

Customer : HAL Type : A318/A319/A320/A321 Rev. Date : Feb 01, 2018	Manual : AMM Selected applicability : ALL
22-97-00 PB 501 CONF 00 - LAND CAT III CAPABILITY TEST - ADJUSTMENT/TEST	

**** ON A/C ALL**

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TASK 22-97-00-710-001-A
Operational Test of the LAND CAT III Capability

WARNING: MAKE SURE THAT ALL THE CIRCUITS IN MAINTENANCE ARE ISOLATED BEFORE YOU SUPPLY ELECTRICAL POWER TO THE AIRCRAFT. UNWANTED ELECTRICAL POWER CAN BE DANGEROUS.

WARNING: MAKE SURE THAT THE TRAVEL RANGES OF THE FLIGHT CONTROL SURFACES ARE CLEAR BEFORE YOU PRESSURIZE/DEPRESSURIZE A HYDRAULIC SYSTEM.

1. Reason for the Job

To make sure that the APPR mode operates correctly and to put the aircraft back to CAT III capability.

NOTE: The purpose of the Land CAT III test is to check the aircraft capability to perform a CAT III DUAL automatic landing.

2. Job Set-up Information

A. Work Zones and Access Panels

ZONE/ACCESS	ZONE DESCRIPTION
210	CKPT,FWD COMPT BHD TO FLT COMPT BULKHEAD

B. Referenced Information

REFERENCE	DESIGNATION
(Ref. 24-41-00-861-002-A).	Energize the Aircraft Electrical Circuits from the External Power
(Ref. 24-41-00-861-002-A-01).	Energize the Aircraft Electrical Circuits from the APU
(Ref. 24-41-00-861-002-A-02).	Energize the Aircraft Electrical Circuits from Engine 1(2)
(Ref. 24-41-00-862-002-A).	De-energize the Aircraft Electrical Circuits Supplied from the External Power
(Ref. 24-41-00-862-002-A-01).	De-energize the Aircraft Electrical Circuits Supplied from the APU
(Ref. 24-41-00-862-002-A-02).	De-energize the Aircraft Electrical Circuits Supplied from the Engine 1(2)
(Ref. 29-10-00-863-003-A).	Pressurize the Blue Hydraulic System with a Hydraulic Ground Power-Cart
(Ref. 29-10-00-863-003-A-01).	Pressurize the Blue Hydraulic System with the Blue Electric Pump
(Ref. 29-10-00-864-003-A).	Depressurize the Blue Hydraulic System
(Ref. 29-23-00-863-001-A).	Pressurize the Green Hydraulic System from the Yellow Hydraulic System through the PTU with the Electric Pump
(Ref. 29-23-00-864-001-A).	Depressurize the Green and Yellow Hydraulic Systems after Operation of the PTU
(Ref. 31-32-00-860-001-A).	Procedure to Get Access to the SYSTEM REPORT/TEST Menu Page

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If a failure occurs prior to the acceptance phase, the test is refused as mentioned above.

If a failure occurs after the acceptance phase, the FMGCs remain in LAND TEST condition since the aircraft is on ground with engines shut down.

From AFS/LAND TEST-4 page, the operator must answer questions by YES or NO via the MCDU.

NOTE: Please answer by YES if agree with sentence, NO if disagree.

If the answer is YES, the test continues until the last page is displayed (AFS/LAND TEST-9) with XXX LAND TEST OK final message.

If the answer is NO :

- an analysis is made at the level of the AFS BITEs in order to detect and isolate the failure, and
- a failure message is displayed on the AFS/LAND TEST REPORT page requesting to check the system concerned by the analysis.

NOTE: Each AFS/LAND TEST page displays an END OF TEST indication.

Pressing the line key adjacent to this indication results in the transmission of an END OF TEST FIDS command to the four FG BITEs.

Reception of this command causes loss of the LAND TEST ACCEPTATION condition for each BITE.

The LAND TEST introduces the capability to test MLS and GLS (provision) landing systems in addition to ILS system (AFS/LAND TEST-0 page).

NOTE: AFS/LAND TEST-0 page will be displayed only if another landing system than ILS is installed.

In addition, a test Close-Up page is added in order to replace the A/C systems in their initial states.

Figure 22-97-00-13200-00-D / SHEET 1/4 - Land Test (Accepted)

Figure 22-97-00-13200-00-D / SHEET 2/4 - Land Test (Accepted)

Figure 22-97-00-13200-00-D / SHEET 3/4 - Land Test (Accepted)

Figure 22-97-00-13200-00-D / SHEET 4/4 - Land Test (Accepted)

Figure 22-97-00-13300-00-B / SHEET 1/1 - Land Test (Refused)

End of document 

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REFERENCE	DESIGNATION
(Ref. 31-60-00-860-001-A).	EIS Start Procedure
(Ref. 31-60-00-860-002-A).	EIS Stop Procedure
(Ref. 34-10-00-860-004-A).	IR Alignment Procedure
(Ref. 34-10-00-860-004-A-01).	Automatic IR Alignment Procedure
(Ref. 34-10-00-860-005-A).	ADIRS Stop Procedure

3. Job Set-up

Subtask 22-97-00-860-051-A

A. Aircraft Maintenance Configuration

- (1) Energize the aircraft electrical circuits
(Ref. AMM TASK 24-41-00-861-002) .
- (2) Do the EIS start procedure
(Ref. AMM TASK 31-60-00-860-001) .
- (3) Align the three ADIRS
(Ref. AMM TASK 34-10-00-860-004) .
- (4) Pressurize the aircraft hydraulic systems
(Ref. AMM TASK 29-23-00-863-001)
(Ref. AMM TASK 29-10-00-863-003) .

These items will already will be accomplished on SIM.

NOTE: You must pressurize the three hydraulic systems:

- to make sure that, when the test is completed, the system has 98% operational capability.

- (5) On the maintenance panel 50VU, make sure that the ENG/FADEC GND PWR 1 and 2 pushbutton switches are off.
- (6) On the panel 402VU, make sure that the A/SKID & NOSE WHEEL switch is at ON.
- (7) On one MCDU:
 - (a) Get the SYSTEM REPORT/TEST page
(Ref. AMM TASK 31-32-00-860-001) .
 - (b) Push the line key adjacent to the AFS indication.

Subtask 22-97-00-865-050-A

B. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL	DESIGNATION	FIN	LOCATION
49VU	AUTO FLT/FCU/1	9CA1	B05
49VU	AUTO FLT/FMGC/1	10CA1	B02
49VU	AUTO FLT/MCDU/1	11CA1	B01
121VU	AUTO FLT/FCU/2	9CA2	M21
121VU	AUTO FLT/FMGC/2	10CA2	M17
121VU	AUTO FLT/MCDU/2	11CA2	N20
121VU	AUTO FLT/RUDDER/ARTF/FEEL	14CA	N17
121VU	AUTO FLT/STICK/LOCK	13CA	N16

4. Procedure

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Subtask 22-97-00-710-051-D

A. Do this test:

NOTE: The automatic landing capability can be deduced from these ECAM STATUS pages:

INOP indication	Automatic Landing Capability
CAT III DUAL	CAT III SINGLE
CAT III	CAT II
CAT II	CAT I

NOTE: You can stop the LAND TEST when it is necessary. To stop the test, push the line key adjacent to the END OF TEST indication, (the AFS MAIN MENU page comes into view).

ACTION	RESULT
1. On the MCDU, on the AFS MAIN MENU page: · Push the line key adjacent to the LAND TEST indication (line 5R) · Select the landing mode.	On the MCDU, the AFS/LAND TEST-1 page comes into view.
2. Make sure that the aircraft configuration is the same as given on the AFS/LAND TEST-1 page. Then push the next page function key.	On the MCDU, the AFS/LAND TEST-2 page comes into view. If it does not come into view, and the LAND TEST REFUSED indication comes into view, push the line key adjacent to the END OF TEST indication and do the test again.
3. Make sure that the aircraft configuration is the same as given on the AFS/LAND TEST-2 page. Then push the next page function key.	The AFS/LAND TEST-3 page comes into view.
4. Do the ILS FREQ/CRS or MLS CHAN/CRS (if MLS fitted) selection as given on the AFS/LAND TEST-3 page. Then push the next page function key. NOTE: If local airport is equipped with an ILS having a frequency of 109.9, enter another frequency which should be also different from the other local ILS frequencies (if any others are existing).	The AFS/LAND TEST-4 page comes into view.
5. As indicated on the AFS/LAND TEST-4 page: · Make sure that these INOP AUTO FLT indications (CAT2, CAT3, CAT3 DUAL) do not come into view on the right part of ECAM STATUS page.	NOTE: If the list of indications is full, an arrow comes into view at the bottom on the line (between the left and the right parts of the display unit). On the ECAM control panel, push the CLR key to get the remaining indications.
6. If there are no INOP AUTO FLT indications in view, push the line key adjacent to the YES indication.	The AFS/LAND TEST-5 page comes into view.

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ACTION	RESULT
7. For each of the AFS/LAND TEST-5,6,7 and 8 procedure pages: · Obey the instructions given on the MCDU:	NOTE: On the AFS/LAND TEST-6 and 7 procedure pages, you only have to check the column Approach Capability (other columns are not shown on the MCDU).
· To reply YES: Push the line key adjacent to YES if the result of the visual and the aural checks is correct.	The AFS/LAND TEST-6,7 and 8 pages come into view.
· To reply NO: Push the line key adjacent to NO.	One AFS/LAND TEST REPORT page comes into view. This page shows a failure indication. To continue the test after the repair, push the line key adjacent to the RETURN indication (the procedure in progress comes into view).
	NOTE: If the result of the visual and aural checks is incorrect and the result of the test is correct: - The procedure in progress comes into view.
8. If the test is correct: The ILS (or MLS) LAND TEST OK indication comes into view on the AFS/LAND TEST-9 page. · select the END OF TEST indication.	The AFS/LAND TEST CLOSE-UP page comes into view.
9. Do the operations as given on the AFS/LAND TEST CLOSE-UP page. · Select OTHER LAND TEST indication to do another test (ILS or MLS if fitted) or RETURN indication.	
10. On the MCDU, push the line key adjacent to the RETURN indication until the CFDS menu page comes into view.	On the MCDU: · The CFDS MENU page comes into view.

5. Close-up

Subtask 22-97-00-860-050-A

A. Put the aircraft back to its initial configuration.

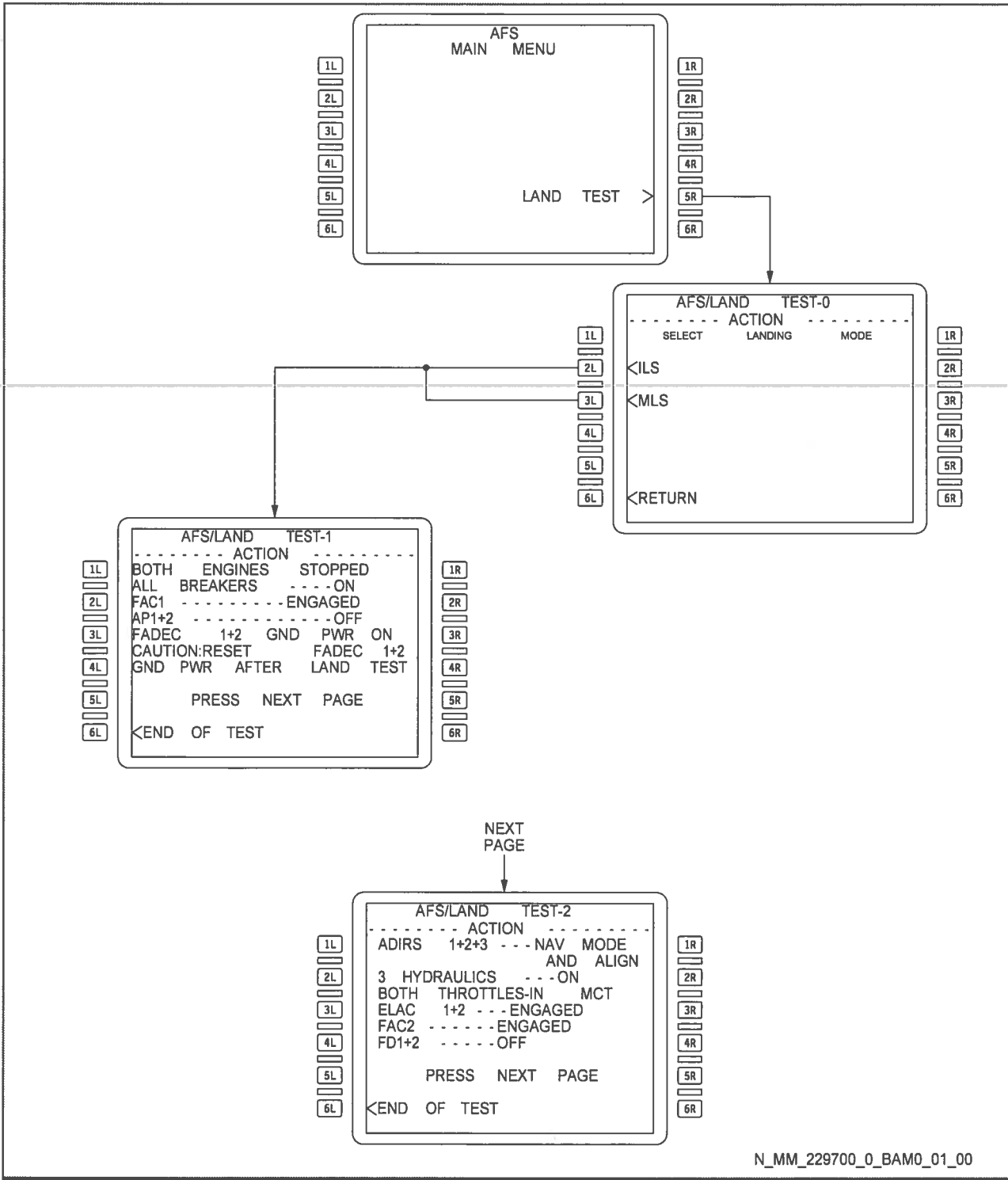
- (1) Depressurize the aircraft hydraulic systems
(Ref. AMM TASK 29-23-00-864-001)
(Ref. AMM TASK 29-10-00-864-003) .
- (2) On the center pedestal 115VU, move back the throttle control levers to the IDLE STOP position.
- (3) On the maintenance panel 50VU, push the ENG/FADEC GND PWR 1 and 2 pushbutton switches (the ON legends go off).
- (4) On the MCDU used for radio navigation mode:
- push the RAD NAV mode key and clear the ILS frequency and course.
- (5) On the FCU:
· push the APPR pushbutton switch to off (ILS frequency and course are no more displayed on the PFDs/NDs if ROSE (I)LS mode selected)

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- push the FD and (I)LS (1 & 2) pushbutton switches to off.
- (6) On the overhead panel 23VU:
- push the FAC1 pushbutton switch (the OFF legend goes off).
 - make sure that the FLT CTL/SEC1 pushbutton switch is in the ON position. If not, push the FLT CTL/ SEC1 pushbutton switch (the OFF legend goes off).
- (7) On the overhead panel 24VU:
- push the FLT CTL/ELAC2 pushbutton switch (the OFF legend goes off).
 - make sure that the FLT CTL/SEC2 and FLT CTL/SEC3 pushbutton switches are in the ON position. If not, push the FLT CTL/SEC2 and FLT CTL/SEC3 pushbutton switches (the OFF legends go off).
- (8) Do the ADIRS stop procedure
(Ref. AMM TASK 34-10-00-860-005)
- (9) Do the EIS stop procedure
(Ref. AMM TASK 31-60-00-860-002) .
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- (10) De-energize the aircraft electrical circuits
(Ref. AMM TASK 24-41-00-862-002) .

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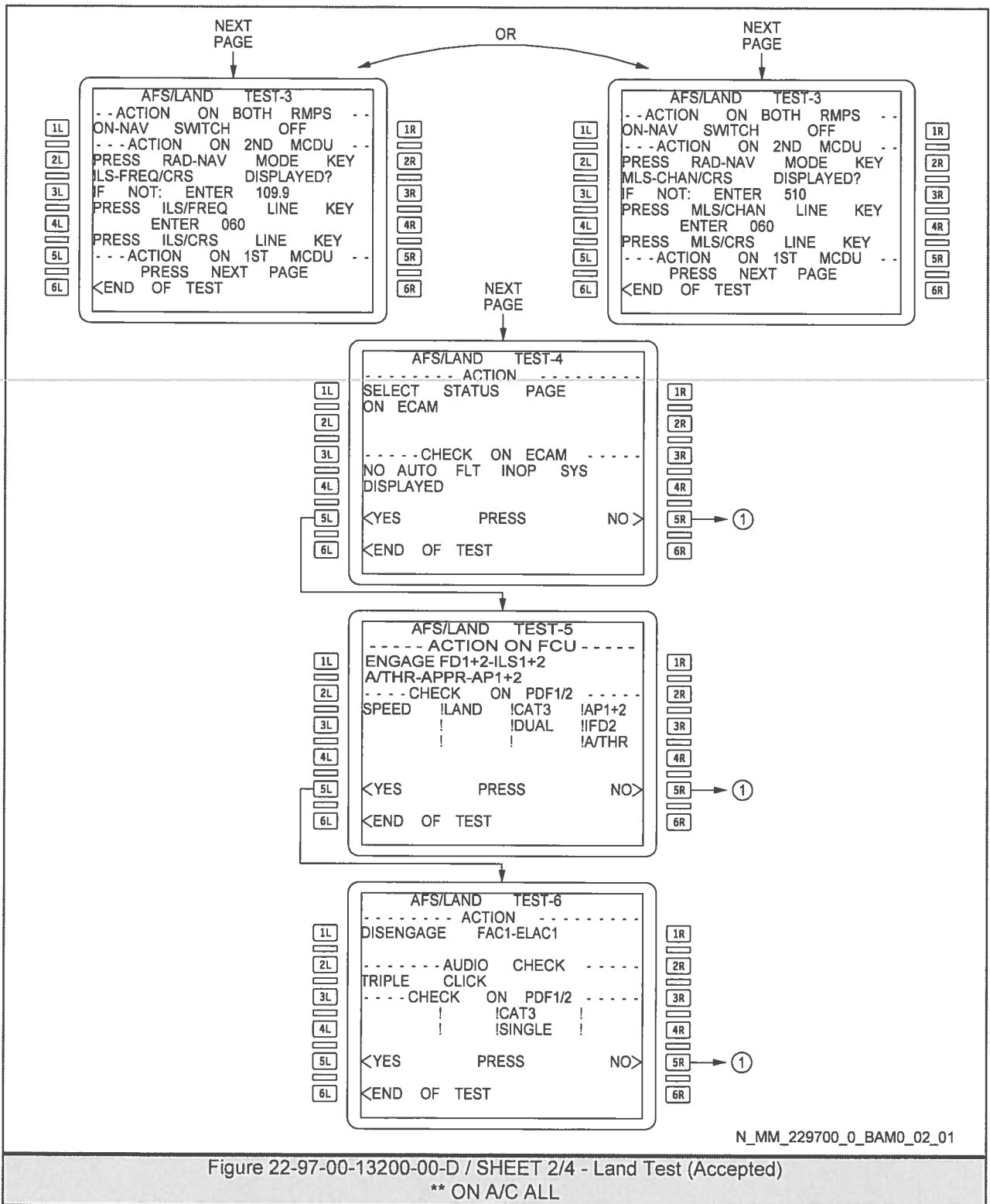
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Figure 22-97-00-13200-00-D / SHEET 1/4 - Land Test (Accepted)
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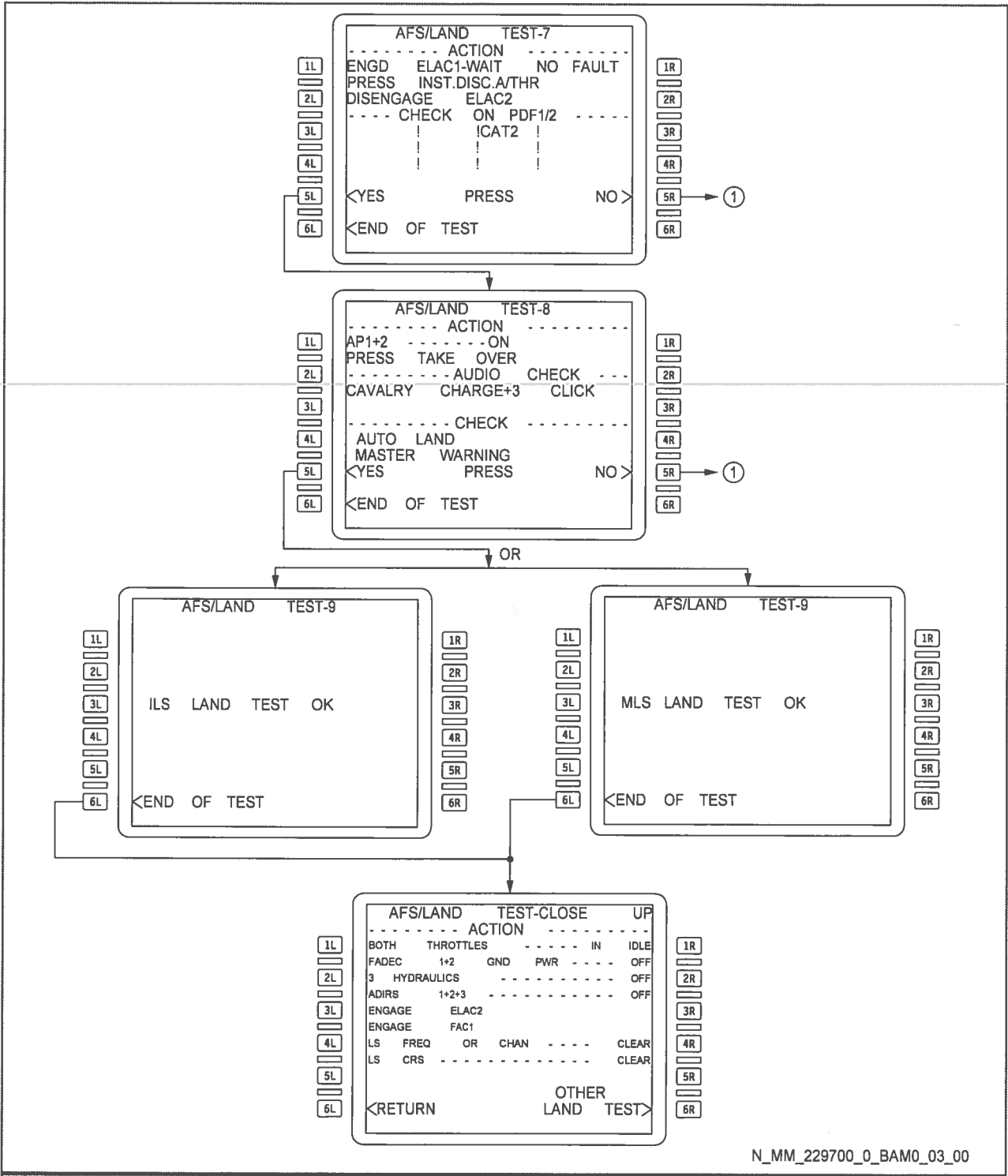
22-97-00 PB 001 CONF 00 - LAND CAT III
 CAPABILITY TEST - DESCRIPTION AND OPERATION



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Figure 22-97-00-13200-00-D / SHEET 2/4 - Land Test (Accepted)
 ** ON A/C ALL

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 CAPABILITY TEST - DESCRIPTION AND OPERATION



N_MM_229700_0_BAM0_03_00

Figure 22-97-00-13200-00-D / SHEET 3/4 - Land Test (Accepted)
 ** ON A/C ALL