FUNCTIONAL INPUT CONDITIONS:

Applicability:

	Task
All	All

Additional information:

This procedure consists of the following tasks:

2-1. Preparation for 2715AS001 or 2715AS003.
2-2. Preparation for 2715AS002 or 2715AS004.
2-3. Removal for 2715AS001 or 2715AS003.
2-4. Removal for 2715AS002 or 2715AS004.
2-5. Follow-on maintenance.

	Task
NOTE This is a typical removal task for all aileron position-rotary variable differential transducer sensors.	All

Additional data:

	Task
TO 1-1A-14	2-5
TO 1300i-2-05JG-10-1	2-1, 2-2

Personnel recommended:

	Task
One	All

Safety conditions:

	Task
NA	--

Support equipment:

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

Supplies:

Nomenclature	PN	Specification	Qty	Task
Tag, Warning	--	--	5	2-1
Tag, Warning	--	--	7	2-2

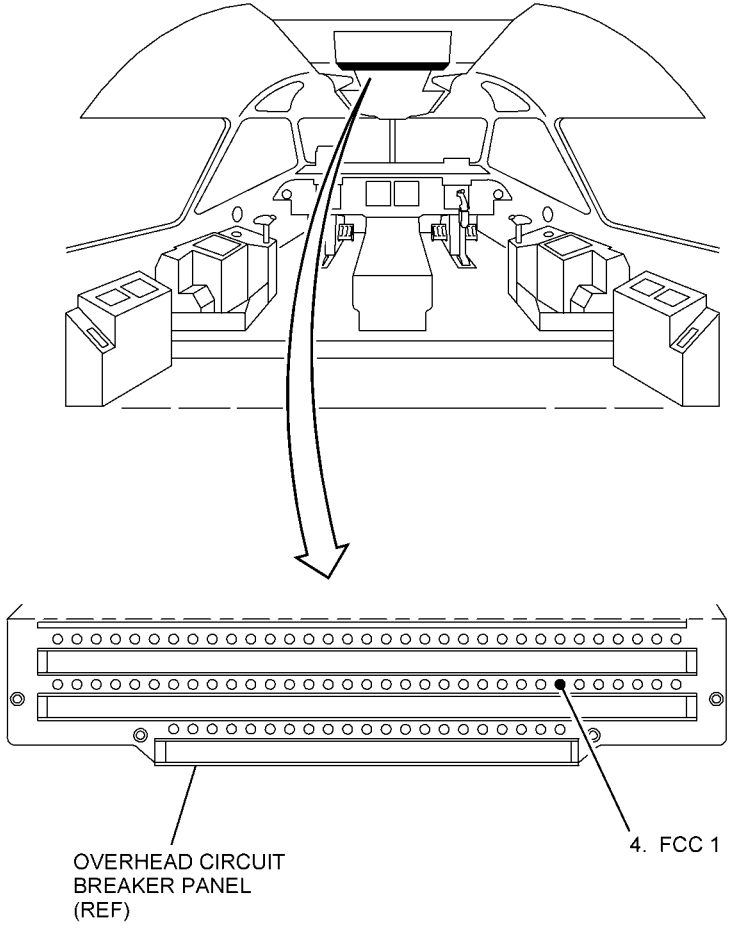
2-1. PREPARATION FOR 2715AS001 OR 2715AS003.

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.

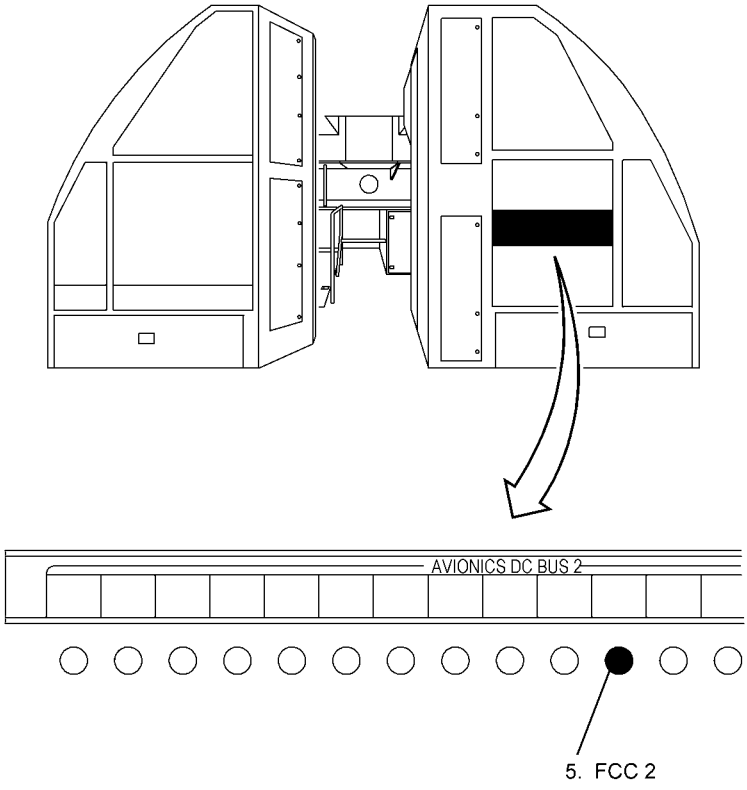
3. Connect external electrical power (10-61-01, task 01-1).

4. Open **FCC 1** circuit breaker on overhead circuit breaker panel, row **H**, column **27**, and attach warning tag.



ICN-88277-G2715002-005-01

5. Open **FCC 2** circuit breaker on Electrical Power Center (EPC), row **T**, column **50**, and attach warning tag.



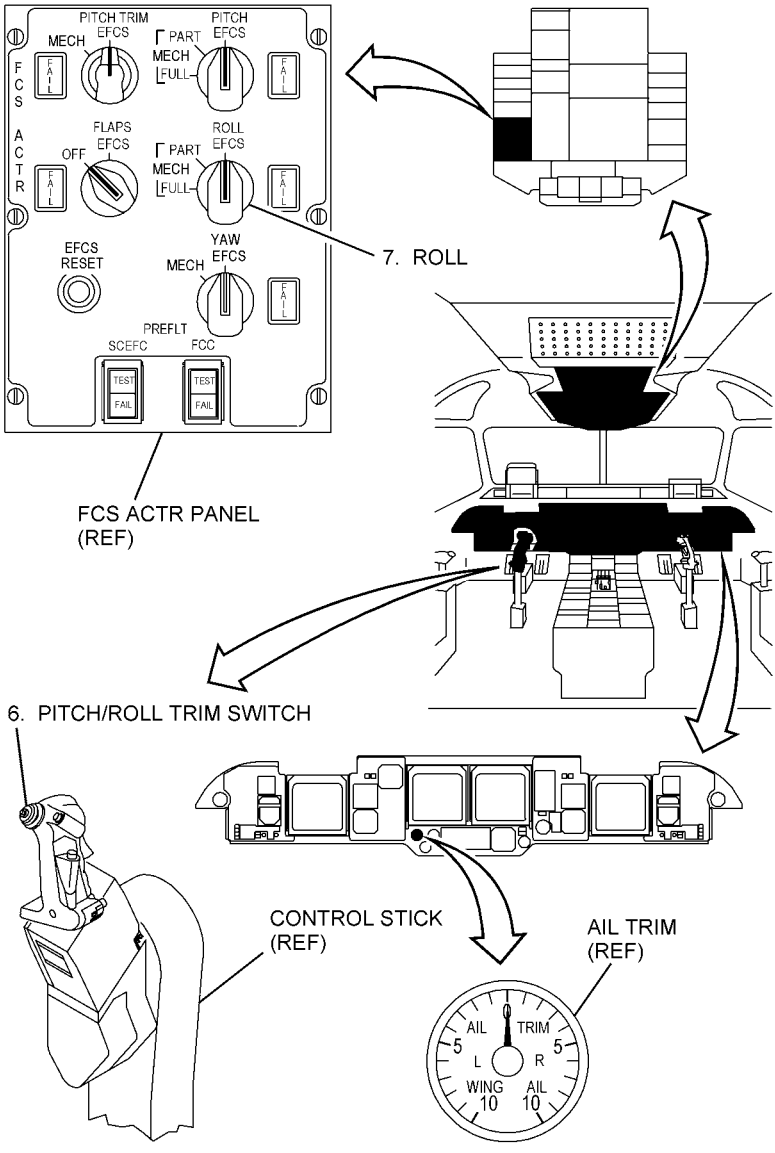
ICN-88277-G2715003-005-01

WARNING

All flight control surfaces and thrust reversers 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.

6. Set pitch/roll trim switch on control stick to **LWD** or **RWD** until **AIL TRIM** indicator shows **0**.

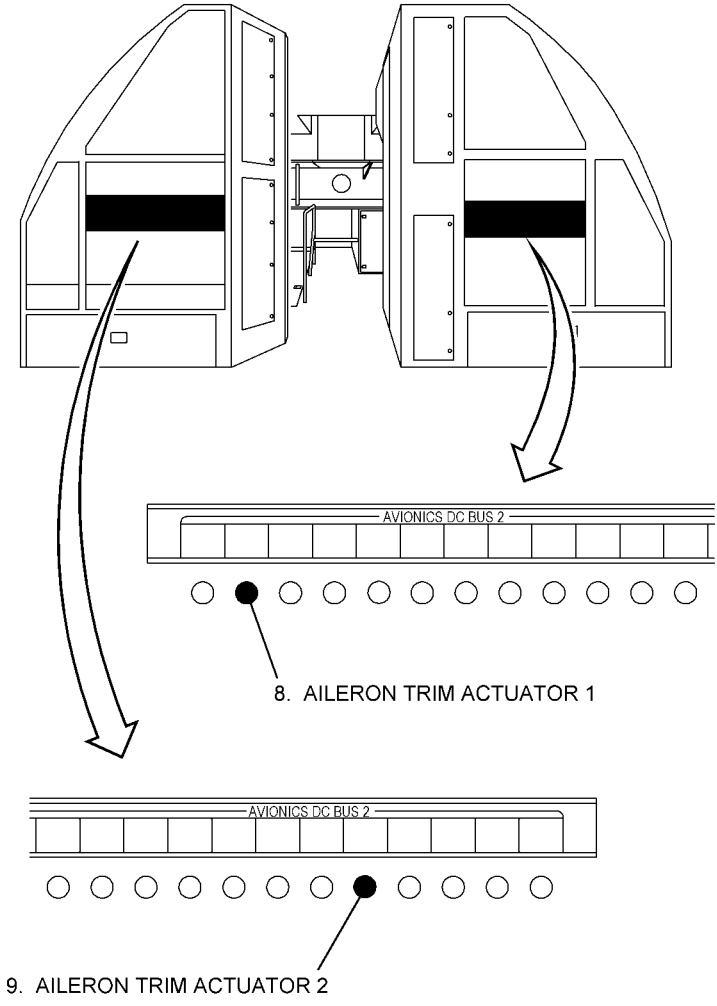
7. Set **ROLL** switch on **FCS ACTR** panel to **PART MECH**.



ICN-88277-G2715053-003-01

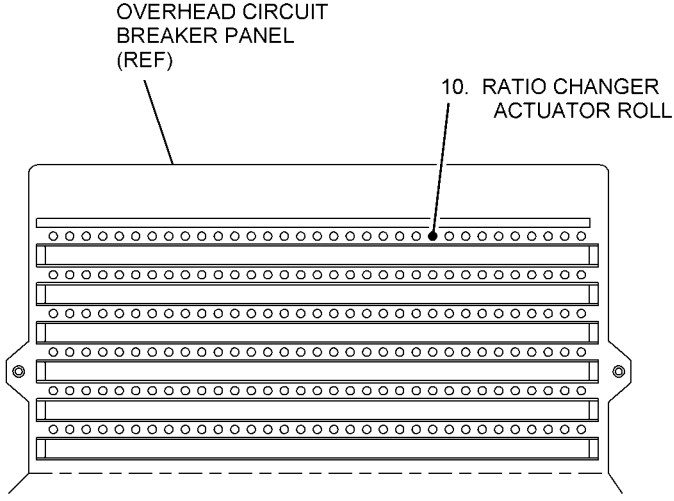
8. Open **AILERON TRIM ACTUATOR 1** circuit breaker on EPC, row **U**, column **41**, and attach warning tag.

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



ICN-88277-G2715054-003-01

10. Open **RATIO CHANGER ACTUATOR ROLL** circuit breaker on overhead circuit breaker panel, row **A**, column **24**, and attach warning tag.



ICN-88277-G2715076-003-01

11. Remove screws from upper crew compartment floor panel (217AZY).

NOTE

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

12. Remove and discard nylon cords.

13. Remove upper crew compartment floor panel.

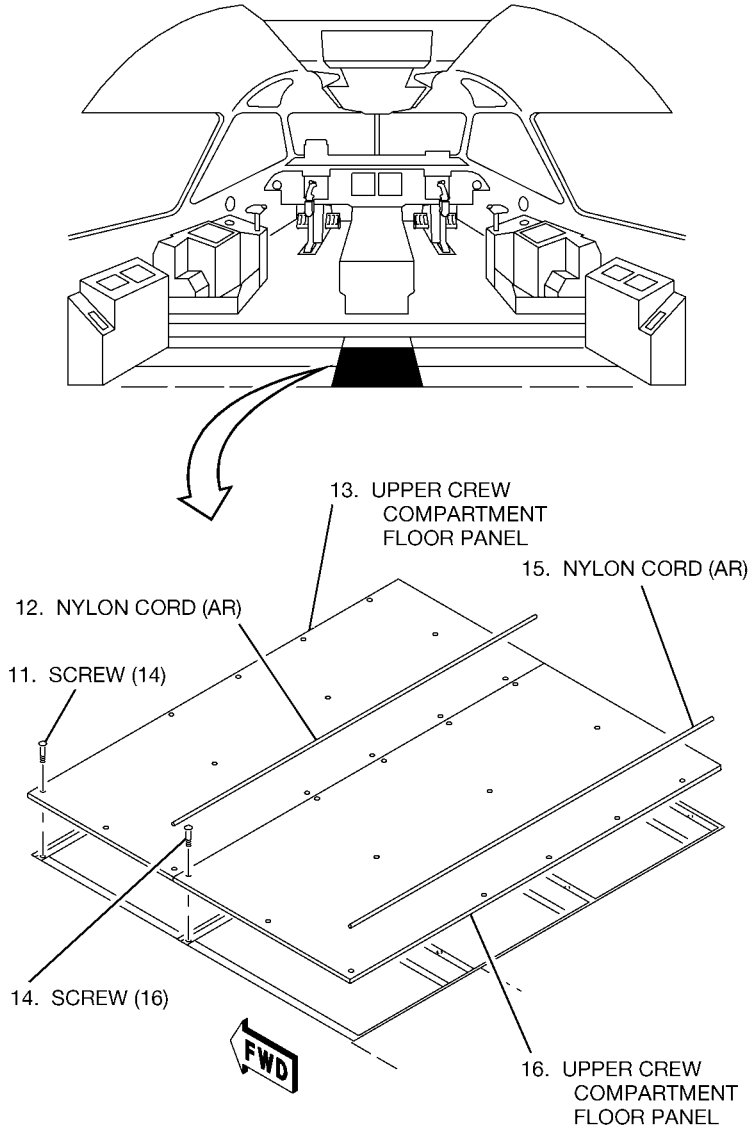
14. Remove screws from upper crew compartment floor panel (217BZY).

NOTE

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

15. Remove and discard nylon cords.

16. Remove upper crew compartment floor panel.



ICN-88277-G2715004-005-01

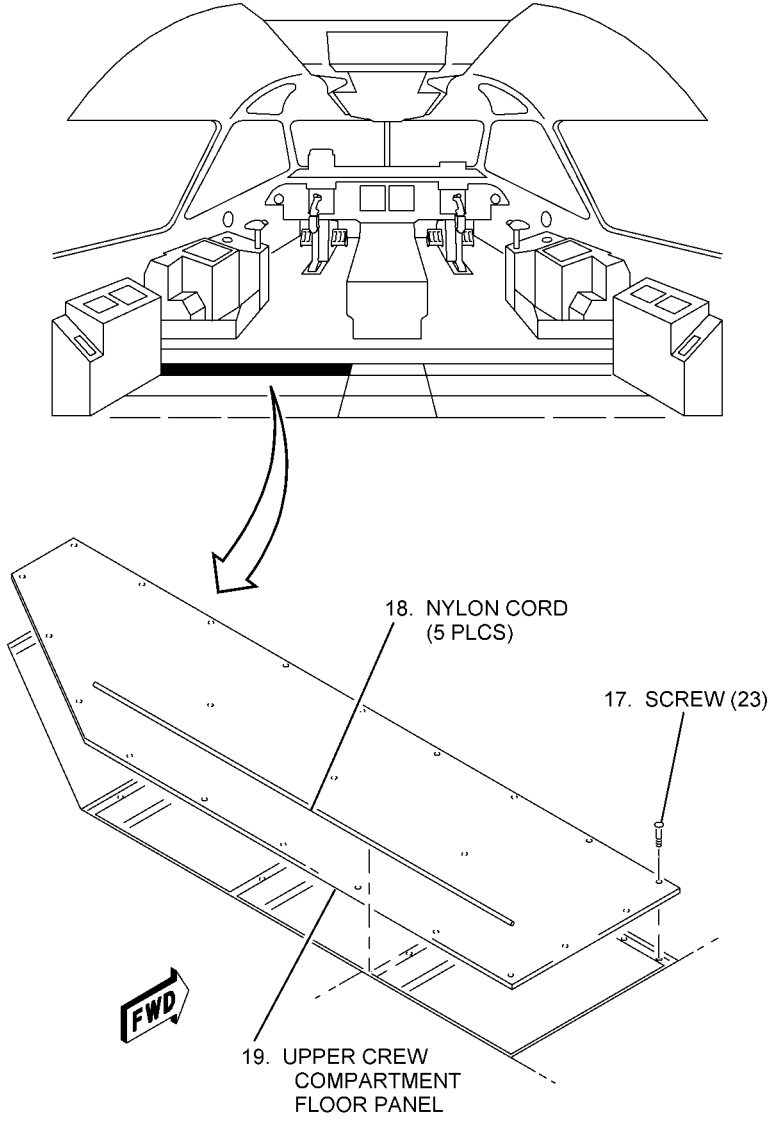
17. Remove screws from upper crew compartment floor panel (215BZY).

NOTE

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

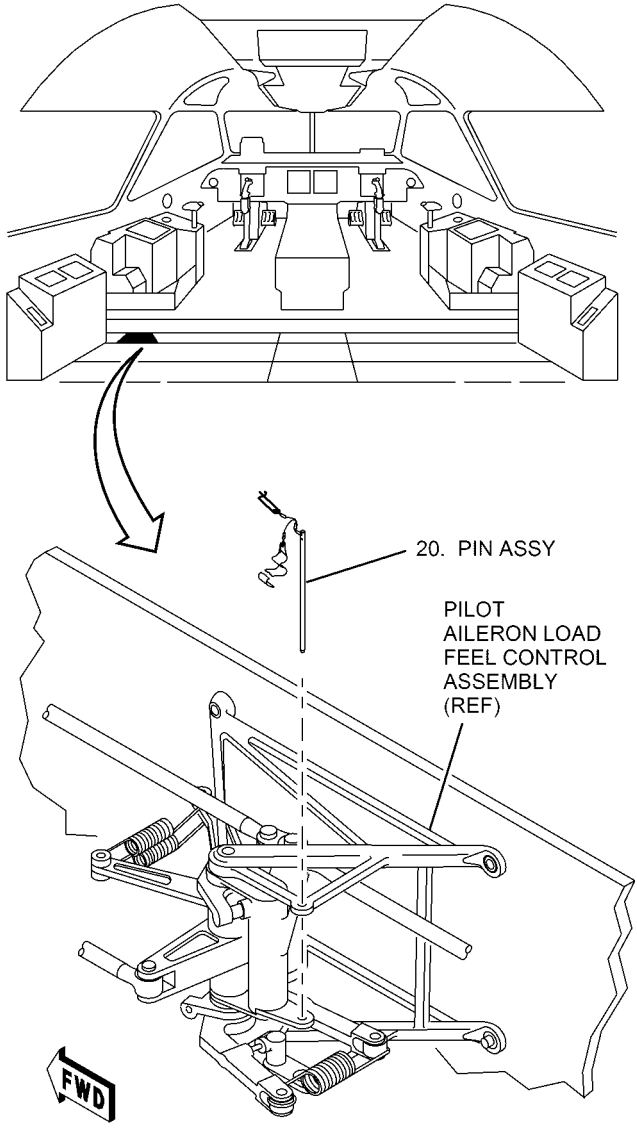
18. Remove and discard nylon cords.

19. Remove upper crew compartment floor panel.



ICN-88277-G2715005-005-01

20. Install pin assy 5-10 in pilot aileron load feel control assembly.



ICN-88277-G2715006-006-01

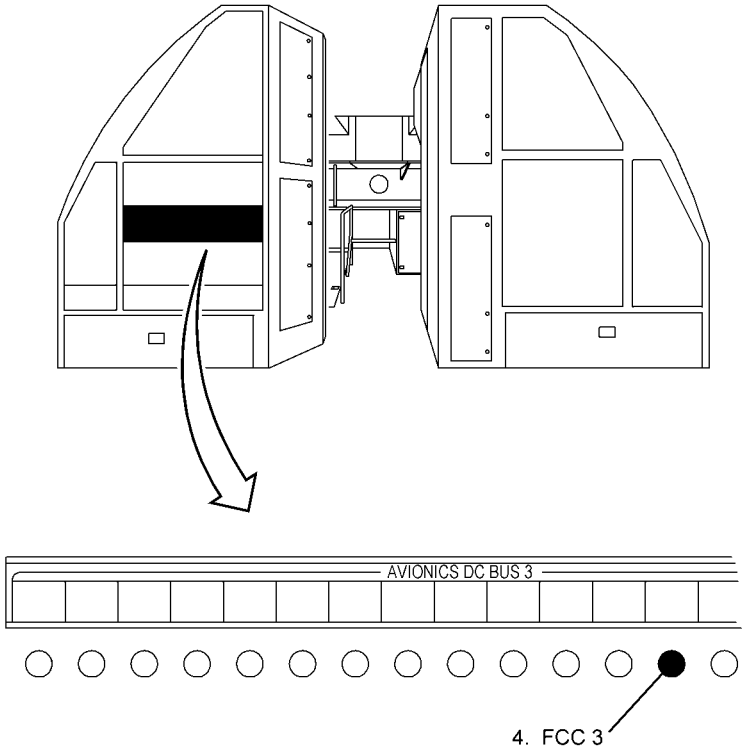
2-2. PREPARATION FOR 2715AS002 OR 2715AS004.

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

4. Open **FCC 3** circuit breaker on electrical power center, row **T**, column **24**, and attach warning tag.

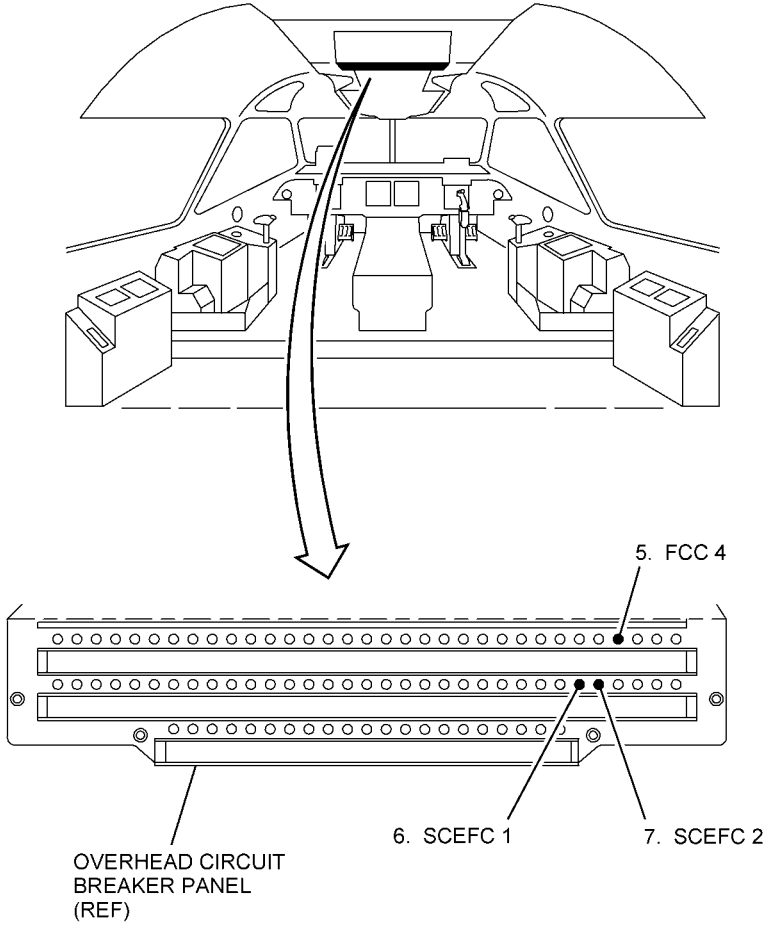


ICN-88277-G2715009-005-01

5. Open **FCC 4** circuit breaker on overhead circuit breaker panel, row **G**, column **30**, and attach warning tag.

6. Open **SCEFC 1** circuit breaker on overhead circuit breaker panel, row **H**, column **28**, and attach warning tag.

7. Open **SCEFC 2** circuit breaker on overhead circuit breaker panel, row **H**, column **29**, and attach warning tag.



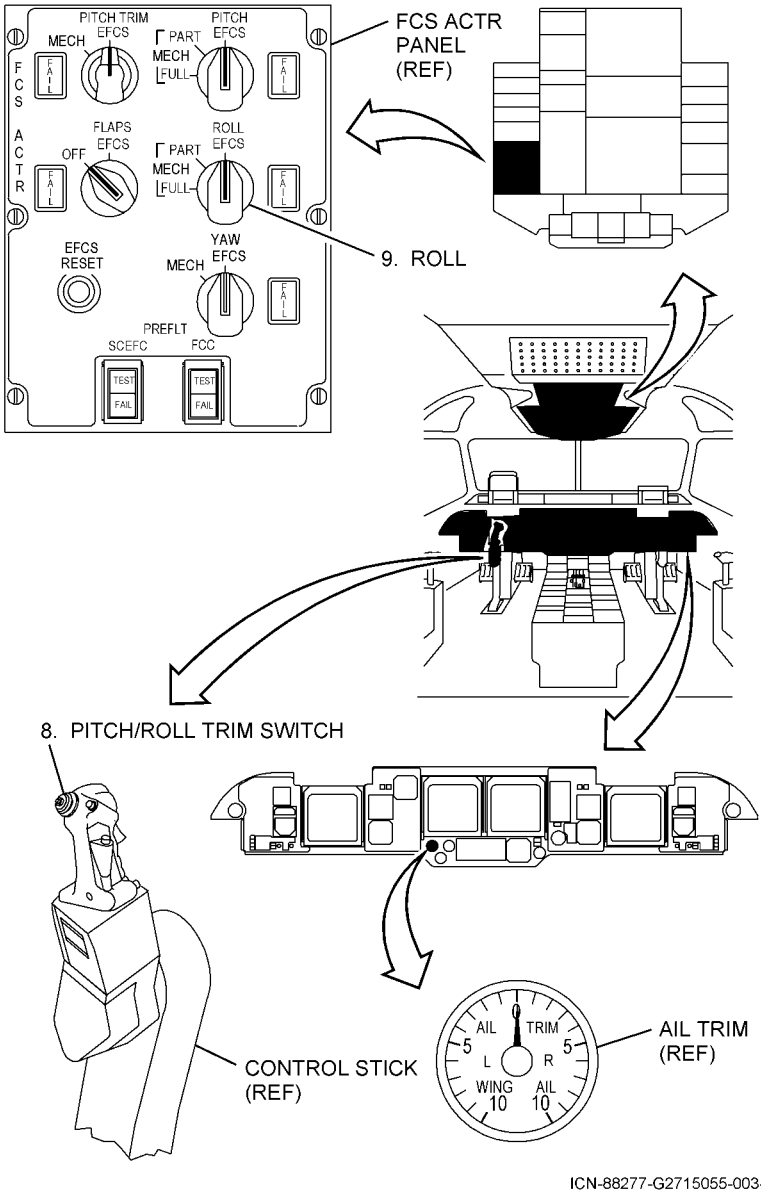
ICN-88277-G2715010-005-01

WARNING

All flight control surfaces and thrust reversers 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.

8. Set pitch/roll trim switch on control stick to **LWD** or **RWD** until **AIL TRIM** indicator shows **0**.

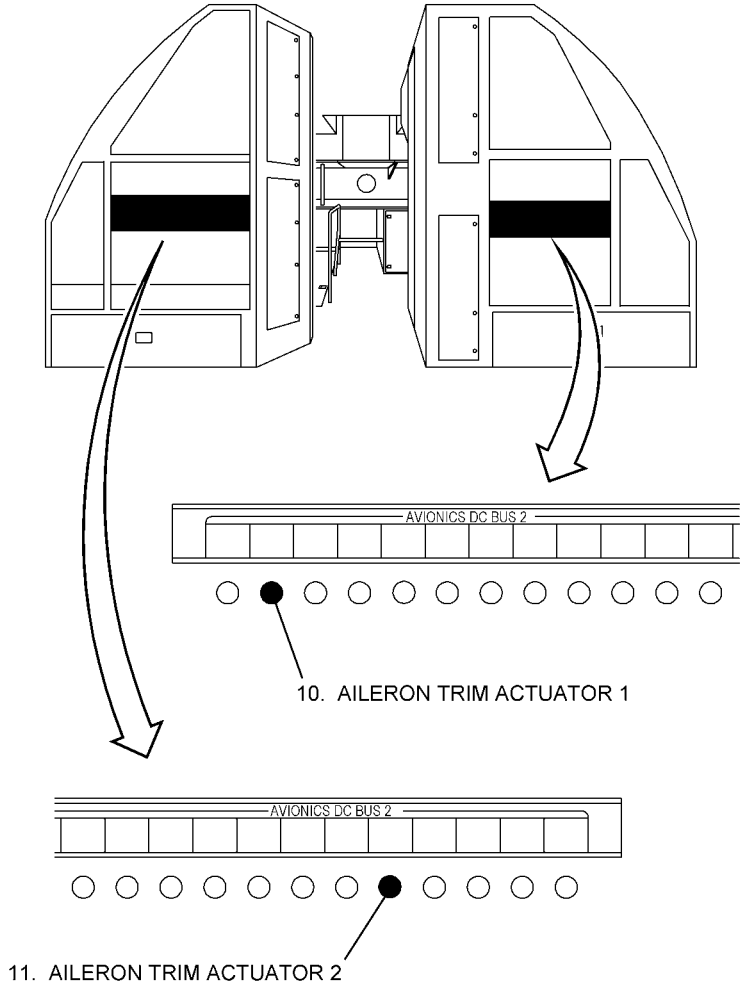
9. Set **ROLL** switch on **FCS ACTR** panel to **PART MECH**.



ICN-88277-G2715055-003-01

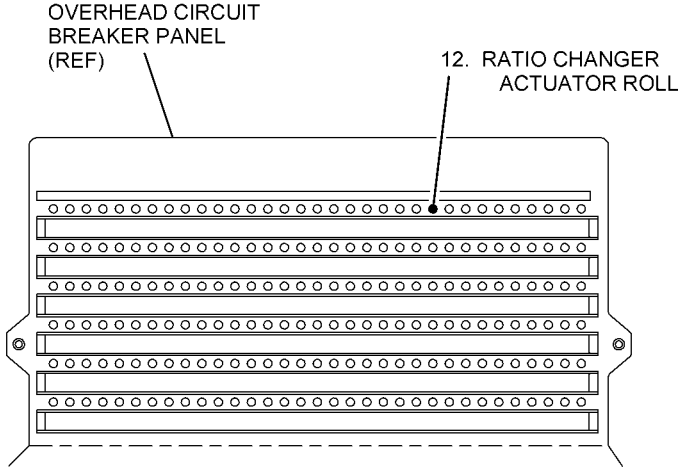
10. Open **AILERON TRIM ACTUATOR 1** circuit breaker on EPC, row **U**, column **41**, and attach warning tag.

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



ICN-88277-G2715056-003-01

12. Open **RATIO CHANGER ACTUATOR ROLL** circuit breaker on overhead circuit breaker panel, row **A**, column **24**, and attach warning tag.



ICN-88277-G2715077-003-01

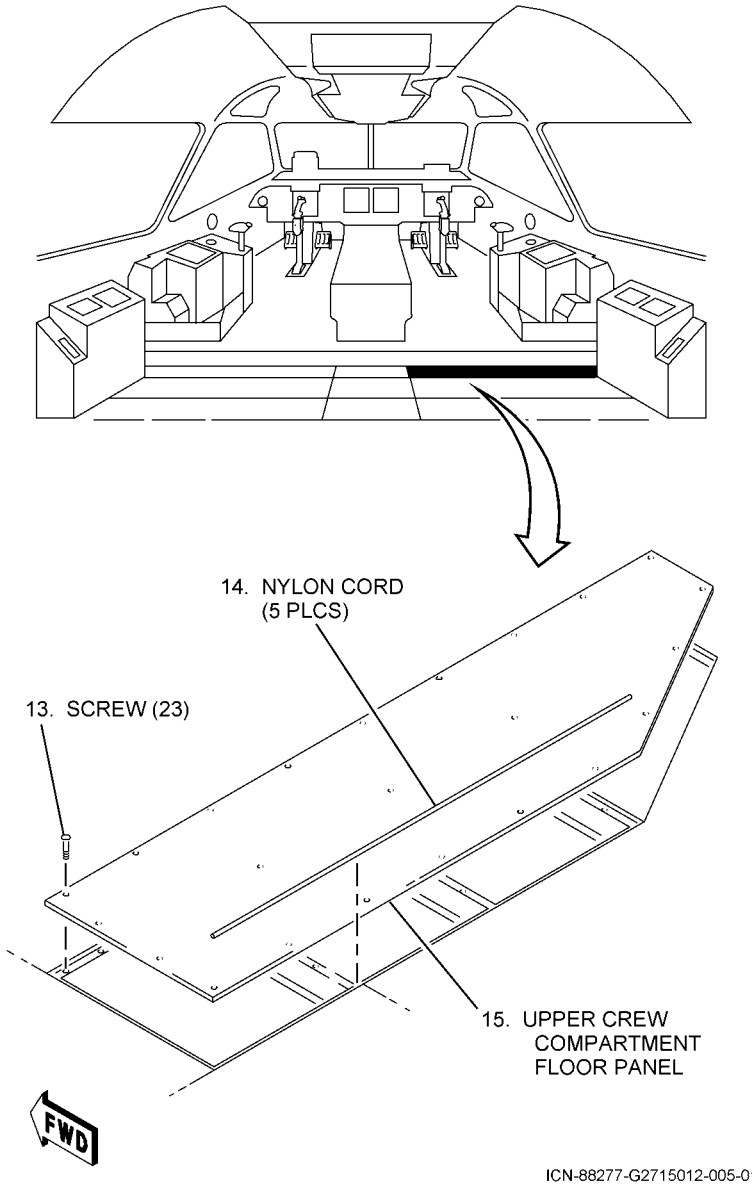
13. Remove screws from upper crew compartment floor panel (216BZY).

NOTE

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

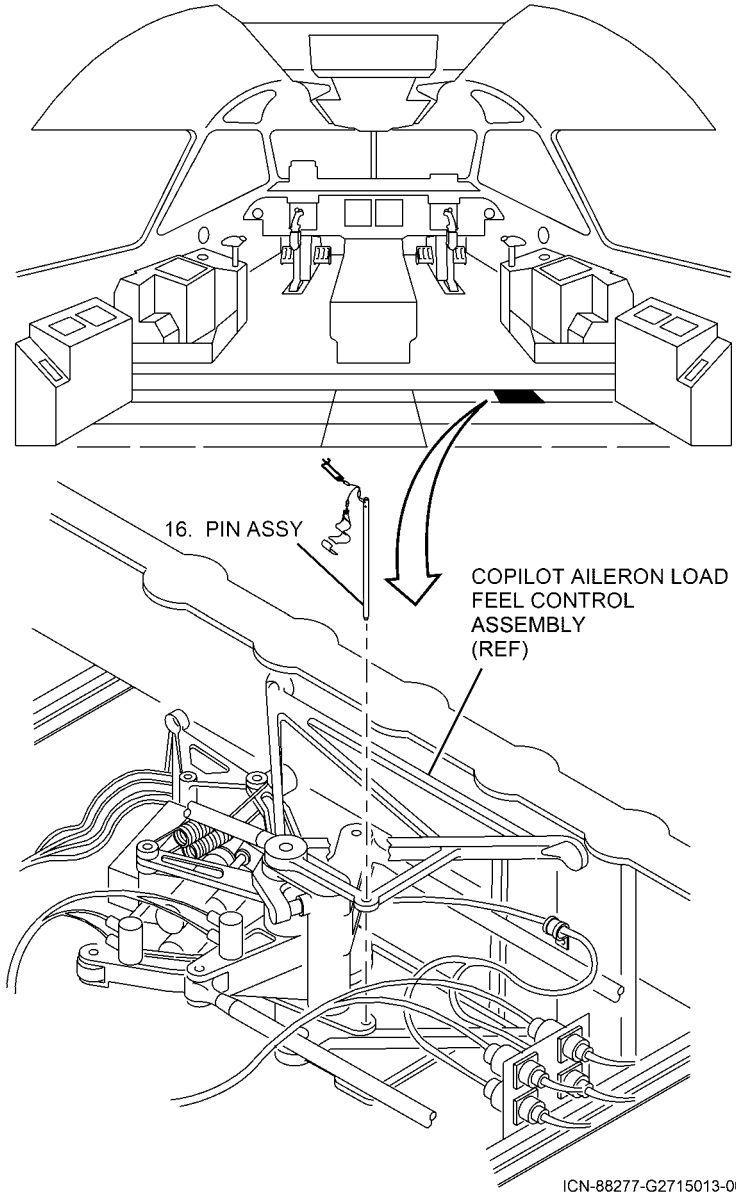
14. Remove and discard nylon cords.

15. Remove upper crew compartment floor panel.



ICN-88277-G2715012-005-01

16. Install pin assy 5-10 in copilot aileron load feel control assembly.



ICN-88277-G2715013-006-01

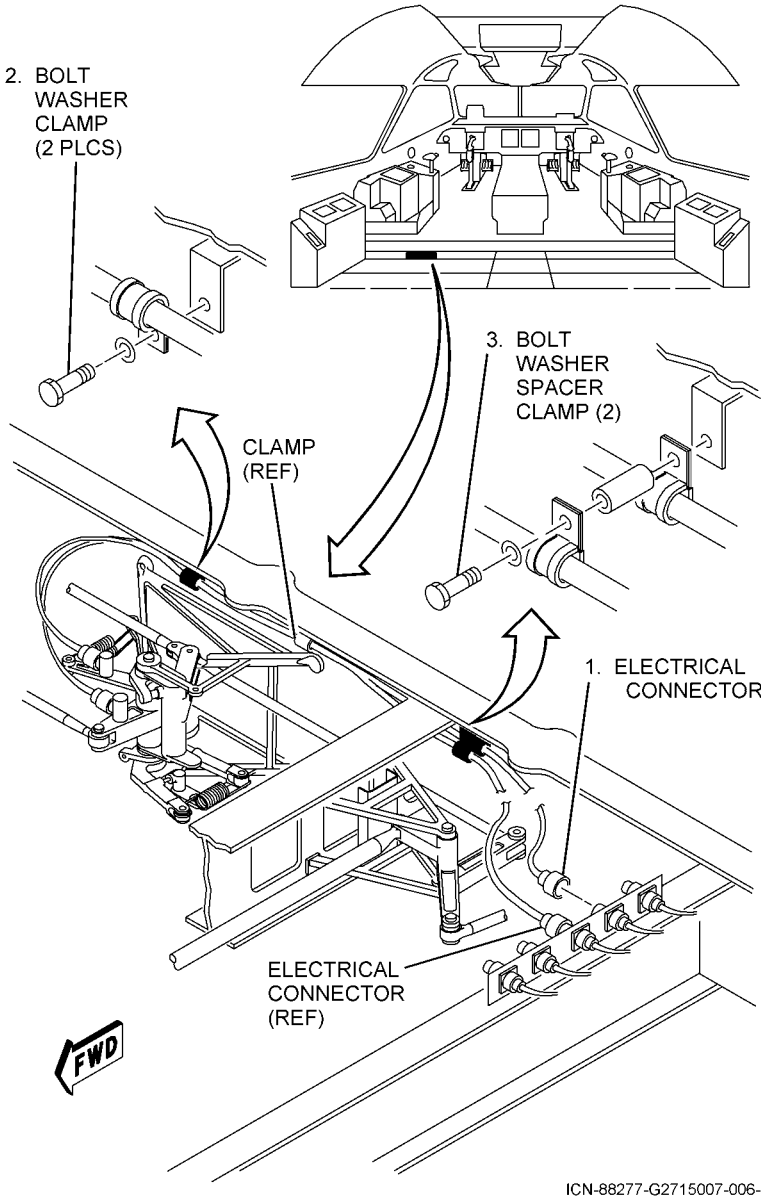
2-3. REMOVAL FOR 2715AS001 OR 2715AS003.

1. Disconnect electrical connector as follows:

RVDT REF DES	CONNECTOR REF DES	RECEPTACLE REF DES
2715AS001	2715PP001	2715JE001
2715AS003	2715PP003	2715JE003

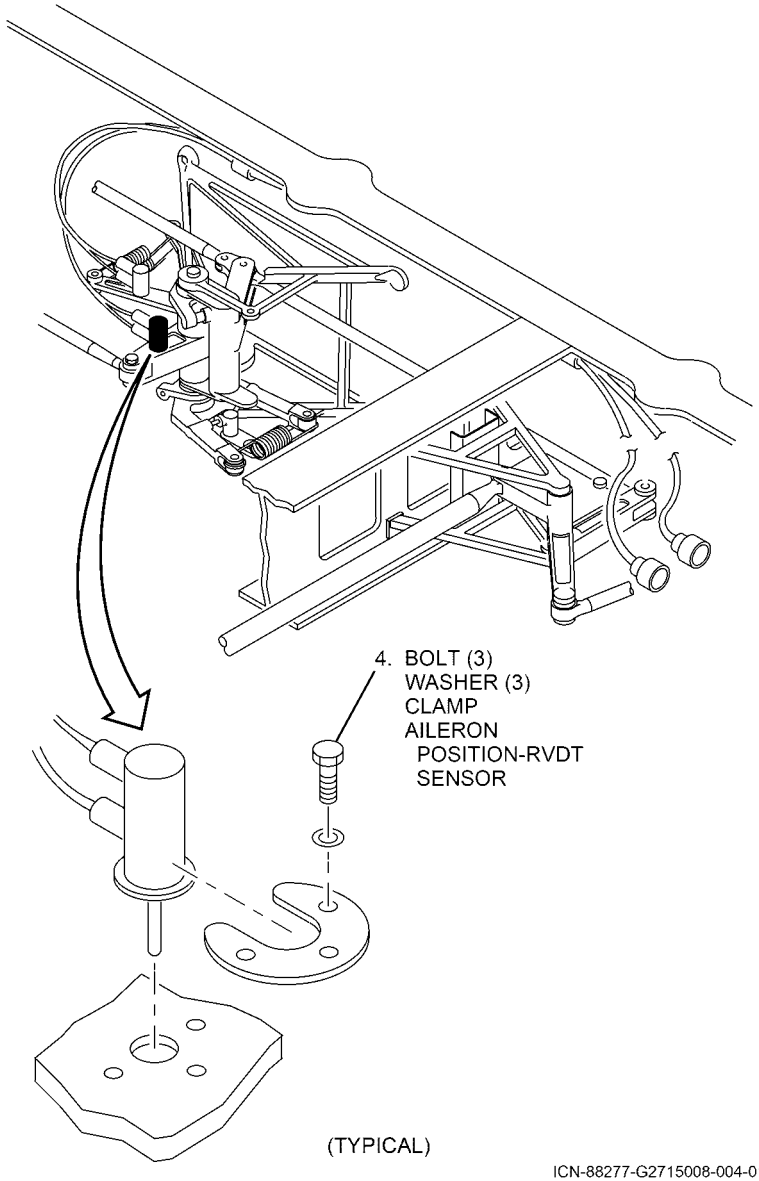
2. Remove bolts, washers, and clamps.

3. Remove bolt, washer, clamps, and spacer.



ICN-88277-G2715007-006-01

4. Remove safety wire, bolts, washers, clamp, and aileron position-Rotary Variable Differential Transducer (RVDT) sensor.



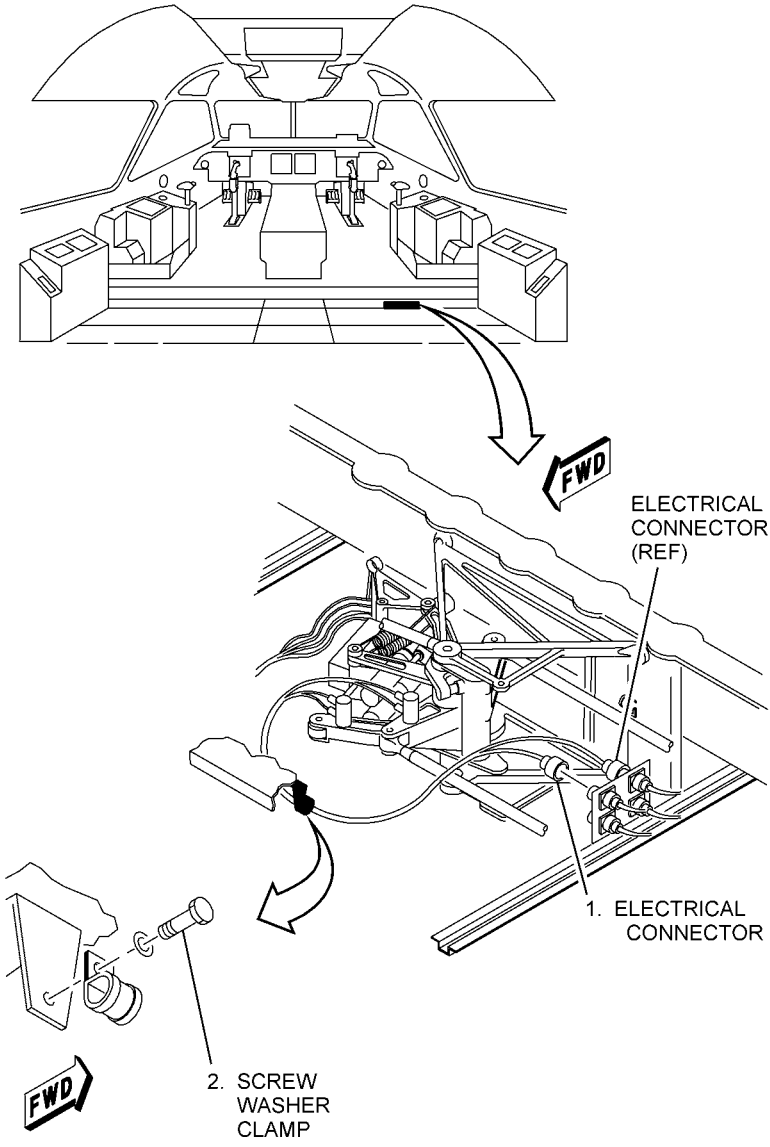
ICN-88277-G2715008-004-01

2-4. REMOVAL FOR 2715AS002 OR 2715AS004.

1. Disconnect electrical connector as follows:

RVDT REF DES	CONNECTOR REF DES	RECEPTACLE REF DES
2715AS002	2715PP002	2715JE002
2715AS004	2715PP004	2715JE004

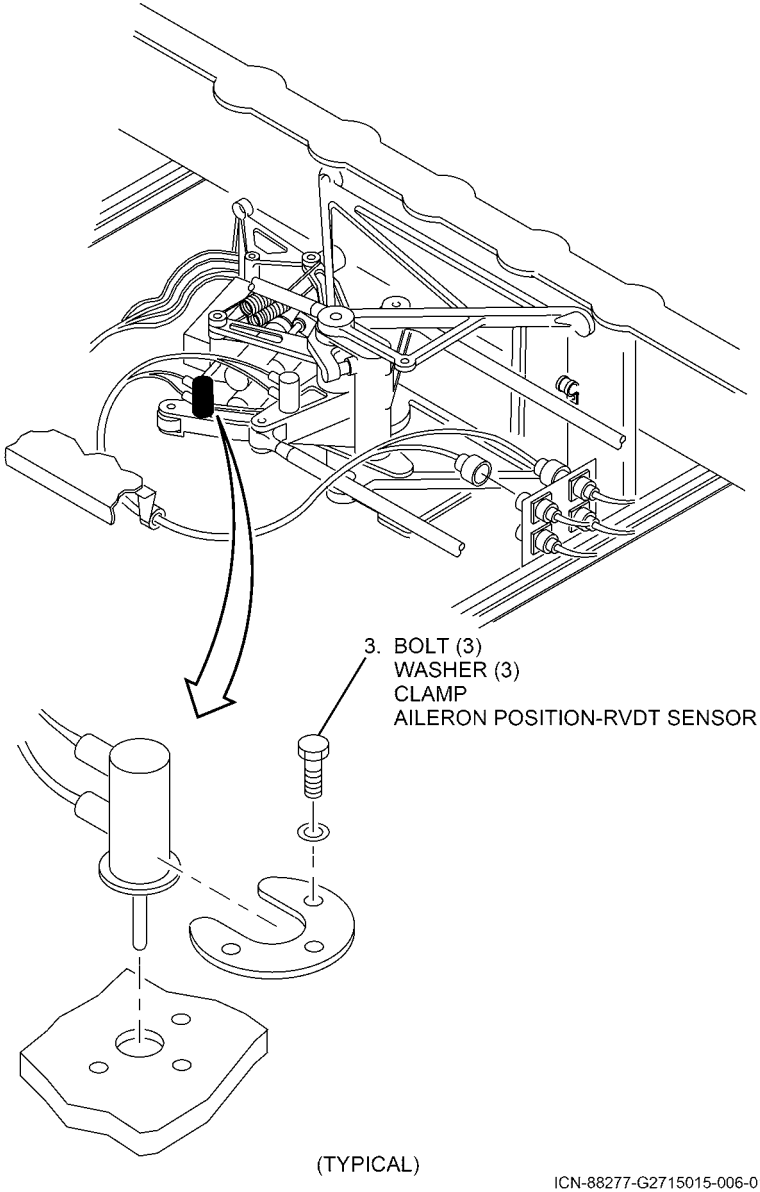
2. Remove screw, washer, and clamp.



(TYPICAL)

ICN-88277-G2715014-005-01

3. Remove safety wire, bolts, washers, clamp, and aileron position-Rotary Variable Differential Transducer (RVDT) sensor.



ICN-88277-G2715015-006-01

2-5. FOLLOW-ON MAINTENANCE.

1. Remove electrical connectors from aileron position-Rotary Variable Differential Transducer (RVDT) sensors (TO 1-1A-14).

AILERON POSITION-ROTARY VARIABLE DIFFERENTIAL TRANSDUCER SENSOR INSTALLATION (27-15-10-3)

FUNCTIONAL INPUT CONDITIONS:

Applicability:

	Task
All	All

Additional information:

This procedure consists of the following tasks:

3-1. Preparation.
3-2. Installation for 2715AS001 or 2715AS003.
3-3. Installation for 2715AS002 or 2715AS004.
3-4. Follow-on maintenance for 2715AS001 or 2715AS003.
3-5. Follow-on maintenance for 2715AS002 or 2715AS004.

	Task
NOTE	
This is a typical installation task for all aileron position-rotary variable differential transducer sensors.	All

Additional data:

	Task
TO 1-1A-14	3-1
TO 1300i-2-05JG-10-1	3-4, 3-5
TO 1300i-2-27JG-10-1	3-4, 3-5
TO 1300i-2-53JG-20-1	3-4, 3-5
TO 1300i-23	3-2, 3-3

Personnel recommended:

	Task
One	All

Safety conditions:

	Task
NA	--

Support equipment:

Nomenclature	PN	Specification	Qty	Task
NA	--	--	--	--

Supplies:

Nomenclature	PN	Specification	Qty	Task
Pin, Connector	M39029/4-110	--	10	3-1
Sealant	PR-1775 B-1/2	AMS 3265	AR	3-2, 3-3
Sealant	--	MIL-PRF-81733	AR	3-2, 3-3

3-1. 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 electrical connectors on aileron position-Rotary Variable Differential Transducer (RVDT) sensor (TO 1-1A-14).

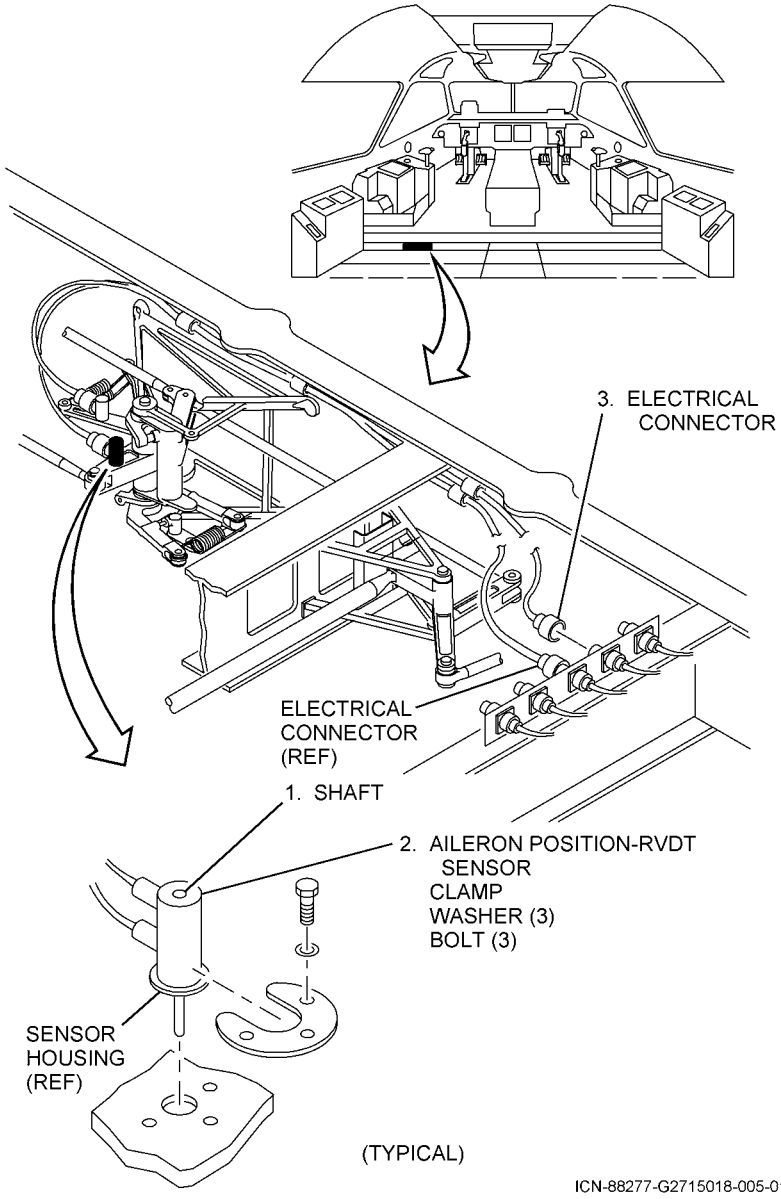
3-2. INSTALLATION FOR 2715AS001 OR 2715AS003.

1. Align red dot on end of shaft with red dot on sensor housing.

2. Position aileron position-Rotary Variable Differential Transducer (RVDT) sensor and clamp; install washers and bolts.

3. Connect electrical connector as follows:

RVDT REF DES	CONNECTOR REF DES	RECEPTACLE REF DES
2715AS001	2715PP001	2715JE001
2715AS003	2715PP003	2715JE003

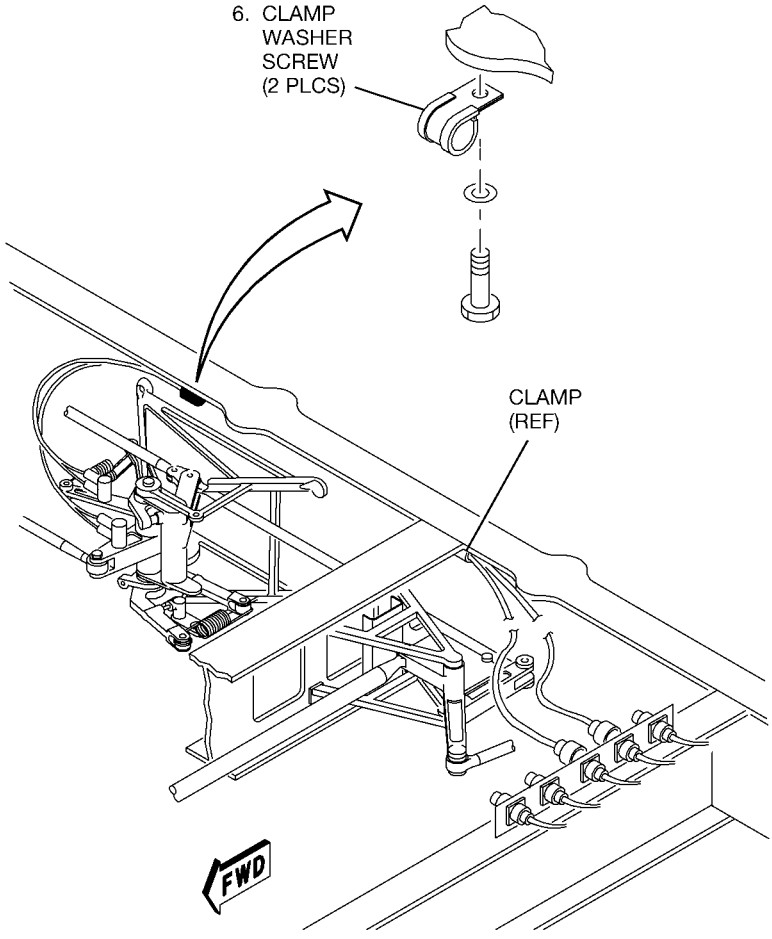


ICN-88277-G2715018-005-01

4. Perform faying surface sealing using MIL-PRF-81733 (TO 1300i-23, Chapter 1, Section III).

5. Perform wet fastener installation using AMS 3265 (TO 1300i-23, Chapter 1, Section III).

6. Install clamps, washers, and screws.



(TYPICAL)

ICN-88277-G2715019-003-01

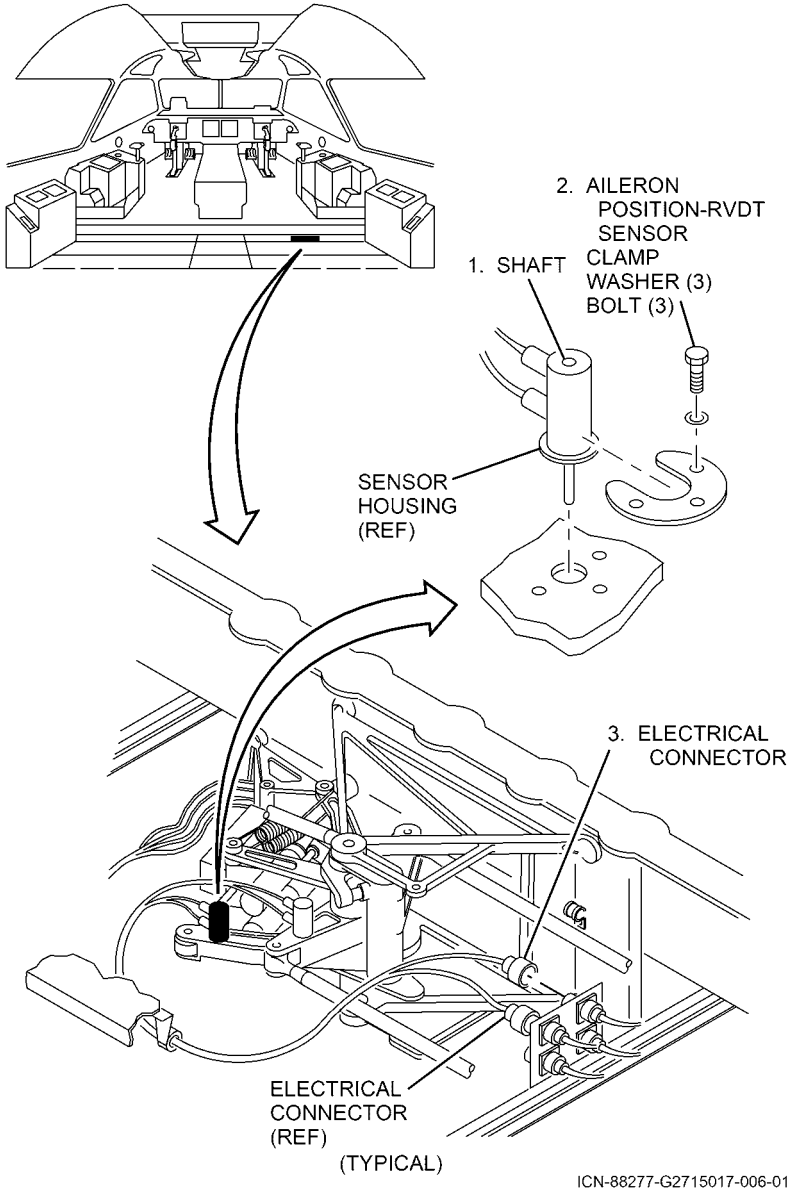
3-3. INSTALLATION FOR 2715AS002 OR 2715AS004.

1. Align red dot on end of shaft with red dot on sensor housing.

2. Position aileron position-Rotary Variable Differential Transducer (RVDT) sensor and clamp; install washers, and bolts.

3. Connect electrical connector as follows:

RVDT REF DES	CONNECTOR REF DES	RECEPTACLE REF DES
2715AS002	2715PP002	2715JE002
2715AS004	2715PP004	2715JE004

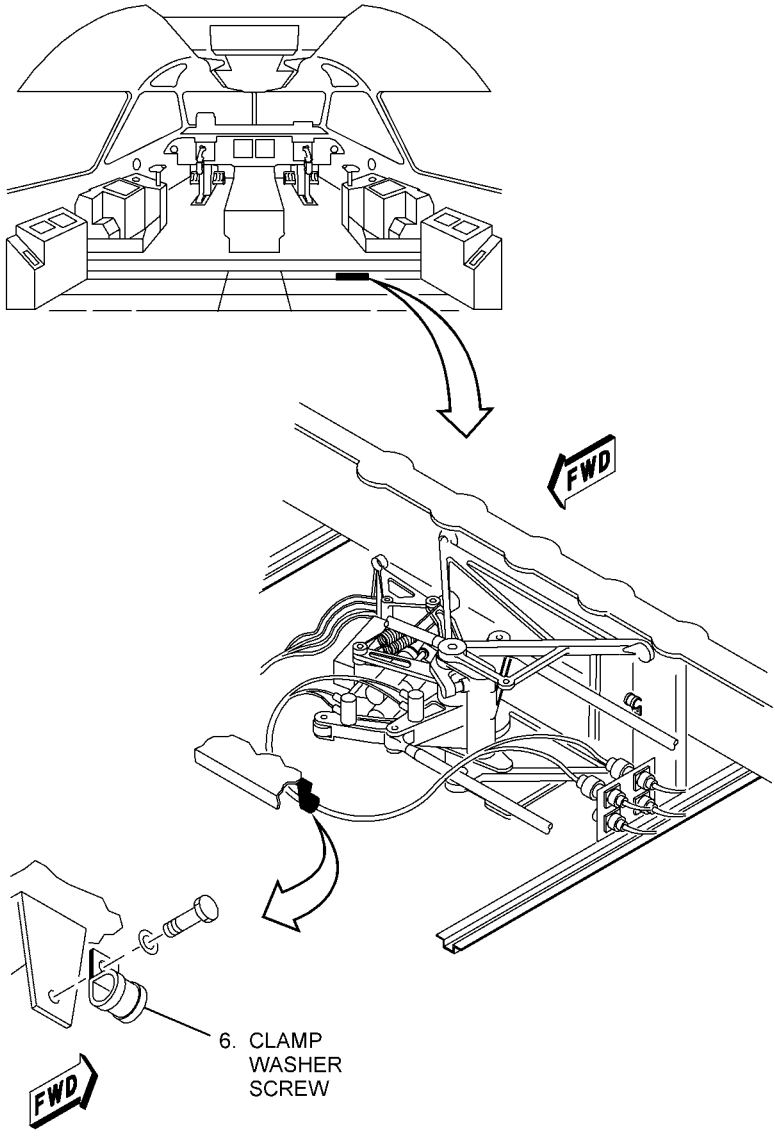


ICN-88277-G2715017-006-01

4. Perform faying surface sealing using MIL-PRF-81733 (TO 1300i-23, Chapter 1, Section III).

5. Perform wet fastener installation using AMS 3265 (TO 1300i-23, Chapter 1, Section III).

6. Install clamp, washer, and screw.



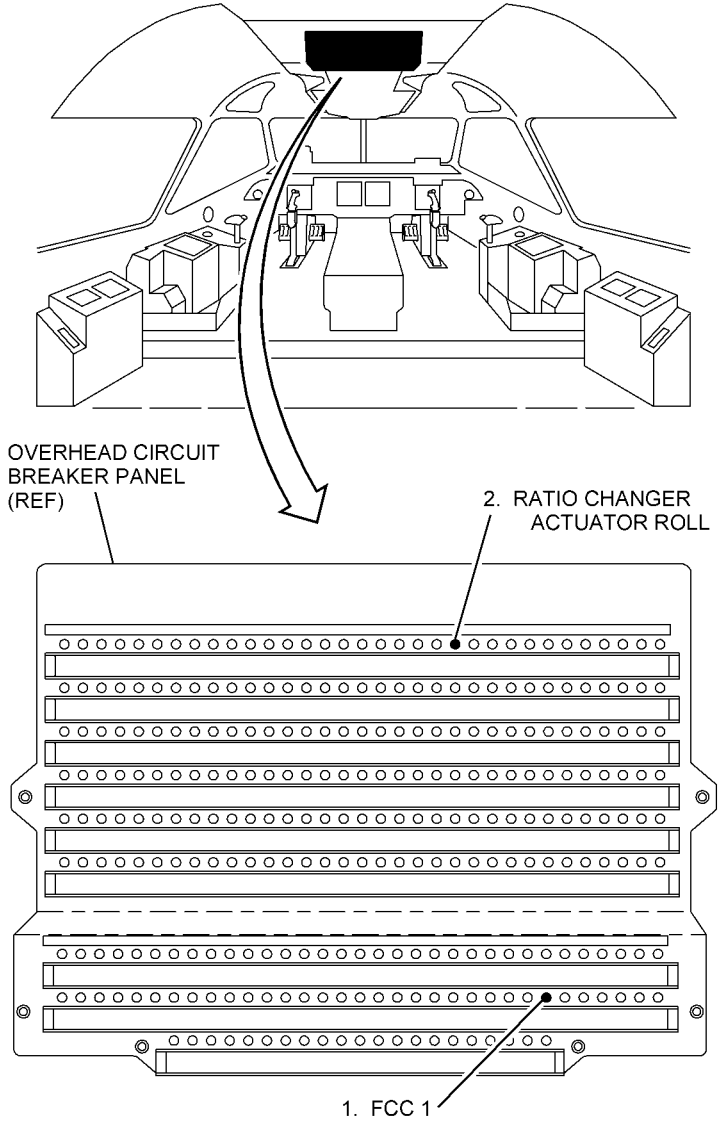
(TYPICAL)

ICN-88277-G2715020-005-01

3-4. FOLLOW-ON MAINTENANCE FOR 2715AS001 OR 2715AS003.

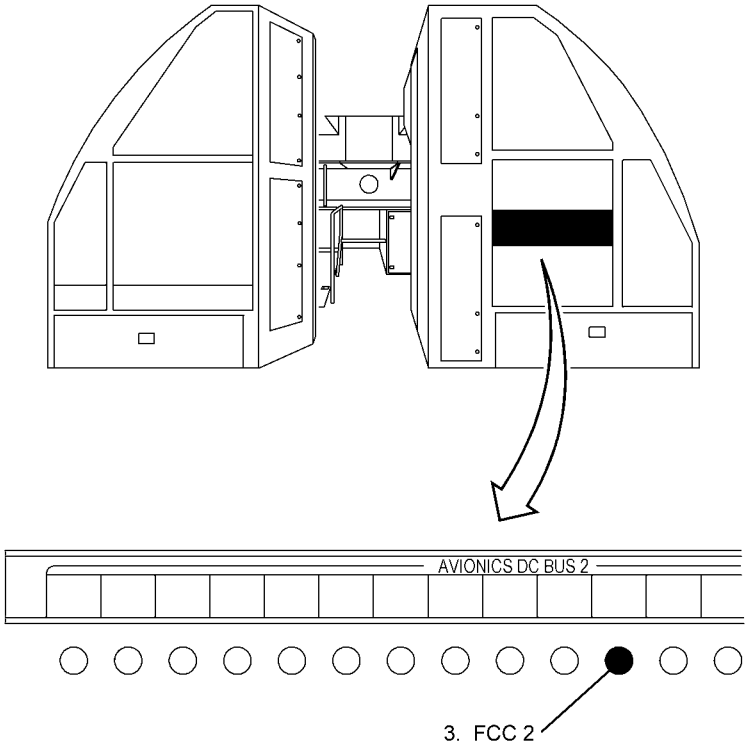
1. Remove warning tag and close **FCC 1** circuit breaker on overhead circuit breaker panel, row **H**, column **27**.

2. Remove warning tag and close **RATIO CHANGER ACTUATOR ROLL** circuit breaker on overhead circuit breaker panel, row **A**, column **24**.



ICN-88277-G2715021-006-01

3. Remove warning tag and close **FCC 2** circuit breaker on Electrical Power Center (EPC), row **T**, column **50**.

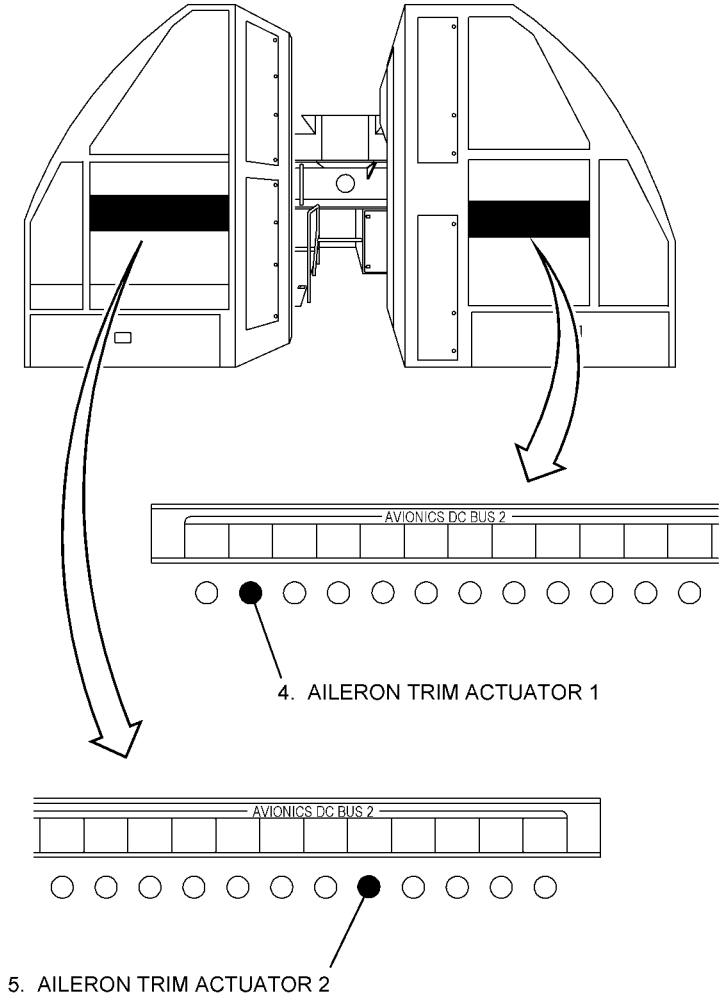


ICN-88277-G2715022-005-01

4. Remove warning tag and close **AILERON TRIM ACTUATOR 1** circuit breaker on EPC, row **U**, column **41**.

5. Remove warning tag and close **AILERON TRIM ACTUATOR 2** circuit breaker on EPC, row **U**, column **36**.

6. Perform aileron position-Rotary Variable Differential Transducer (RVDT) sensor adjustment (task 5-1).



ICN-88277-G2715058-004-01

3-5. FOLLOW-ON MAINTENANCE FOR 2715AS002 OR 2715AS004.

1. Remove warning tag and close **FCC 4** circuit breaker on overhead circuit breaker panel, row **G**, column **30**.

2. Remove warning tag and close **SCEFC 1** circuit breaker on overhead circuit breaker panel, row **H**, column **28**.

3. Remove warning tag and close **SCEFC 2** circuit breaker on overhead circuit breaker panel, row **H**, column **29**.

4. Remove warning tag and close **RATIO CHANGER ACTUATOR ROLL** circuit breaker on overhead circuit breaker panel, row **A**, column **24**.