TECHNICAL MANUAL

JOB GUIDE ORGANIZATIONAL MAINTENANCE

FLIGHT CONTROLS AILERON

(27-10-00 THROUGH 27-11-02)

300i
AIRCRAFT

MCDONNELL DOUGLAS CORPORATION
MILITARY TRANSPORT AIRCRAFT
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Original 0 1 Jan 23

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 72 CONSISTING OF THE FOLLOWING:

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No.	No.	No.	No.
Title thru T-2 A	0		

*Zero in this column indicates an original page.

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INTRODUCTION

SCOPE.

This manual contains maintenance procedures for the operational checkout, and repair of aileron system components.

MODEL(S) COVERED.

All

ABBREVIATIONS.

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

LS Line Select

MFD Multifunction Display

PLCS Places

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

SECTION 1

GENERAL INFORMATION (27-10-00)

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. Flight control surfaces are to be cleared prior to turning off hydraulic auxiliary pumps from the loadmaster control panels. Flight control surface movement may occur.
- 1-6. 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).

1-7. 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 or damage to aircraft.

CAUTION

Air in a hydraulic system can cause numerous malfunctions, from a total system failure to a minor indication problem. If you suspect air has been inducted into a system by removing a hydraulic component or a line, refer to the hydraulic system bleed procedure (12-29-08). Failure to comply may cause damage to aircraft.

NOTE

When installing or removing rig pins during the rigging of cables, the pins shall move freely in rig pin holes.

SECTION 2

MECHANICAL TEST-ROLL MAINTENANCE BUILT-IN TEST (27-10-01)

GENERAL MAINTENANCE INPUT CONDITIONS:

Applicability: Task
All All

Additional information:

This procedure consists of the following task:

01-1. Mechanical test-roll maintenance built-in test.

Additional data:

TO 1300i-2-27FI-00-1 All
TO 1300i-2-29JG-20-1 All
TO 1300i-2-31JG-60-1 All

Personnel recommended:

Two

Person (A) performs task.

Person (B) ground observer.

Task

Task

Safety conditions:

Task

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 or damage to aircraft. All

Support equipment:

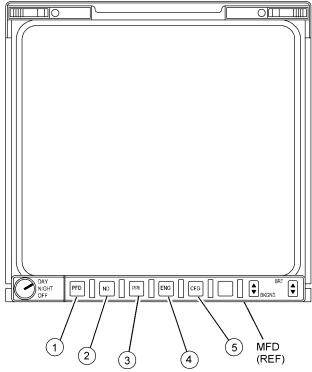
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
NA				

Supplies:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
NA				

MECHANICAL TEST-ROLL MAINTENANCE 01-1. **BUILT-IN TEST.**

- 1. Review "Section 1 (General Information)" of this TO for system general warnings, cautions, and notes.
- Review task "General Maintenance Input Conditions" page for task 2. specific safety conditions.
- Perform maintenance interphone operation (23-41-02, task 02-3). 3.
- 4. Operate Multifunction Displays (MFD) system (31-61-02, task 02-1 or 02-2).
- Select CFG format on MFD system. 5.
- 6. Operate auxiliary hydraulic system (29-20-01, task 01-1).

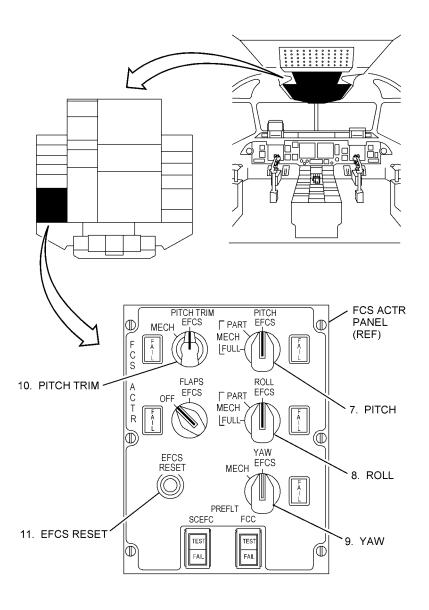


5. —	INDEX NO.	PUSHBUTTON	DISPLAY
	1	PFD	PRIMARY FLIGHT DISPLAY
	2	ND	MAP DISPLAY COMPASS DISPLAY CHART DISPLAY
	3	PPI	TCAS DISPLAY SKE DISPLAY RADAR DISPLAY
	4	ENG	NORMAL ENGINE DISPLAY EXPANDED ENGINE DISPLAY SECONDARY ENGINE DISPLAY
	5	CFG	SURFACE DISPLAY

(TYPICAL)

ICN-88277-G2710011-001-01

- 7. (A) Set PITCH switch on FCS ACTR panel to EFCS.
- 8. (A) Set **Roll** switch to **EFCS**.
- 9. (A) Set YAW switch to EFCS.
- 10. (A) Set **PITCH TRIM** switch to **EFCS**.
- 11. (A) Press **EFCS RESET** button.



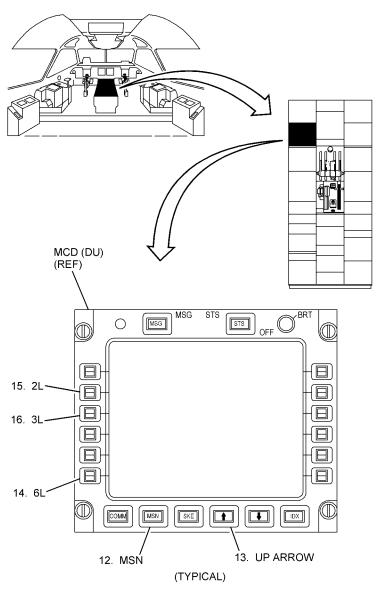
ICN-88277-G2710003-003-01

- 12. (A) Press MSN key on MCD (DU).
 - MSN INDEX 1 is displayed.
- 13. (A) Press up arrow key.
 - MSN INDEX 2 is displayed.
- 14. (A) Press 6L Line Select (LS) key.
 - MAINTENANCE MENU is displayed.
- 15. (A) Press 2L LS key.
 - EFCS MAINT MENU is displayed.

NOTE

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

- 16. (A) Press 3L LS key.
 - EFCS MAINTENANCE BIT is displayed.

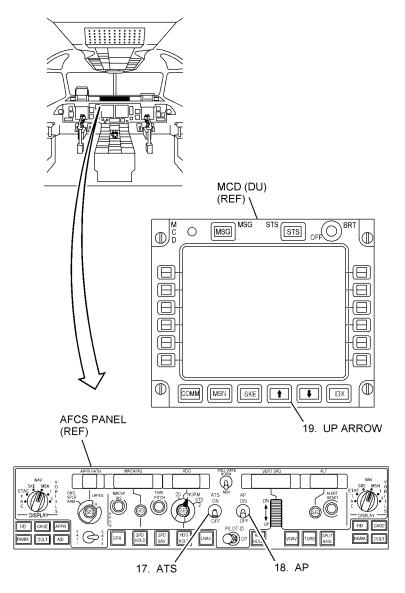


ICN-88277-G2710007-003-01

NOTE

ATS and AP switches on automatic pilot control indicator must be set simultaneously to access EFCS MAINTENANCE BIT menu.

- 17. (A) Set ATS switch on AFCS panel to ON.
- 18. (A) Set **AP** switch to **ON**.
 - EFCS MAINTENANCE BIT ENTRY IN PROGRESS is displayed on MCD (DU).
 - EFCS MAINTENANCE BIT page is 1/5 is displayed.
- 19. (A) Press up arrow key on MCD (DU) three times.
 - EFCS MAINTENANCE BIT page 4/5 is displayed.



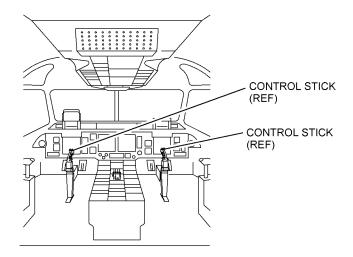
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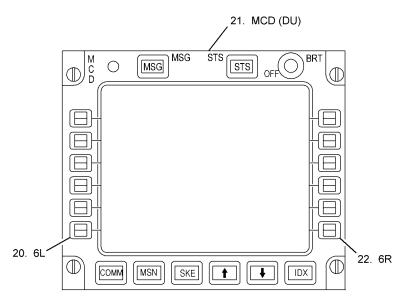
WARNING

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

NOTE

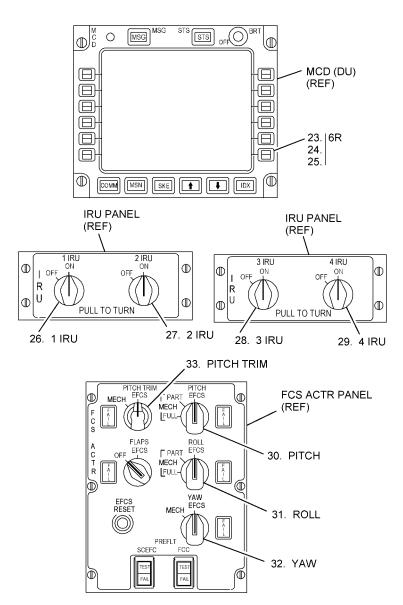
- Test may be aborted at any time by pressing 6L LS key.
- Refer to TO 1300i-2-27FI-00-1, fault chart 27-00 to correct any failure condition.
- Do not move control stick while IN PROGRESS is displayed.
- 20. (A) Press 6L LS key.
 - EFCS MAINTENANCE BIT R_MECH IN PROGRESS is displayed.
- 21. (A) Follow instructions on MCD (DU).
 - TEST PASSED is displayed.
- 22. (A) Press 6R LS key.
 - EFCS MAINTENANCE BIT PAGE 4/5 is displayed.





ICN-88277-G2710009-004-01

- 23. (A) Press 6R LS key.
 - **EFCS MAINT MENU** is displayed.
- 24. (A) Press 6R LS key.
 - MAINTENANCE MENU is displayed.
- 25. (A) Press 6R LS key.
 - MSN INDEX 2 is displayed.
- 26. (A) Set 1 IRU switch on IRU panel to OFF.
- 27. (A) Set 2 IRU switch to OFF.
- 28. (A) Set 3 IRU switch on IRU panel to OFF.
- 29. (A) Set 4 IRU switch to OFF.
- 30. Set PITCH switch on FCS ACTR panel to FULL MECH.
- 31. (A) Set **ROLL** switch to **FULL MECH**.
- 32. (A) Set YAW switch to MECH.
- 33. (A) Set **PITCH TRIM** switch to **MECH**.
- 34. Shutdown auxiliary hydraulic system (29-20-01, task 01-2).
- 35. Shutdown multifunction displays system (31-61-02, task 02-3 or 02-4).
- 36. Perform maintenance interphone shutdown (23-41-02, task 02-4).



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27-10-01-1 2-15/(2-16 blank)

AILERON MECHANICAL CONTROLS AND SURFACES SYSTEM OPERATIONAL CHECKOUT (27-11-01)

GENERAL MAINTENANCE INPUT CONDITIONS:

Applicab	ility:	Task
All		All
A dditions	al information:	
This pro	cedure consists of the following tasks:	
01-1.	Aileron mechanical controls and surfaces system operational checkout.	
01-2.	Aileron mechanical controls breakout force system operational checkout.	
Additiona	al data:	Task
TO	1300i-2-23JG-40-1	All
TO	1300i-2-27FI-00-1	All
TO	1300i-2-27JG-10-2	01-1
TO	1300i-2-29JG-20-1	All
TO	1300i-2-31JG-60-1	01-1
TO 13	300i-2-31FI-00-1	01-1
Personne	el recommended:	Task
Two		All
Person	n (A) performs task.	
Person	n (B) assists person (A).	

Safety conditions:

NA -

Task

Support equipment:

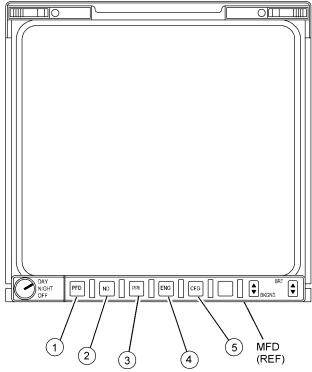
<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
Tensiometer, Dial	L20	(0-20 lb)	1	01-2

Supplies:

<u>Nomenclature</u>	<u>PN</u>	Specification	<u>Qty</u>	<u>Task</u>
NA				

01-1. AILERON MECHANICAL CONTROLS AND SURFACES SYSTEM OPERATIONAL CHECKOUT.

- 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. Operate Multifunction Displays (MFD) system (31-61-02, task 02-1 or 02-2).
- 4. Select **CFG** format on MFD system.
- 5. Perform maintenance interphone operation (23-41-02, task 02-3).

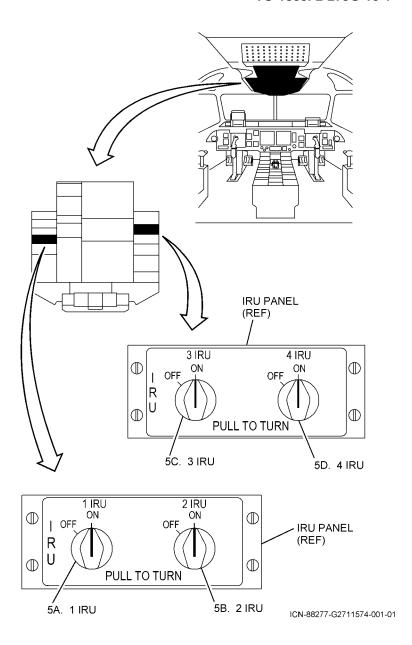


4. —	INDEX NO.	PUSHBUTTON	DISPLAY
	1	PFD	PRIMARY FLIGHT DISPLAY
	2	ND	MAP DISPLAY COMPASS DISPLAY CHART DISPLAY
	3	PPI	TCAS DISPLAY SKE DISPLAY RADAR DISPLAY
	4	ENG	NORMAL ENGINE DISPLAY EXPANDED ENGINE DISPLAY SECONDARY ENGINE DISPLAY
	5	CFG	SURFACE DISPLAY

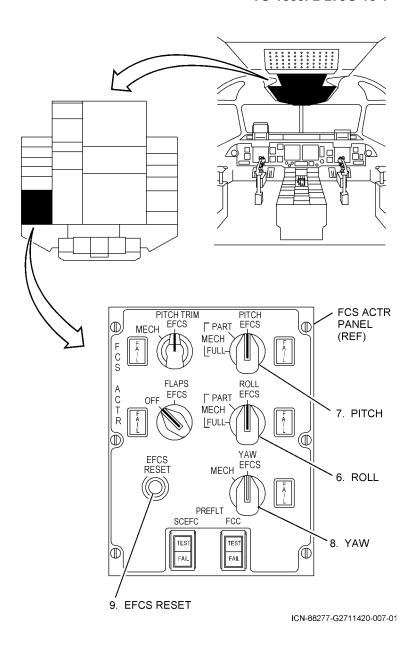
(TYPICAL)

ICN-88277-G2710012-001-01

- 5A. (A) Set 1 IRU switch on IRU panel to ON.
- 5B. (A) Set 2 IRU switch to ON.
- 5C. (A) Set 3 IRU switch on IRU panel to ON.
- 5D. (A) Set 4 IRU switch to ON.



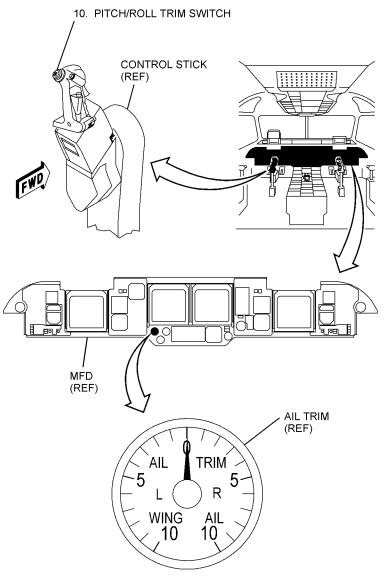
- 6. (A) Set ROLL switch on FCS ACTR panel to EFCS.
- 7. (A) Set **PITCH** switch to **EFCS**.
- 8. (A) Set YAW switch to EFCS.
- 9. (A) Press **EFCS RESET** button on **FCS ACTR** panel.



WARNING

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

- 10. (A) Press pitch/roll trim switch left or right on control stick until indicator reads 0.
 - AIL TRIM indicator reads 0 (27-12-AJ-00).
 - MFD displays 0 (31-61-AA-01, 31-61-AA-02).
- 11. Operate auxiliary hydraulic system (29-20-01, task 01-1).



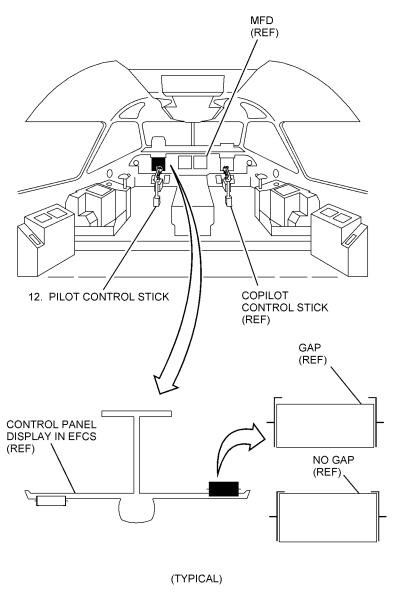
ICN-88277-G2711001-005-01

WARNING

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

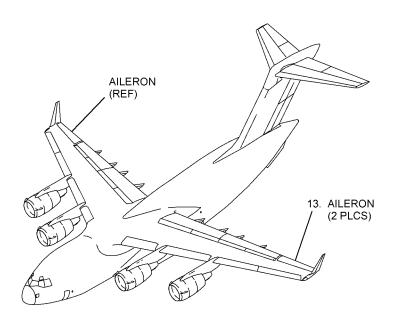
NOTE

- One full aileron cycle is defined as left wing down, right wing down, and neutral.
- The minimum acceptable full surface deflection for the ailerons in EFCS is displayed as full scale on the MFD CFG page. Full is defined as no gap between surface deflection and the full scale brackets.
- (A) Operate ailerons from pilot control stick through one full cycle in EFCS.
 - MFD displays proper aileron position (31-61-AA-01, 31-61-AA-02).
 - Aileron position displays no gap on MFD with aileron at full deflection (27-13-AC-).
 - Copilot control stick follows pilot control stick movement (27-11-AD-00).



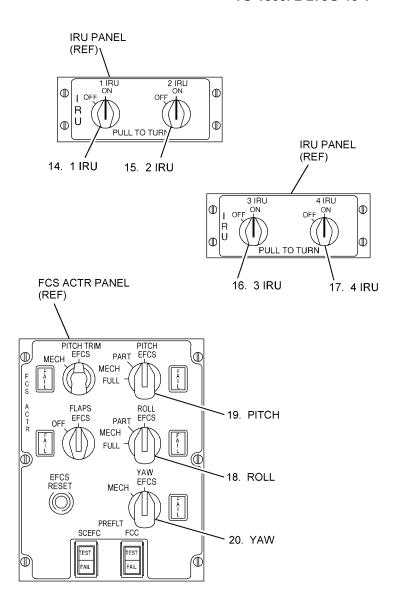
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- 13. (B) Observe ailerons.
 - Ailerons are in correct position (27-11-AD-00).



ICN-88277-G2711030-005-01

- 14. (A) Set 1 IRU switch on IRU panel to OFF.
- 15. (A) Set 2 IRU switch to OFF.
- 16. (A) Set 3 IRU switch on IRU panel to OFF.
- 17. (A) Set 4 IRU switch to OFF.
- 18. (A) Set ROLL switch on FCS ACTR panel to FULL MECH.
- 19. (A) Set PITCH switch to FULL MECH.
- 20. (A) Set YAW switch to MECH.



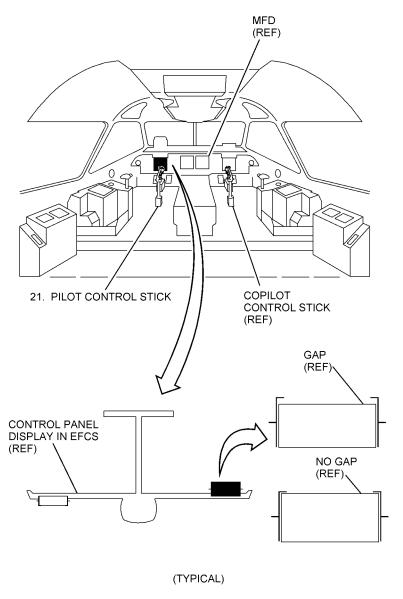
ICN-88277-G2711452-005-01

WARNING

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

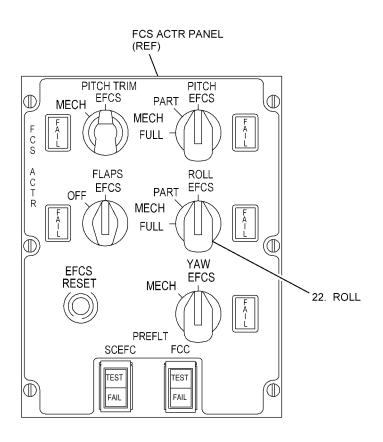
NOTE

- One full aileron cycle is defined as left wing down, right wing down, and neutral.
- The minimum acceptable full surface deflection for the ailerons in FULL MECH is displayed as close to full scale on the MFD CFG page. Close to full is defined as when the gap displayed between the surface deflection and the full scale bracket is no wider than the width of the full scale bracket display line.
- 21. (A,B) Operate ailerons from pilots control stick through one full cycle in **FULL MECH**.
 - MFD displays proper aileron position (31-61-AA-01, 31-61-AA-02).
 - Aileron position displays minimum full surface deflection on MFD when aileron is at full deflection (31-61-AA-01, 31-61-AA-02).
 - Ailerons are in correct position (27-11-AD-00).
 - Copilot control stick follows pilot control stick movement (27-11-AD-00).



ICN-88277-G2711453-006-01

22. (A) Set ROLL switch on FCS ACTR panel to PART MECH.



ICN-88277-G2711007-005-01

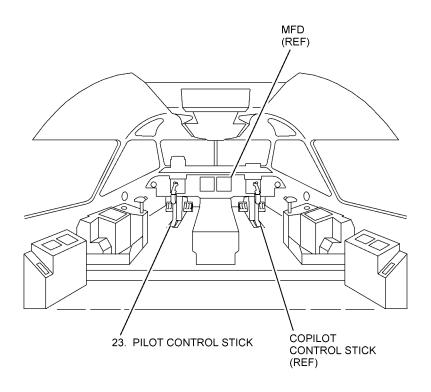
WARNING

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

NOTE

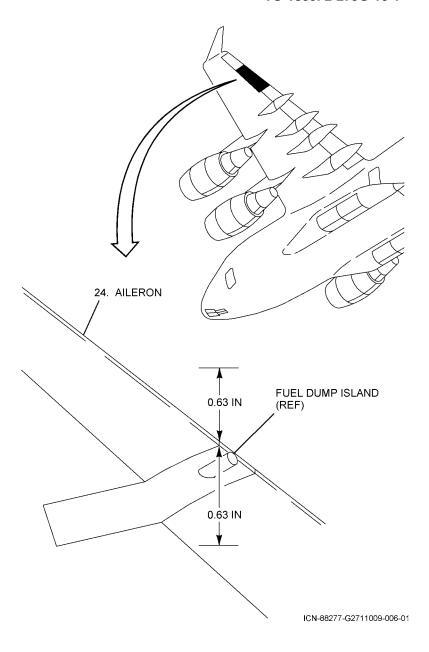
One full aileron cycle is defined as left wing down, right wing down, and neutral.

- 23. (A,B) Operate ailerons from pilot control stick through one full cycle.
 - MFD displays proper aileron position (31-61-AA-01, 31-61-AA-02).
 - MFD displays half deflection (31-61-AA-01, 31-61-AA-02).
 - Ailerons are in correct position (27-11-AD-00).
 - Copilot control stick follows pilot control stick movement (27-11-AD-00).

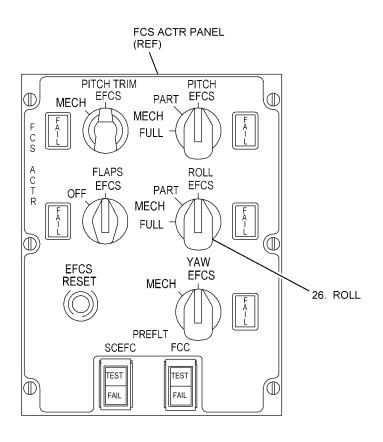


ICN-88277-G2711008-006-01

- 24. (B) Measure ailerons inboard trailing edge to trailing edge of fuel dump islands.
 - Ailerons are within 0.63 inches (27-11-03, tasks 03-1, 03-5, and 03-6).



- 25. Shutdown auxiliary hydraulic system (29-20-01, task 01-2).
- 26. (A) Set ROLL switch on FCS ACTR panel to FULL MECH.
- 27. Perform maintenance interphone shutdown (23-41-02, task 02-4).
- 28. Shutdown multifunction displays system (31-61-02, task 02-3 or 02-4).



ICN-88277-G2711012-005-01

01-2. AILERON MECHANICAL CONTROLS BREAKOUT FORCE SYSTEM OPERATIONAL CHECKOUT.

NOTE

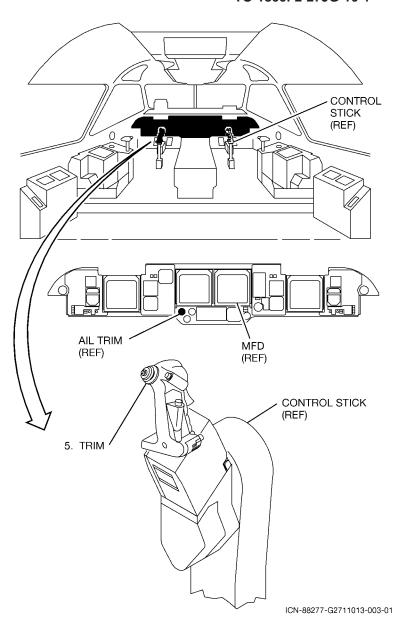
This is a typical aileron mechanical controls breakout force system operational checkout for all control stick assemblies.

- 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 maintenance interphone operation (23-41-02, task 02-3).
- 4. Operate auxiliary hydraulic system (29-20-01, task 01-1).

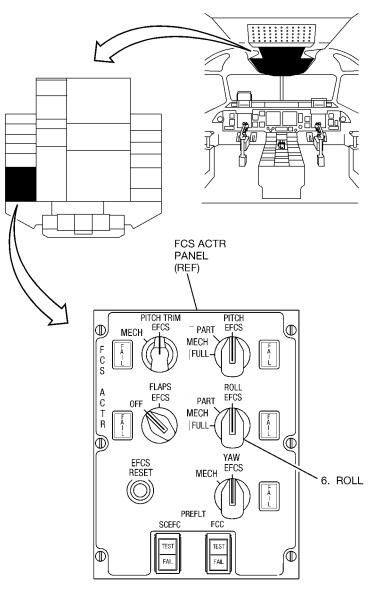
WARNING

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

- 5. (A) Press pitch/roll trim switch left or right on control stick until indicator reads 0.
 - AIL TRIM indicator reads 0 (27-12-AJ-00).

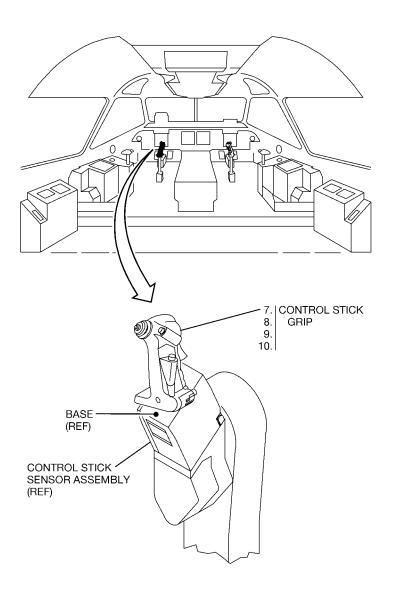


6. (A) Rotate ROLL switch on FCS ACTR panel to PART MECH.



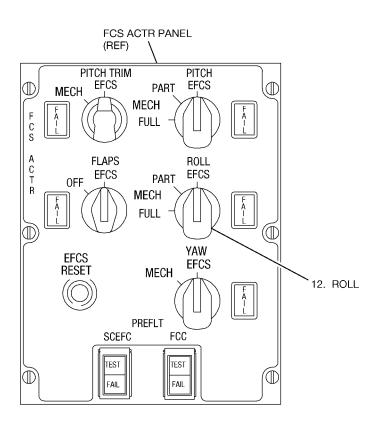
ICN-88277-G2711020-002-01

- 7. (A) Set dial tensiometer to read 0 lbs and position probe 2.13 to 2.63 inches above base of control stick sensor assembly on inboard side of control stick grip.
- 8. (A,B) Maintain a slow and steady push on tensiometer until aileron initially moves.
 - Breakout force is 0.05 4 lbs (27-11-AS-00).
- 9. (A) Set dial tensiometer to read 0 lbs and position probe 2.13 to 2.63 inches above base of control stick sensor assembly on outboard side of control stick grip.
- 10. (A,B) Maintain a slow and steady push on tensiometer until aileron initially moves.
 - Breakout force is 0.05 4 lbs (27-11-AS-00).



ICN-88277-G2711017-004-01

- 11. Shutdown auxiliary hydraulic system (29-20-01, task 01-2).
- 12. (A) Rotate **ROLL** switch on **FCS ACTR** panel to **FULL MECH**.
- 13. Perform maintenance interphone shutdown (23-41-02, task 02-4).



ICN-88277-G2711021-002-01

AILERON MECHANICAL CONTROLS AND SURFACES SYSTEM REPAIR (27-11-02)

GENERAL MAINTENANCE INPUT CONDITIONS:

All	Al	1
Additiona	al information:	
This pro	cedure consists of the following task:	
02-1.	Repair aileron mechanical controls and surfaces system by replacing roll damper link.	
Additiona	al data:	ζ.

TO	1300i-2-05JG-10-1	All
TO	1300i-2-25JG-10-1	All

TO 1300i-2-23JG-10-1 All

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

TO 1300i-23 All

Personnel recommended:

Applicability:

Task

Task

Two

Person (A) performs task.

Person (B) assists person (A).

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 could result in injury to personnel.

All

Support equipment:

<u>Nomenclature</u>	<u>PN</u>	<u>Specification</u>	<u>Qty</u>	<u>Task</u>
NA				

Supplies:

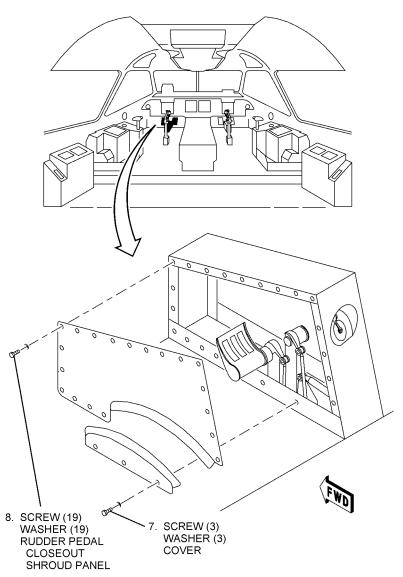
Nomenclature	<u>PN</u>	Specification	Qty	<u>Task</u>
Pin, Cotter	MS24665-151		2	All
Sealant	PR-1775 B-2	AMS 3265	AR	All

02-1. REPAIR AILERON MECHANICAL CONTROLS AND SURFACES SYSTEM BY REPLACING ROLL DAMPER LINK.

- 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. Install aileron aircraft ground safety lock (05-10-01, task 01-3).
- 4. Install elevator aircraft ground safety lock (05-10-01, task 01-5).
- 5. Perform horizontal pressure panel access cover assembly removal (53-12-10).

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- 6. Perform pilot seat assembly removal (25-11-10, task 2-1 and 2-2).
- 7. (A) Remove screws, washers, and cover (211GZM).
- 8. (A) Remove screws, washers, and rudder pedal closeout shroud panel (211FZM).



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WARNING

The rudder and elevator aircraft ground safety locks shall be installed when working within the cavity above the horizontal pressure panel access cover. Failure to comply may cause injury to personnel.

- 9. (A,B) Remove cotter pin, nut, washer, and bolt.
- 10. (A.B) Remove bolts and washers.
- 11. (A,B) Remove roll damper and link.
- 12. (A,B) Loosen jamnut and remove clevis.

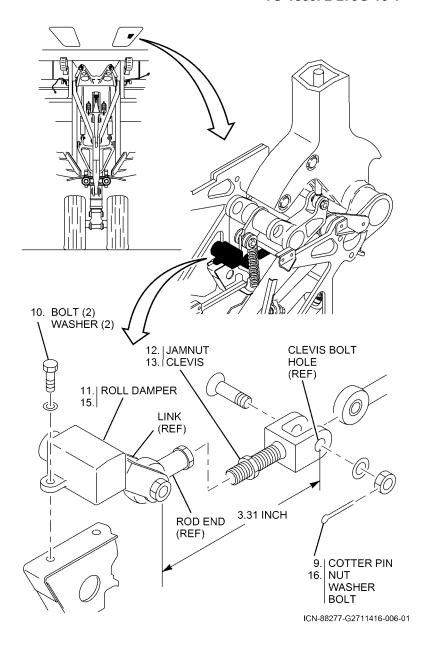
CAUTION

To prevent clevis and bearing rod ends from binding, ensure that the clevis and bearing rod ends are centered vertically and in plane with the bell and dampener crank assembly clevis ends. Failure to comply may cause damage to aircraft, and may also result in mechanical contact and/or bearing binding near full stick deflection which may result in abnormal stick feel characteristic and possible reversion to **ROLL FORCE MODE**.

ROLL TOROL MODE.

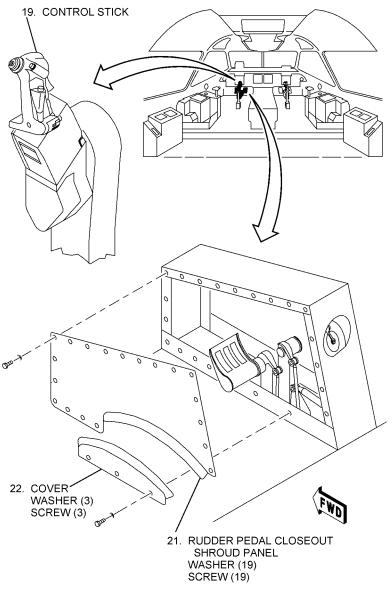
- 13. (A) Install clevis and adjust to 3.31 inches between clevis bolt hole and rod end bolt; tighten nut.
- 14. Perform wet fastener installation (TO 1300i-23, Chapter 1, Section III).
- 15. (A,B) Position roll damper and link; install bolts and washers.
- 16. (A,B) Install bolt, washer, nut, and cotter pin.
- 17. Remove aileron aircraft ground safety lock (05-10-01, task 01-4).

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- 18. Remove elevator aircraft ground safety lock (05-10-01, task 01-6).
- 19. (A,B) Cycle control stick through left wing down, right wing down, and neutral position.
 - Verify damper and linkage for freedom of movement and smooth operation (27-11-AD-00).
- 20. Remove rudder aircraft ground safety lock (05-10-01, task 01-2).
- 21. Install rudder pedal closeout shroud panel (211FZM), washers, and screws.
- 22. Install cover, washers, and screws (211GZM).
- 23. Perform pilot seat assembly installation (25-11-10, task 3-1 and 3-2).
- 24. Install horizontal pressure panel access cover assembly (53-12-10).

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