



CHINA AIRLINES

TASK CARD

Print: 15-Sep-2020
Line No.: 4

Task Card No: 7E31-35-0024_INSTLR0 Revision: R1 08-Jun-2020		Task Title: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft		
Aircraft: BOEING 747-400 - B-18707				
WORK ORDER NO.: WO - 62448195		Check Event: DY		
AD REFERENCES		ENG/APU		INVENTORY
CAA : FAA : EASA: Other:		ASSY Code: ASSY POS : ASSY P/N : ASSY S/N :		
EO REFERENCES		REMARKS		
SB: 2234550-39-B747 Ver C EO: 744-31-35-0024 Ver 0 Other:		<input type="checkbox"/> MAJOR	<input type="checkbox"/> RII	<input type="checkbox"/> CDCCL
		<input type="checkbox"/> ETOPS	<input type="checkbox"/> MSE	<input type="checkbox"/> PBN(RNP)
		<input type="checkbox"/> CAT II/III	<input type="checkbox"/> Sampling	<input type="checkbox"/> FCS
AMP Reference:		<input type="checkbox"/> Inform Flight Crew		
		<input type="checkbox"/> FIRST ON SITE Support		
		Labor: ERI		
Instructions: 1. Installation the 4G WQAR P/N:2243800-464. 2. WQAR Health Check and Configuration Test.		Note: AMP/EO Task Card Includes 4 parts: Cover Page, Tools/Materials List, Record Sheet & Task Instructions.		
T-2274652-1				
ROTABLE PARTS ON/OFF RECORD				
P/N OFF	S/N OFF	POS CODE	P/N ON	S/N ON
		E/C	2243800-464	RA 04858
Action Taken: PER TASK CARD 7E31-35-0024 WQAR RPLD. AND SFS FUNCTION CHK NML. WORK ACCOMPLISHED.				
640812_202302071500				
CERTIFIED BY		DATE(MM/DD/YY)		STATION
638797 王文傑		09/15/20		TPE





CHINA AIRLINES

Tools/Materials List

Line No.: 4

Task Card No:

7E31-35-0024_INSTLR0

Revision: R1

Task Title:

Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft

Aircraft:

BOEING 747-400 - B-18707

Check Event:

DY

PARTS REQUIRE:

PART NO.	DESCRIPTION	REQUEST ID	QTY
Group Part 2243800-464	31-35-02-01A-50A (RECORDER - QUICK ACCESS(POST SB))	RSYC6003BYRW	1


TOOLS REQUIRE:

PART NO.	DESCRIPTION
----------	-------------

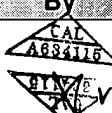
NIL



640812_202302071500

 CHINA AIRLINES	TASK CARD NO: 7E31-35-0024_INSTLR0	STATION: TPE	PAGE: 1 OF 1
	Revision R1	CHECK EVENT: DY	
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft		


RECORD SHEET**Record the Execution Information****NOTE: PLEASE FILL OUT THE RESULT IN NORMAL OR ABNORMAL COLUMN.**

Item	Step	Record	Normal "V"	Abnormal "TLB/GLB No."	Recorded By	RII
1	2.B	RECORD THE RESULT: ON P/N: <u>2243800-464</u> ON S/N: <u>RA-04858</u>	V	NIL	 091520 634115 041520	NIL

640812_202302071500



640812_202302071500


	TASK CARD NO: 7E31-35-0024_INSTLR0	STATION: TPE	PAGE: 1 OF 10								
	Revision R1	CHECK EVENT: DY									
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft										
TASK INSTRUCTION			SIGNOFF								
1. GENERAL											
A. General (1) Affected Aircraft : B744-409 fleets. (2) Classification: MINOR MODIFICATION. (3) Background: CAL A330 fleet currently installed P/N:2243800-364 WQAR and due to 3G network will shut down by NCC policy at the end of 2021. In order to avoid the fleets flight data transmission interrupt by 3G network shutdown, upgrade the WQAR to 4G LTE configuration, ME issue this job card to do the WQAR retrofit. (4) Weight & Balance: Not change. (5) Electrical Load Data: Not change. (6) Description: WQAR P/N:2243800-464 install and parameter setting with function test. (7) Tool: SPL-1690 , P/N: A27092-84 (Actuator for air/grnd simulation) B. Inform Flight Crew: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO C. Materials Information: <u>WQAR PN:2243800-464, store in AS/AR.</u>											
2. ACCOMPLISHMENT INSTRUCTION:											
A. WQAR installation and test procedure: (For the Step result tick the PASS or FAIL with "V")											
STEP	Procedure	Pass (V)	Fail (V)								
1	Verify that electrical power is removed from the aircraft and it is tagged to prevent inadvertent application of power.	✓									
2	Before proceeding with the following work instructions, the aircraft must already be in its normal configuration.	✓									
3	Open this circuit breaker and install safety tag: Power Distribution Center - Right Panel,P415 <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>38</td> <td>C01926</td> <td>ACMS-AC</td> </tr> </tbody> </table>	Row	Col	Number	Name	L	38	C01926	ACMS-AC	✓	
Row	Col	Number	Name								
L	38	C01926	ACMS-AC								
4	Work on E1 Rack (Figure 1 and Figure 2)	N/A	N/A								
5	Remove the existing QAR (B488) and return to store if one is installed in E1-5 shelf. Otherwise, put N/A for this step.	N/A	N/A								
6	Remove the ARINC 600 dust cover from the WQAR to be installed. Install and secure the WQAR in the E1-5 Shelf B488 tray location.	✓									
7	Remove the safety tag and close this circuit breaker Power Distribution Center - Right Panel,P415 <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>38</td> <td>C01926</td> <td>ACMS-AC</td> </tr> </tbody> </table>	Row	Col	Number	Name	L	38	C01926	ACMS-AC	✓	
Row	Col	Number	Name								
L	38	C01926	ACMS-AC								
8	Apply power to the aircraft.	✓									
9	WQAR Health Check and Configuration	N/A	N/A								
10	Verify that the WQAR front panel FAIL LED is extinguished (turned OFF) after unit boot is complete.	✓									
11	Press the MODE key and then press the + key repeatedly until UNIT INFO is displayed.	✓									
PARTIAL SIGN OFF STATUS:											
Step: _____		Completed through: _____	Sign: _____								
Step: _____		Completed through: _____	Sign: _____								

QP08MN082F5R1



TS3RJ009EU19

640812_202302071500

	TASK CARD NO: 7E31-35-0024_INSTLR0	STATION: TPE	PAGE: 2 OF 10															
	Revision R1	CHECK EVENT: DY																
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft																	
TASK INSTRUCTION			SIGNOFF															
STEP	Procedure	Pass (V)	Fail (V)															
12	Press the SEL key and then press the + key repeatedly until S/W VERSION is displayed.	✓																
13	Press the SEL key.	✓																
14	Press the + or – key to scroll through the WQAR software components and ensure that they are correctly installed. If the software components are not correctly installed, update these software components in the WQAR by performing Teledyne Service Bulletin SB2243800-31-27.	✓																
15	Press the MODE key and then press the + key repeatedly until ADVISORIES is displayed.	✓																
16	Press SEL key and verify that the display indicates NO ADVISORIES.	✓																
17	Press the MODE key and verify that ADVISORIES is displayed.	✓																
18	Press the + key repeatedly until STATUS is displayed.	✓																
19	Press SEL key to display ACQUISITION.	✓																
20	Press SEL key to display RAW.	✓																
21	Press the + key repeatedly until SOURCE is displayed.	✓																
22	Press SEL key and verify that BIPOLAR is displayed.	✓																
23	Press MODE key repeatedly until STATUS is displayed.	✓																
24	Press + key repeatedly until SYSTEM STATE is displayed.	✓																
25	Press SEL to review the system state.	✓																
26	Set Override Run Control to Run Control Off Mode .	N/A	N/A															
27	Pressed MODE Button, After pressing MODE, display will show SYSTEM STATE.	✓																
28	Pressed + or – Buttons, Press + or – button repeatedly until display shows: UNIT INFO.	✓																
29	Pressed SEL Button, After pressing SEL, display will show DATE/TIME.	✓																
30	Pressed + Button, Press + button repeatedly until display show: SET RUN CONTROL OVERRIDE.	✓																
31	Pressed SEL Button, After pressing SEL, display will show the first of four Run Control modes: Use All Config NOTE: The four modes list as below. On the display, an asterisk(*) will appear next to the active mode.	✓																
<table border="1"> <thead> <tr> <th>Mode</th> <th>All Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Use All Config</td> <td>N/A</td> <td>WQAR will operate in accordance with the OPC. (Default)</td> </tr> <tr> <td>Run Control Off</td> <td>0</td> <td>WQAR will operate as if the Run Control feature is not used.</td> </tr> <tr> <td>Run Control On</td> <td>1</td> <td>WQAR will operate as if the Run Control feature is used.</td> </tr> <tr> <td>Record In Air</td> <td>2</td> <td>WQAR will operate Run Control in response to RF Interlock status.</td> </tr> </tbody> </table>		Mode	All Value	Description	Use All Config	N/A	WQAR will operate in accordance with the OPC. (Default)	Run Control Off	0	WQAR will operate as if the Run Control feature is not used.	Run Control On	1	WQAR will operate as if the Run Control feature is used.	Record In Air	2	WQAR will operate Run Control in response to RF Interlock status.		
Mode	All Value	Description																
Use All Config	N/A	WQAR will operate in accordance with the OPC. (Default)																
Run Control Off	0	WQAR will operate as if the Run Control feature is not used.																
Run Control On	1	WQAR will operate as if the Run Control feature is used.																
Record In Air	2	WQAR will operate Run Control in response to RF Interlock status.																
31	NOTE: Value 0 =Flight data is recorded at all times. Value 1 =Flight data is recorded when commanded by the acquisition																	


 091520

PARTIAL SIGN OFF STATUS:


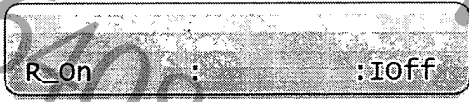
 Step: _____ Completed through: _____ Sign: _____
 Step: _____ Completed through: _____ Sign: _____

QP08MN082F5R1



TS3RJ009EU19

640812_202302071500


		TASK CARD NO: 7E31-35-0024_INSTR0	STATION: TPE	PAGE: 3 OF 10
		Revision R1	CHECK EVENT: DY	
AIRCRAFT: BOEING 747-400 - B-18707		TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft		
TASK INSTRUCTION				SIGNOFF
STEP	Procedure	Pass (V)	Fail (V)	
	unit. Value 2 =Flight data is recorded only when the RF interlocks are engaged.	✓		
32	Pressed + or - Buttons, Press the + and - buttons to advance through all four modes until the Run Control Off mode is displayed.	✓		
33	Pressed SEL Button, Press SEL button to select the Run Control Off mode. Display will show: + To Confirm MODE to Cancel The MODE button cancels this operation.	✓		
34	Pressed + Button, After pressing +, display will momentarily show: SYSTEM WILL NOW REBOOT The WQAR will reboot and will operate as configured.	✓		
35	The post-boot up status will show below: when Run Control is set to OFF (Run control feature not in use). 	✓		
36	Adjust the Time, Date and Tail Number on WQAR	N/A	N/A	
37	Adjust the Time and Date on WQAR (Using UTC date & time) Proceed to the next Steps to enter the Registration Number.	✓		
38	Push the MODE key to display the SYSTEM STATE.	✓		
39	The SYSTEM STATE menu comes into view.	✓		
40	Push the + or - key until the DATE:TIME menu comes into view.	✓		
41	DATE:TIME menu comes into view.	✓		
42	Push the SEL key to enter the DATE:TIME menu.	✓		
43	The message "DISPLAY" comes into view.	✓		
44	Push the + or - key until the message "SET" comes into view.	✓		
45	The message "SET" comes into view.	✓		
46	Push the SEL key to display the current values of date and time as follows: L1> YYYY:MM:DD L2> HH:MM:SS. NOTE: The WGL-DAR clock is a 24-hour clock.	✓		
47	The year field on the display flashes. NOTE: After the selection of each field to change, it flashes.	✓		
48	Push the + or - key to select the correct calendar year (YYYY).	✓		
49	The selected digits show in the year field (YYYY).	✓		
50	Push the SEL key on the front panel of the WGLDAR.	✓		
51	The calendar month field (MM) on the display flashes.	✓		
52	Push the + or - key to select the correct calendar month (MM).	✓		
PARTIAL SIGN OFF STATUS:				
Step: _____		Completed through: _____		Sign: _____
Step: _____		Completed through: _____		Sign: _____

QP08MN082F5R1



TS3RJ009EU19

640812_202302071500





		TASK CARD NO: 7E31-35-0024_INSTLR0		STATION: TPE	PAGE: 4 OF 10
		Revision R1		CHECK EVENT: DY	
AIRCRAFT: BOEING 747-400 - B-18707		TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft			
TASK INSTRUCTION					SIGNOFF
STEP	Procedure	Pass (V)	Fail (V)		
53	The selected digits show in the month (MM) field.	✓			
54	Push the SEL key on the front panel of the WGLDAR.	✓			
55	The calendar day (DD) field on the display flashes.	✓			
56	Push the + or - key to select the correct calendar day (DD).	✓			
57	The selected digits show in the day (DD) field.	✓			
58	Push the SEL key on the front panel of the WGLDAR.	✓			
59	The calendar hour (HH) field on the display flashes.	✓			
60	Push the + or - key to select the correct hour (HH).	✓			
61	The selected digits show in the hour (HH) field.	✓			
62	Push the SEL key on the front panel of the WGLDAR.	✓			
63	The minutes (MM) field on the display flashes.	✓			
64	Push the + or - key to select the minutes (MM).	✓			
65	The selected digits show in the minutes (MM) field.	✓			
66	Push the SEL key on the front panel of the WGLDAR.	✓			
67	The seconds (SS) field on the display flashes.	✓			
68	Push the + or - key to select the correct seconds (SS).	✓			
69	The selected digits show in the seconds (SS) field.	✓			
70	Push the SEL key on the front panel of the WGLDAR.	✓			
71	The WGL-DAR reboots.	✓			
72	Push the MODE key to display the SYSTEM STATE.	✓			
73	The SYSTEM STATE menu comes into view.	✓			
74	Push the + or - key to until the DATE:TIME menu comes into view.	✓			
75	The DATE:TIME menu comes into view.	✓			
76	Push the SEL key until "DISPLAY" message comes into view.	✓			
77	The "DISPLAY" message comes into view.	✓			
78	Push the SEL key to display the current values of date and time.	✓			
79	The current date and time comes into view as follows: L1> YYYY:MM:DD L2> HH:MM:SS.	✓			
80	Push the MODE key until the DATE:TIME menu comes into view.	✓			
81	The DATE:TIME menu comes into view.	✓			
82	Push the + or - key until the SYSTEM STATE menu comes into view.	✓			
83	The SYSTEM STATE menu comes into view.	✓			
84	Entry of Aircraft Registration Number: <u>The tail number format must be B18xxx, no "-" between B and numbers.</u> Proceed to the next Steps to enter the Registration Number.	✓			
85	Press the MODE key to make sure you are in the main menu.	✓			
86	Press the + key repeatedly until UNIT INFO is displayed.	✓			
87	Press the SEL key and then press the + key repeatedly until UPDATE TAIL	✓			
PARTIAL SIGN OFF STATUS: Step: _____ Completed through: _____ Sign: _____ Step: _____ Completed through: _____ Sign: _____					



091520



640812_202302071500


		TASK CARD NO: 7E31-35-0024_INSTLR0 Revision R1	STATION: TPE CHECK EVENT: DY	PAGE: 5 OF 10
AIRCRAFT: BOEING 747-400 - B-18707		TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft		
TASK INSTRUCTION				SIGNOFF
STEP	Procedure	Pass (V)	Fail (V)	
	NUMBER is displayed.	✓		 0P1520
88	Press the SEL key. The display will be blank or show the current tail number. If the displayed value matches this aircraft registration number, the configuration is correct. Check mark the Pass/Fail entry for Steps 88 thru 103 as N/A and skip to Step 104.	N/A		 0P1520 NOT AFFECT
	If the displayed value does not match this aircraft registration number, registration number has to be entered. Continue to next step below.			
89	Press the SEL key. The cursor on the first character of the aircraft tail number will flash.			
90	Press the + or – keys repeatedly until the first character of the aircraft tail number is set and then press the SEL key. The cursor will display again.			
91	Press the + key to move to the next character and then press the SEL key.			
92	Press the + or – keys repeatedly until this character of the aircraft tail number is set and then press the SEL key. The cursor will display again.			
93	Repeat Steps 91 and 92 until all characters of the aircraft registration number have been entered and then proceed to Step 94			
94	If there are any characters displayed after the last entered character of the aircraft registration number, press the + key to move to the next character and then press the SEL key. Press the + and/or – keys repeatedly until the character is <Blank> and then press the SEL key. All characters after this character will be removed. If there are no characters displayed after the last entered character, put N/A for this step and proceed to the next step in this procedure.			
95	Press the MODE key repeatedly until the front panel displays: L1> + Confirm Update L2> - Discard Update			
96	Press the + key to confirm the tail number change.			
97	The WQAR will now reboot automatically.			
98	Wait (about 1 minute) for the reboot to complete and the System State display is shown.			
99	Verify that the front Panel FAIL LED is extinguished.			
100	Press the MODE key to go to the main menu.			
101	Press the + key repeatedly until UNIT INFO is displayed.			
102	Press the SEL key and then press the + key repeatedly until UPDATE TAIL NUMBER is displayed.			
103	Press the SEL key.			
104	Verify that the correct aircraft registration number is displayed and enter in the space provide below: Aircraft Registration Number: <u>B18707</u>	✓		 0P1520
105	Press the MODE key repeatedly until UNIT INFO is displayed and then press the – key until SYSTEM STATE is displayed.	✓		
PARTIAL SIGN OFF STATUS:				
Step: _____		Completed through: _____		Sign: _____
Step: _____		Completed through: _____		Sign: _____

QP08MN082F5R1



TS3RJ009EU19

640812_202302071500


	TASK CARD NO: 7E31-35-0024_INSTLR0	STATION: TPE	PAGE: 6 OF 10																
	Revision R1	CHECK EVENT: DY																	
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft																		
TASK INSTRUCTION			SIGNOFF																
STEP	Procedure	Pass (V)	Fail (V)																
106	Press the SEL key to display the system state.	✓																	
107	RF Interlock Test	N/A	N/A																
108	With the Engine 4 Fuel Control Switch in the CUTOFF position and the aircraft on the ground (Air/Ground indicating Ground), verify that the WQAR display's 2nd line right side displays: IOff NOTE: It may take up to 6 minutes before ION changes to IOff .	✓																	
109	Open these circuit breakers: Main Power Distribution Panel , P6 <table border="1"> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> <tr> <td>F</td> <td>4</td> <td>C00401</td> <td>ENG 4 IGNITION 1</td> </tr> <tr> <td>G</td> <td>22</td> <td>C10582</td> <td>STBY IGN ENG4</td> </tr> <tr> <td>K</td> <td>22</td> <td>C00400</td> <td>ENG 4 IGNITION 2</td> </tr> </table> Put the Engine 4 Fuel Control Switch in the RUN position.	Row	Col	Number	Name	F	4	C00401	ENG 4 IGNITION 1	G	22	C10582	STBY IGN ENG4	K	22	C00400	ENG 4 IGNITION 2	✓	
Row	Col	Number	Name																
F	4	C00401	ENG 4 IGNITION 1																
G	22	C10582	STBY IGN ENG4																
K	22	C00400	ENG 4 IGNITION 2																
110	Verify that the right side of the second line of WQAR front panel display has changed to: ION	✓																	
111	Put the Engine 4 Fuel Control Switch in the CUTOFF position. Close these circuit breakers: Main Power Distribution Panel , P6 <table border="1"> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> <tr> <td>F</td> <td>4</td> <td>C00401</td> <td>ENG 4 IGNITION 1</td> </tr> <tr> <td>G</td> <td>22</td> <td>C10582</td> <td>STBY IGN ENG4</td> </tr> <tr> <td>K</td> <td>22</td> <td>C00400</td> <td>ENG 4 IGNITION 2</td> </tr> </table>	Row	Col	Number	Name	F	4	C00401	ENG 4 IGNITION 1	G	22	C10582	STBY IGN ENG4	K	22	C00400	ENG 4 IGNITION 2	✓	
Row	Col	Number	Name																
F	4	C00401	ENG 4 IGNITION 1																
G	22	C10582	STBY IGN ENG4																
K	22	C00400	ENG 4 IGNITION 2																
112	Verify that the right side of the second line of WQAR front panel display has changed to: IOff NOTE: It may take up to 6 minutes before ION changes to IOff .	✓																	
113	Simulate the aircraft "AIR/GROUND" to indicate "AIR" state. (Using Tool SPL-1690 , P/N: A27092-84) NOTE: Precaution should be taken before the aircraft is put in the "AIR" state. Use the Aircraft Maintenance Manual (AMM) to: First prepare the aircraft for going to the "AIR" state by performing AMM procedure place the Airplane in the Air Mode, TASK 32-09-02-842-002	✓																	
114	Verify that the right side of the second line of WQAR front panel display has changed to: ION	✓																	
115	Restore the aircraft "AIR/GROUND" state to indicate "Ground" state. NOTE: Use the Aircraft Maintenance Manual (AMM) to: Restore the aircraft to its normal on ground condition by performing AMM procedure to return the Airplane Systems Back to Their Normal On Ground Condition, TASK 32-09-02-862-006.	✓																	
116	Verify that the right side of the second line of WQAR front panel display has changed to: IOff NOTE: It may take up to 6 minutes before ION changes to IOff .	✓																	
PARTIAL SIGN OFF STATUS:																			
Step: _____ Completed through: _____		Sign: _____																	
Step: _____ Completed through: _____		Sign: _____																	

QP08MN082F5R1



TS3RJ009EU19

640812_202302071500


		TASK CARD NO: 7E31-35-0024_INSTLR0		STATION: TPE		PAGE: 7 OF 10													
		Revision R1		CHECK EVENT: DY															
AIRCRAFT: BOEING 747-400 - B-18707		TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft																	
TASK INSTRUCTION							SIGNOFF												
STEP	Procedure					Pass (V)	Fail (V)												
117	Radio Test:					N/A	N/A												
118	Verify that the Engine 4 Fuel Control Switch in the CUTOFF position and the aircraft is On the Ground by checking that the WQAR display 2nd row, right side, displays: IOff					✓													
	NOTE: It may take up to 6 minutes before IOff changes to IOff .																		
119	Press the MODE key to return to SYSTEM STATE menu.					✓													
120	Press the + key repeatedly until DIAGNOSTICS is displayed.					✓													
121	Press SEL and then press the + key repeatedly until DOWNLOAD TEST is displayed.					✓													
122	Press SEL and TEST FILE is displayed.					✓													
123	Press SEL and then press + key repeatedly (if necessary) until 128MB is displayed.					✓													
124	Press SEL to initiate the download test.					✓													
125	Press MODE key repeatedly until DIAGNOSTICS is displayed.					✓													
126	Press the + key repeatedly until STATUS is displayed.					✓													
127	Press SEL and then press the + key repeatedly until WIRELESS is displayed.					✓													
128	Press SEL and then press the + key repeatedly until RADIO STATUS is displayed.					✓													
129	Press SEL and the display will show the following: For WQAR with four Radios (-364/-464 Configuration) <table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>1:S</td> <td>2:S</td> <td>3:S</td> <td>4:S</td> </tr> <tr> <td>SL</td> <td>SL</td> <td>SL</td> <td>SL</td> </tr> </table> SL=Signal Level (Range:0-31) S=Radio Connection Phase					1:S	2:S	3:S	4:S	SL	SL	SL	SL	✓					
1:S	2:S	3:S	4:S																
SL	SL	SL	SL																
	<table border="1" style="display: inline-table; vertical-align: top;"> <thead> <tr> <th>Radio Connection Phase (S)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Radio Unknown Stage (-464 only)</td> </tr> <tr> <td>0</td> <td>Radio is not connected to the cellular network</td> </tr> <tr> <td>1</td> <td>Radio is registered to a cellular network</td> </tr> <tr> <td>2</td> <td>Radio is connected to the internet</td> </tr> <tr> <td>3</td> <td>Radio is connected to the WQCM Server</td> </tr> </tbody> </table>					Radio Connection Phase (S)	Description	X	Radio Unknown Stage (-464 only)	0	Radio is not connected to the cellular network	1	Radio is registered to a cellular network	2	Radio is connected to the internet	3	Radio is connected to the WQCM Server		
Radio Connection Phase (S)	Description																		
X	Radio Unknown Stage (-464 only)																		
0	Radio is not connected to the cellular network																		
1	Radio is registered to a cellular network																		
2	Radio is connected to the internet																		
3	Radio is connected to the WQCM Server																		
130	Wait until the displayed signal level for each configured radio is a value between 01 and 31 (inclusive). Record the observed signal level below for each radio (record the higher observed signal level): <table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>1:</td> <td>2:</td> <td>3:N/A</td> <td>4:N/A</td> </tr> <tr> <td>6</td> <td>13</td> <td>N/A</td> <td>N/A</td> </tr> </table> Write down the value for SIM slot 1 and 2 If this test is not successful after a few minutes of waiting, repeat the test several times before Failing the test.					1:	2:	3:N/A	4:N/A	6	13	N/A	N/A	✓					
1:	2:	3:N/A	4:N/A																
6	13	N/A	N/A																
130	As long as each radio has had a value of 01 or higher in any of the tests, this test has passed.																		
PARTIAL SIGN OFF STATUS: Step: _____ Completed through: _____ Sign: _____ Step: _____ Completed through: _____ Sign: _____																			



0915 20




640812_202302071500

	TASK CARD NO: 7E31-35-0024_INSTLR0	STATION: TPE	PAGE: 8 OF 10				
	Revision R1	CHECK EVENT: DY					
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft						
TASK INSTRUCTION			SIGNOFF				
STEP	Procedure	Pass (V)	Fail (V)				
	To repeat this test: Press the MODE key until RADIO STATUS is displayed. Press the SEL key to repeat this test.	✓					
131	Press the MODE key until STATUS is displayed.	✓					
132	Recording Test:	N/A	N/A				
133	Press the WQAR MODE key repeatedly to return to the main menu.	✓					
134	Press the + key repeatedly until SYSTEM STATE is displayed.	✓					
135	Press the SEL key to see the system state.	✓					
136	On the CDU front panel, start WQAR raw data recording by changing QAR SELECT ON to indicate QAR ON under the ACMS menu.	✓					
137	Wait for the top line of WQAR front panel to display: RawIn:Syncln: [display may be scrolling] Observe that the message does not change for approximately 2 minutes.	✓					
138	Press the MODE repeatedly until SYSTEM STATE is displayed	✓					
139	Press the + key repeatedly until STATUS is displayed.	✓					
140	Press SEL key to display ACQUISITION.	✓					
141	Press SEL key to display RAW	✓					
142	Press the + key once to display RATE	✓					
143	Press SEL and record the DFDAC rate is displayed . The DFDAC rate : <u>256</u> wps	✓					
144	On the CDU front panel, stop WQAR raw data recording by changing QAR SELECT ON to indicate QAR OFF under the ACMS menu.	✓					
145	Aircraft Installation and Test Procedure is Complete.	✓					
B. Record the install WQAR P/N and S/N in record sheet. C.Close-UP (1) Remove electrical power (PAGEBLOCK 24-22-00/201). (2) If access is no longer required, close this access door: <table border="1"> <thead> <tr> <th>Number</th> <th>Name/Location</th> </tr> </thead> <tbody> <tr> <td>117A</td> <td>Electronic Equipment Access Door</td> </tr> </tbody> </table>				Number	Name/Location	117A	Electronic Equipment Access Door
Number	Name/Location						
117A	Electronic Equipment Access Door						
D.PCC (1) Please copy or scan all page (include cover page) and send or mail to ME_AV for recording. (wei-ting.liu@china-airlines.com)							
PARTIAL SIGN OFF STATUS: Step: _____ Completed through: _____ Sign: _____ Step: _____ Completed through: _____ Sign: _____							

QP08MN082F5R1



TS3RJ009EU19

<div>CHINA AIRLINES</div> <div></div>	TASK CARD NO: 7E31-35-0024_INSTLR0	STATION: TPE	PAGE: 9 OF 10
	Revision R1	CHECK EVENT: DY	
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft		

FIGURE

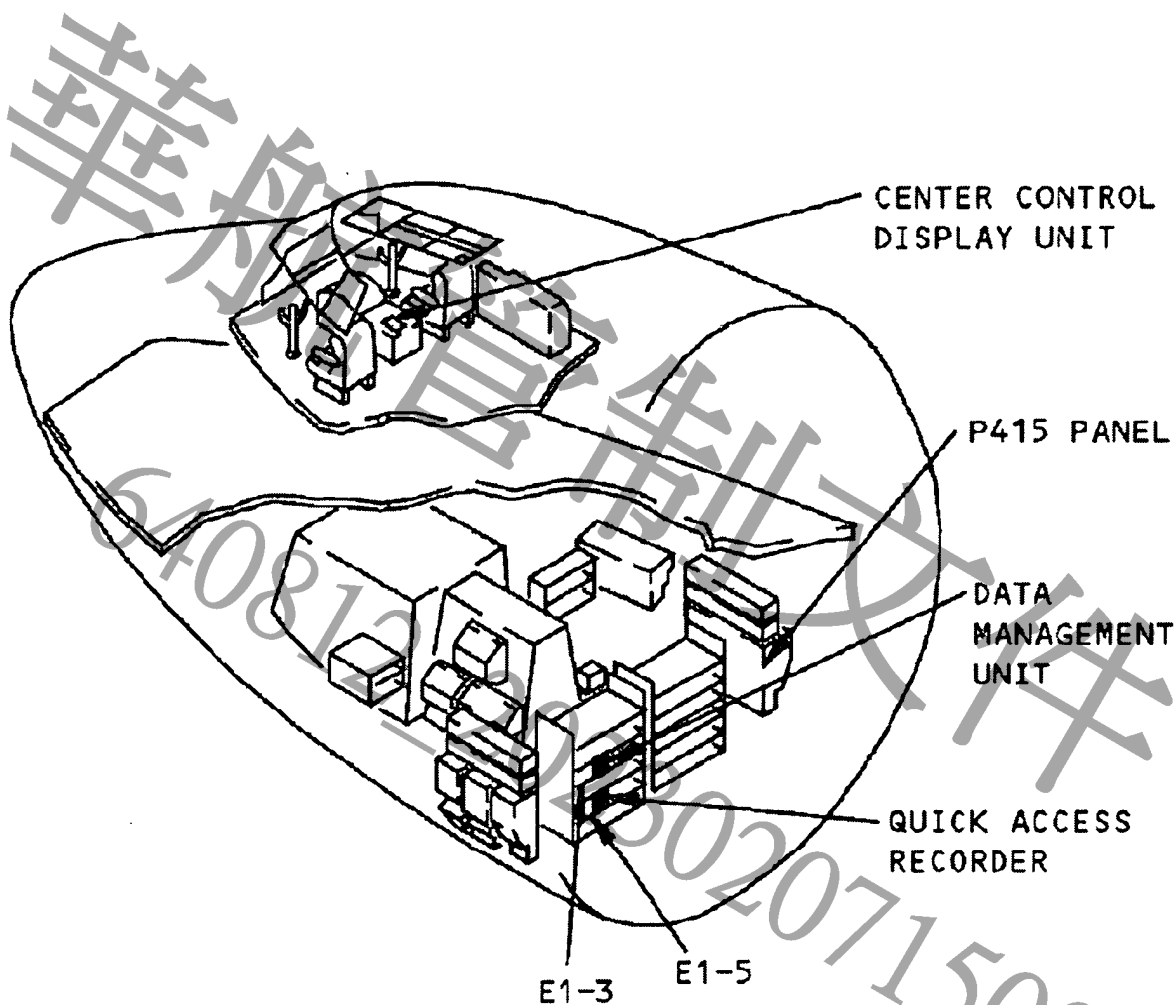

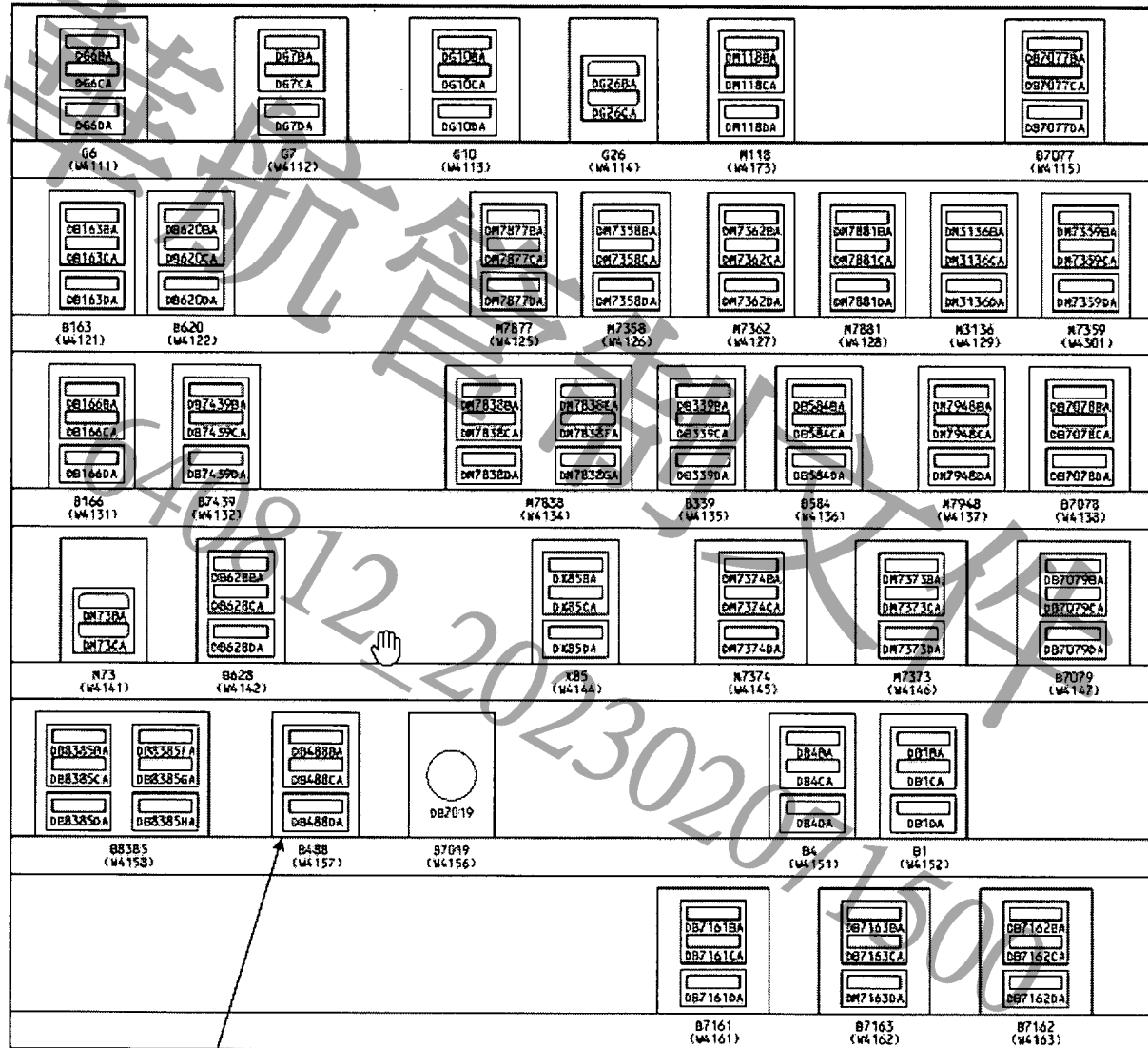


Figure .1 Panel Locations and WQAR Access



	TASK CARD NO: 7E31-35-0024_INSTLRO	STATION: TPE	PAGE: 10 OF 10
	Revision R1	CHECK EVENT: DY	
AIRCRAFT: BOEING 747-400 - B-18707	TASK TITLE: Do the WQAR upgrad from P/N:2243800-364 to P/N:2243800-464 in Boeing 744 Family Aircraft		



FIGURE



REAR VIEW

WQAR E1-5 Shelf

Figure 2 WQAR Location E1-5 Shelf, E/E Bay

 IS3RJ001QDQW		中華航空公司可用/識別掛籤 CHINA AIRLINES LTD. SERVICEABLE PARTS/TRACKING TAG	
廠商件號 MFR. PART NO. 2243800-464		名稱 NOMENCLATURE RECORDER - QUICK	
PART GROUP 31-31-24-05-005J		STOCK NO. 31_2243800-364	
主修工場/位置 REPAIR LOCATION VENDOR		SMCC: B	
品質文件編號 RELEASE NBR WO-00162194		購案/交修案號碼 PO/RO NBR U0520397	
廠商序號 MFR. SERIAL NO. RA04858		授權者簽章 AUTHORIZED SIGNATURE 	
日期 DATE 2020/08/06		存儲到期日期 STORAGE DUE DATE NIL	
庫存位置 STORAGE BIN LOCATION TPE/MS/SERVICEABLE STORE			
TOTAL HOUR 6576.81		TOTAL CYCLE 2212	
ETOPS NA	PMA NO	INVENTORY CLASS TRK	
REMOVED FROM BELOW AIRCRAFT OR SPARE UNIT IN SERVICEABLE CONDITION			
飛機/發動機/APU/組合件件號 A/C/ENGINE/APU/ASSY NO. B-18709	位置代號/序號 POSITION CODE/SERIAL NO. E/E	機械員簽章/日期 MECHANIC SIGNATURE/DATE 王文德 09.15.20	

QP10MS050F1R5

OFF: 2243800-364
 RA 07972
 2.81863X115
 091520

640812_202302071500

- ☐ 本掛籤所標示之飛機零件及 / 或組成件。業經按照最新民航法規予以修理及檢驗，並認定其適合裝用於航空器上。有關本件之詳細修理資料均保存於本公司工作單檔卷之內，單號如掛籤正面所載。

THE AIRCRAFT PART AND/OR COMPONENT IDENTIFIED HERE ON HAS BEEN REPAIRED OR OVERHAULED AND INSPECTED IN ACCORDANCE WITH REGULATIONS OF THE CIVIL AERONAUTICS ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON THE FILE AT THIS AGENCY UNDER WORK ORDER NUMBER MENTIONED ON THE FRONT PAGE OF THE TAG.

簽名 SIGNATURE _____ 日期 DATE _____

民航局核定修理廠檢定證書修廠字第 001 號。

CCAA APPROVED REPAIR STATION NO. CAA-RS-001.

- ☒ 本掛籤所標示之飛機零件及 / 或組成件，業經送至合格之

☐ CCAA 修理廠

☒ FAR-145 修理廠

☐ EASA PART-145 修理廠

修理及檢驗，並認定其適合裝用於航空器上。有關本件之詳細修理資料均保存於本公司接收單檔卷之內，單號如掛籤正面所載。

THE AIRCRAFT PART AND/OR COMPONENT IDENTIFIED HERE ON HAS BEEN REPAIRED OR OVERHAULED AND INSPECTED BY A CERTIFIED REPAIR STATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON THE FILE AT THIS AGENCY UNDER RECEIVING DOCUMENT NUMBER MENTIONED ON THE FRONT PAGE OF THE TAG.

- ☐ 本掛籤所標示之飛機零件及 / 或組成件，係購自製造廠或代理商。有關本件之購買資料均保存於本公司接收單檔卷之內，單號如掛籤正面所載。

THE AIRCRAFT PART AND/OR COMPONENT IDENTIFIED HERE ON IS PURCHASED FROM A MANUFACTURER OR A DEALER. DETAILS OF THE PURCHASE ARE ON THE FILE AT THIS AGENCY UNDER RECEIVING DOCUMENT NUMBER MENTIONED ON THE FRONT PAGE OF THE TAG.

中華航空公司修護工廠

台灣桃園國際機場

CHINA AIRLINES E&M DIV.

TAIWAN TAOYUAN INTERNATIONAL AIRPORT

640812_202302071500