



A300-600 AMM - (FDX) AIDS - INTERCONNECTION - INTERFACES - ADJUSTMENT/TEST

Revision 55.1

FED ALL

(FDX) AIDS - INTERCONNECTION - INTERFACES - ADJUSTMENT/TEST

1. Operational Test

NOTE : Rudder Trim and Aileron Trim are not active on the A300-600.

NOTE : If no Adjustment/Test exists for the parameter in question, then, after a minimum of three flight cycles post corrective action accomplishment, copy flight data from the Flight Data Recorder (refer to (Ref. 31-31-00, P. Block 201)) for confirmation that the parameter in question is recording correctly. Provide MEM Avionics Bench with appropriate details (parameter in question, MTSI, etc.) via e-mail to FDRBENCH@FEDEX.COM.

NOTE : The following table lists parameters and their corresponding test paragraph.

FAR 121.344 PARAMETER NUMBER	PARAMETER NAME	31-31-00-5 TEST PARAGRAPH
1	TIME	A.(1)
2	PRESSURE ALTITUDE	A.(2)
3	INDICATED AIRSPEED	A.(3)
4	HEADING	A.(4)
5	VERTICAL ACCELERATION	A.(5)
6	PITCH ATTITUDE	A.(6)
7	ROLL ATTITUDE	A.(7)
8	MANUAL RADIO TRANSMITTER KEYING OR CVR/DFDR SYNCH REFERENCE	A.(8)
9	THRUST/POWER OF EACH ENGIN	A.(9)
10	AUTOPILOT ENGAGEMENT STATUS	A.(10)
11	LONGITUDINAL ACCELERATION	A.(11)
12	PITCH CONTROL INPUT	A.(12)

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FAR 121.344 PARAMETER NUMBER	PARAMETER NAME	31-31-00-5 TEST PARAGRAPH
13	LATERAL CONTROL INPUT	A. (13)
14	RUDDER PEDAL INPUT	A. (14)
15	PRIMARY PITCH CONTROL SURFACE POSITION	A. (15)
16	PRIMARY LATERAL CONTROL SURFACE POSITION	A. (16)
17	PRIMARY YAW CONTROL SURFACE POSITION	A. (17)
18	LATERAL ACCELERATION	A. (18)
19	PITCH TRIM SURFACE POSITION	A. (19)
20	TRAILING EDGE FLAP OR COCKPIT FLAP CONTROL SELECTION	A. (20)
21	LEADING EDGE FLAP OR COCKPIT FLAP CONTROL SELECTION	A. (21)
22	EACH ENGINE THRUST REVERSER POSITION	A. (22)
23	GROUND SPOILER POSITION OR SPEEDBRAKE SELECTION	A. (23)
24	OUTSIDE OR TOTAL AIR TEMPERATURE	A. (24)
25	AUTOMATIC FLIGHT CONTROL SYSTEM MODES AND ENGAGEMENT STATUS	A. (25)
26	RADIO ALTITUDE	A. (26)
27	LOCALIZER DEVIATION, MLS AZIMUTH	A. (27)
28	GLIDESLOPE DEVIATION, MLS ELEVATION	A. (28)
29	MARKER BEACON PASSAGE	A. (29)
30	MASTER WARNING	A. (30)
31	AIR/GROUND SENSOR	A. (31)
32	ANGLE OF ATTACK	A. (32)

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33	HYDRAULIC PRESSURE LOW (EACH SYSTEM)	A. (33)
34	GROUND SPEED	A. (34)
35	GROUND PROXIMITY WARNING SYSTEM	A. (35)
36	LANDING GEAR POSITION OR LANDING GEAR COCKPIT CONTROL SELECTION	A. (36)
37	DRIFT ANGLE	A. (37)
38	WIND SPEED AND DIRECTION	A. (38)
39	LATITUDE AND LONGITUDE	A. (39)
40	STICK SHAKER/PUSHER	A. (40)
41	WINDSHEAR	A. (41)
42	THROTTLE/POWER LEVER POSITION	A. (42)
43	ADDITIONAL ENGINE PARAMETERS	A. (43)
44	TRAFFIC ALERT AND COLLISION AVOIDANCE SYSTEM	A. (44)
45	DME 1 AND 2 DISTANCES	A. (45)
46	NAV 1 AND 2 SELECTED FREQUENCY	A. (46)
47	SELECTED BAROMETRIC SETTING	A. (47)
48	SELECTED ALTITUDE	A. (48)
49	SELECTED SPEED	A. (49)
50	SELECTED MACH	A. (50)
51	SELECTED VERTICAL SPEED	A. (51)
52	SELECTED HEADING	A. (52)
53	SELECTED FLIGHT PATH	A. (53)

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FAR 121.344 PARAMETER NUMBER	PARAMETER NAME	31-31-00-5 TEST PARAGRAPH
54	SELECTED DECISION HEIGHT	A. (54)
55	EFIS DISPLAY FORMAT	A. (55)
56	MULTI-FUNCTION/ENGINE/ALERTS/DISPLAY FORMAT	A. (56)
57	THRUST COMMAND	A. (57)
58	THRUST TARGET	A. (58)
59	FUEL QUANTITY IN CG TRIM TANK	A. (59)
60	PRIMARY NAVIGATION SYSTEM REFERENCE	A. (60)
61	ICING	A. (61)
62	ENGINE WARNING EACH ENGINE VIBRATION	A. (62)
63	ENGINE WARNING EACH ENGINE OVER TEMP	A. (63)
64	ENGINE WARNING EACH ENGINE OIL PRESSURE LOW	A. (64)
65	ENGINE WARNING EACH ENGINE OVERSPEED	A. (65)
66	YAW TRIM SURFACE POSITION	A. (66)
67	ROLL TRIM SURFACE POSITION	A. (67)
68	BRAKE PRESSURE (SELECTED SYSTEM)	A. (68)
69	BRAKE PEDAL APPLICATION (LEFT AND RIGHT)	A. (69)
70	YAW OR SIDESLIP ANGLE	A. (70)
71	ENGINE BLEED VALVE POSITION	A. (71)
72	DE-ICING OR ANTI ICING SYSTEM SELECTION	A. (72)
73	COMPUTED CENTER OF GRAVITY	A. (73)
74	AC ELECTRICAL BUS STATUS	A. (74)
75	DC ELECTRICAL BUS STATUS	A. (75)

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FAR 121.344 PARAMETER NUMBER	PARAMETER NAME	31-31-00-5 TEST PARAGRAPH
76	APU BLEED VALVE POSITION	A.(76)
77	HYDRAULIC PRESSURE (EACH SYSTEM)	A.(77)
78	LOSS OF CABIN PRESSURE	A.(78)
79	COMPUTER FAILURE	A.(79)
80	HEADS UP DISPLAY	A.(80)
81	PARA-VISUAL DISPLAY	A.(81)
82	COCKPIT TRIM CONTROL INPUT POSITION PITCH	A.(82)
83	COCKPIT TRIM CONTROL INPUT POSITION ROLL	A.(83)
84	COCKPIT TRIM CONTROL INPUT POSITION YAW	A.(84)
85	TRAILING EDGE FLAP AND COCKPIT FLAP CONTROL POSITION	A.(85)
86	LEADING EDGE FLAP AND COCKPIT FLAP CONTROL POSITION	A.(86)
87	GROUND SPOILER POSITION AND SPEEDBRAKE SELECTION	A.(87)
88	ALL COCKPIT FLIGHT CONTROL INPUT FORCES	A.(88)

NOTE : Existing aircraft equipment in the cockpit can be used to display test results in lieu of the paragraph A. identified equipment. PLAYBACK displays the OCTAL, Hexadecimal, and Binary data for any selected subframe & word. ALPHA displays the actual engineering units for any selected ALPHA code. ALPHA codes are advertised on the Avionics Engineering home page at <http://avionics.aod.fedex.com/>.
PLAYBACK

- In the cockpit at the center pedestal, select the IDU menu (if a DLC-800 is installed) or select MCDU Menu with the MCDU key on either IDC#1 or IDC#2 (if an IDC-900 is installed).

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- Select LSK next to ACMS. Verify that the ACMS MAIN MENU appears.
- Select LSK next to DFDR PBK. Verify that the DFDR PBK MENU appears.
- The ACMS DFDR PLBK MENU prompts for a subframe (sf), a back slash (/), and a word (wd) to be entered (i.e. 0/059 for the rudder pedal, 0/021 for the control wheel, 0/003 for the control column). To enter a subframe and word, press the NUM key, type in the subframe/word, press RTN, and then press the line select key (LSK) corresponding to a blank (or populated) line to enter the data. The word value is then displayed in octal, hexadecimal, and binary modes. If looking for a specific bit in binary mode, understand that the left-most bit is bit 12, the right-most bit is bit 1.

ENTERED SUBFRAME NUMBER	WILL DISPLAY SUBFRAMES	WITH AN UPDATE RATE OF
0	1 thru 4	every second
1	1	once every 4 seconds
2	2	once every 4 seconds
3	3	once every 4 seconds
4	4	once every 4 seconds
5	1 and 3	once every 2 seconds
6	2 and 4	once every 2 seconds

ALPHA

- In the cockpit at the center pedestal, select the IDU menu (if a DLC-800 is installed) or select MCDU Menu with the MCDU key on either IDC#1 or IDC#2 (if an IDC-900 is installed).
- Select LSK next to ACMS. Verify that the ACMS MAIN MENU appears.
- Select LSK next to DMU MENU. Verify that the ACMS DMU MENU appears.
- Select LSK next to PARAM DISPLAY. Verify that the ACMS PARAM DISPLAY MENU appears.
- Select LSK next to ALPHA CALL UP. Verify that the ACMS ALPHA CALL UP screen appears.

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- For DLC-800 only, select ALPH located in the scratch pad area of the current screen. Type in the ALPHA code and select RTN. For IDC-900 only, type in the ALPHA code and select RTN.
- Press the line select key (LSK) corresponding to a blank (or populated) line to enter the data.

A. Test

(1) Time

- The present date is displayed as DDMMYY with YY always 00.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
DATE	DATE	PRESENT DATE
UTC	UTC	PRESENT TIME

(2) PRESSURE ALTITUDE

- No BITE TEST is required to generate the test value.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
PALT	PALT	PRESENT FIELD ELEVATION FT

(3) INDICATED AIRSPEED

- Select maintenance panel 470VU pushbutton switch ADS/SYS1 ON to generate the test value
- Select maintenance panel 470VU pushbutton switch ADS/SYS1 OFF.



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ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
CAS	CAS	360 ± 20 KTS

(4) HEADING

- Select on overhead panel IRU 1, 2, & 3 to NAV.
- Press and hold maintenance panel 470VU pushbutton switch IRS1 to generate the test value.
- Release maintenance panel 470VU pushbutton switch IRS1.

ENGINEERING REPORT 02-045 PARAMETER	PLAYBACK		ALPHA	
	SELECT	READ OCTAL	SELECT	READ
MAG HEADING	0-097	0234 TO 0264	MHEAD	+15 ± 1°

(5) VERTICAL ACCELERATION

- No BITE TEST is required to generate the test value.

ENGINEERING REPORT 02-045 PARAMETER	PLAYBACK		ALPHA	
	SELECT	READ OCTAL	SELECT	READ
VERTICAL ACCELERATION	0/007	3514 to 3634	VRTG	1 ± 0.1 G

(6) PITCH ATTITUDE

- Select on overhead panel IRU 1, 2, & 3 to NAV (no need to align).
- Press and hold maintenance panel 470VU pushbutton switch IRS1 to generate the test value
- Release maintenance panel 470VU pushbutton switch IRS1



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ENGINEERING REPORT 02-045 PARAMETER	PLAYBACK		ALPHA	
	SELECT	READ OCTAL	SELECT	READ
PITCH ANGLE	0/025	0130 to 0210	PITCH	4 ± 2°

(7) ROLL ATTITUDE

- Select on overhead panel IRU 1, 2, & 3 to NAV (no need to align).
- Press and hold maintenance panel 470VU pushbutton switch IRS1 to generate the test value.
- Release maintenance panel 470VU pushbutton switch IRS1

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
ROLL ANGLE	ROLL	45 ± 5°

(8) MANUAL RADIO TRANSMITTER KEYING OR CVR/DFDR SYNCH REFERENCE

- Select radio to stated positions

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
VHF1	KEYED	0/015	BIT 3 =0
VHF1	NOT KEYED		BIT 3 =1
VHF2	KEYED		BIT 2 =0
VHF2	NOT KEYED		BIT 2 =1
VHF3	KEYED		BIT 1 =0

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ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
VHF3	NOT KEYED		BIT 1 =1
HF1	KEYED	0/021	BIT 2 =0
HF1	NOT KEYED		BIT 2 =1
HF2	KEYED		BIT 1 =0
HF2	NOT KEYED		BIT 1 =1

(9) THRUST/POWER OF EACH ENGINE

- Start the applicable engine(s) (Ref. 71-00-00, P. Block 501)) to generate the "ground idle" test value.
- Ensure that the ALPHA read N1 present indication matches that which is displayed on the main instrument panel.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
N1 ACTUAL ENG1 - GE	N1	PRESENT INDICATION %
N1 ACTUAL ENG1 - PW		
N1 ACTUAL ENG2 - GE		
N1 ACTUAL ENG2 - PW		

(10) AUTOPILOT ENGAGEMENT STATUS

- Engage PITCH TRIM 1 or 2 and YAW DAMPER 1 or 2.
- Select FD/FPV Selector Switch 47FN1 (47FN2) to stated positions.



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ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
FD #1	OFF	0/005	BIT 3 = 0
	ON		BIT 3 = 1
FD #2	OFF	0/069	BIT 3 = 0
	ON		BIT 3 = 1

(11) LONGITUDINAL ACCELERATION

- No BITE TEST is required to generate the test value.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
BODY LONGITUDINAL ACCELERATION	GLON	0 ± 0.1 G

(12) PITCH CONTROL INPUT

- Hydraulic power must remain selected on.
- Deflect control column to stated positions.
- Refer to (Ref. Fig. 501) for removal/installation/adjustment.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
CONTROL COLUMN POSITION	NEUTRAL	0/003	3624 to 4106
	FULL FWD		4600 to 5400
	FULL AFT		2400 to 3200



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(13) LATERAL CONTROL INPUT

- Hydraulic power must remain selected on.
- Deflect control wheel to stated positions.
- Refer to (Ref. Fig. 502) for removal/installation/adjustment.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
CONTROL WHEEL POSITION	NEUTRAL	0/021	3766 to 4021
	FULL CW		4600 to 5200
	FULL CCW		2500 to 3100

(14) RUDDER PEDAL INPUT

- Hydraulic power must remain selected on.
- Deflect rudder pedals to the stated positions.
- Refer to (Ref. Fig. 503) for removal/installation/adjustment.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
RUDDER PEDAL POSITION	NEUTRAL	0/059	3725 to 4046
	FULL RIGHT		5100 to 5500
	FULL LEFT		2200 to 2700

(15) PRIMARY PITCH CONTROL SURFACE POSITION

- Deflect elevators to stated positions.



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ENGINEERING REPORT 02-045 PARAMETER	POSITION	ALPHA	
		SELECT	READ
ELEVATOR POSITION	NEUTRAL	ELEV	80 ± 5°
	FULL AIRCRAFT NOSE UP (ANU)		29 ± 5°

- (16) PRIMARY LATERAL CONTROL SURFACE POSITION
- Deflect ailerons to stated positions.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	ALPHA	
		SELECT	READ
AILERON POSITION LEFT	NEUTRAL	AIL	80 ± 5°
	FULL LEFT TURN		60 ± 5°
	FULL RIGHT TURN		20 ± 5°
AILERON POSITION RIGHT	NEUTRAL		80 ± 5°
	FULL LEFT TURN		20 ± 5°
	FULL RIGHT TURN		60 ± 5°

- (17) PRIMARY YAW CONTROL SURFACE POSITION
- Trim rudder to 10 ± 1(right turn).
- Return rudder trim to 0(when complete).

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
RUDDER SURFACE POS	RUDR	+10 ± 1°

- (18) LATERAL ACCELERATION
- No BITE TEST is required to generate the test value.



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ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
BODY LATERAL ACCELERATION	GLAT	0 ± 0.1 G

- (19) PITCH TRIM SURFACE POSITION
- Trim horizontal stabilizer to 2 UP.
 - Return horizontal stabilizer trim to 0° when complete.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
STABILIZER SURFACE POS	STAB	+2 ± 0.5°

- (20) TRAILING EDGE FLAP OR COCKPIT FLAP CONTROL SELECTION
- Select flaps to stated positions.
 - Hydraulic power must remain selected on.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	ALPHA	
		SELECT	READ
FLAPS POSITION	ZERO	FLAP	0°
	FORTY		79 ± 5°

- (21) LEADING EDGE FLAP OR COCKPIT FLAP CONTROL SELECTION
- Select slats to stated positions.
 - Hydraulic power must remain selected on.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	ALPHA	
		SELECT	READ
SLATS POSITION	ZERO	SLAT	0°



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ENGINEERING REPORT 02-045 PARAMETER	POSITION	ALPHA	
		SELECT	READ
	THIRTY		67 ± 5°

(22) EACH ENGINE THRUST REVERSER POSITION

- Select T/R(s) to stated positions.
- Hydraulic power must remain selected on for PW engines.
- Pneumatics must be selected on for GE engines.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK		ALPHA	
		SELECT	READ BINARY	SELECT	READ
REVERSER IN POS ENG 1	STOWED	0/041	BIT 2 = 1	TRPOS	1
	DEPLOYED		BIT 2 = 0	TREV	LOCKED
REVERSER UNLOCK ENG 1	STOWED		BIT 1 = 1	TRPOS	1
	DEPLOYED		BIT 1 = 0	TREV	LOCKED
REVERSER IN POS ENG 2	STOWED	0/105	BIT 2 = 1	TRPOS	1
	DEPLOYED		BIT 2 = 0	TREV	LOCKED
REVERSER UNLOCK ENG 2	STOWED		BIT 1 = 1	TRPOS	1
	DEPLOYED		BIT 1 = 0	TREV	LOCKED

(23) GROUND SPOILER POSITION OR SPEEDBRAKE SELECTION

- Select spoiler(s) to stated positions.
- Hydraulic power must remain selected on.
- Spoilers 6 & 7 movement require an aileron input.



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ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ BINARY
SPOILER 1 RH RET	RETRACTED	0/083	BIT 2 = 1
	EXTENDED		BIT 2 = 0
SPOILER 1 LH RET	RETRACTED		BIT 1 = 1
	EXTENDED		BIT 1 = 0
SPOILER 2 RH RET	RETRACTED	0/084	BIT 2 = 1
	EXTENDED		BIT 2 = 0
SPOILER 2 LH RET	RETRACTED		BIT 1 = 1
	EXTENDED		BIT 1 = 0
SPOILER 3 RH RET	RETRACTED	0/084	BIT 4 = 1
	EXTENDED		BIT 4 = 0
SPOILER 3 LH RET	RETRACTED		BIT 3 = 1
	EXTENDED		BIT 3 = 0
SPOILER 4 RH RET	RETRACTED	0/084	BIT 6 = 1
	EXTENDED		BIT 6 = 0
SPOILER 4 LH RET	RETRACTED		BIT 5 = 1
	EXTENDED		BIT 5 = 0
SPOILER 5 RH RET	RETRACTED	0/084	IT 8 = 1
	EXTENDED		BIT 8 = 0
SPOILER 5 LH RET	RETRACTED		BIT 7 = 1
	EXTENDED		BIT 7 = 0
SPOILER 6 RH RET	RETRACTED		BIT 10 = 1

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		SELECT	READ BINARY
	EXTENDED	0/084	BIT 10 = 0
SPOILER 6 LH RET	RETRACTED		BIT 9 = 1
	EXTENDED		BIT 9 = 0
	RETRACTED	0/084	BIT 12 = 1
SPOILER 7 RH RET	EXTENDED		BIT 12 = 0
	RETRACTED	0/084	BIT 11 = 1
SPOILER 7 LH RET	EXTENDED		BIT 11 = 0
	NOT ARMED	0/118	BIT 1 = 1
GROUND SPOILER NOT ARMEDNOT ARMED	ARMED		BIT 1 = 0

(24) OUTSIDE OR TOTAL AIR TEMPERATURE

- Ensure that the ALPHA read present TAT matches that which is displayed on the left ECAM.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
TOTAL AIR TEMPERATURE	TAT	PRESENT TAT ° C

(25) AUTOMATIC FLIGHT CONTROL SYSTEM MODES AND ENGAGEMENT STATUS

- Refer first NOTE in to paragraph 1. for testing procedure.

(26) RADIO ALTITUDE

- Information in parentheses concerns system 2 test, which is identical to system 1 test.
- Open panel 21VU c/b RAD/ALTM2 (RAD/ALTM1).



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- Press and hold maintenance panel 470VU pushbutton switch RAD ALT1 (RAD ALT2) to generate the test value.
- Release maintenance panel 470VU pushbutton switch RAD ALT1 (RAD ALT2).
- Close panel 21VU c/b RAD/ALTM2 (RAD/ALTM1).

ENGINEERING REPORT 02-045 PARAMETER	PLAYBACK		ALPHA	
	SELECT	READ OCTAL	SELECT	READ
RADIO ALTITUDE 1	5/037	0043 to 0055	RALT	40 ± 5 FT
RADIO ALTITUDE 2	6/037			

(27) LOCALIZER DEVIATION, MLS AZIMUTH

- Select the local ILS frequency.
- Select ILS on the FCU.
- Information in parentheses concerns system 2 test, which is identical to system 1 test.
- Press and hold maintenance panel 470VU pushbutton switch ILS1 (ILS2) to generate the test value.
- Release maintenance panel 470VU pushbutton switch ILS1 (ILS2).

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ OCTAL
LOCALIZER DEVIATION 1	1 DOT RIGHT	5/065	0550 to 0620
LOCALIZER DEVIATION 2	1 DOT RIGHT	6/065	0550 to 0620

(28) GLIDESLOPE DEVIATION, MLS ELEVATION

- Information in parentheses concerns system 2 test, which is identical to system 1 test.
- Press and hold maintenance panel 470VU pushbutton switch ILS1 (ILS2) to generate the test value.
- Release maintenance panel 470VU pushbutton switch ILS1 (ILS2).



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ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK	
		SELECT	READ OCTAL
GLIDE SLOPE DEVIATION 1	1 DOT DOWN	5/063	0720 to 0760
GLIDE SLOPE DEVIATION 2	1 DOT DOWN	6/063	0720 to 0760

(29) MARKER BEACON PASSAGE

- Press and hold maintenance panel 470VU pushbutton switch VOR MKR 1 to generate the test value.
- Release maintenance panel 470VU pushbutton switch VOR MKR 1.
- If the marker beacon parameters test good, but the maintenance action was initiated due to missing marker beacon parameters during a routine shop readout, perform Marker Beacon Functional Test per (Ref. 34-33-00-5)

ENGINEERING REPORT 02-045 PARAMETER	TEST VALUE	PLAYBACK	
		SELECT	READ BINARY
INNER MARKER BEACON	NOT ACTIVATED	0/009	BIT 1 = 0
	ACTIVATED		BIT 1 = 1
MIDDLE MARKER BEACON	NOT ACTIVATED		BIT 2 = 0
	ACTIVATED		BIT 2 = 1
OUTER MARKER BEACON	NOT ACTIVATED	0/067	BIT 1 = 0
	ACTIVATED	BIT 1 = 1	

(30) MASTER WARNING

- Refer first NOTE in to paragraph 1. for testing procedure.

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- (31) AIR/GROUND SENSOR
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (32) ANGLE OF ATTACK
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (33) HYDRAULIC PRESSURE LOW (EACH SYSTEM)
 - Pressurize and depressurize applicable hydraulic system as stated.

ENGINEERING REPORT 02-045 PARAMETER	STATE	PLAYBACK	
		SELECT	READ BINARY
HYD YEL SYS NO LOW PRESS	DEPRESSURIZED	5/047	BIT 5 = 0
	PRESSURIZED		BIT 5 = 1
HYD GRN SYS NO LOW PRESS	DEPRESSURIZED		BIT 4 = 0
	PRESSURIZED		BIT 4 = 1
HYD BLUE SYS NO LOW PRESS	DEPRESSURIZED		BIT 3 = 0
	PRESSURIZED		BIT 3 = 1

- (34) GROUND SPEED
 - Select on overhead panel IRU 1, 2, & 3 to NAV.
 - Press and hold maintenance panel 470VU pushbutton switch IRS1 to generate the test value.
 - Release maintenance panel 470VU pushbutton switch IRS1.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
GROUND SPEED	GSPD	200 ± 10 KTS



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- (35) GROUND PROXIMITY WARNING SYSTEM
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (36) LANDING GEAR POSITION OR LANDING GEAR COCKPIT CONTROL SELECTION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (37) DRIFT ANGLE
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (38) WIND SPEED AND DIRECTION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (39) LATITUDE AND LONGITUDE
 - Align all IRU's.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
LATITUDE	LAT	PRESENT LATITUDE °
LONGITUDE	LON	PRESENT LONGITUDE °

- (40) STICK SHAKER/PUSHER
 - Information in parentheses concerns system F/O test, which is identical to system CAPT test.
 - Press and hold maintenance panel 470VU pushbutton switch ALPHA PROBES CAPT (ALPHA PROBES F/O) to generate the ACTIVATED test value.
 - Release maintenance panel 470VU pushbutton switch ALPHA PROBES CAPT (ALPHA PROBES F/O).

ENGINEERING REPORT 02-045 PARAMETER	TEST VALUE	PLAYBACK	
		SELECT	READ BINARY
STALL WARNING	NOT ACTIVATED	0/077	BIT 1 = 0

P.Bik EFFECTIVITY: FED ALL

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ENGINEERING REPORT 02-045 PARAMETER	TEST VALUE	PLAYBACK	
		SELECT	READ BINARY
	ACTIVATED		BIT 1 = 1

- (41) WINDSHEAR
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (42) THROTTLE/POWER LEVER POSITION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (43) ADDITIONAL ENGINE PARAMETERS
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (44) TRAFFIC ALERT AND COLLISION AVOIDANCE SYSTEM
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (45) DME 1 AND 2 DISTANCES
 - Information in parentheses concerns system 2 test, which is identical to system 1 test.
 - Press and hold maintenance panel 470VU pushbutton switch DME 1 (DME 2) to generate the PLAYBACK test value. No test value is required for ALPHA.
 - Release maintenance panel 470VU pushbutton switch DME 1 (DME 2).
 - Ensure that the ALPHA read present distance matches that which is displayed on the DDRMI.

ENGINEERING REPORT 02-045 PARAMETER	PLAYBACK		ALPHA	
	SELECT	READ OCTAL	SELECT	READ
DME 1 DISTANCE	1/004	0000	DIST	PRESENT DISTANCE NM
DME 2 DISTANCE	3/004	0000		

P.BIK EFFECTIVITY: FED ALL

31-31-00-05

- (46) NAV 1 AND 2 SELECTED FREQUENCY
- Set a frequency of 108 MHz on VOR 1 control box to generate VOR 1 test value.
 - Set a frequency of 110 MHz on VOR 2 control box to generate VOR 2 test value.
 - Set a frequency of 108.1 MHz on ILS 1 control box and open c/b 10RT2 to generate ILS 1 test value.
 - Set a frequency of 110.1 MHz on ILS 2 control box and open c/b 10RT1 to generate ILS 2 test value.

ENGINEERING REPORT 02-045 PARAMETER	PLAYBACK	
	SELECT	READ OCTAL
VOR 1 FREQUENCY	1/006	2000
VOR 2 FREQUENCY	3/006	4000
ILS 1 FREQUENCY	2/006	2010
ILS 2 FREQUENCY	4/006	4010

- (47) SELECTED BAROMETRIC SETTING
- Refer first NOTE in to paragraph 1. for testing procedure.
- (48) SELECTED ALTITUDE
- Refer first NOTE in to paragraph 1. for testing procedure.
- (49) SELECTED SPEED
- Refer first NOTE in to paragraph 1. for testing procedure.
- (50) SELECTED MACH
- Refer first NOTE in to paragraph 1. for testing procedure.
- (51) SELECTED VERTICAL SPEED
- Refer first NOTE in to paragraph 1. for testing procedure.



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- (52) SELECTED HEADING
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (53) SELECTED FLIGHT PATH
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (54) SELECTED DECISION HEIGHT
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (55) EFIS DISPLAY FORMAT
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (56) MULTI-FUNCTION/ENGINE/ALERTS/DISPLAY FORMAT
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (57) THRUST COMMAND
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (58) THRUST TARGET
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (59) FUEL QUANTITY IN CG TRIM TANK
 - Ensure that the ALPHA read present quantity matches that which is displayed on the ECAM fuel page.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
TRIM TANK QUANTITY	TTQ	PRESENT QUANTITY LBS

- (60) PRIMARY NAVIGATION SYSTEM REFERENCE
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (61) ICING
 - Move valve to stated positions to generate test value.
 - Refer first NOTE in to paragraph 1. for testing procedure for all wing anti ice valves.



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ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK		ALPHA	
		SELECT	READ BINARY	SELECT	READ
INLET ANTI ICE VALVE ENG1	CLOSED	3/101	BIT 12 = 0	IAIV	0
	OPEN		BIT 12 = 1		1
INLET ANTI ICE VALVE ENG2	CLOSED		BIT 11 = 0	IAIV	0
	OPEN		BIT 11 = 1		1
	OPEN		BIT 7 = 1		1

- (62) ENGINE WARNING EACH ENGINE VIBRATION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (63) ENGINE WARNING EACH ENGINE OVER TEMP
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (64) ENGINE WARNING EACH ENGINE OIL PRESSURE LOW
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (65) ENGINE WARNING EACH ENGINE OVERSPEED
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (66) YAW TRIM SURFACE POSITION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (67) ROLL TRIM SURFACE POSITION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (68) BRAKE PRESSURE (SELECTED SYSTEM)
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (69) BRAKE PEDAL APPLICATION (LEFT AND RIGHT)
 - Deflect either Capt's or F/O's LH brake pedal to generate LH test signal.



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- Deflect either Capt's or F/O's RH brake pedal to generate RH test signal.
- The ALPHA read changing value may ultimately read all dashes.

ENGINEERING REPORT 02-045 PARAMETER	ALPHA	
	SELECT	READ
BRAKE DEFLECTION LH	BRKP	CHANGING VALUE
BRAKE DEFLECTION RH		

(70) YAW OR SIDESLIP ANGLE

- Refer first NOTE in to paragraph 1. for testing procedure.

(71) ENGINE BLEED VALVE POSITION

- Move valve to stated positions to generate test value.

ENGINEERING REPORT 02-045 PARAMETER	POSITION	PLAYBACK		ALPHA	
		SELECT	READ BINARY	SELECT	READ
BLEED VALVE ENG1	CLOSED	0/073	BIT 2 = 0	BLDV	NOT OPEN
	OPEN		BIT 2 = 1		OPEN
BLEED VALVE ENG2	CLOSED		BIT 1 = 0		NOT OPEN
	OPEN		BIT 1 = 1		OPEN

(72) DE-ICING OR ANTI ICING SYSTEM SELECTION

- Refer first NOTE in to paragraph 1. for testing procedure.

(73) COMPUTED CENTER OF GRAVITY

- Refer first NOTE in to paragraph 1. for testing procedure.

- (74) AC ELECTRICAL BUS STATUS
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (75) DC ELECTRICAL BUS STATUS
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (76) APU BLEED VALVE POSITION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (77) HYDRAULIC PRESSURE (EACH SYSTEM)
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (78) LOSS OF CABIN PRESSURE
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (79) COMPUTER FAILURE
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (80) HEADS UP DISPLAY
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (81) PARA-VISUAL DISPLAY
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (82) COCKPIT TRIM CONTROL INPUT POSITION PITCH
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (83) COCKPIT TRIM CONTROL INPUT POSITION ROLL
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (84) COCKPIT TRIM CONTROL INPUT POSITION YAW
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (85) TRAILING EDGE FLAP AND COCKPIT FLAP CONTROL POSITION
 - Refer first NOTE in to paragraph 1. for testing procedure.



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- (86) LEADING EDGE FLAP AND COCKPIT FLAP CONTROL POSITION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (87) GROUND SPOILER POSITION AND SPEEDBRAKE SELECTION
 - Refer first NOTE in to paragraph 1. for testing procedure.
- (88) ALL COCKPIT FLIGHT CONTROL INPUT FORCES
 - Refer first NOTE in to paragraph 1. for testing procedure.

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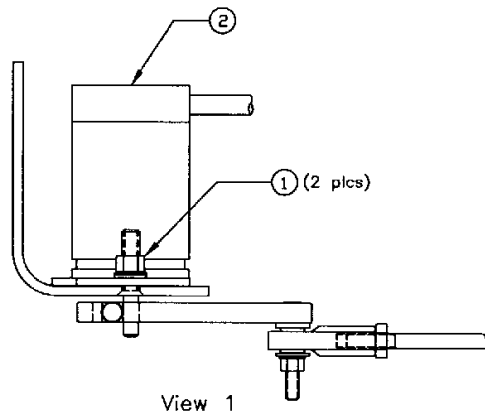
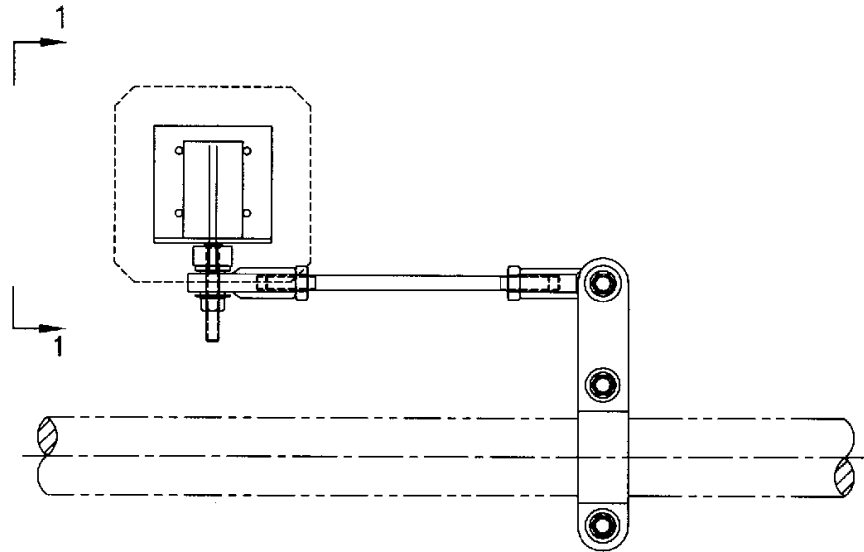


Figure 506
Control Column Position

Figure 501
Figure 501 (Sheet 1)

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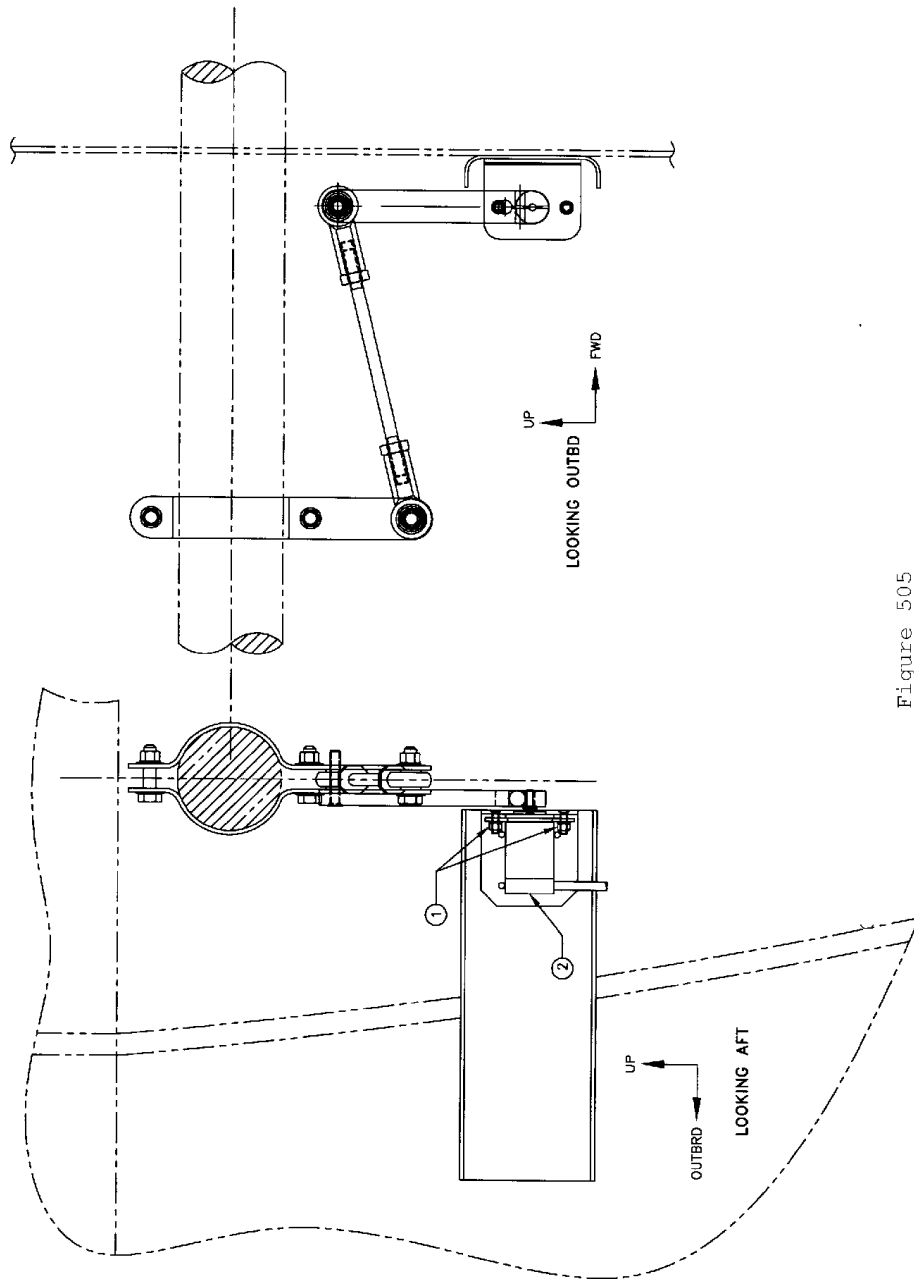


Figure 505
Control Wheel Position

Figure 502

Figure 502 (Sheet 1)

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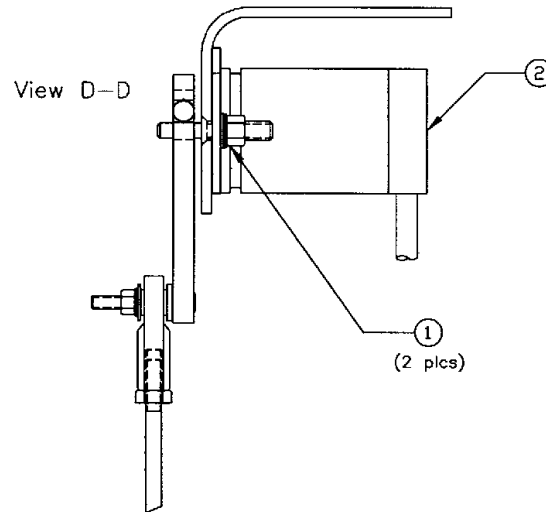
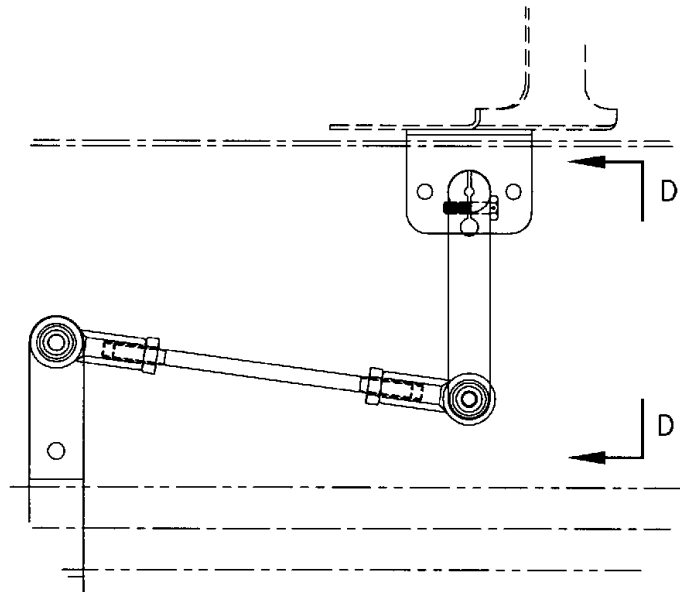


Figure 504
Rudder Pedal Position

Figure 503
Figure 503 (Sheet 1)