

FUNCTIONAL TEST

PFBFA-52-12-01-00/0

Issue A Pages. 18

SPF, Aircraft System Engineering Department

Aircraft

A330 MRTT

Title:

Cockpit Door functional test

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Prepared by: Amaia Castelló	Jesús Villasante San Román	Approved by: Antonio Corrales Domínguez
Signature:	Signature:	Signature:
Amaia Gotallo	AH	Alls
Date:	Date:	Date:
04/10/09	03/03/10	03/03/10

PFBFA-52-12-01-00/0

REVISIONS RECORD

Issue	Revision Reason	Approved		
Date	Chapters, Sections, Affected Pages	Signature		
А	New Issue	A corrales		
03/03/10	All pages	Alls		

1 INTRODUCTION

1.1 Object

This document establishes the functional test to carry out on the A330 MRTT RAAF Cockpit Door, in order to demonstrate that the cockpit door has been mounted correctly and that both Door and Cockpit Door Lock System work as expected.

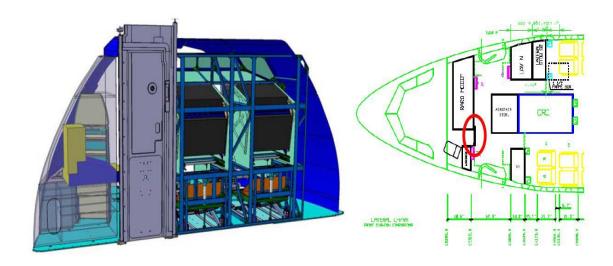


Figure 1. Cockpit Door recolocation

1.2 DESCRIPTION

The Cockpit Door system is composed by two parts:

- The Cockpit Door
- o The Cockpit Door Lock System

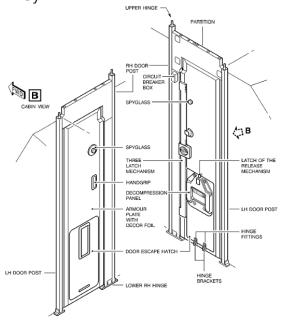


Figure 2. Main parts of the Cockpit Door

The MRTT modification in the Cockpit Door system only affects to the structural fixation to the A/C. The CDLS is not affected by MRTT conversion except for the Electrical harnesses to reach the new location.

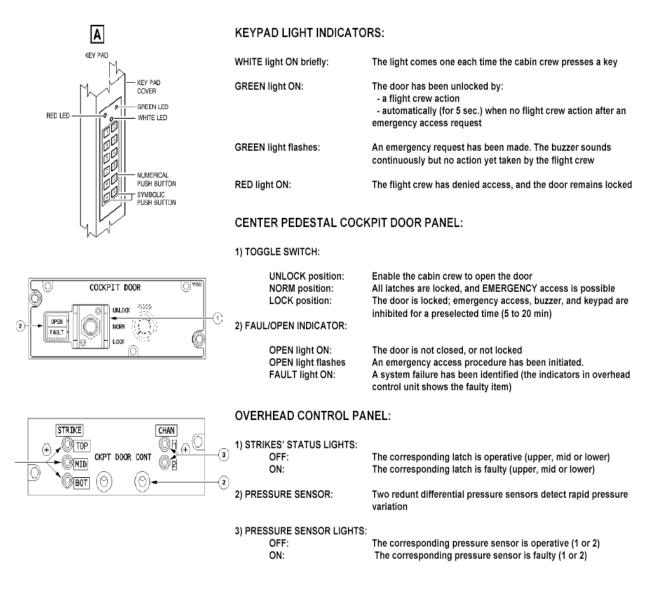


Figure 3. Summary of CDLS indications

1.3 List of acronyms and abbreviations

AMM	Aircraft Maintenance Manual
ASSY	Assembly
INST	Installation
MRTT	Multi-Role Tanker Transport
N/A	Not Applicable
RAAF	Royal Australian Air Force
A/C	Aircraft
Fwd	Forward
Aft	Afterwards
C/B	Circuit Breaker
CDLS	Cockpit Door Lock System

2 APPLICABLE DOCUMENTATION

NT-FA-AEO-07-187 ATA 52 A330 MRTT RAAF. COCKPIT DOOR INSTALLATION.

GROUND TEST REQUIREMENTS

DT-FA-AEO06-212 A330-200 MRTT ATA 25 EQUIPMENT/FURNISHING

MODIFICATION DESCRIPTION. MILITARY CONFIGURATION

JAR 25 Change 13 effective on October 5, 1989

DT-FA-AEO-06-165 ATA 25 A330-22 CIVIL CERTIFICATION PROGRAM PLAN

AMM Aircraft Maintenance Manual
ASM Aircraft Schematic Manual
AWM Aircraft Wiring Manual

3 AIRCRAFT CONFIGURATION

The next assemblies must be installed before test execution:

ITEM	DRAWING
COCKPIT DOOR MODIFICATION	F251A0003000
COCKPIT DOOR INSTALATION	F251A0110000
MAGNETIC LATCH INSTALATION	F251A0130000

Table 1. Airstairs test A/C configuration

The next tasks must be performed before Cockpit door test:

- Electrical power on of the A/C, according with TASK 24-41-00-861-801 of AMM: Energize the Aircraft Electrical Circuits from the External Power A.
- Bonding and grounding test of the A/C must be performed.
- Detailed Inspection of Mechanical Parts of Door Locking System, according with TASK 52-51-00-200-801.
- Adjustment of the Cockpit Door and Door Latch Mechanism, according with TASK 52-51-11-820-801.
- Cockpit door must be programmed. If it is not, see Annex 1 for further details.

3.1 Test equipment

No special tooling is required.

3.2 Personnel required for the test

Two (2) operators:

- One operator (acting as flight crew member) from the cockpit side (OP-1)
- One operator (acting as cabin crew member) from the cabin side (OP-2).

One (1) observer

4 DEFINITIONS

N/A.

5 PRELIMINARY INSTRUCTIONS

5.1 Safety Instructions

- All relevant Work Standing Orders concerning safety must be complied with.
- Trained personal must be used perform the CDLS functional test.
- Make certain that personnel or any obstructions are in the way Cockpit Door opening way. For this purpose Cockpit must be clear:

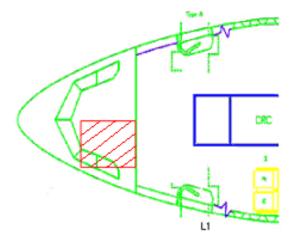


Figure 4. Area to be clear when performing the functional test

5.2 Preliminary actions

- Check the Cockpit Door condition, chafing and cracks.
- Check for the keypad panel condition.
- Check for continuity in 1MQ breaker.
- The following circuit breaker must be closed: 1MQ (Cockpit Door Latch) at 722VU.
- All the engines and the APU shall be shut down.

6 TEST EXECUTION

6.1 Test conditions

The following **test conditions** will apply unless otherwise stated:

Ambient conditions: Temperature: -15°C to 40°C

Aircraft attitude: Pitch: 0° approximately

Roll: 0° approximately

The aircraft must rest in a flat surface over its landing gear

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6.2 CDLS functional test

NOTE: See Annex 8.1 to see figures explaining location of the different control panels and components

1. Cockpit Door Locking System (CDLS) Test

- 1.1 On the center pedestal cockpit door panel, set and hold the toggle switch on the UNLOCK position.
 - The cockpit door will be unlocked
- 1.2 Move the cockpit door in the open direction.
 - The OPEN indication on the center pedestal comes on.
- 1.3 On the center pedestal cockpit door panel, release the toggle switch. It returns to the NORM position automatically.
 - The door latches are blocked
- 1.4 With the door in open position, set and hold the toggle switch on the LOCK position. Touch the three latches on the doorframe: they must maintain locked.
- 1.5 On the center pedestal cockpit door panel, release the toggle switch. It returns to the NORM position automatically.
 - The door latches are blocked
- 1.6 Move the door in the close direction. It is automatically locked.
 - The OPEN indication on the center pedestal goes off
- 1.7 Turn the D-ring of the door latch mechanism and move the door in the open direction.
 - The OPEN indication comes on center pedestal
- 1.8 Close the cockpit door.
 - The OPEN indication on the center pedestal goes off
 - The door latch mechanism locks the door automatically

2. Cockpit Door Routine Access Test

- 2.1 Push the "#" pushbutton or "defined number N" + "#" on the keypad.
 - The buzzer comes on
- 2.2 On the center pedestal door panel, put and hold the toggle switch in the UNLOCK position.
 - The green LED on the keypad comes on
 - The cockpit door is unlocked
- 2.3 Push or pull the cockpit door in the open direction.
 - The OPEN indication in the center pedestal light comes on
- 2.4 On the center pedestal door panel, release the toggle switch. It returns to the NORM position automatically.
 - The door latches are blocked
 - The green LED on center pedestal VU comes on
- 2.5 Push or pull the cockpit door in the close direction.
 - The door is automatically locked. It will not open
 - The OPEN indicator on the center pedestal goes off.
- 2.6 Push the "#" pushbutton or "defined number N" + "#" on the keypad. The buzzer comes on.
- 2.7 On the center pedestal panel, put and hold the toggle switch in the LOCK position.
 - The red LED on the keypad comes on.
 - The door stays in locked condition (during a period of 5 to 15 min the functions of the keypad and the buzzed will be off, unless the toggle switch comes back to unlock position).
- 2.8 Release the toggle switch. It returns to the NORM position automatically.

3. Cockpit Door Emergency Access Test

- 3.1 Enter the "emergency entry code **0763**" + "#" on the keypad.
 - The buzzer comes on
 - The OPEN indicator light in center pedestal flashes
 - The green LED on the keypad flashes
- 3.2 Wait for the defined period of time (adjustable between 15 sec. and 2 min.) to simulate no "flight crew reaction".
 - The cockpit door is unlocked for 5 sec
 - The OPEN and FAULT indications in center pedestal flashes
 - The green LED comes on for 5 sec.
- 3.3 Open the cockpit door and close it again. It moves to the open direction and back in its locked position.

- 3.4 Enter the "emergency entry code" + "#" on the keypad.
 - The buzzer comes on
 - The OPEN indicator light in center pedestal flashes
 - The green LED on keypad flashes
- 3.5 In the center pedestal door panel, set and hold the toggle switch to the UNLOCK position, within a defined period of time (between 15 sec. and 2 min.)
 - The door is unlocked
 - The green LED on the keypad comes on
 - The buzzer goes off
- 3.6 Open the cockpit door and close it again. It moves to the open direction and back in its locked position.
- 3.7 Enter the "emergency entry code"+"#" on the keypad.
 - The buzzer comes on.
 - The open indicator in center pedestal flashes
 - The green LED on the keypad flashes
- 3.8 In the center pedestal door panel, set and hold the toggle switch to the LOCK position, within a defined period of time (between15 sec. And 2 min).
 - The door remains locked
 - The buzzer goes off
 - The green LED on the key pad goes off
 - The red LED comes on

(during this period of time the functions of the key pad and the buzzer are isolated. You can reactivate these when you set the toggle in the UNLOCK position).

7 TEST RESULTS

The test equipment used has to be logged on the next table.

Equipment	Manufacturer	Model	Tool identification	Calibration date	Next calibration date

Table 2. List of test equipment used

IMPORTANT NOTE: Any comments or remarks arisen during test execution shall be written down here and send to Engineering Department. Non-conformities shall be processed according to CASA-1023.

NOTE: In Case of NCS, write down its number on Table 3.

N.C.S. Number	Date

Table 3

NOTE: After this functional test execution, stamp the correspondent operation on the Production Order.

NOTE: Every result sheet must be stamped and attached to Production Order.

STAMP:	
DATE:	

8 ANNEX

8.1 FIGURES

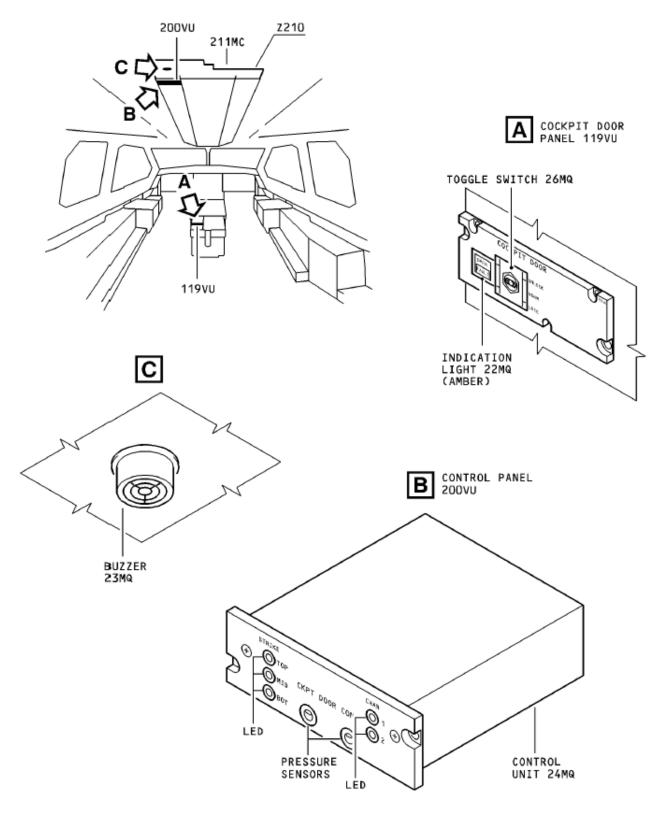


Figure 5. Location of the control panels in the cockpit

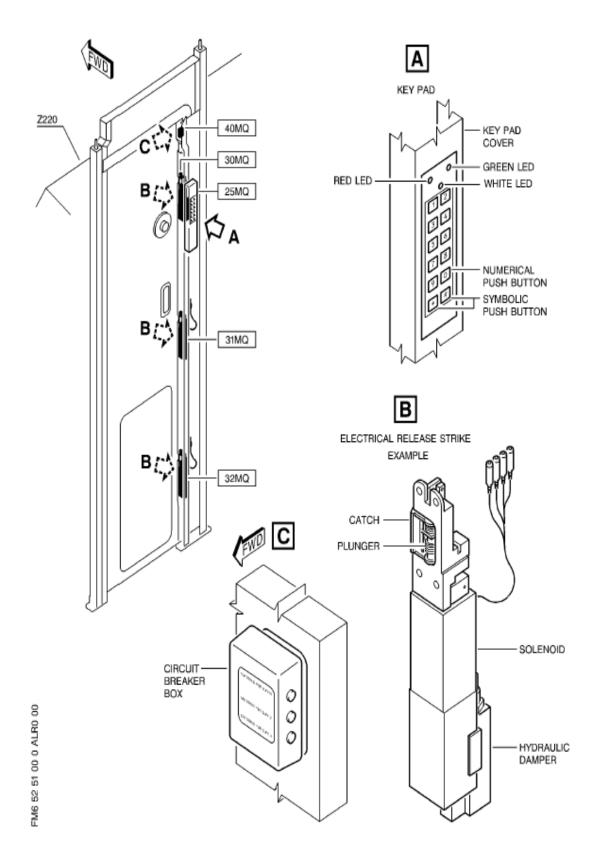


Figure 6. Location of main components of the Cockpit Door

8.2 FLIGHT DECK DOOR PROGRAMMING

- 1. Ensure both red and green led's on the keypad are off (if not cycle dr lock c/b).
- 2. Enter code 98765*# (to enter to pgm code). Both RED and GREEN keypad LED's should flash.
- 3. Operate Flight Deck switch to unlock momentarily within 10 secs. GREEN keypad should illuminate steadily.
- 4. Enter code 0129*# within 10 sec. RED keypad LED should illuminate steady (both LED's now on steady).
- 5. Enter 08*2543# unlock code (RED LED flashes then steady).
- 6. Enter 07*1# (1# is doorbell code).
- 7. Enter 10*# (to exit pgm mode). Both keypad LED's will now extinguish. This step completes the programming.

8.3 TEST DATA SHEET

Fill the following tables with test results:

1. Operational Test of the Cockpit-Door Lock System (CDLS):

STEP	STE	P RESULT		COMMENT (IF FAIL)					
SIEF	(TICK BOX)			COMMUNICIAL (II FAIL)					
	"OPEN" and "FAULT" lamps come on after setting the ANN LT switch t								
	"TEST" position								
	PASS	FAIL							
	"TOP"	', "MID" a	nd	"BOT STRIKE" LED's come on after setting the ANN LT					
		to "TEST"							
	PASS	FAIL							
	"CHA	N 1" and '	'CH	IAN 2" LED's come on after setting the ANN LT switch to					
1.1	"TEST	" position		_					
	PASS	FAIL							
	"TOP", "MID" and "BOT STRIKE" LED's go off after setting the ANN LT switch								
	to "BRT" position								
	PASS	FAIL							
	"CHAN 1" and "CHAN 2" LED's go off after setting the ANN LT switch to								
	"BRT" position								
	PASS	FAIL							
	Catch	es get free	wł	nen setting the toggle switch to "UNLOCK" position (on 119					
	VU panel)								
	PASS	FAIL							
1.2	"OPEN	"OPEN" indication on center pedestal comes on when opening door							
	PASS	FAIL							
	Toggle	e switch re	tur	ns to "NORM" position automatically when releasing it					
	PASS	FAIL							

	Catches get blocked when releasing toggle switch								
	PASS		FAIL						
	"OPEN	"OPEN" indication on center pedestal goes off when closing the door							
	PASS		FAIL						
	Door i	s a	utomat	ical	ly locked after closing it				
	PASS		FAIL						
	"OPEN	1"	indicati	ion	on center pedestal comes on when turning D-ring and				
	openii	ng t	the doo	r fr	om the cockpit				
	PASS		FAIL						
	The two parts of the magnetic latch engage correctly and the door is secured								
1.3	PASS		FAIL						
1.5	The magnetic latch can me released with the expected man load								
	PASS		FAIL						
	"OPEN" indication on center pedestal comes off when closing the door from								
	the co	ckp	oit						
	PASS		FAIL						
OVE	RALL TEST				COMMENTS				
RESUL [*]	TS (TICK BOX)				COMMENTS				
PASS									
FAIL									

2. Checking the routine access:

	СТГ	D D	ГСІПТ					
STEP	STEP RESULT			COMMENT (IF FAIL)				
	(TICK BOX)			<u> </u>				
AUTHOR								
2.1	The buzzer comes on when pushing the "#" on the keypad							
2.1	PASS		FAIL					
	Green	LE	D on	the	key pad comes on when setting the toggle switch to			
	"UNLOCK" (on center pedestal)							
	PASS		FAIL					
	Cockp	it c	loor is t	ınlo	ocked			
	PASS		FAIL					
	"OPEN	√" i	ndicatio	on o	on center pedestal comes on when opening door			
	PASS		FAIL					
	Toggle switch returns to "NORM" position automatically when releasing it							
2.2	PASS		FAIL					
	Catches get blocked when releasing toggle switch							
	PASS		FAIL					
	"OPEN" indication on center pedestal goes off when closing the door							
	PASS		FAIL					
	Door is automatically locked after closing it							
	PASS		FAIL					
	Door does not open after trying to open it							
	PASS		FAIL		, 5			
REJECTE	D ENTR	Y						
			er come	es c	on when pushing the "#" on the keypad			
2.3	PASS		FAIL		71			
	Red LI	ED	on the	ke	y pad comes on when setting the toggle switch to "LOCK"			
2.4			r pedes	•	, ,			
	PASS		FAIL					

	Cockpit door stays locked (during a period of 5 to 15 min, unless the toggle switch comes back to "UNLOCK" position)					
	PASS		FAIL			
	Toggle	e sv	vitch re	tur	ns to "NORM" position automatically when releasing it	
	PASS		FAIL			
OVERALL TEST RESULTS (TICK BOX)					COMMENTS	
PASS			·			
FAIL						

3. Checking the Emergency Access

The buzzer comes on when pushing the "0763" + "#" on the keypad PASS FAIL	STEP	STEP RESULT (TICK BOX) COMMENT (IF FAIL)								
PASS	NO REAC	CTION								
"OPEN" indicator light in center pedestal flashes		The buzzer comes on when pushing the "0763" + "#" on the keypad								
PASS FAIL		PASS FAIL								
PASS FAIL	2.4	"OPEN" indicator light in center pedestal flashes								
PASS FAIL	5.1	PASS FAIL								
PASS FAIL		Green LED on the keypad flashes								
time (15 sec to 2 min) PASS FAIL "OPEN" and "FAULT" indications in center pedestal comes on for 5 sec PASS FAIL The door can be opened PASS FAIL AUTHORIZED ENTRY The buzzer comes on when pushing the "0763" + "#" on the keypad PASS FAIL "OPEN" indicator light in center pedestal flashes PASS FAIL Green LED on the keypad flashes PASS FAIL The door is unlocked after setting and holding the toggle switch on the center pedestal to UNLOCK PASS FAIL Green LED on the keypad comes on 3.4 PASS FAIL The buzzer goes off PASS FAIL The buzzer goes off PASS FAIL The buzzer goes off PASS FAIL The buzzer goes oned PASS FAIL The DOOR THE PASS FAIL THE PASS THE PASS			-							
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3.5 "OPEN" indicator light in center pedestal flashes PASS FAIL	3.5									
PASS FAIL PASS										
- ··· ··· / [-···· ··· -]		Green LED on the keypad flashes	-							

	PASS		FAIL			П			
	The door remains locked when setting and holding the toggle switch								
3.6	"LOCK" position on center pedestal								
	PASS		FAIL						
	Red LED on the keypad comes on								
	PASS		FAIL						
	The buzzer goes off								
	PASS		FAIL						
3.7	Green LED on the keypad goes off								
5.7	PASS		FAIL						
OVERALL TEST			Т		COMMENTS				
RESULTS (TICK BOX)			OX)						
PASS									
FAIL			•						

Table 4. Test result table