Scandinavian Airlines System

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Scandinavian Airlines System

PAGE	DATE	CODE
26-18-00		CONT.
109	AUG 22/06	07
110	AUG 22/06	07
111	AUG 22/06	01
112	AUG 22/06	03
26-21-00		
101	MAY 01/86	01
102	NOV 10/97	02
103	AUG 22/99	02
104	BLANK	
26-22-00	CONFIG 1	
101	AUG 22/99	01
102	AUG 22/99	01
103	AUG 22/99	02
104	BLANK	
26-22-00	CONFIG 2	
101	AUG 22/99	02
102	AUG 22/99	03
103	AUG 22/99	02
104	BLANK	
26-23-00		
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102	NOV 10/95	02X
103	FEB 10/96	05X
104	NOV 10/95	24X
105	AUG 10/95	01X
106	NOV 10/95	03X
107	AUG 22/05	06X
108	FEB 10/96	11X
109	NOV 10/95	10X
110	NOV 10/95	12X
111	NOV 10/95	12X
112	AUG 10/98	03X

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CHAPTER 26 – FIRE PROTECTION

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CHAPTER 26 – FIRE PROTECTION

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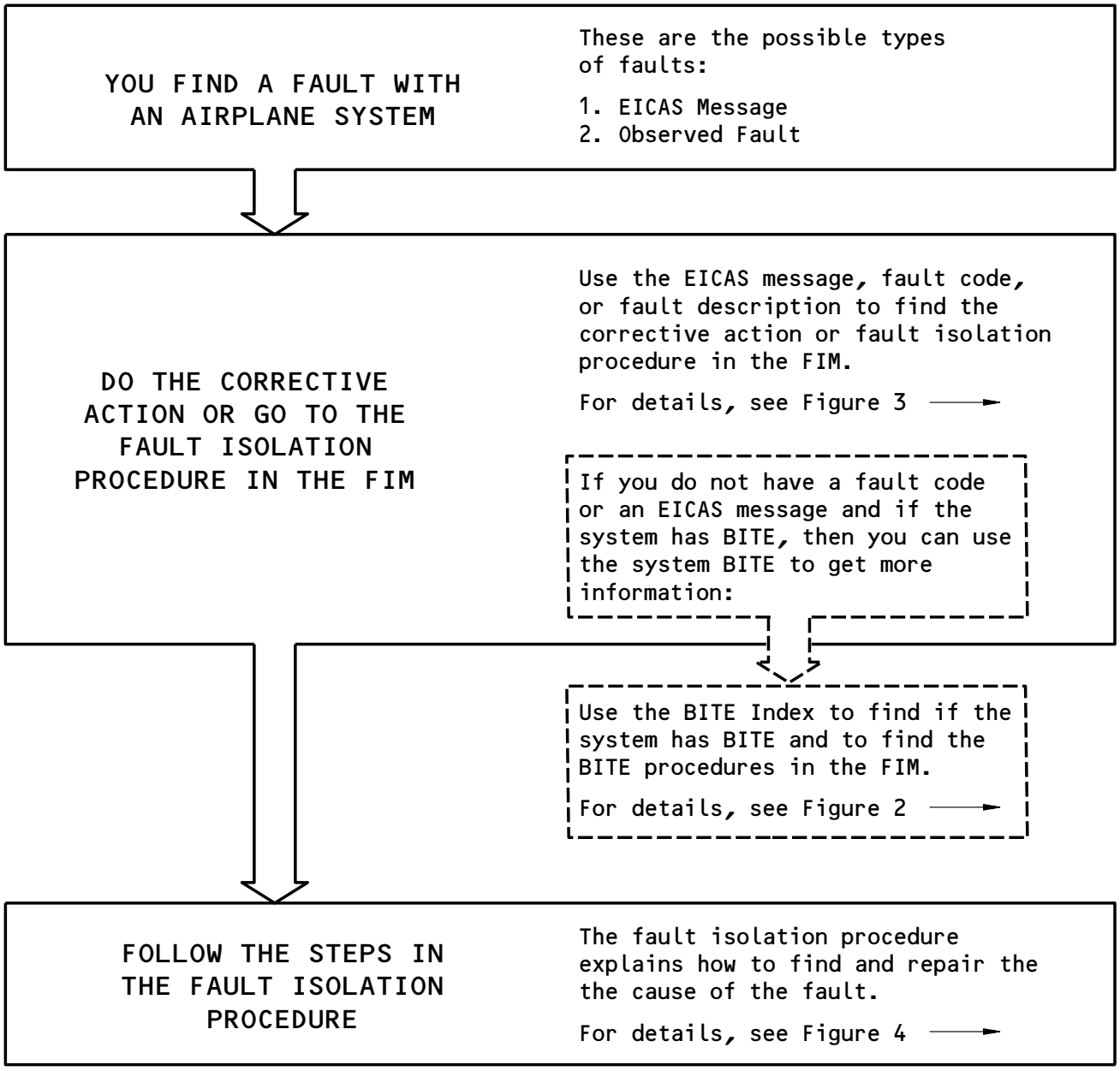

Basic Fault Isolation Process
Figure 1

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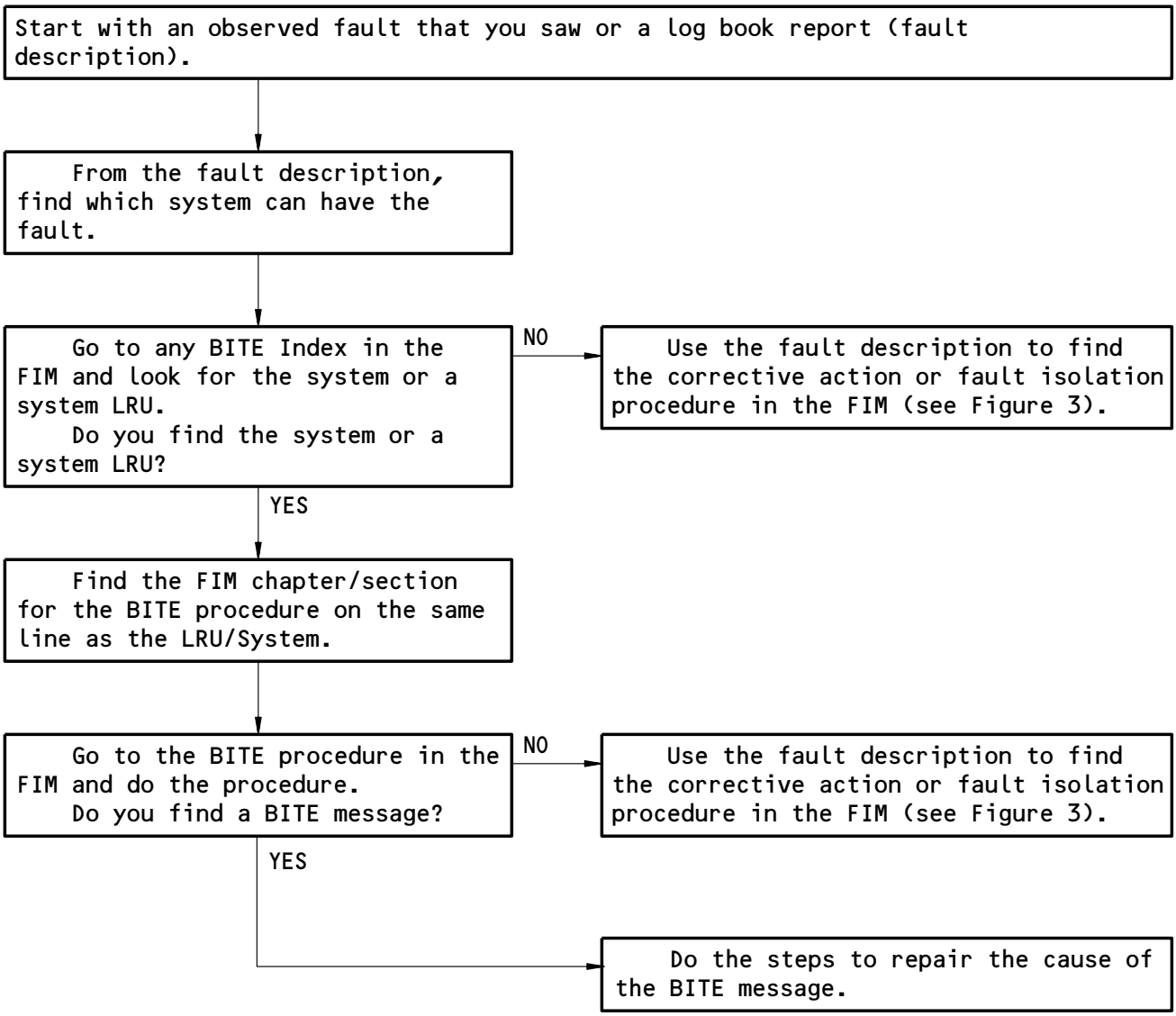

How to Get Fault Information from BITE
Figure 2

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IF YOU HAVE:	THEN DO THIS TO FIND THE CORRECTIVE ACTION OR FAULT ISOLATION PROCEDURE IN THE FIM:
FAULT CODE	1. The first two digits of the fault code are the FIM chapter that you need. Go to the Fault Code Index in that chapter and find the fault code. 2. Find the Fault Isolation Reference for the fault code and do the corrective action. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).
EICAS MESSAGE TEXT (with no fault code)	1. If you know the chapter of the EICAS message, then go to the EICAS Messages section in that chapter and find the EICAS message. If you do not know the chapter of the EICAS message, then do these steps: A. Go to FIM EICAS MESSAGE LIST and find the EICAS message in the table. NOTE: The list follows the INTRODUCTION to the FIM. B. Find the chapter number on the same line as the EICAS message. Go to the EICAS Messages section in that chapter and find the EICAS message. 2. Do the corrective action in the "Procedure" column for the EICAS message. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).
OBSERVED FAULT DESCRIPTION	1. Go to the Fault Code Diagram for the problem in the applicable chapter. 2. Do the fault analysis on the diagram and find the fault code. 3. The first two digits of the fault code are the FIM chapter that you need. Go to the Fault Code Index in that chapter and find the fault code. 4. Find the Fault Isolation Reference for the fault code and do the corrective action. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).

How to Find the Corrective Action or Fault Isolation Procedure in the FIM
Figure 3

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ASSUMED CONDITIONS AT START OF TASK

- External electrical power is OFF
- Hydraulic power and pneumatic power are OFF
- Engines are shut down
- Circuit breakers for the system are closed
- No equipment in the system is deactivated

PREREQUISITES

- This box gives the steps to get the airplane from the normal shutdown condition to the configuration necessary to do the fault isolation procedure.
- The Prerequisites give procedure references, circuit breakers, and special tools and equipment requirements.

FAULT ISOLATION BLOCKS

- Start the fault isolation procedure at block 1 unless specified differently.
- Do the check to get an answer to the question in the box. Follow the arrow that applies to your answer. This will go to the next check.
- When you get to a box in the column at the right of the page, you have isolated that fault. Do the steps in that box to repair the cause of the fault.
- Make sure that fault is corrected to complete the procedure.

Do the Fault Isolation Procedure
Figure 4

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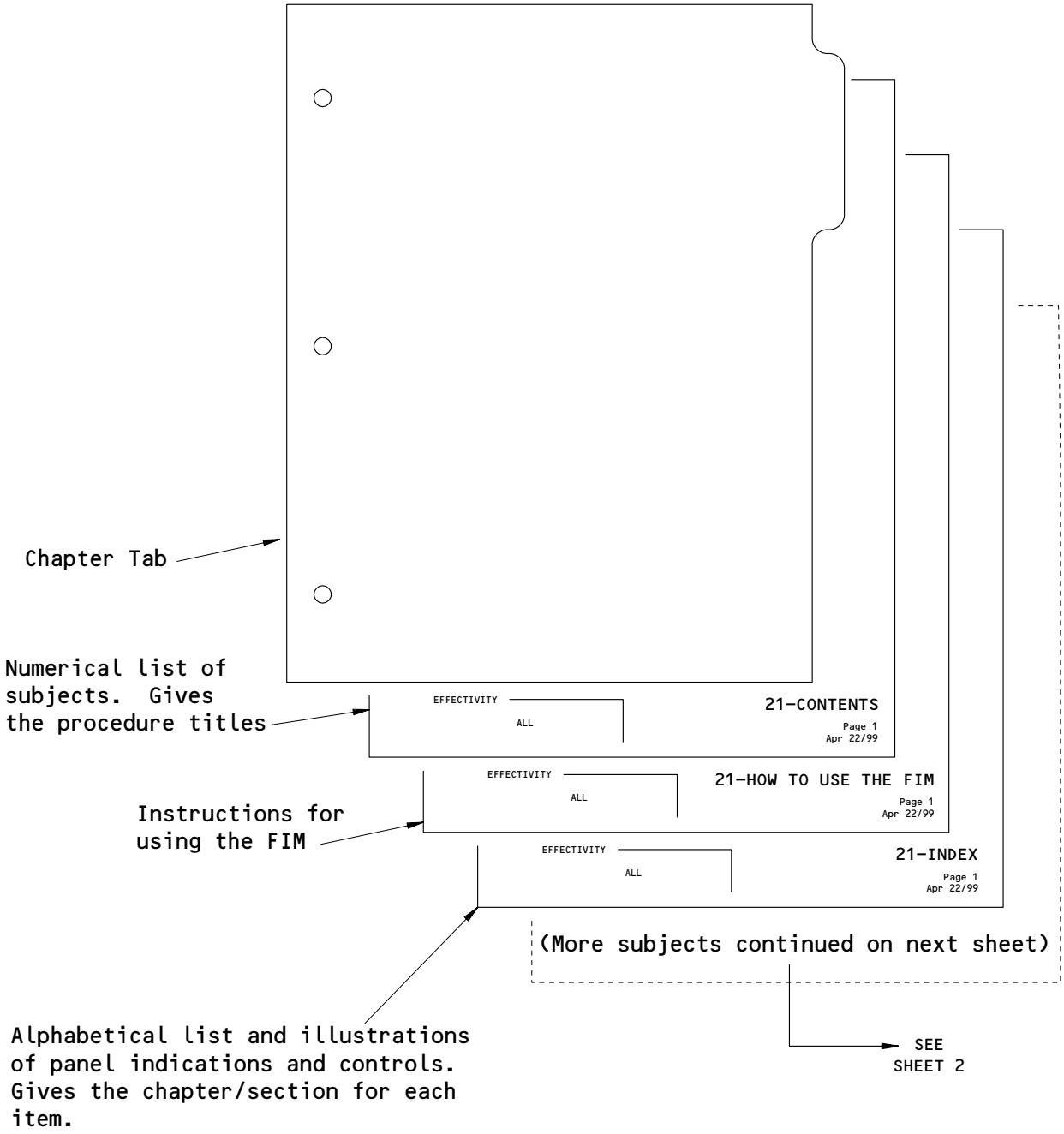

Subjects in Each FIM Chapter
Figure 5 (Sheet 1)

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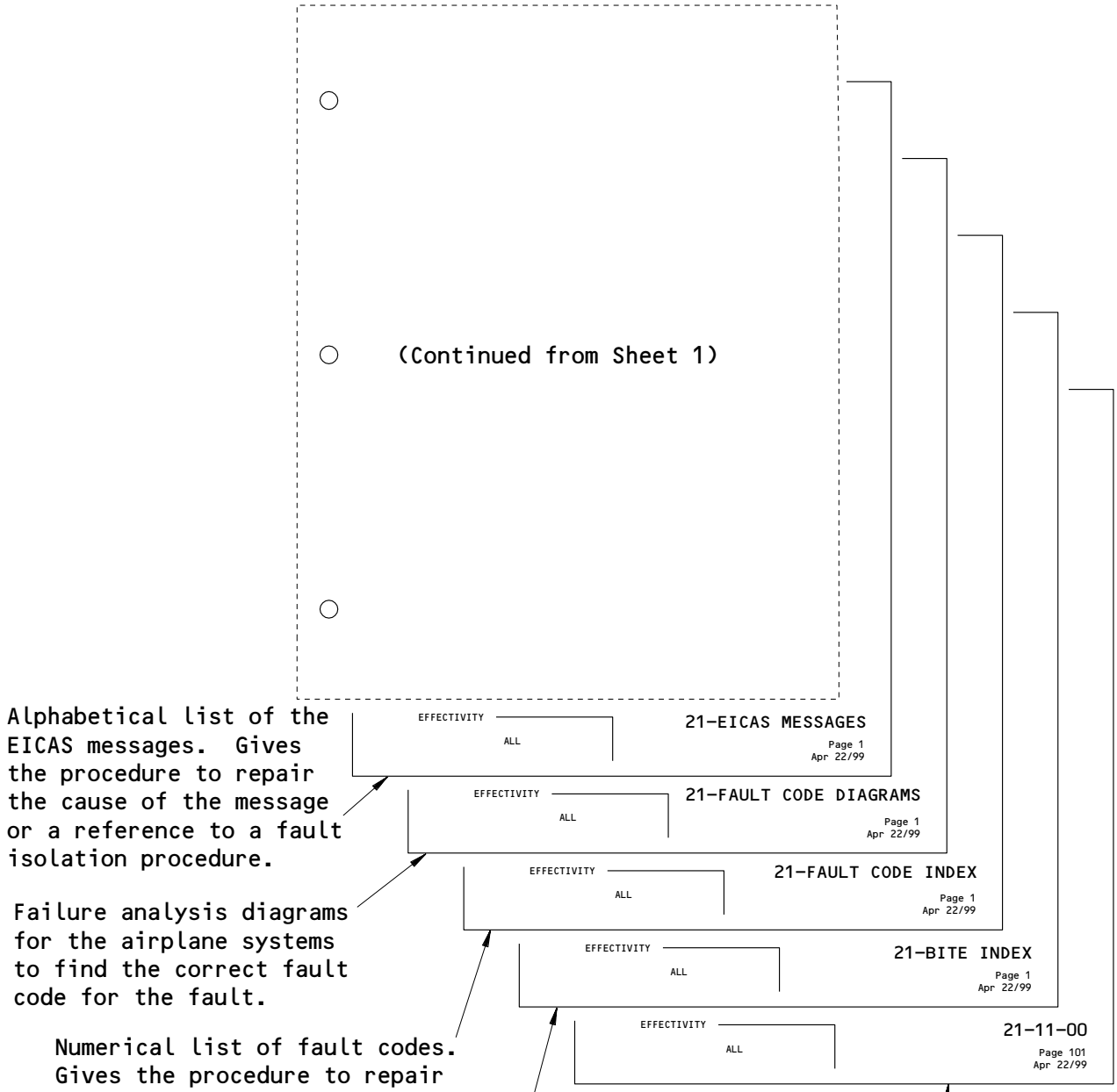

Subjects in Each FIM Chapter
Figure 5 (Sheet 2)

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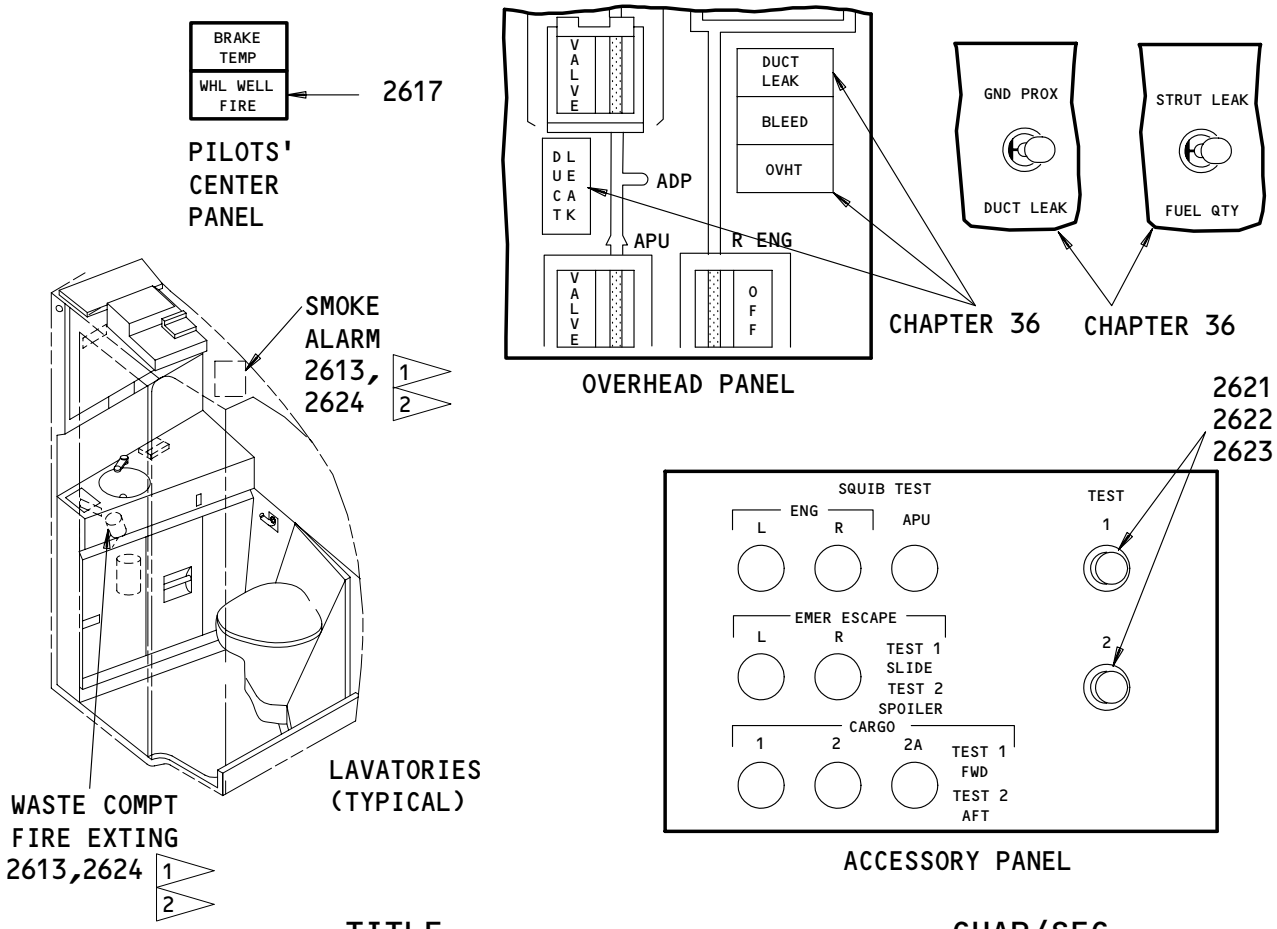

1 SAS AIRPLANES
2 MTH AIRPLANES

FIRE PROTECTION - INDEX

EFFECTIVITY
ALL

26-INDEX

F48684

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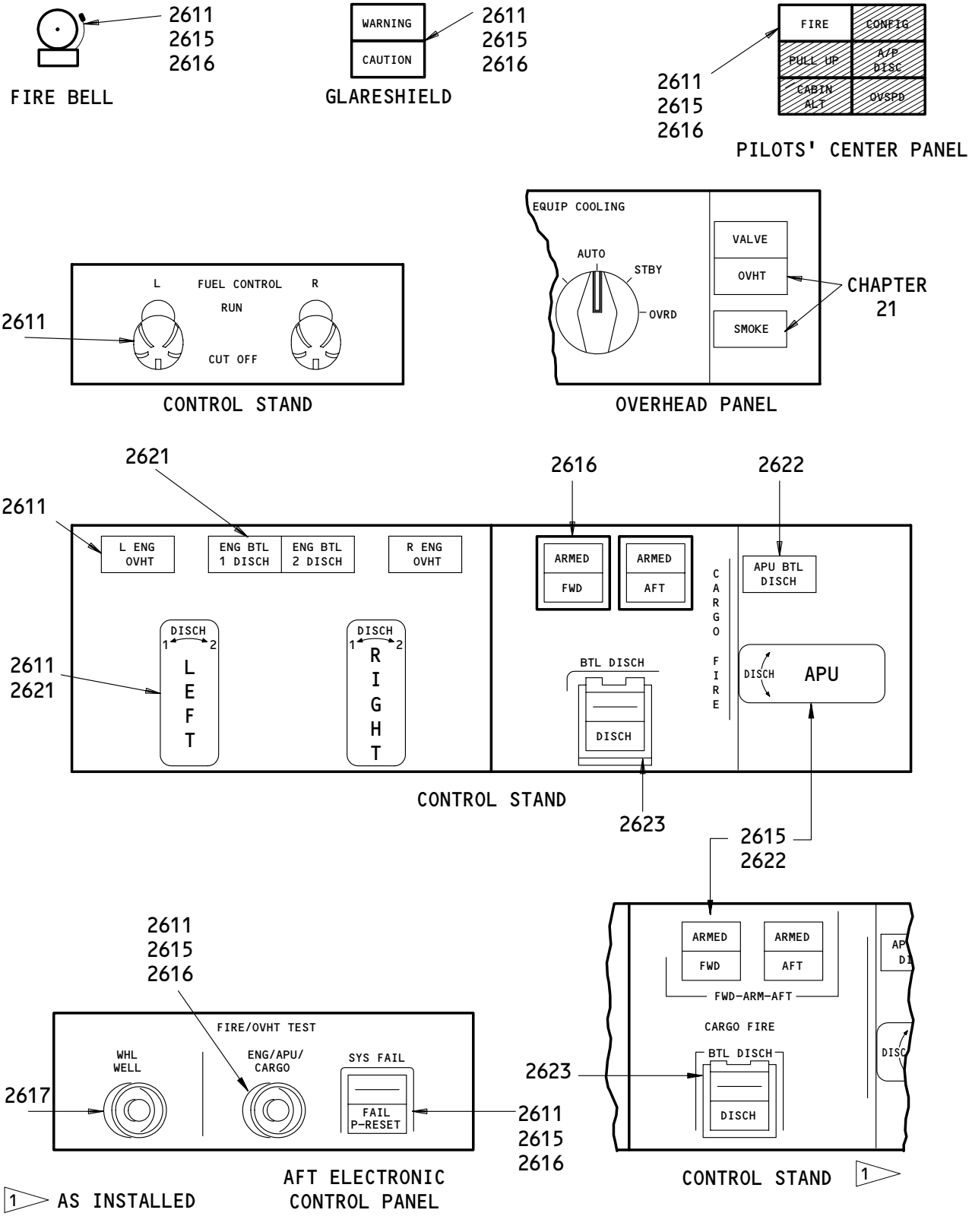

FIRE PROTECTION – INDEX

EFFECTIVITY

ALL

670559

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FIRE PROTECTION - EICAS MESSAGE LIST

1. General
   A. This procedure shows the EICAS message locations and gives a list of procedures to find the solution for each message.
      (1) EICAS Message Locations (Fig. 1)
         (a) Figure 1 shows the location of the EICAS display units and the area where the messages show on the display units.
         (b) Each message level has a different location. The location and color of each message level is also shown.
      (2) The EICAS MESSAGE LIST gives the message, level, and procedure for each message.
         (a) The EICAS MESSAGE column lists the messages alphabetically. Messages which start with L, R, or C are put together and alphabetized at L.
         (b) The LEVEL column gives all levels for each message as follows:
            A - Warning messages
            B - Caution messages
            C - Advisory messages
            S - Status messages
            M - Maintenance messages
         (c) The PROCEDURE column gives the steps that are necessary to remove the message and includes one or more of the procedures that follow:
            1) A Fault Isolation Manual procedure reference
            2) A Maintenance Manual procedure and reference
            3) Wiring checks and a Wiring Diagram Manual reference
            4) A reference to an EICAS message list in a different chapter.
            5) A reference to a FAULT CODE INDEX and specified fault codes
            6) A step to change the airplane configuration

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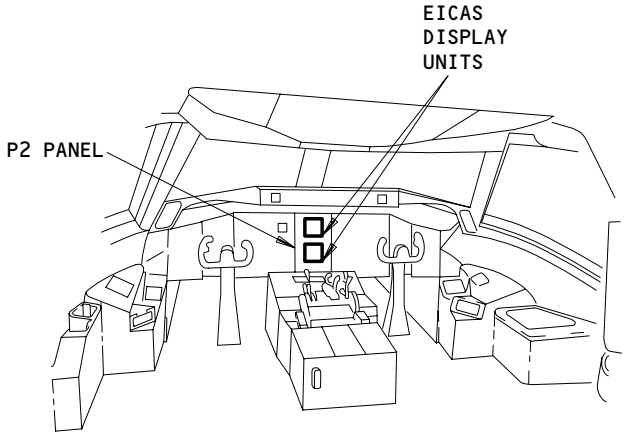

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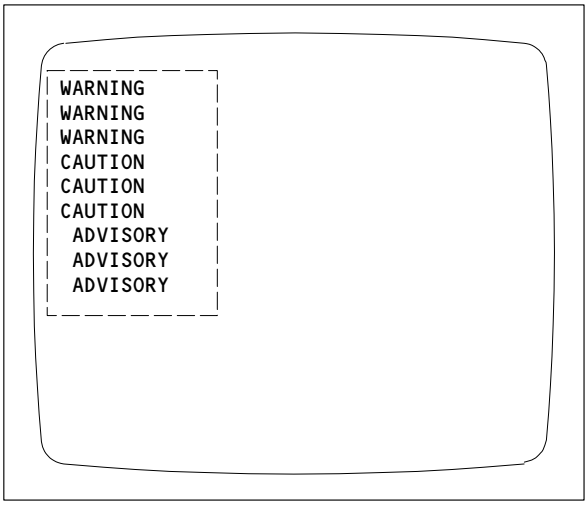
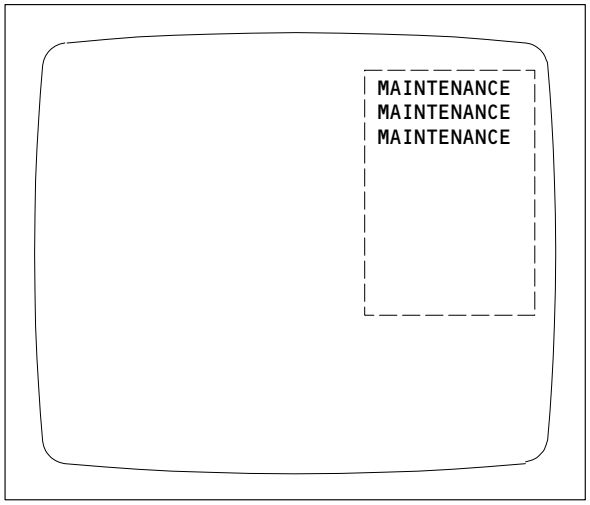
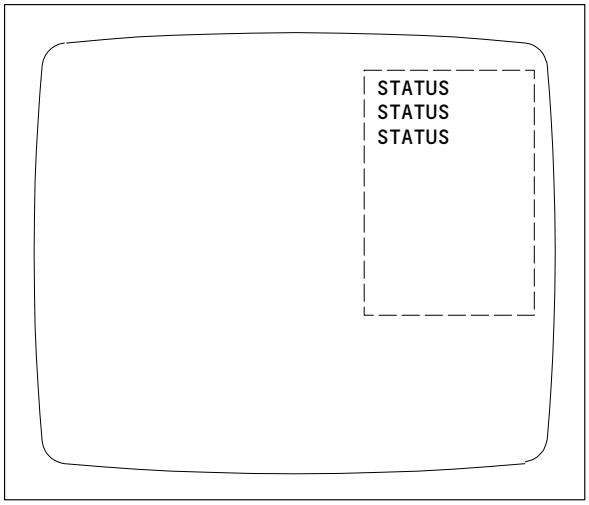


ENGINE PRIMARY PAGE OR COMPACTED PAGE
(TOP DISPLAY UNIT)



ECS/MSG PAGE
(BOTTOM DISPLAY UNIT)



STATUS PAGE
(BOTTOM DISPLAY UNIT)

LEVEL	COLOR
A–WARNING	RED
B–CAUTION	YELLOW
C–ADVISORY	YELLOW
S–STATUS	WHITE
M–MAINTENANCE	WHITE

EICAS Message Locations
Figure 1

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EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
APU BTL	C	Replace the APU fire bottle (AMM 26-22-02/401).
APU BTL 1 (2)	C	Replace the appropriate APU fire bottle (AMM 26-22-02/401).
APU BTL 1	C	Replace the APU fire bottle (AMM 26-22-02/401).
AFT CARGO DET 1 (2)	S	Replace the applicable aft cargo fire detector (AMM 26-16-01/201).
AFT CARGO DET 1 (2)	M	FIM 26-16-00/101, Fig. 108
AFT CARGO FIRE	A	FIM 26-16-00/101, Fig. 104
AFT DET FAN	M	FIM 26-16-00/101, Fig. 105
APU FIRE	A	FIM 26-15-00/101, Fig. 104
APU FIRE LP 1 (2)	S, M	FIM 26-15-00/101, Fig. 104
BODY DUCT LEAK	B	FIM 26-18-00/101, Fig. 104
BODY DUCT LP 1 (2)	S, M	FIM 26-18-00/101, Fig. 104
CARGO BTL 1	C	FIM 26-23-00/101, FIG. 103
CARGO BTL 2	C	FIM 26-23-00/101, FIG. 104
CARGO BTL 1 and 2	C	Replace the cargo fire extinguishing bottles (AMM 26-23-02/401).
CARGO DET AIR	S	FIM 26-16-00/101, Fig. 107
ENG BTL 1 (2)	C	Replace the engine fire extinguishing bottles (AMM 26-21-03/401).
FIRE/OVHT SYS	C	FIM 26-11-00/101, Fig. 104

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EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
FWD CARGO DET 1 (2)	S	Replace the applicable forward cargo smoke detector (AMM 26-16-01/201).
FWD CARGO DET 1 (2)	M	FIM 26-16-00/101, Fig. 108
FWD CARGO FIRE	A	FIM 26-16-00/101, Fig. 104
FWD DET FAN	M	FIM 26-16-00/101, Fig. 106
L (R) BLD DUCT LEAK	B	FIM 26-18-00/101, Fig. 104
L (R) DUCT LEAK LP 1 (2)	S, M	FIM 26-18-00/101, Fig. 104
L (R) ENGINE FIRE	A	FIM 26-11-00/101, Fig. 104
L (R) ENG BTL 1 (2)	C	Replace the applicable engine fire bottle (AMM 26-21-03/401).
L (R) ENG FIRE LP 1 (2)	S, M	FIM 26-11-00/101, FIG. 104
L (R) ENG OH LP 1 (2)	S, M	FIM 26-11-00/101, Fig. 104
L (R) ENG OVHT	B	FIM 26-11-00/101, Fig. 104
L (R) STRUT DCT LEAK	B	FIM 26-18-00/101, Fig. 104
L (R) STRUT DCT LP 1 (2)	S, M	FIM 26-18-00/101, Fig. 104
WHEEL WELL FIRE	A	FIM 26-17-00/101, Fig. 103

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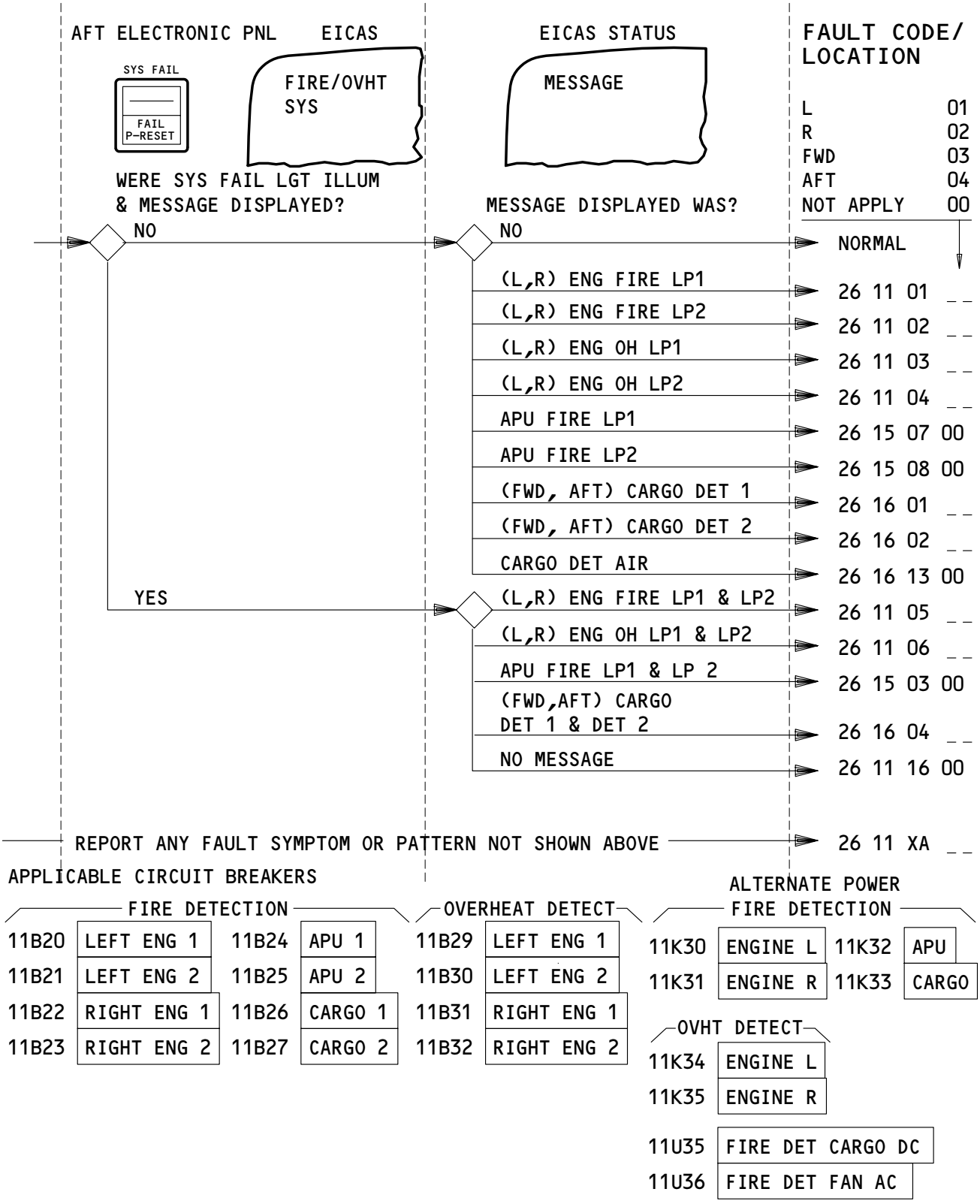

FIRE/OVHT DETECTOR (ENG, APU, CARGO) – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

01

214040

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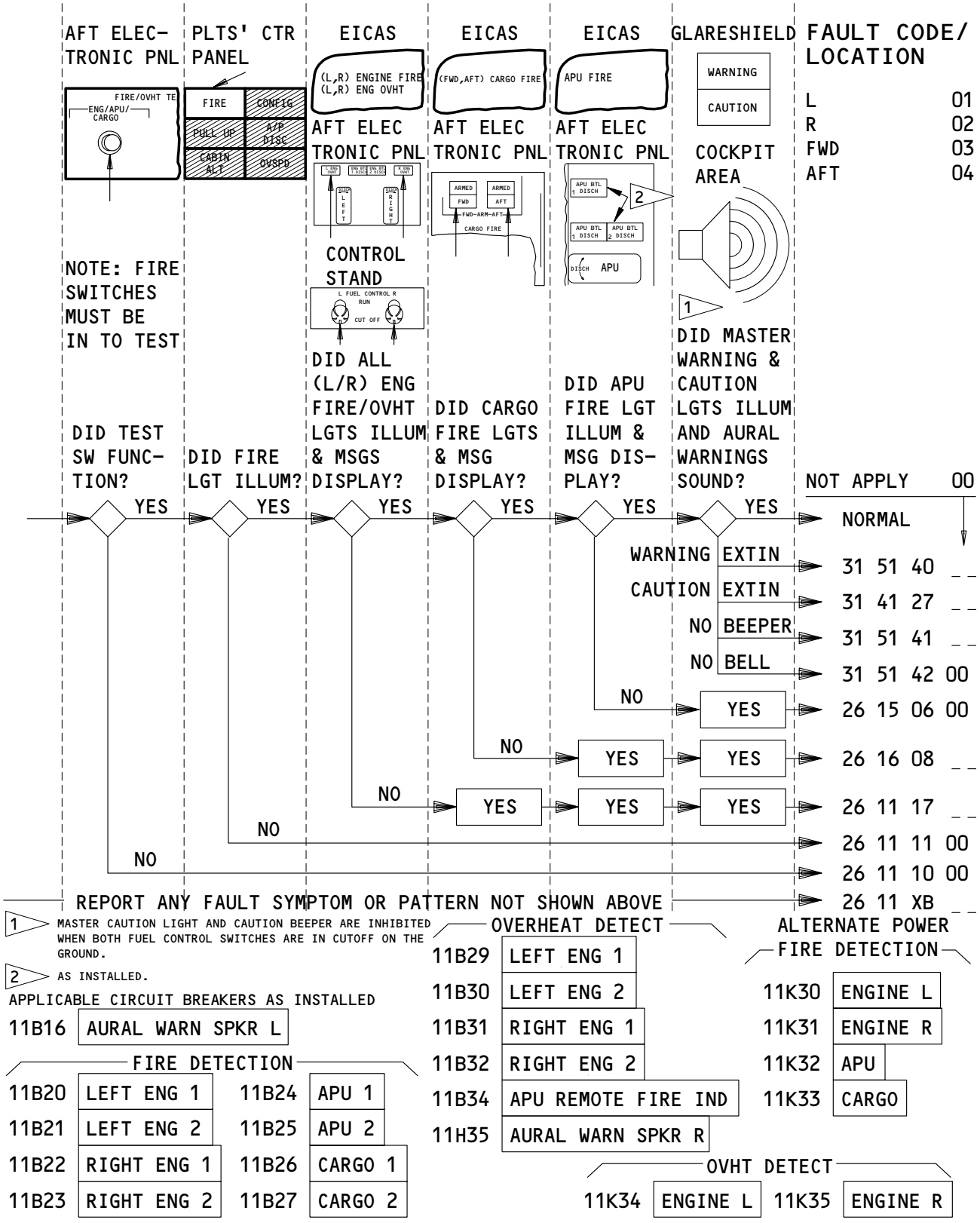

1 MASTER CAUTION LIGHT AND CAUTION BEEPER ARE INHIBITED WHEN BOTH FUEL CONTROL SWITCHES ARE IN CUTOFF ON THE GROUND.

2 AS INSTALLED.

APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11B16	AURAL WARN SPKR L

FIRE DETECTION

11B20	LEFT ENG 1	11B24	APU 1
11B21	LEFT ENG 2	11B25	APU 2
11B22	RIGHT ENG 1	11B26	CARGO 1
11B23	RIGHT ENG 2	11B27	CARGO 2

OVERHEAT DETECT

11B29	LEFT ENG 1
11B30	LEFT ENG 2
11B31	RIGHT ENG 1
11B32	RIGHT ENG 2
11B34	APU REMOTE FIRE IND
11H35	AURAL WARN SPKR R

ALTERNATE POWER FIRE DETECTION

11K30	ENGINE L
11K31	ENGINE R
11K32	APU
11K33	CARGO

OVHT DETECT

11K34	ENGINE L	11K35	ENGINE R

FIRE/OVHT TEST - ENG, APU, CARGO - FAULT CODES

EFFECTIVITY
ALL

26-FAULT CODE DIAGRAM

F94816

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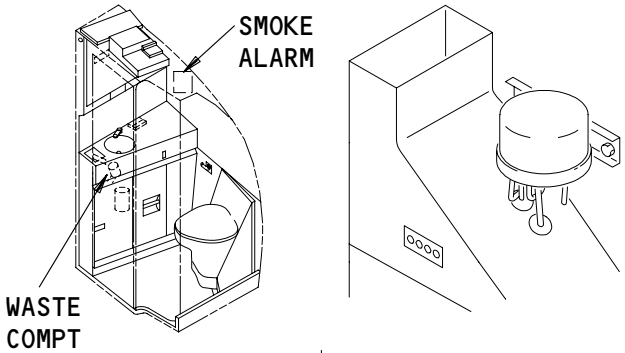
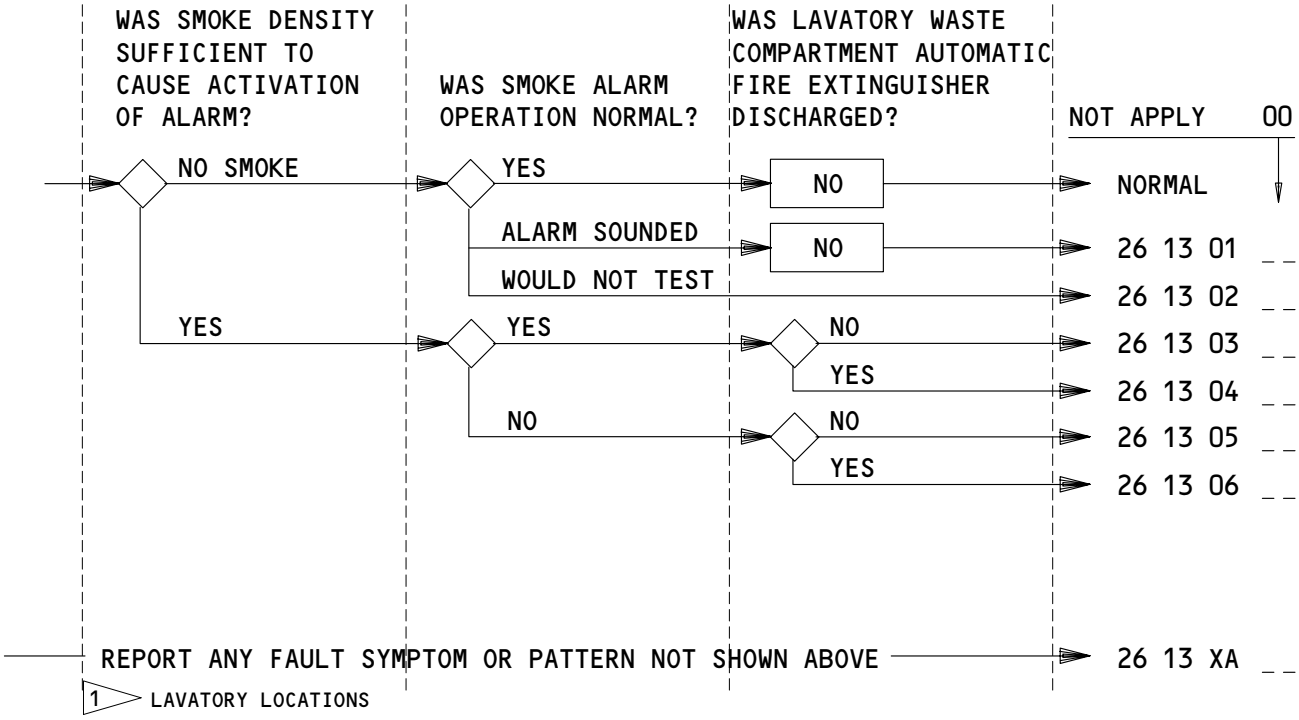
ALL LAVATORIES

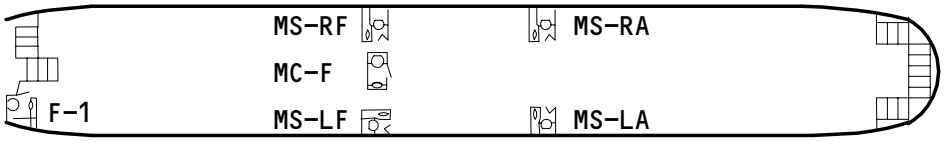


FAULT CODE/ LOCATION

LAVATORIES 1	
F – 1	01
MS – LF	02
MC – F	03
MS – RF	04
MS – LA	05
MS – RA	06



1 LAVATORY LOCATIONS



APPLICABLE CIRCUIT BREAKERS

11P34 | LAV CALL/SMOKE DET SYS

LAVATORY SMOKE & FIRE PROTECTION – FAULT CODES

EFFECTIVITY
ALL SAS 767-200 AIRPLANES

26-FAULT CODE DIAGRAM

590287

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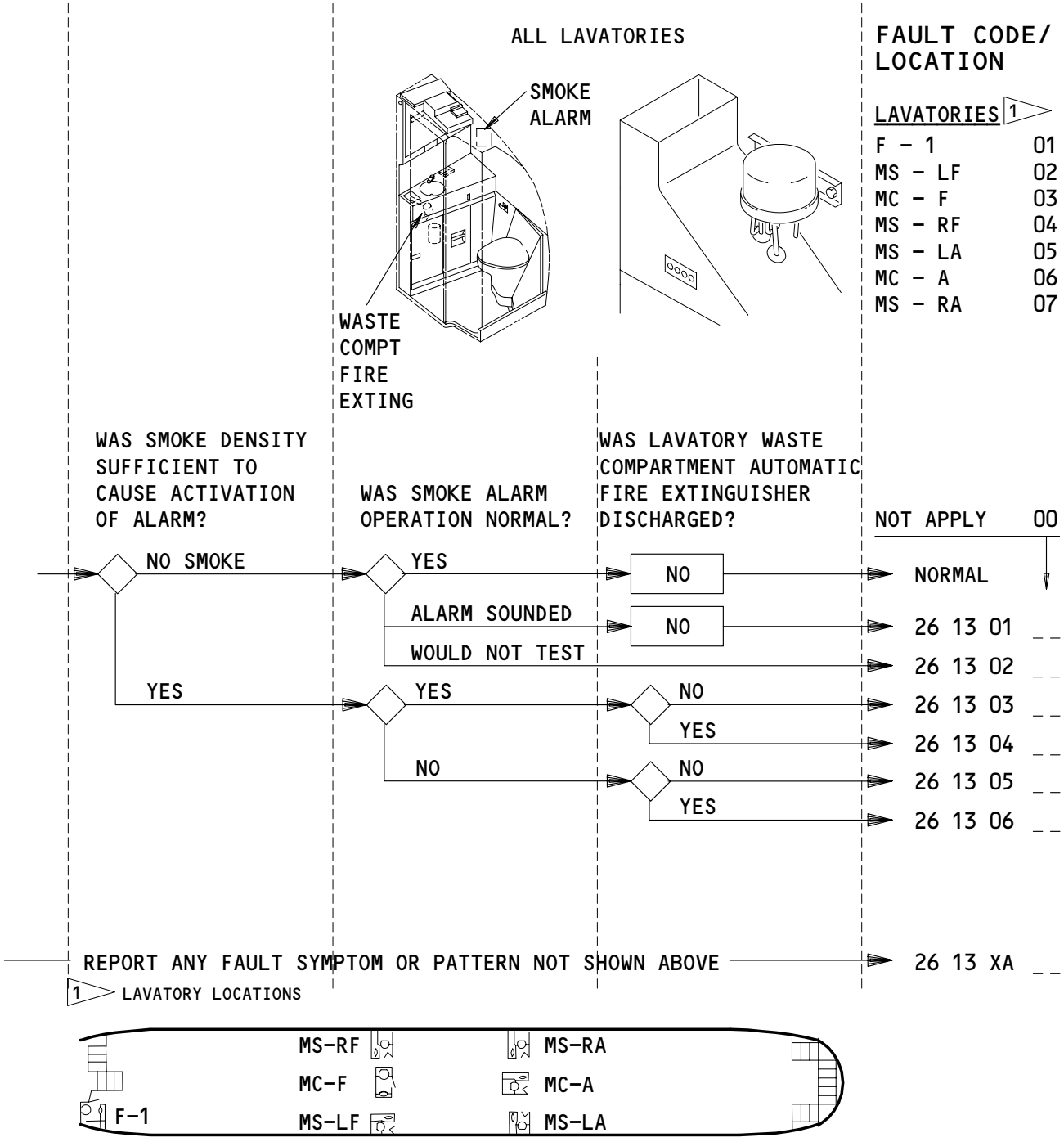

APPLICABLE CIRCUIT BREAKERS

11P34	LAV CALL/SMOKE DET SYS

LAVATORY SMOKE & FIRE PROTECTION – FAULT CODES

EFFECTIVITY
SAS 767-300 AIRPLANES

26-FAULT CODE DIAGRAM

670568

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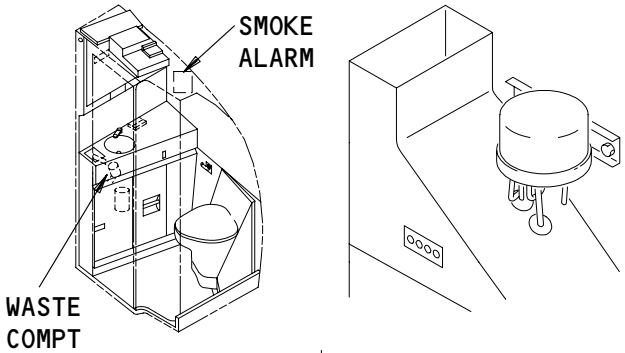
ALL LAVATORIES



FAULT CODE/
LOCATION

LAVATORIES 1	
A	01
B	02
C	03
D	04
E	05
F	06
	07

WAS SMOKE DENSITY SUFFICIENT TO CAUSE ACTIVATION OF ALARM?

WAS SMOKE ALARM OPERATION NORMAL?

WAS LAVATORY WASTE COMPARTMENT AUTOMATIC FIRE EXTINGUISHER DISCHARGED?

NOT APPLY 00

NO SMOKE → YES → NO → NORMAL

YES → ALARM SOUNDED → NO → 26 13 01 _ _

YES → WOULD NOT TEST → 26 13 02 _ _

YES → YES → NO → 26 13 03 _ _

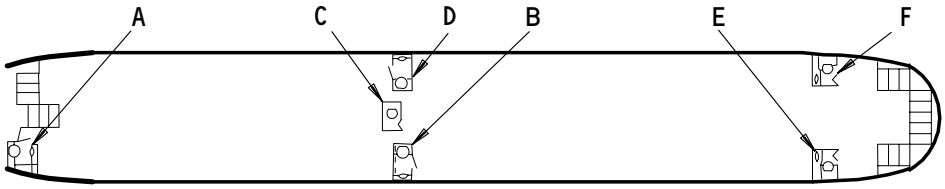
YES → 26 13 04 _ _

NO → NO → 26 13 05 _ _

YES → 26 13 06 _ _

REPORT ANY FAULT SYMPTOM OR PATTERN NOT SHOWN ABOVE → 26 13 XA _ _

1 LAVATORY LOCATIONS



APPLICABLE CIRCUIT BREAKERS

11P34	LAV CALL/SMOKE DET SYS

LAVATORY SMOKE & FIRE PROTECTION – FAULT CODES

EFFECTIVITY
MTH 767-300 AIRPLANES

26-FAULT CODE DIAGRAM

853979

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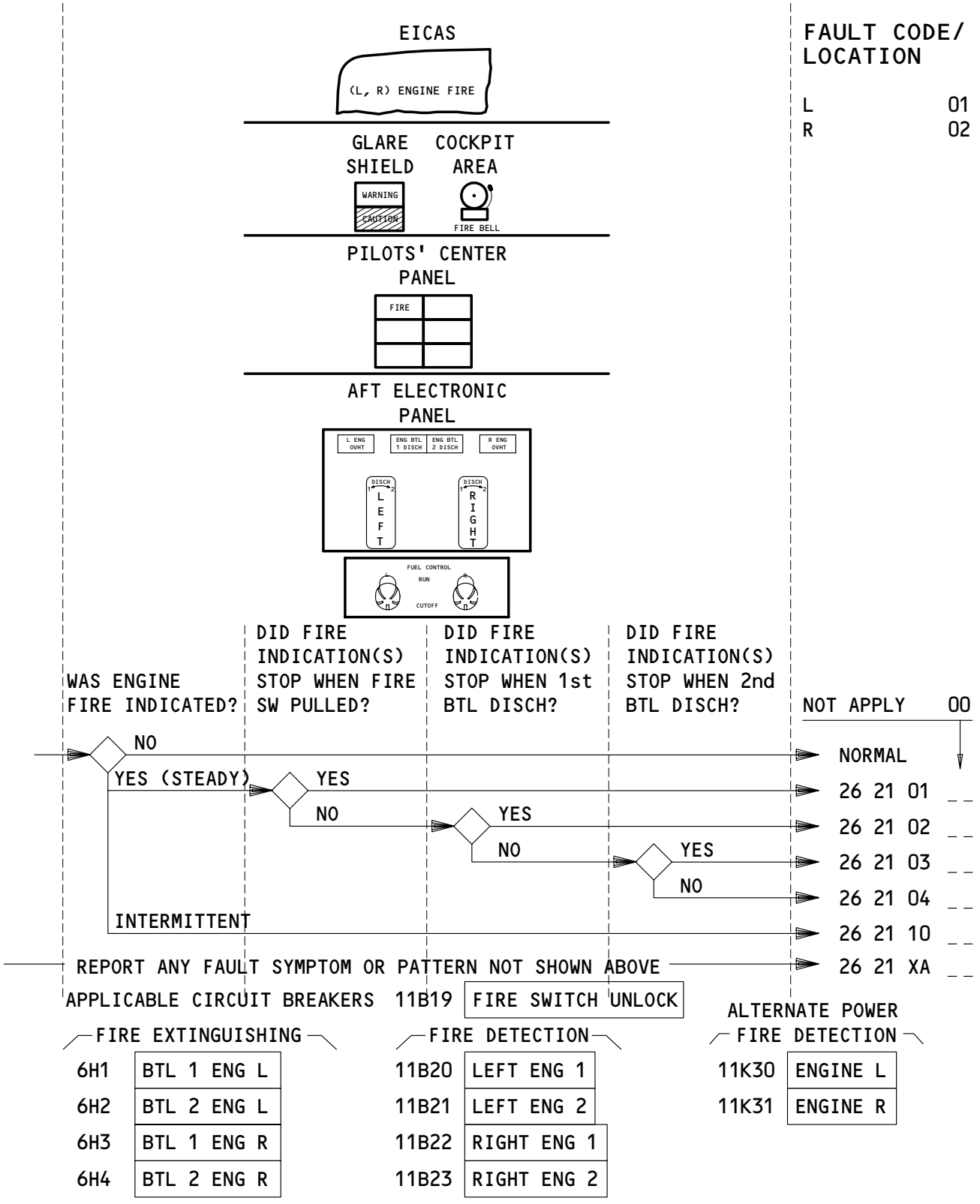

ENGINE FIRE – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

184961

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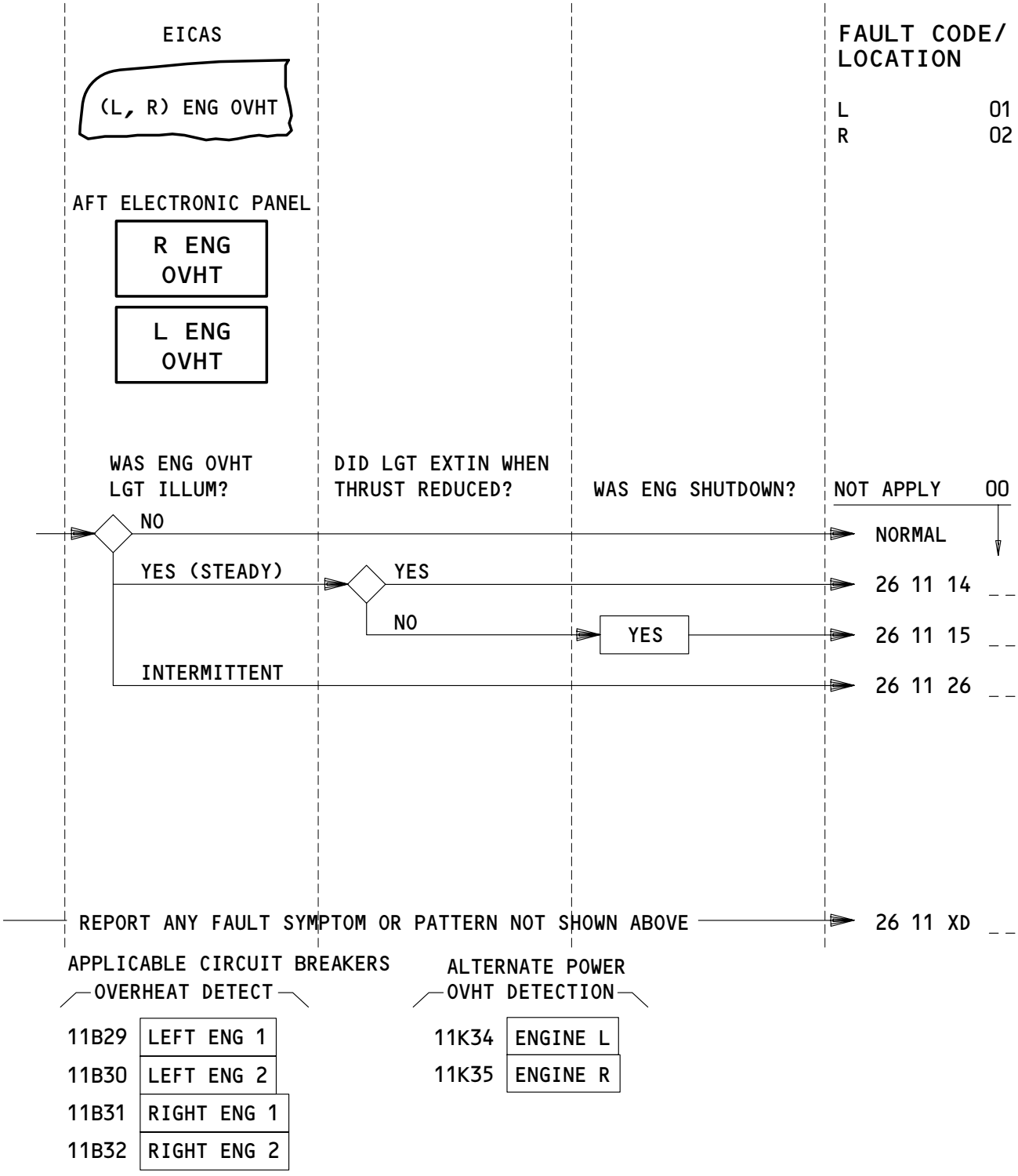

ENGINE OVERHEAT – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

214045

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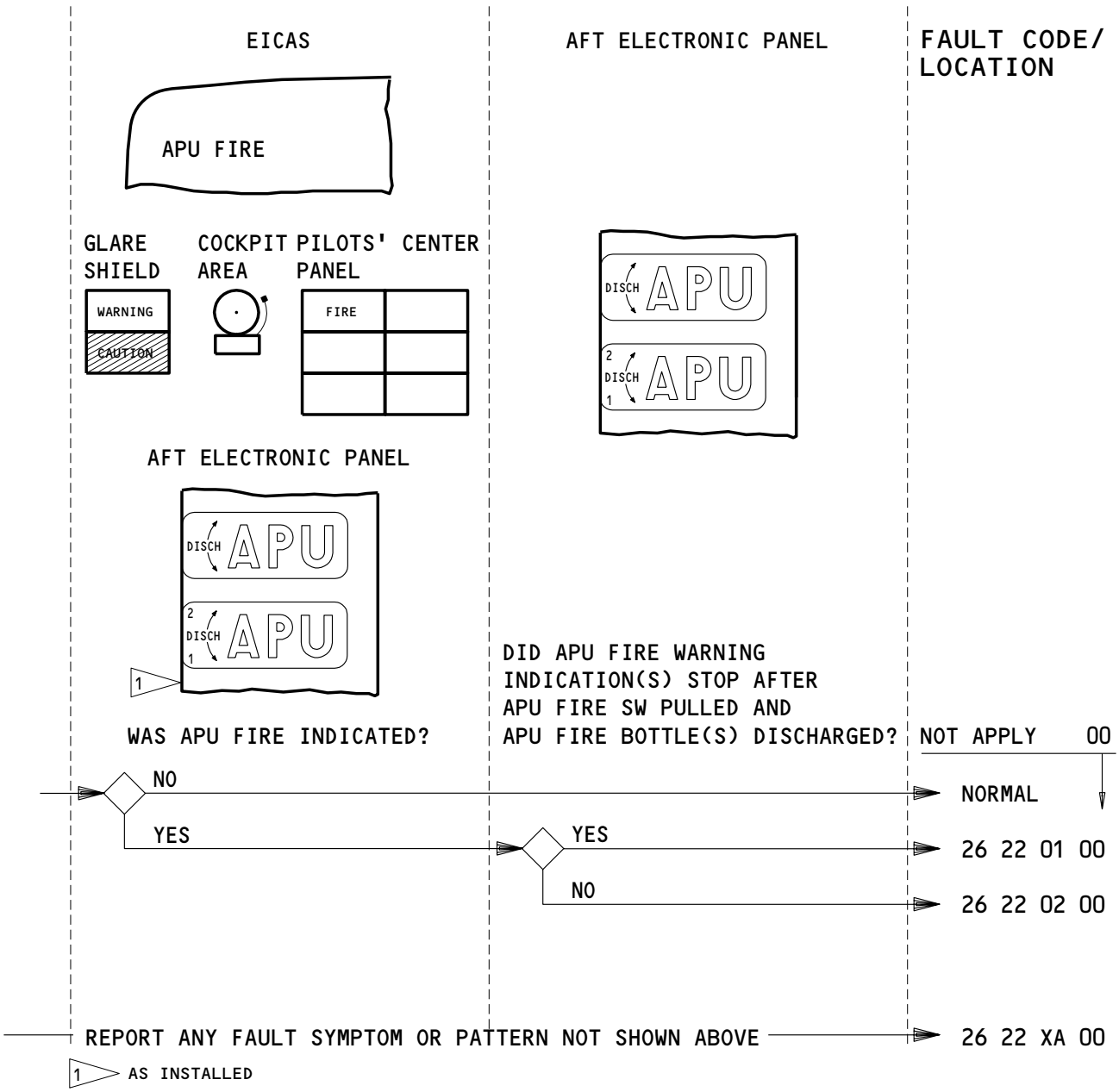

APPLICABLE CIRCUIT BREAKERS AS INSTALLED

6G1	FIRE EXT APU 1	11B23	FIRE DETECTION APU 1
6G2	FIRE EXT APU 2	11B24	FIRE DETECTION (APU 1, APU 2)
11A19	FIRE SWITCH UNLOCK	11B25	FIRE DETECTION (APU 2, APU 2)
11B19	FIRE SWITCH UNLOCK	11B34	APU REMOTE FIRE IND
		11K32	FIRE DETECTION APU

APU FIRE – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

J22389

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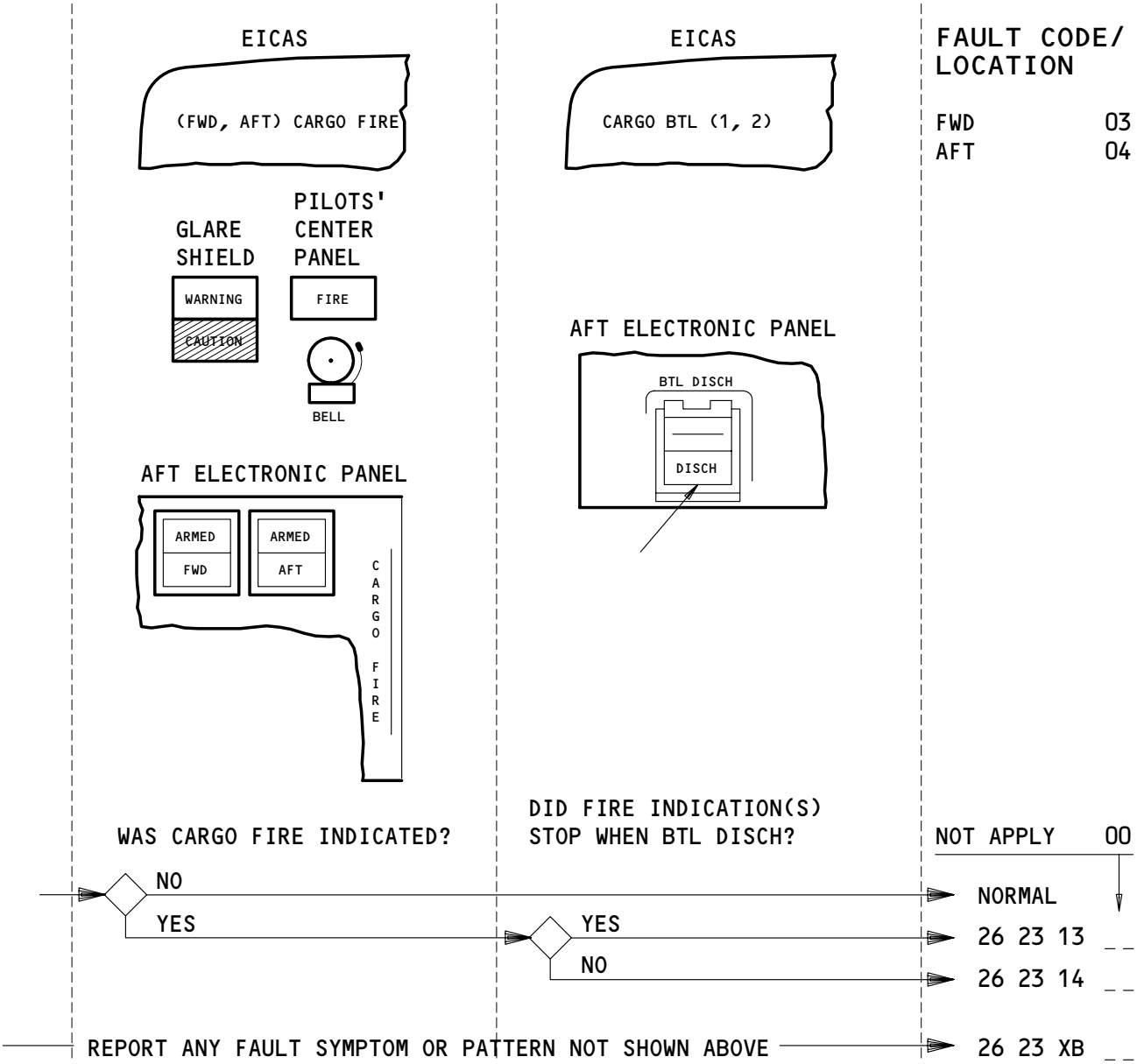

APPLICABLE CIRCUIT BREAKERS

FIRE EXTINGUISHING

6H5	BTL 1 CARGO
6H6	BTL 2 CARGO

FIRE DETECTION

11B26	CARGO 1
11B27	CARGO 2

11U35	FIRE DET CARGO FAN DC
11U36	FIRE DET CARGO FAN AC

ALTERNATE POWER

11K33	FIRE DETECTION CARGO

CARGO FIRE – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

186155

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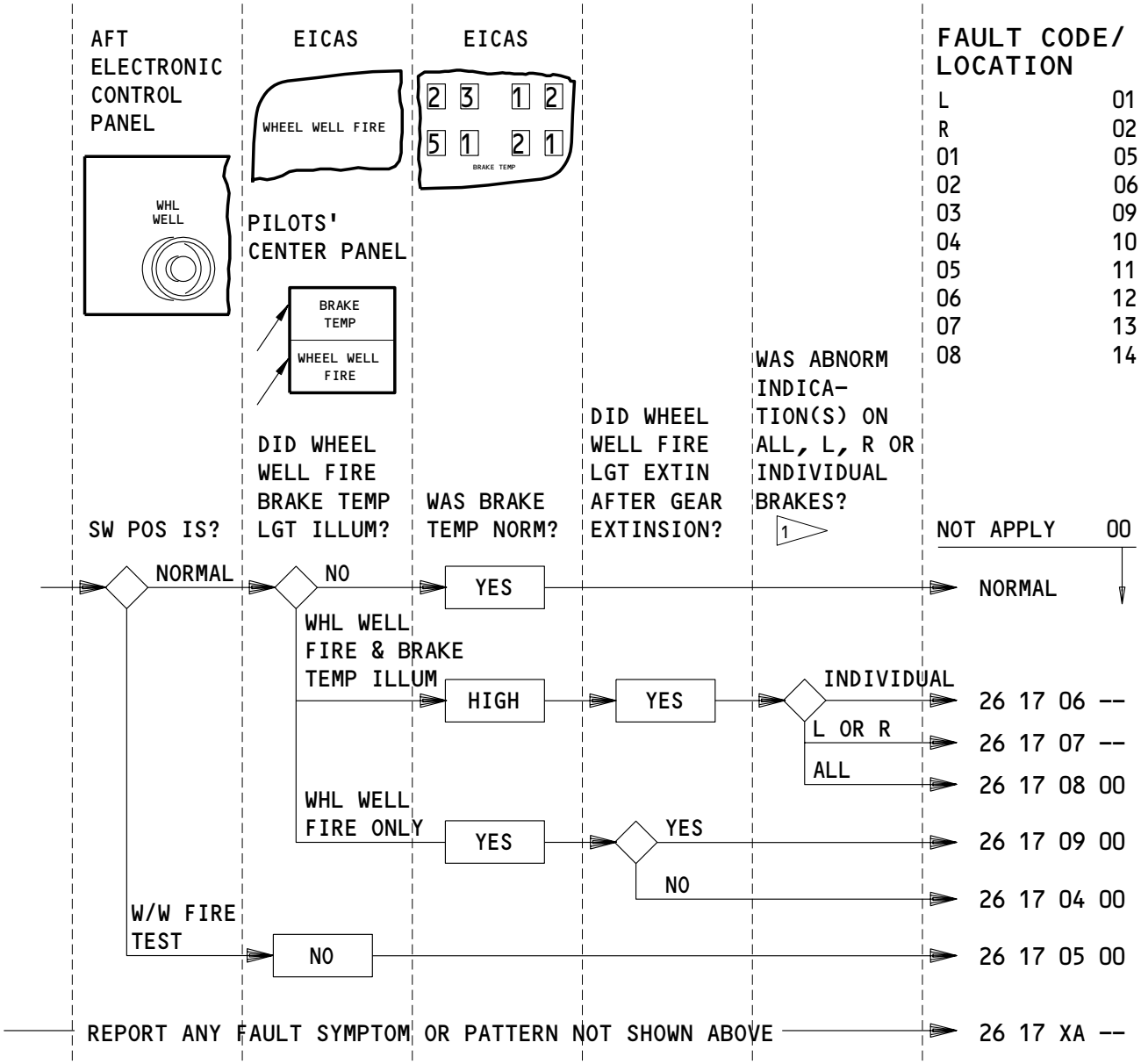
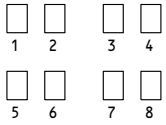


NOTE: 1

BRAKE LOCATION



APPLICABLE CIRCUIT BREAKERS

11B10	WW FIRE/DUCT LEAK	11U16	BRAKE TEMP
11B33	WW FIRE IND		

WHEEL WELL FIRE & TEST – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

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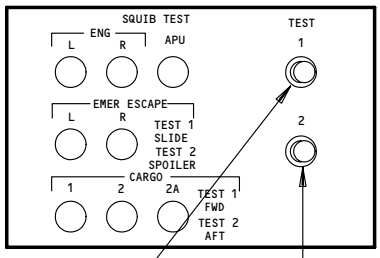
ACCESSORY PANEL



FAULT CODE/ LOCATION

L	01
R	02
1	05
2	06
2A	07

DID ALL LIGHTS ILLUM DURING TEST 1? 1

DID ALL LIGHTS ILLUM DURING TEST 2? 1

NOT APPLY 00

YES

YES → NORMAL

ENG EXTIN → 26 21 05 _ _

CARGO EXTIN → 26 23 04 _ _

EMER ESCAPE SPOILER EXTIN → 25 65 06 _ _

APU EXTIN → 26 22 04 00

ENG EXTIN

YES → 26 21 06 _ _

ENG EXTIN → 26 21 07 _ _

APU EXTIN

YES → 26 22 05 00

APU EXTIN → 26 22 06 00

CARGO EXTIN

YES → 26 23 05 _ _

CARGO EXTIN → 26 23 06 _ _

EMER ESCAPE SLIDE EXTIN → 25 65 07 _ _

REPORT ANY FAULT SYMPTOM OR PATTERN NOT SHOWN ABOVE → 26 21 XB _ _

1 NOTE: INVALID WHEN TEST 1 & TEST 2 PRESSED SIMULTANEOUSLY. 2 MTH AIRPLANES

APPLICABLE CIRCUIT BREAKERS

FIRE EXTINGUISHING

6G1	APU 1	6H4	BTL 2 ENG R	11P35	EMER LTS WING ESC L
2 6G2	APU 2	6H5	BTL 1 CARGO	11P36	EMER LTS WING ESC R
6H1	BTL 1 ENG L	6H6	BTL 2 CARGO		
6H2	BTL 2 ENG L				
6H3	BTL 1 ENG R				

SQUIB TEST – FAULT CODES

EFFECTIVITY

ALL

26-FAULT CODE DIAGRAM

670570

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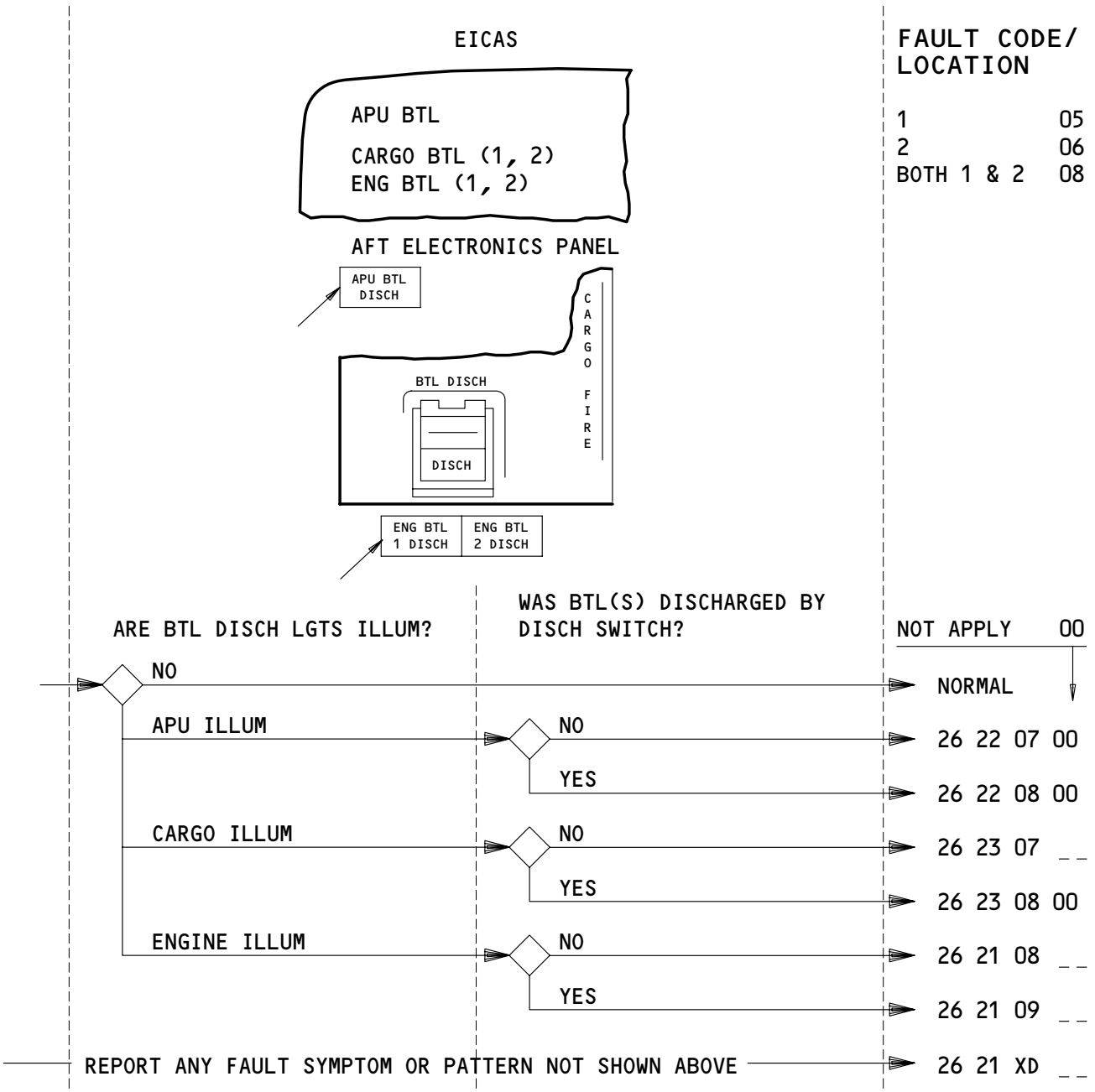

APPLICABLE CIRCUIT BREAKERS

FIRE EXTINGUISHING

6G1	APU 1	6H4	BTL 2 ENG R
6H1	BTL 1 ENG L	6H5	BTL 1 CARGO
6H2	BTL 2 ENG L	6H6	BTL 2 CARGO
6H3	BTL 1 ENG R		

BOTTLE DISCHARGE LIGHT ILLUMINATED – FAULT CODES

EFFECTIVITY
ALL SAS AIRPLANES

26-FAULT CODE DIAGRAM

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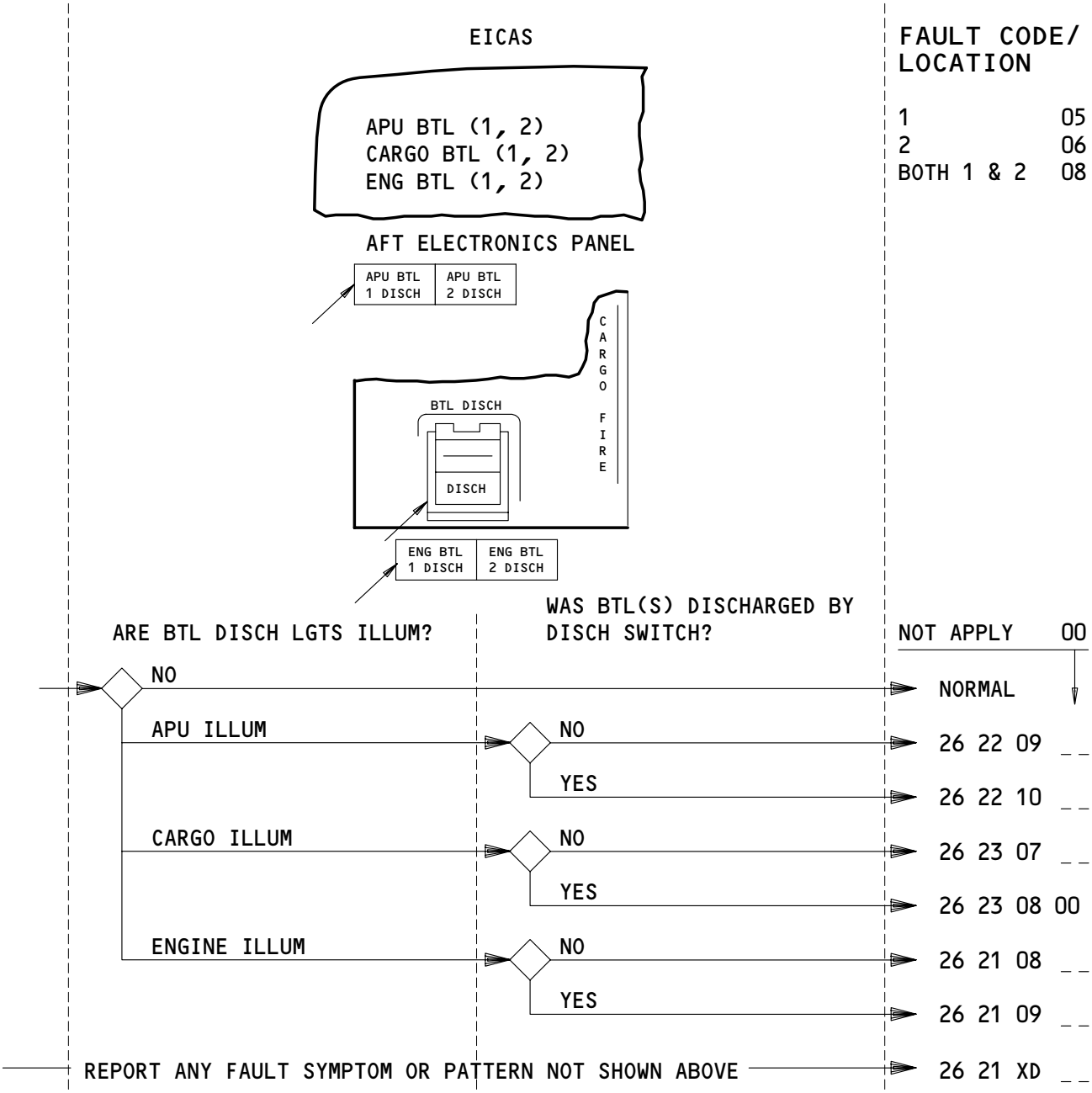

APPLICABLE CIRCUIT BREAKERS

FIRE EXTINGUISHING

6G1	APU 1	6H3	BTL 1 ENG R
6G2	APU 2	6H4	BTL 2 ENG R
6H1	BTL 1 ENG L	6H5	BTL 1 CARGO
6H2	BTL 2 ENG L	6H6	BTL 2 CARGO

BOTTLE DISCHARGE LIGHTS ILLUMINATED – FAULT CODES

EFFECTIVITY
ALL MTH AIRPLANES

26-FAULT CODE DIAGRAM

670572

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 11 XA --	1. A (01=L, 02=R, 03=fwd, 04=aft) FIRE/OVHT detector problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-11-01
26 11 XB --	1. A (01=L, 02=R) FIRE/OVHT test problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-11-01
26 11 XC --	Not Used
26 11 XD --	1. An (01=L, 02=R) engine overheat problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-11-01
26 13 XA --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) A lavatory smoke and fire protection problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) A lavatory smoke and fire protection problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 3. MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) A lavatory smoke and fire protection problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 4. SSM 26-13-01
26 17 XA --	1. A (01=01, 02=02, 03=03, 04=04, 05=05, 06=06, 07=07, 08=08, 09=L, 10=R) wheel well fire and test problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-17-01

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 18 XA --	1. A (01=L, 02=R, 05=body) duct leak and test problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-18-01
26 18 XB --	1. A (01=L, 02=R) A duct leak and test problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. FIM 26-18-00/101, Fig. 104, Block 1
26 21 XA --	1. An (01=L, 02=R) engine fire problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-21-01
26 21 XB --	1. A (01=L, 02=R, 05=1, 06=2, 07=2A) squib test problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-21-01
26 21 XC --	Not Used
26 21 XD --	1. A (05=1, 06=2, 08=both 1 & 2) bottle discharge light problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-21-01

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 22 XA 00	1. An APU fire problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-22-01
26 23 XA --	Not Used
26 23 XB --	1. A (03=fwd, 04=aft) cargo fire problem was encountered by the flight crew which is not covered in the fault code diagrams. (Ref fault code diagram for flight crew actions). 2. SSM 26-23-01
26 11 01 --	1. EICAS status msg: (01=L, 02=R) ENG FIRE LP1 displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 02 --	1. EICAS status msg: (01=L, 02=R) ENG FIRE LP2 displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 03 --	1. EICAS status msg: (01=L, 02=R) ENG OVHT LP1 displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 04 --	1. EICAS status msg: (01=L, 02=R) ENG OVHT LP2 displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 05 --	1. Fire protection SYSTEM FAIL lgt illum. EICAS msg: FIRE/OVHT SYSTEM displayed, EICAS status msg: (01=L, 02=R) ENG FIRE LP1 & LP2 displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 06 --	1. Fire protection SYSTEM FAIL lgt illum. EICAS msg: FIRE/OVHT SYS displayed, EICAS status msg: (01=L, 02=R) ENG OH LP1 & LP2 displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 07 -- thru 26 11 09 --	Not Used
26 11 10 00	1. FIRE/OVHT test did not initiate when ENG/APU/CARGO Test switch pushed. 2. Replace ENG/APU/CARGO test switch YEHS1 (WDM 26-11-21), on FIRE/OVHT test panel M10445, or M10445 (AMM 26-11-01).

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 11 11 00	1. Discrete FIRE warning light, CTR-fwd panel, did not illuminate during test, other indications normal. 2. FIM 26-11-00/101, Fig. 104, Block 1.
26 11 12 --	Not Used
26 11 13 --	Not Used
26 11 14 --	1. EICAS msg (O1=L, O2=R) ENG OVHT displayed with ENG OVHT lgt illum. Lgt extin after thrust reduction. 2. Inspect and repair engine bleed air ducts (AMM 36-11-01) and 7th Stage Cooling System (AMM 72-00-00).
26 11 15 --	1. EICAS msg (O1=L, O2=R) ENG OVHT displayed with ENG OVHT lgt illum. Lgt remained illum after thrust reduction. Eng was shutdown. 2. If lgt remained illuminated after engine shutdown, perform FIM 26-11-00/101, Fig. 104, Block 1 If lgt extinguished after engine shutdown, inspect and repair engine bleed air ducts (AMM 36-11-01) and 7th Stage Cooling System (AMM 72-00-00).
26 11 16 00	1. Fire protection SYSTEM FAIL lgt illum. EICAS msg FIRE/OVHT SYS displayed. EICAS status msg not displayed. 2. FIM 26-11-00/101, Fig. 104, Block 1
26 11 17 --	1. (O1=L, O2=R) ENG FIRE/OVHT lgts remained extin, and/or appropriate EICAS msgs did not display during test. Other indications normal. 2. Replace AFOLTS card M10224 - left. (M10274 - right) (AMM 26-10-01)
26 11 18 00	1. EICAS msg. L ENG FIRE LP 1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 105, Block 1
26 11 19 00	1. EICAS msg. R ENG FIRE LP 1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 106, Block 1
26 11 20 00	1. EICAS msg. L ENG FIRE LP 2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 105, Block 1

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 11 21 00	1. EICAS msg. R ENG FIRE LP 2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 106, Block 1
26 11 22 00	1. EICAS msg. L ENG OH LP 1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 107, Block 1
26 11 23 00	1. EICAS msg. R ENG OH LP 1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 108, Block 1
26 11 24 00	1. EICAS msg. L ENG OH LP 2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 107, Block 1
26 11 25 00	1. EICAS msg. R ENG OH LP 2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-11-00/101, Fig. 108, Block 1
26 11 26 --	1. (01=L, 02=R) eng had intermittent (L, R) ENG OVHT indication. 2. Reseat circuit cards in P54 (AMM 26-10-01). Check detector connectors for contaminated or damaged pin, socket, insulation or pushed back pin. Tighten connectors securely. Check continuity of detector while moving (vibrating) detector. Inspect and repair 7th Stage Cooling System (AMM 72-00-00).
26 13 01 --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) Lav smoke alarm sounded, no smoke, fire extinguisher did not discharge. 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) Lav smoke alarm sounded, no smoke, fire extinguisher did not discharge. 3. ALL MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) Lav smoke alarm sounded, no smoke, fire extinguisher did not discharge. 4. Replace extinguisher bottle (AMM 26-24-01). Inspect and repair lavatory area for fire damage as necessary. If no fire damage, perform FIM 26-13-00/101, Fig. 103, Block 1.

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 13 02 --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) Lav smoke detector will not test when self test switch activated. 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) Lav smoke detector will not test when self test switch activated. 3. ALL MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) Lav smoke detector will not test when self test switch activated. 4. Replace lavatory smoke detector (AMM 26-13-01).
26 13 03 --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) Lav smoke alarm activated by smoke, automatic fire extinguisher did not discharge. 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) Lav smoke alarm activated by smoke, automatic fire extinguisher did not discharge. 3. ALL MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) Lav smoke alarm activated by smoke, automatic fire extinguisher did not discharge. 4. Replace the fire extinguishing bottle (AMM 26-24-01). Inspect and repair lavatory area for fire damage as necessary. Perform FIM 26-13-00/101, Fig. 103, Block 1.
26 13 04 --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) Lav smoke alarm activated by smoke, fire extinguisher discharged. 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) Lav smoke alarm activated by smoke, fire extinguisher discharged. 3. ALL MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) Lav smoke alarm activated by smoke, fire extinguisher discharged. 4. Replace extinguisher bottle (AMM 26-24-01). Inspect and repair lavatory area for fire damage as necessary. If no fire damage, perform FIM 26-13-00/101, Fig. 103, Block 1.

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 13 05 --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) At high smoke density lav smoke alarm did not activate, automatic fire extinguisher did not discharge. 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) At high smoke density lav smoke alarm did not activate, automatic fire extinguisher did not discharge. 3. ALL MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) At high smoke density lav smoke alarm did not activate, automatic fire extinguisher did not discharge. 4. Inspect and repair lavatory area for fire damage as necessary. Perform FIM 26-13-00/101, Fig. 103, Block 1.
26 13 06 --	1. SAS 767-200 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MS-RA) at high smoke density lav smoke alarm did not activate, automatic fire extinguisher discharged. 2. SAS 767-300 AIRPLANES; (01=F-1, 02=MS-LF, 03=MC-F, 04=MS-RF, 05=MS-LA, 06=MC-A, 07=MS-RA) at high smoke density lav smoke alarm did not activate, automatic fire extinguisher discharged. 3. ALL MTH AIRPLANES; (01=A, 02=B, 03=C, 04=D, 05=E, 06=F) at high smoke density lav smoke alarm did not activate, automatic fire extinguisher discharged. 4. Inspect and repair lavatory area for fire damage as necessary. Perform FIM 26-13-00/101, Fig. 103, Block 1.
26 15 01 00	1. EICAS status msg: APU FIRE LP1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-15-00/101, Fig. 104, Block 1

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 15 02 00	1. EICAS status msg: APU FIRE LP2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-15-00/101, Fig. 104, Block 1
26 15 03 00	1. Fire protection SYSTEM FAIL lgt illum. EICAS msg: FIRE/OVHT SYSTEM displayed, EICAS status msg: APU FIRE LP1 & LP2 displayed. 2. FIM 26-15-00/101, Fig. 103, Block 1.
26 15 04 --	Not Used
26 15 05 --	Not Used
26 15 06 00	1. APU FIRE lgts remained extin, horn did not sound, or appropriate EICAS msg did not display during test. Other indications normal. 2. Replace AFOLTS 3 card M10400 (AMM 26-10-01)
26 15 07 00	1. EICAS status msg: APU FIRE LP1 displayed. 2. FIM 26-15-00/101, Fig. 104, Block 1
26 15 08 00	1. EICAS status msg: APU FIRE LP2 displayed. 2. FIM 26-15-00/101, Fig. 104, Block 1
26 16 01 --	1. EICAS status msg: (03=FWD, 04=AFT) CARGO DET 1 displayed. 2. Replace FWD (AFT) CARGO SMOKE DET 1, M324(M326)(AMM 26-16-01).
26 16 02 --	1. EICAS status msg: (03=FWD, 04=AFT) CARGO DET 2 displayed. 2. Replace FWD (AFT) CARGO SMOKE DET 2, M325(M327)(AMM 26-16-01).

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 16 03 00	1. EICAS status msg: CARGO DET AIR displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 107, Block 1.
26 16 04 --	1. Fire protection SYSTEM FAIL lgt illum. EICAS msg: FIRE/OVHT SYS displayed, EICAS status msg: (03=FWD, 04=AFT) CARGO DET 1 & CARGO DET 2 displayed. 2. FIM 26-16-00/101, Fig. 104, Block 1
26 16 05 --	Not Used
26 16 06 00	1. EICAS msg AFT DET FAN displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 105, Block 1
26 16 07 00	1. EICAS msg FWD DET FAN displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 106, Block 1
26 16 08 --	1. (03=Fwd, 04=Aft) CARGO FIRE lgts remained extin or appropriate EICAS msg did not display during test. Other indications normal. 2. Replace AFOLTS card M10427 (AMM 26-10-01)
26 16 09 00	1. EICAS msg FWD CARGO DET 1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 108, Block 1
26 16 10 00	1. EICAS msg FWD CARGO DET 2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 108, Block 1

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 16 11 00	1. EICAS msg AFT CARGO DET 1 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 108, Block 1
26 16 12 00	1. EICAS msg AFT CARGO DET 2 displayed (Ref Chapter 31 for fault code diagram). 2. FIM 26-16-00/101, Fig. 108, Block 1
26 16 13 00	1. EICAS status msg: CARGO DET AIR displayed. 2. FIM 26-16-00/101, Fig. 107, Block 1
26 17 01 --	Not Used
26 17 02 --	Not Used
26 17 03 --	Not Used
26 17 04 00	1. WHEEL WELL FIRE lgt illum. EICAS msg: WHEEL WELL FIRE displayed. Brake temp was normal. Lgt did not extin after gear extension. 2. FIM 26-17-00/101, Fig. 103, Block 15
26 17 05 00	1. WHEEL WELL FIRE lgt failed to illum during test. 2. FIM 26-17-00/101, Fig. 103, Block 1
26 17 06 --	1. WHEEL WELL FIRE and BRAKE TEMP lgts illum. EICAS msg WHEEL WELL FIRE displayed. Lgts extinguish after gear extension. Brake No. (05=1, 06=2, 09=3, 10=4, 11=5, 12=6, 13=7, 14=8) temp indicated high. 2. Inspect wheel well area for fire damage and repair as necessary. Perform heat damage inspection/evaluation/repair per SRM 51-20-03 Fire Damage Evaluation.

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 17 07 --	1. WHEEL WELL FIRE and BRAKE TEMP lgts illum. EICAS msg WHEEL WELL FIRE displayed. Lgts extinguish after gear extension. Gear (01=L, 02=R) brake temps indicated high. 2. Inspect wheel well area for fire damage and repair as necessary. Perform heat damage inspection/evaluation/repair per SRM 51-20-03 Fire Damage Evaluation.
26 17 08 00	1. WHEEL WELL FIRE and BRAKE TEMP lgts illum. EICAS msg: WHEEL WELL FIRE displayed. Lgts extinguish after gear extension. All brake temps indicated high. 2. Inspect wheel well area for fire damage and repair as necessary. Perform heat damage inspection/evaluation/repair per SRM 51-20-03 Fire Damage Evaluation.
26 17 09 00	1. WHEEL WELL FIRE lgt illum. EICAS msg: WHEEL WELL FIRE displayed. Brake temp was normal. Lgt extinguishes after gear extension. 2. Inspect wheel well for fire damage and repair as necessary. Perform heat damage inspection/evaluation/repair per SRM 51-20-03 Fire Damage Evaluation.
26 18 01 --	1. (01=L, 02=R) DUCT LEAK lgt illum. EICAS msg (L, R) BLD DUCT LEAK displayed. Lgt extin after eng bleed air supply and isolation valves closed. (Ref Chapter 36 for fault code diagram). 2. Repair duct leak in wing leading edge by realigning duct clamps, or repairing or replacing leaking duct section (AMM 36-11-01). Do a conductivity test of the keel beam structure to make sure the heat treat has not been degraded (SRM 51-20-02).
26 18 02 --	1. (01=L, 02=R) DUCT LEAK lgt illum. EICAS msg: (L, R) BLD DUCT LEAK displayed. Lgt remained illum after eng bleed supply and isolation valves closed. (Ref Chapter 36 for fault code diagram). 2. FIM 26-18-00/101, Fig. 104, Block 1

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 18 03 00	1. Body DUCT LEAK lgt illum. EICAS msg: BODY DUCT LEAK displayed. Lgt extin after C ISLN valve closed. (Ref Chapter 36 for fault code diagram). 2. Repair body duct leak by realigning duct clamps, or repairing or replacing leaking duct section (AMM 36-11-01). Do a conductivity test of the keel beam structure to make sure the heat treat has not been degraded (SRM 51-20-02).
26 18 04 00	1. Body DUCT LEAK lgt illum. EICAS msg: BODY DUCT LEAK displayed. Lgt did not extin after C ISLN valve closed. (Ref Chapter 36 for fault code diagram). 2. FIM 26-18-00/101, Fig. 104, Block 1
26 18 05 --	1. (01=L, 02=R, 03=BODY) DUCT LEAK light did not illum during test. (Ref Chapter 36 for fault code diagram). 2. FIM 26-18-00/101, Fig. 104, Block 1
26 18 06 00	1. L, R & BODY DUCT LEAK lights did not illum during test. (Ref Chapter 36 for fault code diagram). 2. FIM 26-18-00/101, Fig. 104, Block 1
26 18 07 00	1. Center pneumatic DUCT LEAK light illum. Duct press is normal with APU operating. EICAS message reads BODY DUCT LEAK (Ref Chapter 36 for fault code diagram). 2. FIM 26-18-00/101, Fig. 104, Block 1 If BITE checks good, check and repair body duct leak by realigning duct clamps, or repairing or replacing leaking duct section (AMM 36-11-01).
26 18 08 -- thru 26 18 19 --	Not Used

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 18 20 --	1. EICAS msg (O1=L, O2=R) STRUT DCT LEAK displayed, DUCT LEAK lgt illum. Lgt extin after eng bleed air supply and isolation valves closed. 2. FIM 26-18-00/101, Fig. 104, Block 1
26 18 21 --	1. EICAS msg (O1=L, O2=R) STRUT DCT LEAK displayed, DUCT LEAK lgt illum. Lgt extin after eng bleed air supply and isolation valves closed. 2. FIM 26-18-00/101, Fig. 104, Block 1
26 18 22 --	1. (O1=L, O2=R) DUCT LEAK light did not illum during test. 2. FIM 26-18-00/101, Fig. 104, Block 1
26 18 23 00	1. L & R DUCT LEAK lights did not illum during test. 2. FIM 26-18-00/101, Fig. 104, Block 1
26 21 01 --	1. (O1=L, O2=R) ENGINE FIRE indicated. EICAS msg (L, R) ENGINE FIRE displayed. Fire indication(s) stopped when FIRE SWITCH pulled. 2. Push fire switch handle back to the vertical stowed position. Inspect engine for evidence of fire or overheat condition. Look for possible fuel or hydraulic fluid leaks and damaged pneumatic ducts. Repair as necessary. If the Hydraulic engine-drive pump has operated for more than 5 minutes without hydraulic fluid, do this task: EDP-Removal/Installation (AMM 29-11-05/401).
26 21 02 --	1. (O1=L, O2=R) ENGINE FIRE indicated. EICAS msg (L, R) ENGINE FIRE displayed. Fire indication(s) stopped when FIRE SWITCH pulled and first bottle discharged. 2. Push fire switch handle back to the vertical stowed position. Inspect engine for evidence of fire or overheat condition. Look for possible fuel or hydraulic fluid leaks and damaged pneumatic ducts. Repair as necessary. If the Hydraulic engine-drive pump has operated for more than 5 minutes without hydraulic fluid, do this task: EDP-Removal/Installation (AMM 29-11-05/401). 3. Replace engine fire extinguisher bottle No. 1 (AMM 26-21-03/401).

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 21 03 --	1. (O1=L, O2=R) ENGINE FIRE indicated. EICAS msg (L, R) ENGINE FIRE displayed. Fire indication(s) stopped when FIRE SWITCH pulled and both bottles discharged. 2. Push fire switch handle back to the vertical stowed position. Inspect engine for evidence of fire or overheat condition. Look for possible fuel or hydraulic fluid leaks and damaged pneumatic ducts. Repair as necessary. If the Hydraulic engine-drive pump has operated for more than 5 minutes without hydraulic fluid, do this task: EDP-Removal/Installation (AMM 29-11-05/401). 3. Replace engine fire extinguisher bottle No. 1 and No. 2 (AMM 26-21-03/401).
26 21 04 --	1. (O1=L, O2=R) ENGINE FIRE indicated. EICAS msg (L, R) ENGINE FIRE displayed. Fire indication(s) continued when FIRE SWITCH pulled and both bottles discharged. 2. Replace engine fire extinguisher bottle No. 1 and No. 2 (AMM 26-21-03/401). Push fire switch handle back to the vertical stowed position. Inspect engine for evidence of fire or overheat condition. Look for possible fuel or hydraulic fluid leaks and damaged pneumatic ducts. Repair as necessary. If the Hydraulic engine-drive pump has operated for more than 5 minutes without hydraulic fluid, do this task: EDP-Removal/Installation (AMM 29-11-05/401). 3. If no fire, replace AFOLTS card for engine fire detection (AMM 26-10-01/401).
26 21 05 --	1. (O1=L, O2=R) ENG squib lgt failed to illum during test 2. 2. Push-to-test light. If light ok, replace engine fire extinguisher bottle No. 2 squib cartridge where fault occurs (AMM 26-21-03). If not ok, relamp light.
26 21 06 --	1. (O1=L, O2=R) ENG squib lgt failed to illum during test 1. 2. Push-to-test light. If light ok, replace engine fire extinguisher bottle No. 1 squib cartridge where fault occurs (AMM 26-21-03).

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 21 07 --	1. (01=L, 02=R) ENG squib lgt failed to illum during test 1 and 2. 2. Push-to-test light. If light ok, replace squib test panel (AMM 26-21-04). If not ok, relamp light.
26 21 08 --	1. (1,2) ENG BTL DISCH lgt illum, EICAS msg (05=1, 06=2, 08=Both 1 and 2) (L,R) ENG BTL (1,2) displayed. Disch switch not used. 2. Replace engine fire extinguisher bottle where fault occurs (AMM 26-21-03).
26 21 09 --	1. (1,2) ENG BTL DISCH lgt illum, EICAS msg (05=1, 06=2, 08=Both 1 and 2) (L,R) ENG BTL (1,2) displayed. Bottle was disch by switch. 2. Replace engine fire extinguisher bottle that was extinguished (AMM 26-21-03).
26 21 10 --	1. (01=L, 02=R) eng had intermittent ENGINE FIRE indication. 2. Reseat circuit cards in P54. Check detector connectors for contaminated or damaged pin, socket, insulation or pushed back pin. Tighten connectors securely. Check continuity of detector while moving (vibrating) detector.
26 22 01 00	1. APU fire indicated. EICAS msg APU FIRE displayed. APU fire sw pulled and fire btls discharged. APU fire indication(s) stopped. 2. Inspect APU for fire damage and repair as necessary. Replace APU fire extinguisher bottle(s) (AMM 26-22-02).
26 22 02 00	1. APU fire indicated. EICAS msg APU FIRE displayed. APU fire sw pulled and fire btl discharged. APU fire indication(s) remained. 2. Replace extinguisher bottle (AMM 26-22-02). Replace AFOLTS card for APU fire detection (AMM 26-10-01).

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 22 03 00	1. APU squib lgt failed to illum during test 1. 2. Push-to-test light. If light ok, replace APU fire extinguisher bottle squib cartridge (AMM 26-22-02). If not ok, relamp light.
26 22 04 00	1. APU squib Lgt failed to illum during test 2. 2. Push-to-test light. If light ok, replace APU fire extinguisher bottle No. 2 squib cartridge (AMM 26-22-02). If not ok, relamp light.
26 22 05 00	1. APU squib lgt failed to illum during test 1. 2. Push-to-test light. If light ok, replace APU fire extinguisher bottle No. 1 squib cartridge (AMM 26-22-02). If not ok, relamp light.
26 22 06 00	1. APU squib lgt failed to illum during test 1 and 2. 2. Push-to-test light. If light ok, replace squib test control panel (AMM 26-21-04). If not ok, relamp light.
26 22 07 00	1. APU BTL DISCH lgt illum, EICAS msg APU BTL displayed. Disch switch not used. 2. Replace APU fire extinguisher bottle (AMM 26-22-02).
26 22 08 00	1. APU BTL DISCH lgt illum, EICAS msg APU BTL displayed. Bottle was disch by switch. 2. Replace APU fire extinguisher bottle (AMM 26-22-02).
26 22 09 --	1. (05=1, 06=2, 08=Both 1 and 2) APU BTL DISCH lgt illum. EICAS msg APU BTL (1, 2) displayed. Disch switch not used. 2. Replace APU fire extinguisher bottle(s) (AMM 26-22-02).

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 22 10 --	1. (05=1, 06=2, 08=Both 1 and 2) APU BTL DISCH lgt illum. EICAS msg APU BTL (1, 2) displayed. Bottle was disch by switch. 2. Replace APU fire extinguisher bottle(s) (AMM 26-22-02).
26 23 01 -- thru 26 23 03 --	Not Used
26 23 04 --	1. (05=1, 06=2, 07=2A) CARGO squib lgt failed to illum during test 2. 2. Push-to-test light. If light ok, replace aft squib on bottle that failed to illuminate during test 2 (AMM 26-23-02). If not ok, relamp light.
26 23 05 --	1. (05=1, 06=2, 07=2A) CARGO squib lgt failed to illum during test 1. 2. Push-to-test light. If light ok, replace fwd squib on bottle that failed to illuminate during test 1 (AMM 26-23-02). If not ok, relamp light.
26 23 06 --	1. (05=1, 06=2, 07=2A) CARGO squib lgt failed to illum during test 1 and 2. 2. Replace squib test control panel M32 (AMM 26-21-04).
26 23 07 --	1. CARGO BTL DISCH lgt illum, EICAS msg (05=1, 06=2, 08=both 1 & 2) CARGO BTL displayed. Disch switch not used. 2. Clear EICAS display. If message still occurs continue. 3. (05=1) FIM 26-23-00/101, Fig. 103, Block 1 (06=2) FIM 26-23-00/101, Fig. 104, Block 1 (08=both 1 & 2) Replace B19, B20, and B231 cargo fire extinguishing bottles 1, 2 and 2A (AMM 26-23-02). Check reset button on pressure switches S633 and S661 in forward cargo compartment discharge line and S662 in aft cargo compartment discharge line and reset if extended.

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FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
26 23 08 00	1. CARGO BTL DISCH lgt illum, EICAS msg CARGO BTL 1 & 2, displayed. Bottles were disch by switch. 2. Replace B19, B20 and B231 cargo fire extinguishing bottles 1, 2, and 2A (AMM 26-23-02). Check reset button on pressure switches S633 and S661 in forward cargo compartment discharge line and S662 in aft cargo compartment discharge line and reset if extended.
26 23 09 --	Not Used
26 23 10 --	Not Used
26 23 11 --	Not Used
26 23 12 --	Not Used
26 23 13 --	1. (03=FWD, 04=AFT) CARGO FIRE indicated. EICAS msg (FWD, AFT) CARGO FIRE displayed. Fire indication(s) stopped when bottles discharged. 2. (03=FWD) FIM 26-23-00/101, Fig. 105, Block 1 (04=AFT) FIM 26-23-00/101, Fig. 106, Block 1
26 23 14 --	1. (03=FWD, 04=AFT) CARGO FIRE indicated. EICAS msg (FWD, AFT) CARGO FIRE displayed. Fire indication(s) remained after bottles discharged. 2. (03=FWD) FIM 26-23-00/101, Fig. 107, Block 1 (04=AFT) FIM 26-23-00/101, Fig. 108, Block 1

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BITE Index

1. General
   A. Use this index to find the BITE procedure for the applicable LRU/System.
   B. The BITE procedure will provide the fault isolation instructions for the fault indications/LRU maintenance messages.

LRU/System Name	Acronym	FIM Reference
ACARS Management Unit		23-22
Air Data Computer	ADC	34-12
Air Data Inertial Reference Unit	ADIRU	34-26
Air Supply Control and Test Unit	ASCTU	36-20
Air Traffic Control Transponder	ATC	34-53
Airborne Vibration Monitor Signal Conditioner	AVM	77-31
Antiskid/Autobrake Control Unit	AACU	32-42
APU Fire Detection System		26-15
Automatic Direction Finder Receiver	ADF	34-57
Automatic Fire/Overheat Logic/Test System	AFOLTS	26-10
APU Control Unit (or Electronic Control Unit)	ECU	49-11
Autopilot/Flight Director	AFDS	22-00
Auxiliary Zone Temperature Controller	AZTC	2160/21-61
Brake Temperature Monitor Unit	BTMU	32-46
Bus Power Control Unit	BPCU	24-20
Cabin Pressure Controller	CPC	21-30/21-31
Cabin Temperature Controller	CTC	21-61
Digital Flight Data Acquisition Unit	DFDAU	31-31
Distance Measuring Equipment Interrogator	DME	34-55
Duct Leak (Wing and Body)		26-18
E/E Cooling Control Card (If cards installed)		21-58
ECS Bleed Configuration Card		36-10
Electronic Control Unit	ECU	49-11
Electronic Engine Control Monitor Unit (Non-FADEC Engines)	EECM	71-EECM Message Index
Electronic Flight Instrument System	EFIS	34-22

Bite Index
Figure 1 (Sheet 1)

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LRU/System Name	Acronym	FIM Reference
Engine Fire/Overheat Detection System		26-11
Engine Indication and Crew Alerting System Computer	EICAS	31-41
Enhanced Ground Proximity Warning Computer	EGPWC	34-46
Equipment Cooling Systen Controller		21-58
Equipment Cooling Temperature Controller		21-58
Flap/Slat Electronic Unit	FSEU	27-51
Flap/Stabilizer Position Module	FSPM	27-58
Flight Management Computer	FMC	34-61
Fuel Quantity Indicating System Processor	FQIS	28-41
Ground Proximity Warning Computer	GPWC	34-46
HF (High Frequency) Communication		23-11
In-Flight Entertainment Equipment Cooling Card		21-58
Inertial Reference Unit	IRU	34-21
Instrument Comparator Unit	ICU	34-25
Instrument Landing System Receiver	ILS	34-31
Large Format Display System	LFDS	31-63
Lower Cargo Compartment Smoke Detection System		26-16
Maintenance Control Display Panel	MCDP	22-00
Multi-Mode Receiver	MMR	34-31
PA (Passenger Address) Amplifier		23-31
Pack Standby Temperature Controller	PSTC	21-51
Pack Temperature Controller	PTC	21-51
Passenger Entertainment System	PES	23-34
Power Supply Module (Control System Electronics Units)	PSM	27-09
Propulsion Interface and Monitor Unit (FADEC Engines)	PIMU	71-PIMU Message Index
Proximity Switch Electronics Unit	PSEU	32-09

Bite Index
Figure 1 (Sheet 2)

K42797

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LRU/System Name	Acronym	FIM Reference
Radio Altimeter Transmitter/Receiver	RA	34-33
Rudder Ratio Changer Module	RRCM	27-09
Satellite Data Unit	SDU	23-25
Spoiler Control Module	SCM	27-09
Stabilizer Trim/Elevator Asymmetry Limit Module	SAM	27-09
Stall Warning Computer/Module (in Warning Electronic Unit)	SWC	27-32
Strut Overheat Detection System (RR Engines)		26-12
Thrust Management Computer/Autothrottle	TMC	22-00
Traffic Alert and Collision Avoidance Computer	TCAS	34-45
VHF (Very High Frequency) Communication		23-12
VOR/Marker Beacon Receiver	VOR/MKR	34-51
Warning Electronic Unit BITE Module (Stall Warning)	WEU	27-32
Weather Radar Transceiver	WXR	34-43
Wheel Well Fire Detection		26-17
Window Heat Control Unit	WHCU	30-41
Yaw Damper Module	YDM	22-21
Yaw Damper/Stabilizer Trim Module	YSM	27-09
Zone Temperature Controller	ZTC	21-60/21-61

Bite Index
Figure 1 (Sheet 3)

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DETECTION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CARD - AUTO FIRE/OVHT LOGIC/TEST SYS, M10224	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - AUTO FIRE/OVHT LOGIC/TEST SYS, M10274	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - AUTO FIRE/OVHT LOGIC/TEST SYS, M10400	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - AUTO FIRE/OVHT LOGIC/TEST SYS, M10427	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - DUCT LEAK AND WHEEL WELL OVHT, M691	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 1 FIRE DET APU, M685	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 1 FIRE DET LEFT, M681	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 1 FIRE DET RIGHT, M683	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 1 OVHT DET LEFT, M687	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 1 OVHT DET RIGHT, M689	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 2 FIRE DET APU, M686	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 2 FIRE DET LEFT, M682	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 2 FIRE DET RIGHT, M684	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 2 OVHT DET LEFT, M688	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD - LOOP 2 OVHT DET RIGHT, M690	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01

Detection - Component Index
Figure 101

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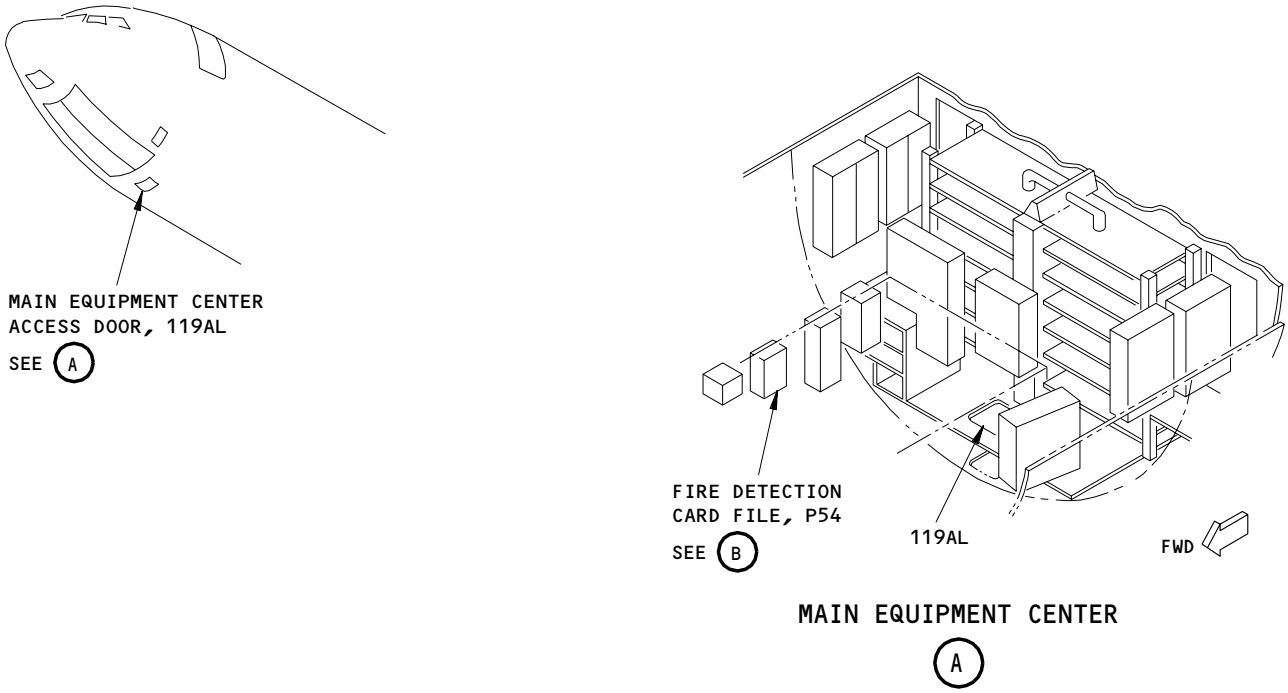
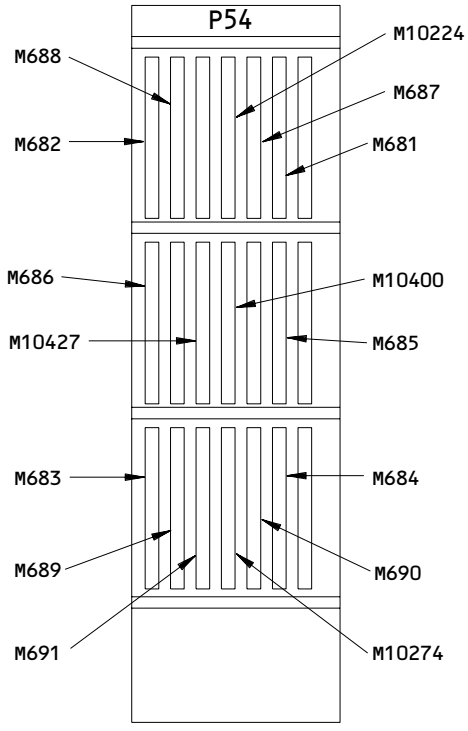


MAIN EQUIPMENT CENTER

A



FIRE DETECTION CARD FILE, P54

B

Detection - Component Location
Figure 102

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PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11B19, 11B20, 11B21, 11B22, 11B23, 11B24, 11B25, 11B26, 11B27, 11B29, 11B30, 11B31, 11B32, 11B34,

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

AFOLTS CARD BITE PROCEDURE

AFOLTS Card Bite Procedure
Figure 103

L72828

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ENGINE FIRE DETECTION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CARD FILE P54 - (26-10-00/101)				
CIRCUIT BREAKERS -	2		FLIGHT COMPARTMENT, P11	
L ALTERNATE POWER FIRE DETECTION ENGINE C763		1	11K30	*
R ALTERNATE POWER FIRE DETECTION ENGINE C764		1	11K31	*
L ALTERNATE POWER OVHT DETECT ENGINE C767		1	11K34	*
R ALTERNATE POWER OVHT DETECT ENGINE C768		1	11K35	*
FIRE DETECTION LEFT ENGINE 1, C774		1	11B20	*
FIRE DETECTION LEFT ENGINE 2, C783		1	11B21	*
FIRE DETECTION RIGHT ENGINE 1, C775		1	11B22	*
FIRE DETECTION RIGHT ENGINE 2, C784		1	11B23	*
FIRE SWITCH UNLOCK, C793		1	11B19	*
OVERHEAT DETECT L ENGINE 1, C789		1	11B29	*
OVERHEAT DETECT L ENGINE 2, C790		1	11B30	*
OVERHEAT DETECT R ENGINE 1, C791		1	11B31	*
OVERHEAT DETECT R ENGINE 2, C792		1	11B32	*
ELEMENT - ENGINE FIRE DETECTOR	1	3	EACH ENGINE, COWL PANELS	26-11-02
ELEMENT - ENGINE OVERHEAT DETECTOR	1	1	EACH ENGINE, COWL PANELS	26-11-02
PANEL - FIRE/OVHT TEST, M10445	2	1	FLIGHT COMPARTMENT, P8	26-11-01

* SEE THE WDM EQUIPMENT LIST

Engine Fire Detection System - Component Index
Figure 101

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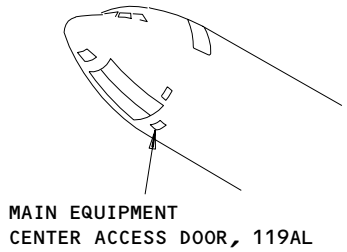
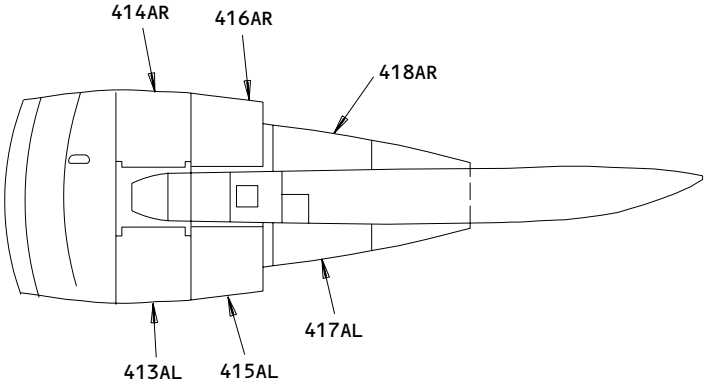
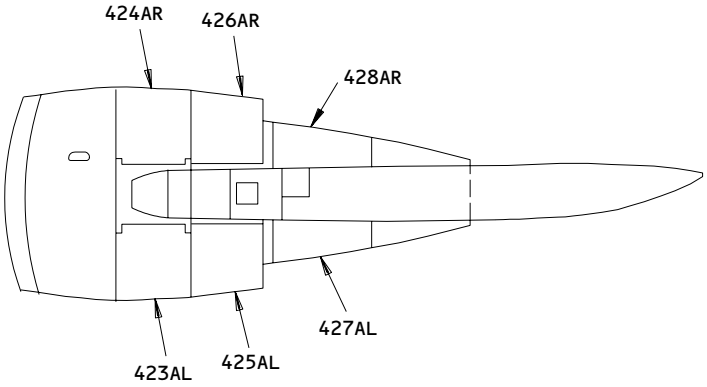




NO. 1 ENGINE
(TOP VIEW)



NO. 2 ENGINE
(TOP VIEW)

Engine Fire Detection System - Component Location
Figure 102 (Sheet 1)

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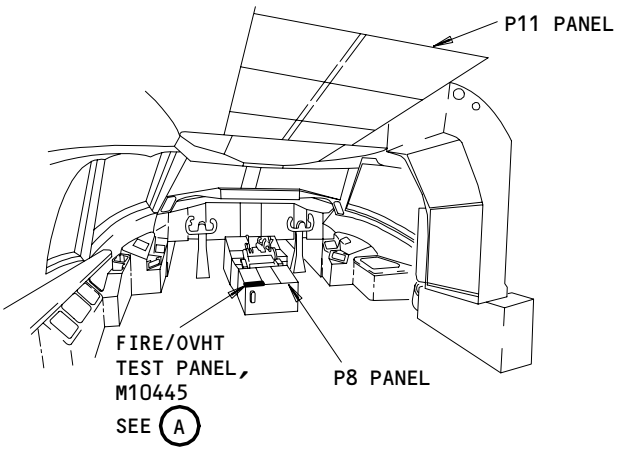
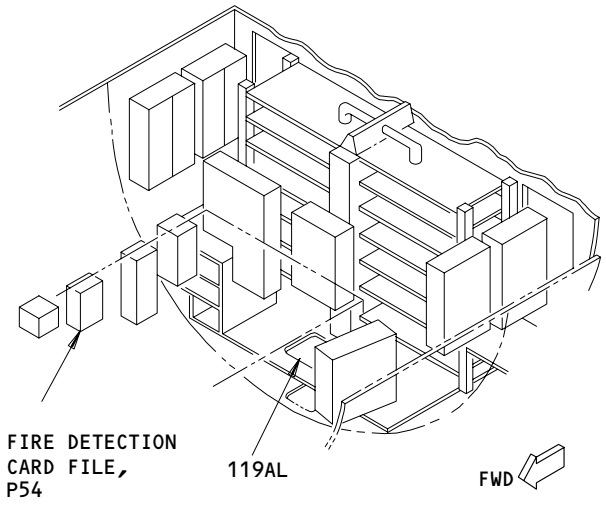
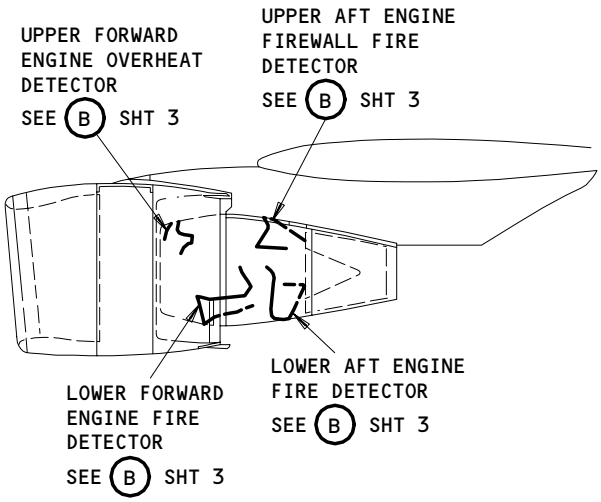


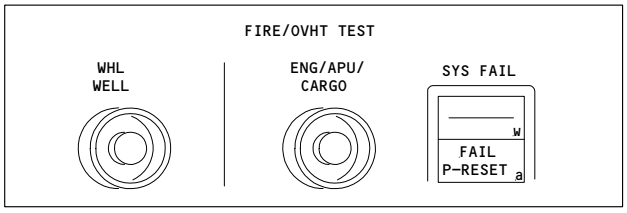
FLIGHT COMPARTMENT



MAIN EQUIPMENT CENTER



ENGINE
(LEFT SIDE)



FIRE/OVHT TEST PANEL, M10445
A

Engine Fire Detection System – Component Location
Figure 102 (Sheet 2)

33930

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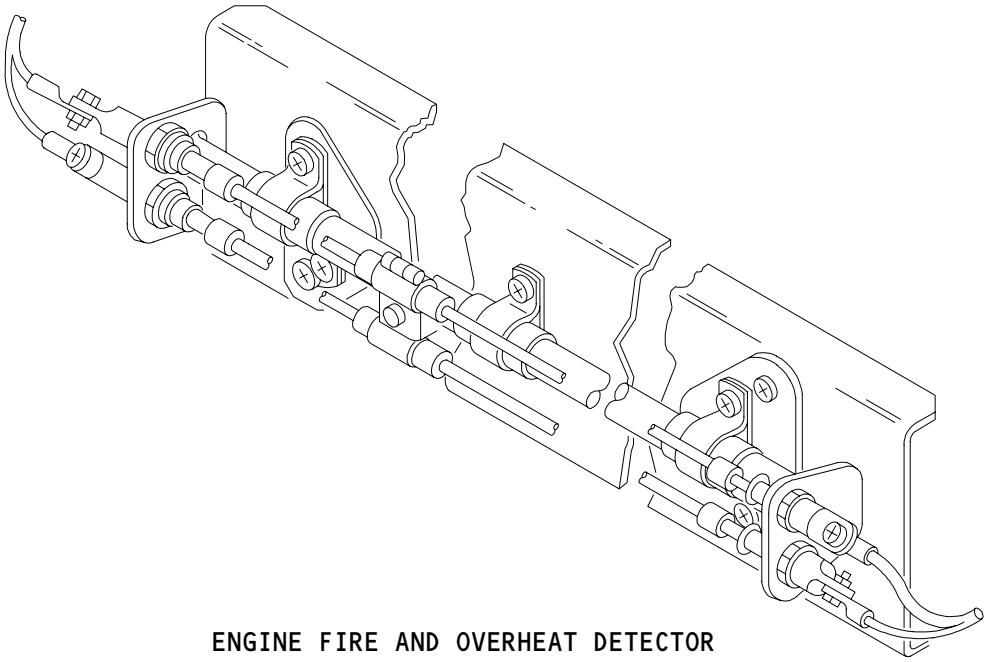

ENGINE FIRE AND OVERHEAT DETECTOR
(EXAMPLE)

B

Engine Fire and Overheat Detection – Component Location
Figure 102 (Sheet 3)

F19532

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Not Used
Figure 103

159781

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ENGINE FIRE DETECTION SYSTEM BITE PROCEDURE

PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
EICAS (AMM 31-41-00/501)
WARNING SYSTEM (AMM 31-51-00/501)
MASTER DIM AND TEST SYSTEM (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11B19, 11B20, 11B21, 11B22, 11B23, 11B29, 11B30, 11B31, 11B32, 11K30, 11K31, 11K34, 11K35

MAKE SURE THESE CIRCUIT BREAKERS ARE OPEN AND ATTACH DO-NOT-CLOSE TAGS:
6H1, 6H2, 6H3, 6H4, 11B24, 11B25, 11B26, 11B27, 11B33, 11B34, 11K32, 11K33

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

EQUIPMENT:
EXTENDER CARD G26004-39 (41 PIN); G26004-40 (66 PIN)

1 PUSH AND RELEASE THE TEST SWITCH.
ARE THESE LEFT (RIGHT) ENGINE EICAS MAINTENANCE MESSAGES SHOWN?

L (R) ENG FIRE LP 1
L (R) ENG FIRE LP 2
L (R) ENG OH LP 1
L (R) ENG OH LP 2

YES → 50 DO A CONTINUITY CHECK OF THESE DETECTOR ELEMENTS (WDM 26-11-11, -21):
1. LOWER FORWARD
2. LOWER AFT
3. FIREWALL
4. UPPER FORWARD.

DOES CONTINUITY EXIST?

NO → 100 REPLACE THE DETECTOR ELEMENT IF IT IS NECESSARY (AMM 26-11-02/401).

YES → 51 DO A CHECK OF THE FIRE DETECTION LOOP RESISTANCE FROM P54. COMPARE THE VALUES WITH TABLE B.

NOTE: EXTENDER CARD G26004-XX

DO THE VALUES AGREE WITH THOSE IN TABLE B?
MEASURE THE RESISTANCE AT BOTH PINS AT THE CONNECTOR TO THE GROUND, ONE AT A TIME. MAKE SURE THE PINS ARE NOT GROUNDED.

NO → 101 DO A CHECK OF THE ENGINE WIRES, ESPECIALLY NEAR CLAMPS.
REPLACE WIRES AS NEEDED.
CLEAN OR REPLACE CONNECTORS AS NEEDED.

YES → 102 REMOVE THE LEFT AND RIGHT AFOLTS CARDS AND INSTALL THE LEFT CARD IN THE RIGHT POSITION AND THE RIGHT CARD IN THE LEFT POSITION.
IF THE PROBLEM CONTINUES, REPLACE THE FIRE DETECTION CONTROL CARD FOR THE APPLICABLE EICAS MESSAGE THAT SHOWS (AMM 26-10-01/401).

EICAS MESSAGE	CONTROL CARD
L ENG FIRE LP 1	M681
R ENG FIRE LP 1	M683
L ENG FIRE LP 2	M682
R ENG FIRE LP 2	M684
L ENG OH LP 1	M687
R ENG OH LP 1	M689
L ENG OH LP 2	M688
R ENG OH LP 2	M690

NO → SEE SHEET 2 (BLOCK 2)

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 1)

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FROM SHEET 1
(BLOCK 1)

NO

2 WAS THE MESSAGE PREVIOUSLY SHOWN INTERMITTENT?

YES → 52 DID THE MESSAGE SHOW DURING HIGH POWER SETTINGS?

YES → 103 DO A CHECK OF THE ENGINE BLEED DUCT COUPLINGS FOR LOOSE CONNECTIONS AND LEAKS. REPAIR AS NECESSARY.

NO

NO

53 DO A CHECK OF THE FIRE DETECTION LOOP RESISTANCE FROM P54. SHAKE THE WIRES AND TAP THE DETECTORS AND LOOK FOR LOOSE CONNECTIONS AND BAD WIRES. CLEAN OR REPLACE WIRES AS NEEDED.
COMPARE THE VALUES WITH TABLE B.
DO THE VALUES AGREE WITH THOSE IN TABLE B.
MEASURE THE RESISTANCE AT BOTH PINS AT THE CONNECTOR TO THE GROUND, ONE AT A TIME. MAKE SURE THE PINS ARE NOT GROUNDED.

YES → 104 AIRPLANES WITH -136 AFOLTS CARD;
DO THIS PROCEDURE: AFOLTS CARD BITE PROCEDURE (FIM 26-10-00/101, FIG. 103).
AIRPLANES WITHOUT -136 AFOLTS CARD;
REMOVE THE LEFT AND RIGHT AFOLTS CARDS AND INSTALL THE LEFT CARD IN THE RIGHT POSITION AND THE RIGHT CARD IN THE LEFT POSITION.
IF THE PROBLEM CONTINUES, REPLACE THE FIRE DETECTION CONTROL CARD FOR THE APPLICABLE EICAS MESSAGE THAT SHOWS (AMM 26-10-01/401).

EICAS MESSAGE	CONTROL CARD
L ENG FIRE LP 1	M681
R ENG FIRE LP 1	M683
L ENG FIRE LP 2	M682
R ENG FIRE LP 2	M684
L ENG OH LP 1	M687
R ENG OH LP 1	M689
L ENG OH LP 2	M688
R ENG OH LP 2	M690

NO

105 DO A CONTINUITY CHECK OF THESE DETECTOR ELEMENTS (WDM 26-11-11, -21):
1. LOWER FORWARD
2. LOWER AFT
3. FIREWALL
4. UPPER FORWARD.
REPLACE THE DETECTOR ELEMENT IF IT IS NECESSARY (AMM 26-11-02/401).

3 PUSH THE MASTER DIM AND TEST SWITCH ON THE RIGHT LIGHTING CONTROL PANEL ON THE P5 PANEL.
DO ALL OF THESE ANNUNCIATORS COME ON?
- "L ENG OVHT" ON THE P8 PANEL
- "R ENG OVHT" ON THE P8 PANEL
- "FAIL P-RESET" ON THE FIRE/OVHT TEST PANEL ON THE P8 PANEL
- MASTER "WARNING" LIGHTS ON THE P7 PANEL
- MASTER "FIRE" LIGHT ON THE P1-3 PANEL.

NO → 54 IS THE LEFT (RIGHT) FUEL CONTROL SWITCH LIGHT ON?

NO → 106 RELAMP THE LEFT (RIGHT) ENGINE FUEL CONTROL SWITCH, YAZS1 (YAZS3) ON THE FUEL CONTROL PANEL, M73 (WDM 26-11-11, -21).

CAUTION: MAKE SURE THE CONTACT SPRING DOES NOT TOUCH THE BULB BASE. CIRCUIT DAMAGE MAY OCCUR.

EXAMINE THE CIRCUIT FROM TERMINAL BLOCK TB96, DIODE R137 (R140), TO THE LEFT (RIGHT) ENGINE FUEL CONTROL SWITCH, YAZS1 (YAZS3) (WDM 26-11-11, -21).
REPAIR THE PROBLEMS THAT YOU FIND.

YES

SEE SHEET 3
(BLOCK 4)

YES

SEE SHEET 3
(BLOCK 55)

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 2)

E80858

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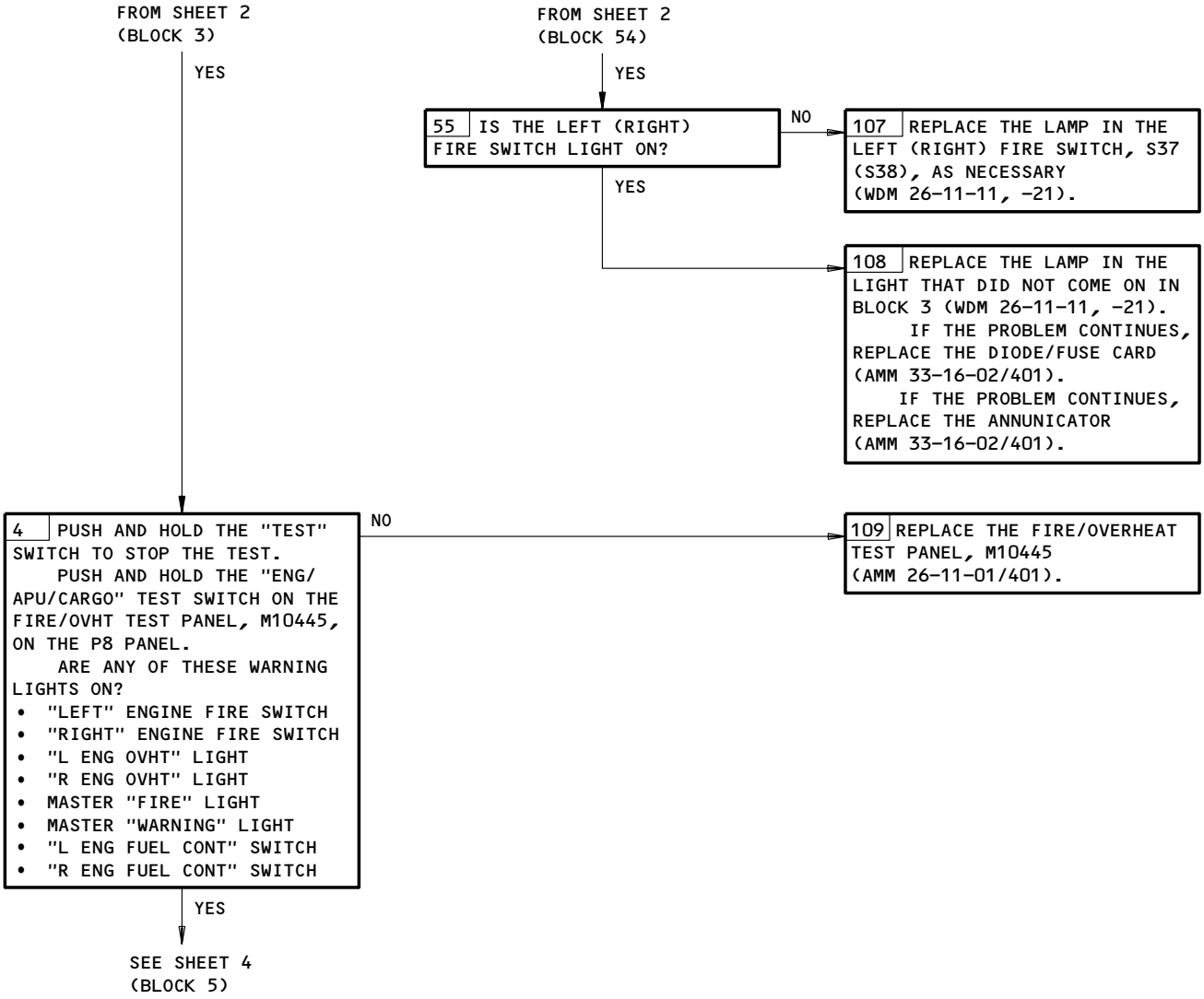

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 3)

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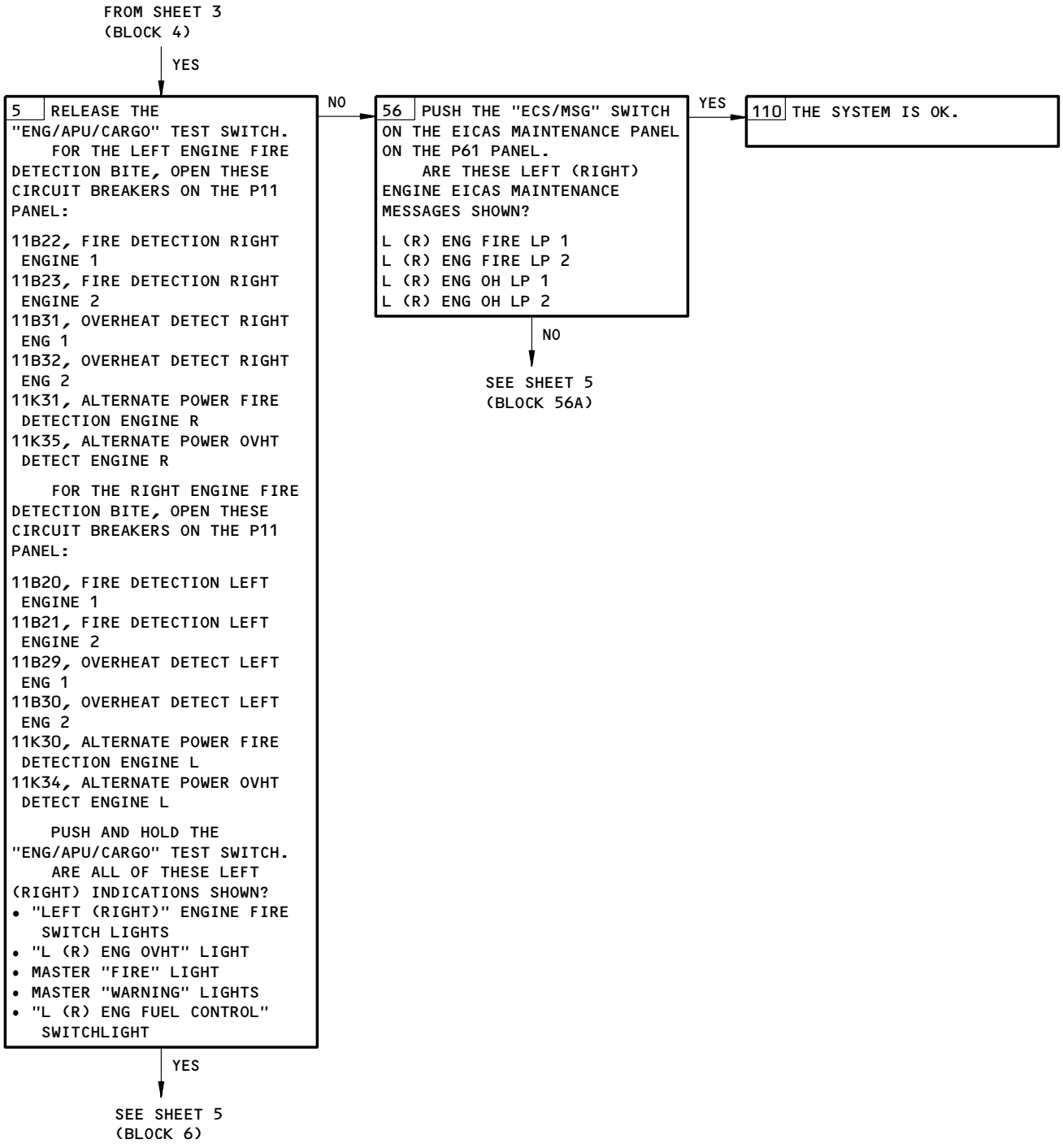

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 4)

K19861

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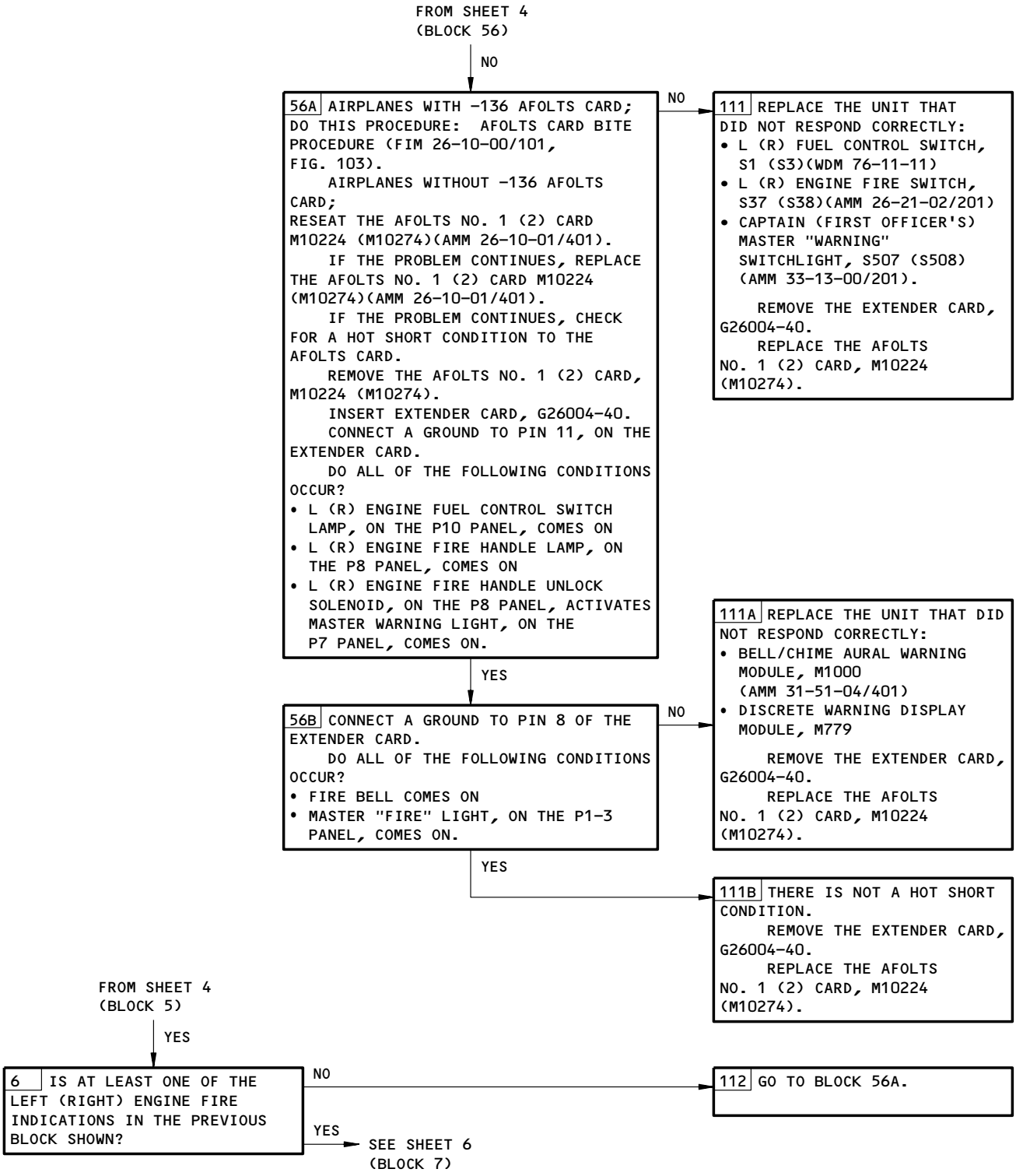

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 5)

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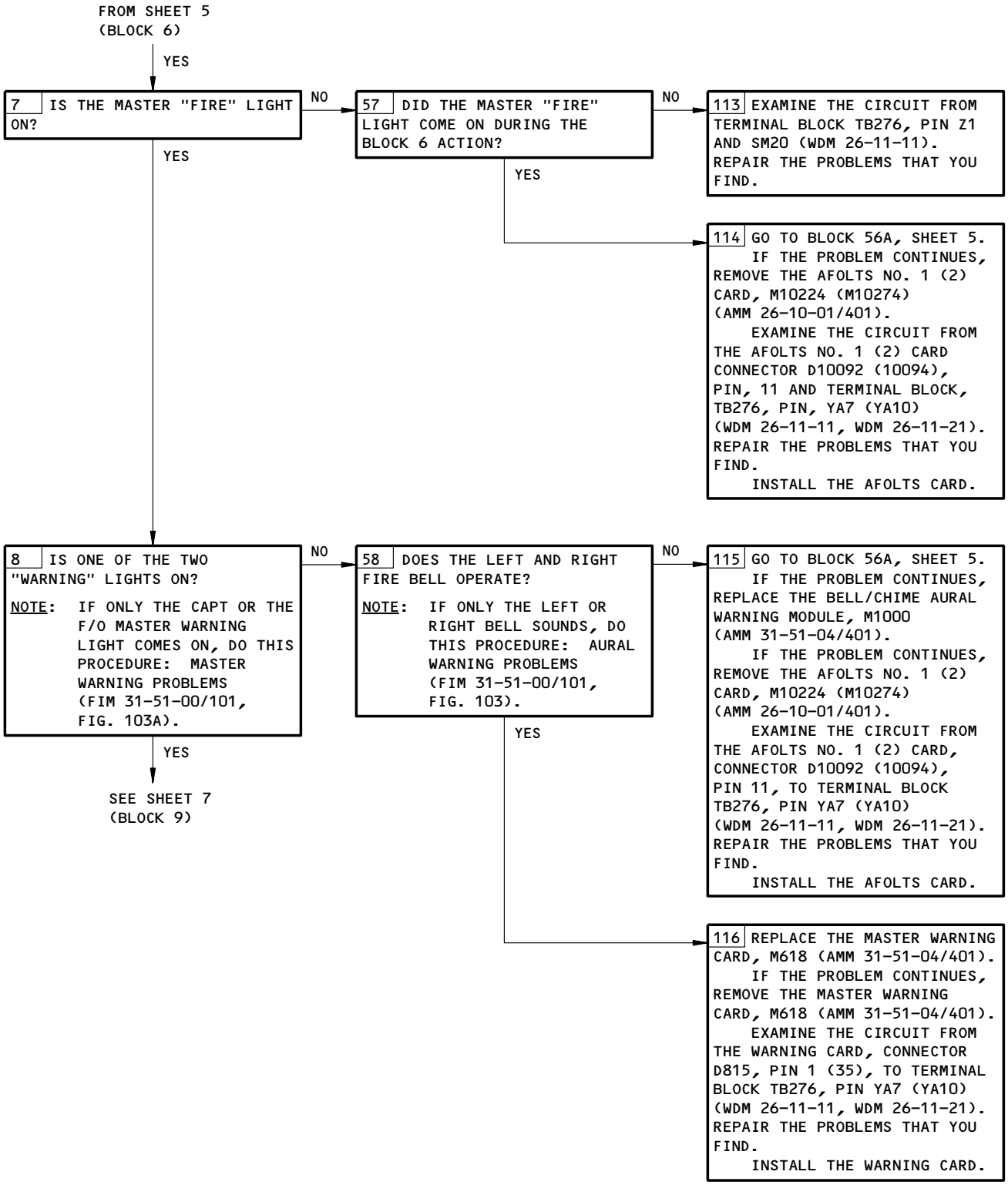

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 6)

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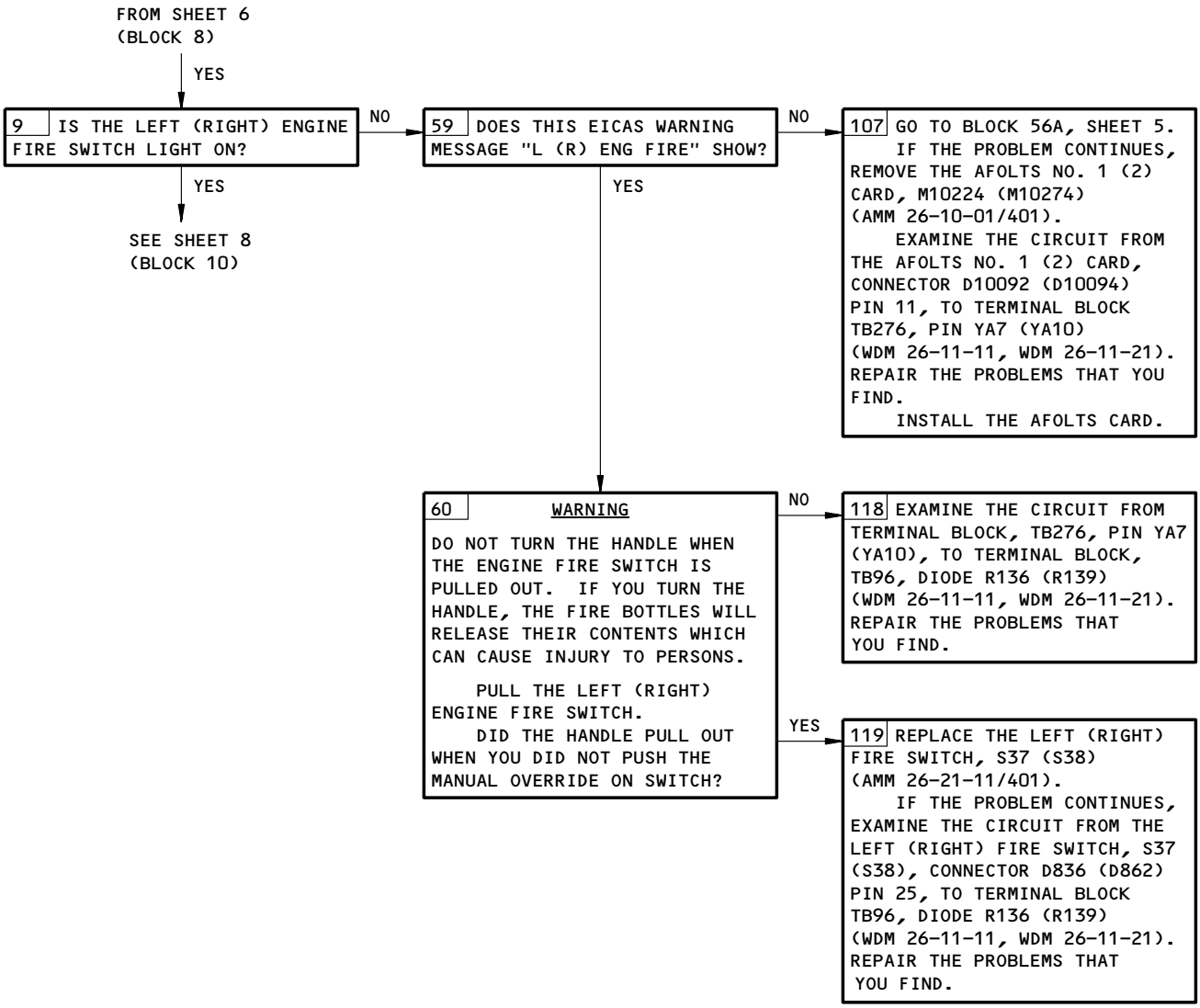

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 7)

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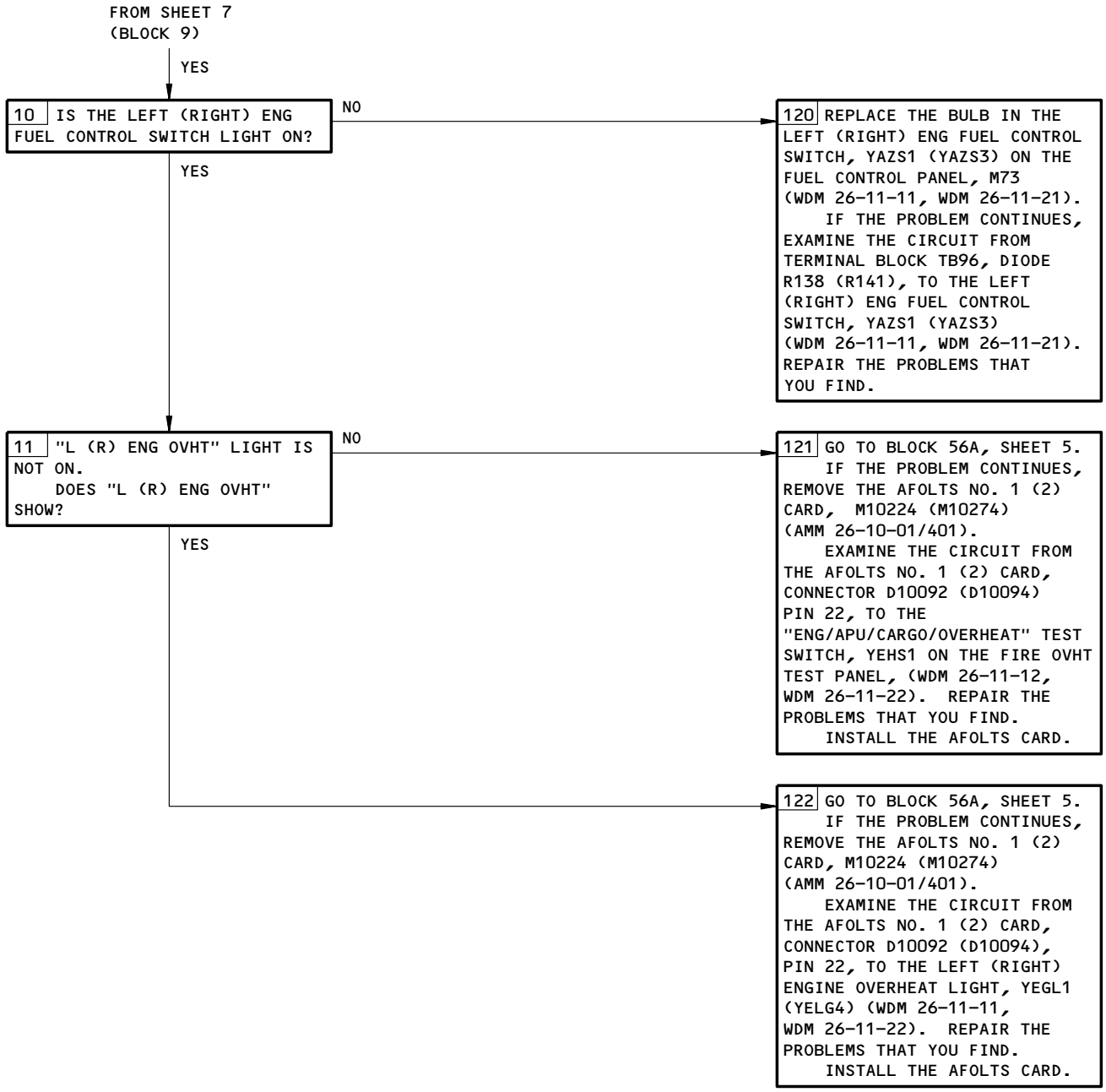

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 8)

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TABLE A NOT USED

FIRE/ OVERHEAT DETECTOR CARD	SYSTEM LOOP INTEGRITY RESISTANCE (MAX. RESISTANCE BETWEEN PINS 20 AND 21)	SYSTEM LOOP INSULATION RESISTANCE (MIN. RESISTANCE BETWEEN PINS 18 AND 21 OR 18 AND 20) IN MEG OHMS				
		°F	PW4000	JT9D	CF680C	CF680A
M681 M682 M683 M684	15.6 OHMS	60 70 80 90 100	8.4 6.2 4.5 3.3 2.4	2.7 2.0 1.47 1.0 0.79	3.6 2.63 1.94 1.42 1.03	6.3 4.0 3.3 2.4 1.78
M687 M688 M689 M690	3.7 OHMS	60 70 80 90 100	1.09 0.8 0.59 0.43 0.32	0.64 0.48 0.35 0.26 0.18	12.7 8.3 6.8 5.0 3.7	2.0 1.71 1.24 0.9 0.66

TABLE B

CAUTION: TESTS OF INSULATION RESISTANCE SHOULD BE DONE WITH A MEGOHMETER HAVING A VOLTAGE OF 100 VDC OR LESS. A MEGGER (250 VDC OR 500 VDC) CAN BE USED WHEN THE ELEMENT HAS BEEN CLEANED PROPERLY TO A "LIKE NEW" CONDITION.

NOTE: USE DIGITAL MULTIMETER OR EQUIVALENT. USE BREAK OUT CARD IF AVAILABLE.

Engine Fire Detection System BITE Procedure
Figure 104 (Sheet 9)

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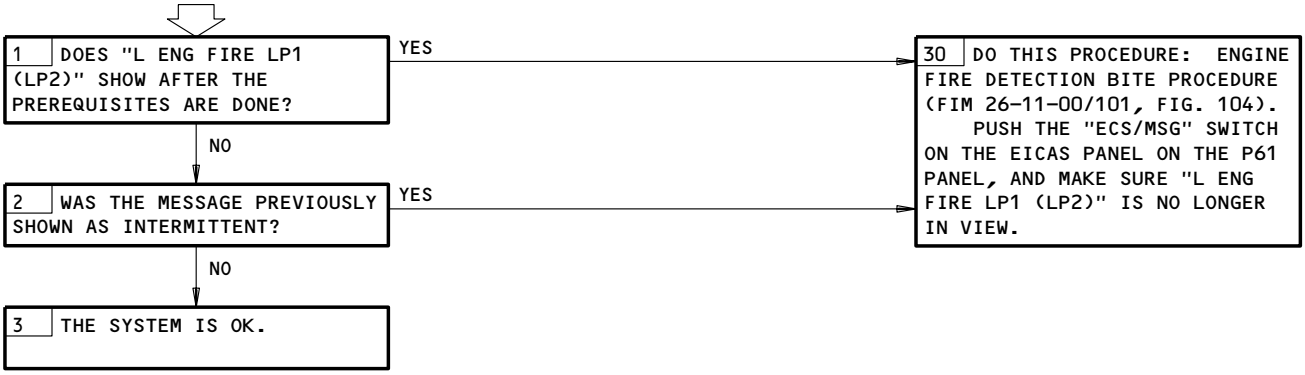
PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
EICAS (AMM 31-41-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11B19, 11B20, 11B21, 11K30

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

EICAS MESSAGE "L ENG FIRE LP1 (LP2)" DISPLAYED



EICAS Message L ENG FIRE LP1 (LP2) Displayed
Figure 105

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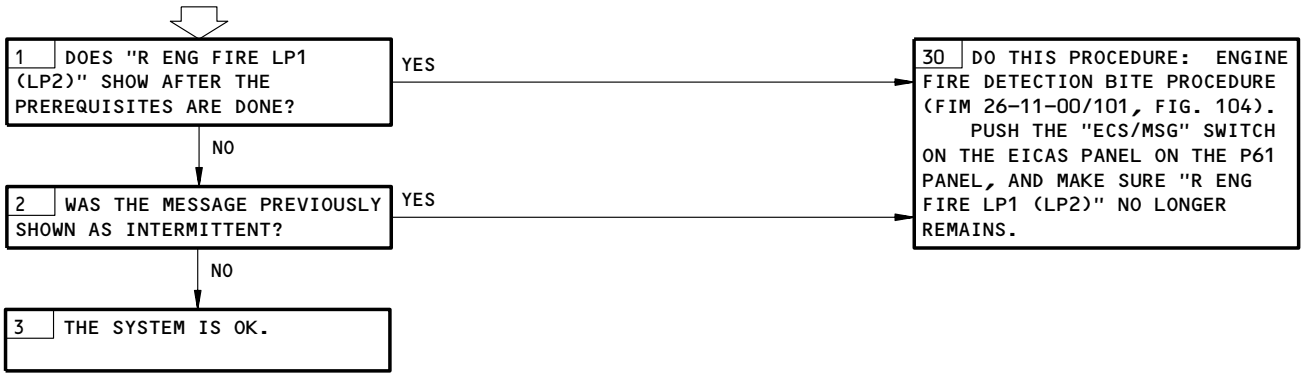
PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
EICAS (AMM 31-41-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11B19, 11B22, 11B23, 11K31

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

EICAS MESSAGE "R ENG FIRE LP1 (LP2)" DISPLAYED



EICAS Message R ENG FIRE LP1 (LP2) Displayed
Figure 106

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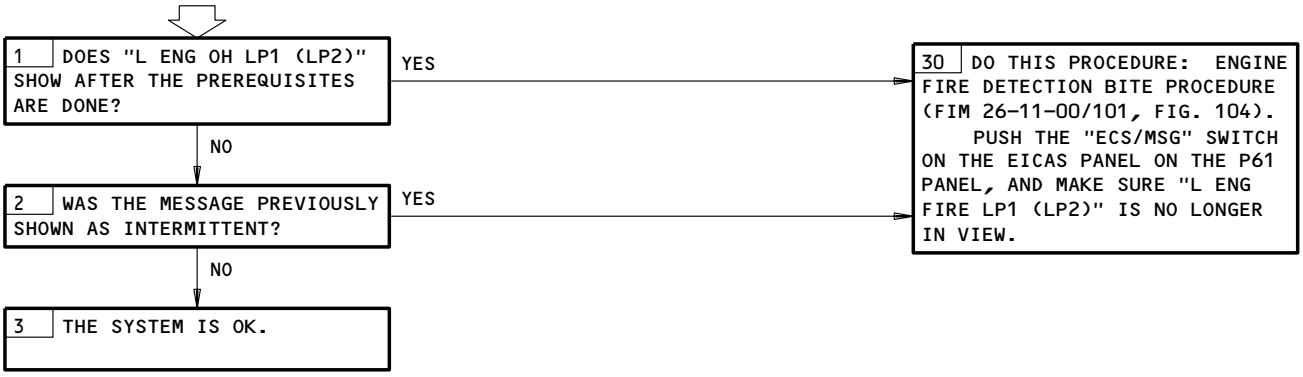
PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
EICAS (AMM 31-41-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11B29, 11B30, 11K34

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

EICAS MESSAGE "L ENG OH LP1 (LP2)" DISPLAYED



EICAS Message L ENG OH LP1 (LP2) Displayed
Figure 107

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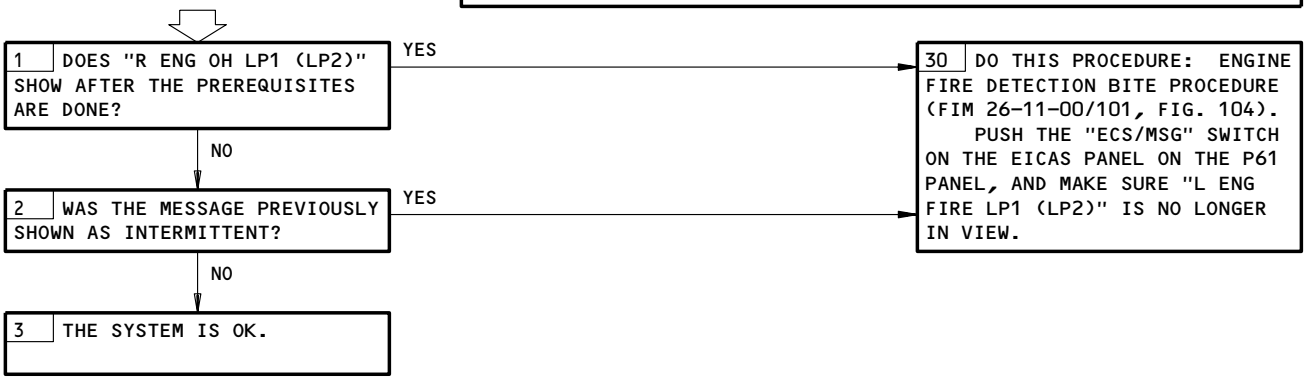
PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
EICAS (AMM 31-41-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11B31, 11B32, 11K35

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

EICAS MESSAGE "R ENG OH LP1 (LP2)" DISPLAYED



EICAS Message R ENG OH LP1 (LP2) Displayed
Figure 108

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LAVATORY SMOKE DETECTION

COMPONENT	FIG. 102 SHT.	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS			FLT COMPT, P11	
LAVATORY SMOKE DETECTORS, C770		1	11K36	*
LAVATORY SMOKE DETECTOR, M11	2	1	EACH LAVATORY	*
LAVATORY CREW SMOKE WARNING LIGHT 2>	2	7	EACH LAVATORY	*
PANEL - REMOTE SMOKE INDICATION - FWD, M1640	2	1	FWD LAVATORY	*
PANEL - REMOTE SMOKE INDICATION - AFT, M1641	2	1	AFT GALLEY	*

* SEE THE WDM EQUIPMENT LIST

2> SAS 155,164-199

Lavatory Smoke Detection - Component Index
Figure 101

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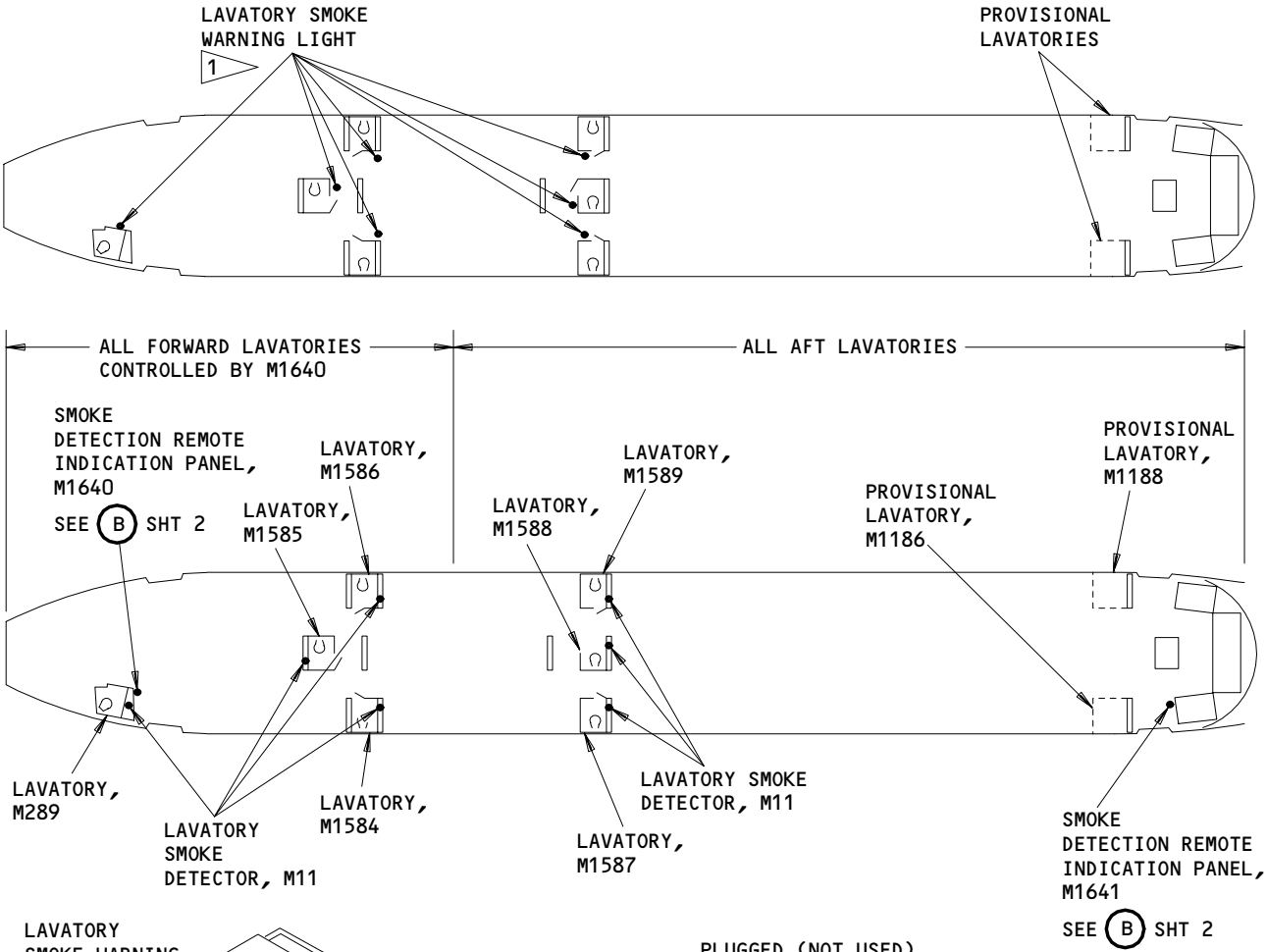
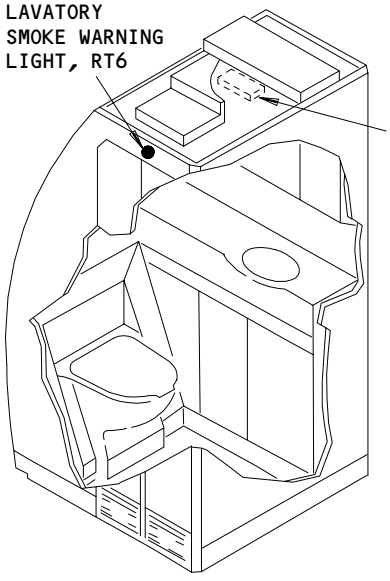
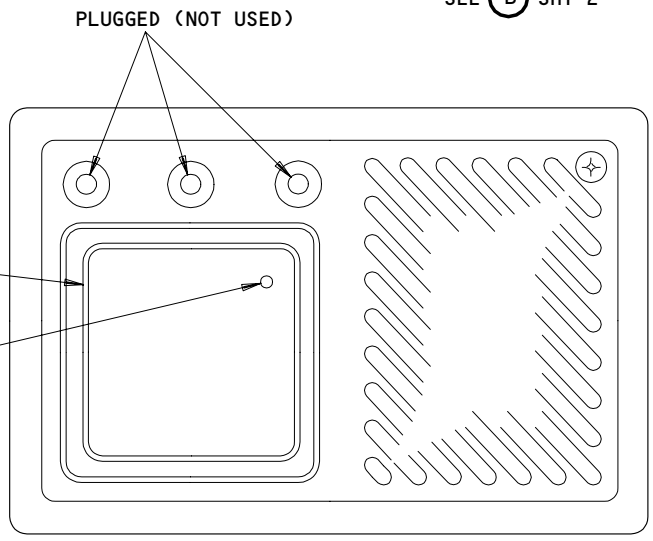




LAVATORY MODULE (EXAMPLE)



LAVATORY SMOKE DETECTOR, M11

A

1 SAS 156,164-199

Lavatory Smoke Detection - Component Location
Figure 102 (Sheet 1)

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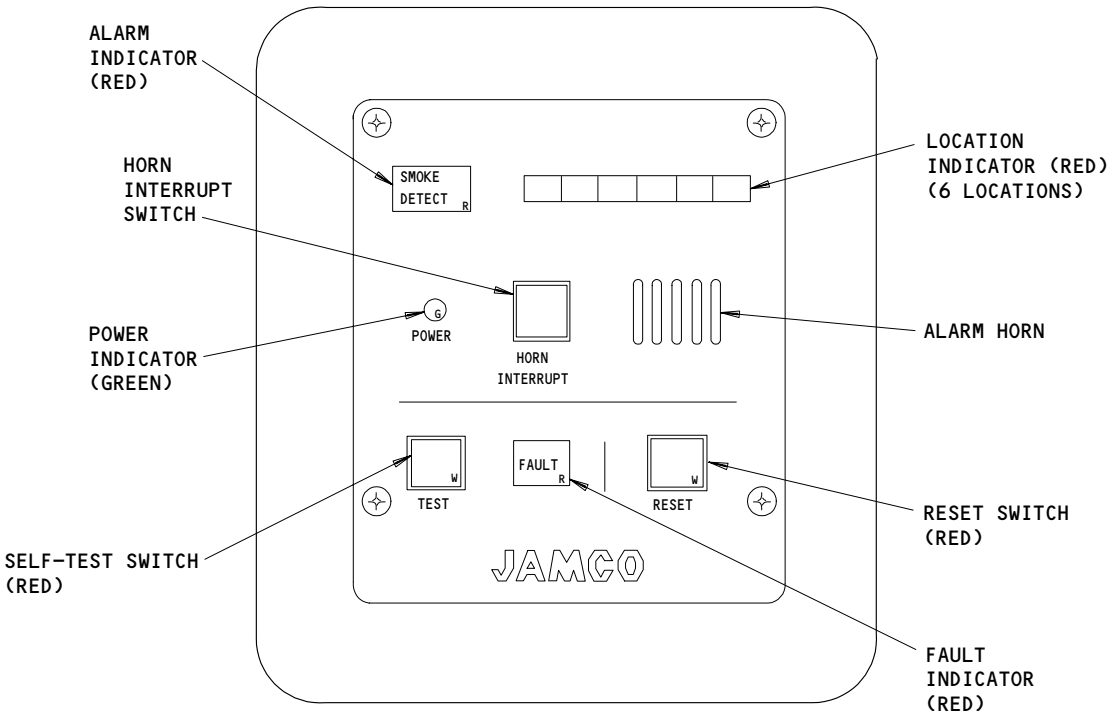
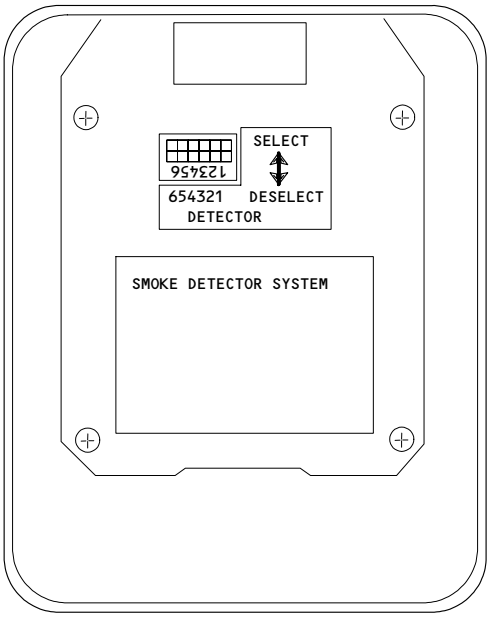
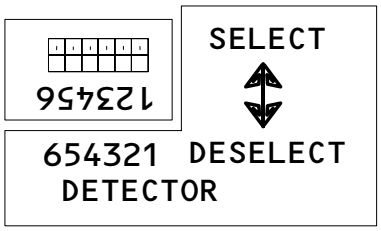


LAVATORY SMOKE DETECTOR REMOTE
INDICATION PANEL, M1640 OR M1641 (EXAMPLE)

B





NOTE: "SELECT" POSITION WHEN THE ASSOCIATED LAVATORY DETECTOR IS INSTALLED. "DESELECT" POSITION WHEN THE ASSOCIATED LAVATORY DETECTOR IS NOT INSTALLED.

LAVATORY SMOKE DETECTOR REMOTE
INDICATION REAR PANEL

B

Lavatory Smoke Detection - Component Location (Detail from Sht 1)
Figure 102 (Sheet 2)

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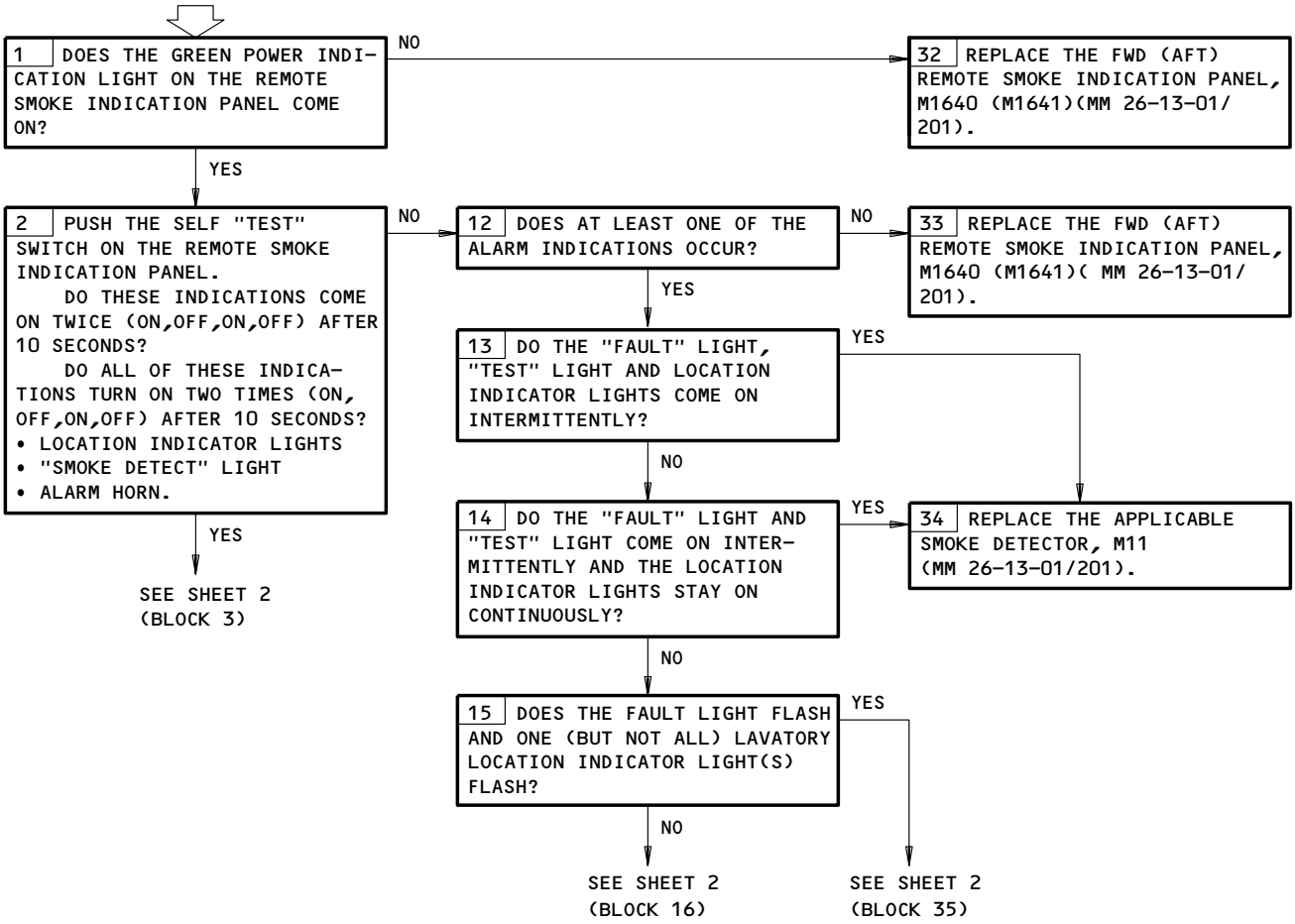
LAVATORY SMOKE DETECTION PROBLEMS

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11K36, SMOKE DETECTORS

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (MM 24-22-00/201)



Lavatory Smoke Detection Problems
Figure 103 (Sheet 1)

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FROM SHEET 1
(BLOCK 15)

YES

35 REPLACE THE LAVATORY SMOKE DETECTOR(S) APPLICABLE TO THE LAVATORY LOCATION WITH AN INDICATOR LIGHT THAT FLASHES.

IF THE PROBLEM CONTINUES, DO A CHECK OF THE WIRES BETWEEN THE SMOKE DETECTOR AND THE REMOTE INDICATION PANEL OF THE APPLICABLE DETECTOR (WDM 26-13-11).

SMOKE DETECTOR			REMOTE INDICATION PANEL		
MODULE	CONNECTOR	PIN	MODULE	CONNECTOR	PIN
M11	P20	1	M1640	D13478	7 [1]
M11	P20	1	M1641	D13552	7 [1]
M11	P20	2	M1640	D13478	11,12,23 OR 24 [2]
M11	P20	2	M1641	D13552	11,12,23,24, OR 25 [2]

IF THE PROBLEM CONTINUES, REPLACE THE REMOTE INDICATION PANEL (MM 26-13-01/201).

[1] SELF-TEST CIRCUIT
[2] LOCATION INDICATION CIRCUIT

NOTE: IF A SMOKE DETECTOR IS NOT INSTALLED, YOU MUST CAP AND STOW THE WIRES TO THE REMOTE INDICATION PANEL. YOU MUST ALSO SET THE SWITCH ON THE REAR OF THE PANEL TO "DESELECT" FOR THAT POSITION.

FROM SHEET 1
(BLOCK 2)

YES

3 MAKE SMOKE NEAR EACH SMOKE DETECTOR.

USE AN APPLICABLE SMOKE SOURCE.

DOES THE "SMOKE DETECT" LIGHT AND THE LOCATION INDICATOR LIGHT ON THE REMOTE SMOKE INDICATION PANEL THAT IS TESTED COME ON AND CAN YOU HEAR THE HORN COME ON IN A SHORT TIME?

YES

SEE SHEET 3
(BLOCK 4)

NO

FROM SHEET 1
(BLOCK 15)

NO

16 DOES THE FAULT LIGHT FLASH AND DO ALL OF THE LOCATION INDICATOR LIGHTS ON THE LAVATORY FLASH?

YES

NO

17 DOES THE ALARM HORN OPERATE INTERMITTENTLY TWO TIMES?

YES

36 REPLACE THE REMOTE SMOKE DETECTION INDICATION PANEL (MM 26-13-01/201).

NO

18 DOES AT LEAST ONE OF THE INDICATIONS OCCUR?

NO

37 REPLACE THE LAVATORY SMOKE DETECTOR (MM 26-13-01/201).

IF THE PROBLEM CONTINUES, REPLACE THE FWD (AFT) REMOTE SMOKE INDICATOR PANEL, M1640 (M1641)(MM 26-31-01/201).

YES

19 DOES THE LOCATION INDICATOR LIGHT COME ON WHEN THE SMOKE IS MADE NEXT TO THE DETECTOR?

NO

38 REPLACE THE LAVATORY SMOKE DETECTOR TO THE INDICATOR LIGHT THAT IS ON. (MM 26-13-01/201)

IF THE PROBLEM CONTINUES, REPLACE THE FWD (AFT) REMOTE SMOKE INDICATOR PANEL, M1640 (M1641)(MM 26-13-01/201).

YES

SEE SHEET 3
(BLOCK 20)

Lavatory Smoke Detection Problems
Figure 103 (Sheet 2)

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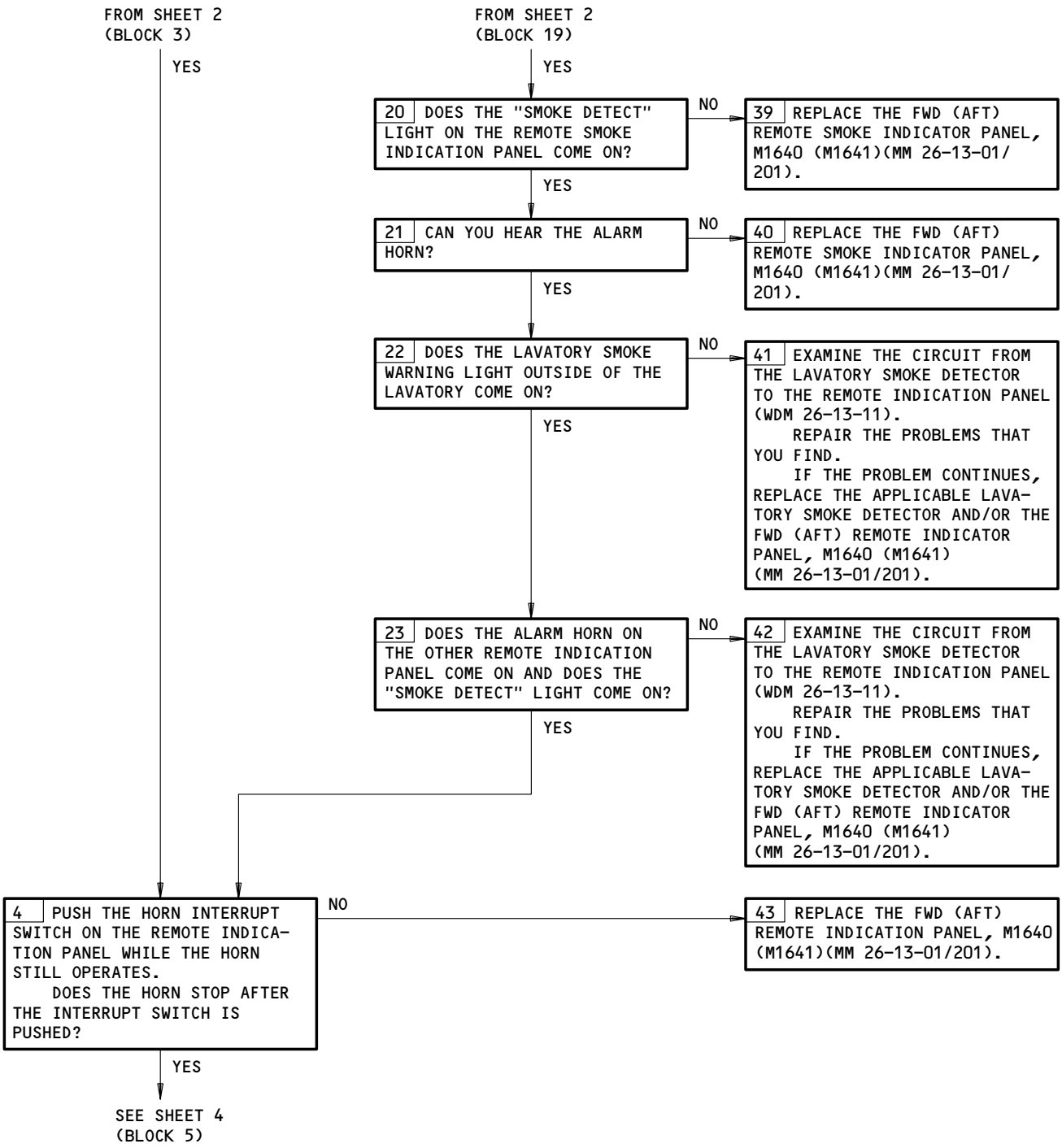

Lavatory Smoke Detection Problems
Figure 103 (Sheet 3)

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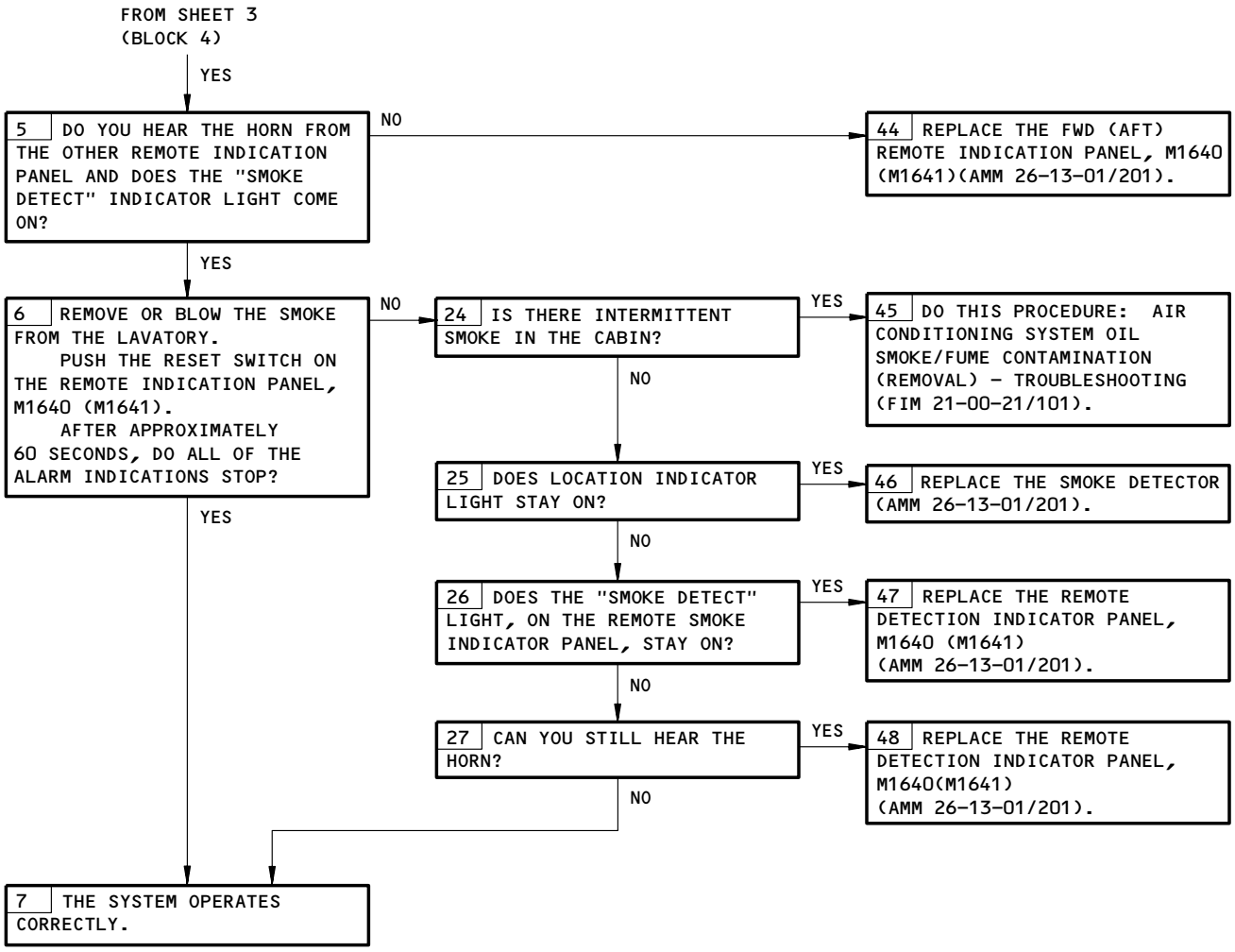

Lavatory Smoke Detection Problems
Figure 103 (Sheet 4)

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LAVATORY SMOKE DETECTION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER – LIGHTING LAV CALL/SMOKE DET SYS, C1194	--	1	FLT COMPT, P11 11P34	*
LAVATORY SMOKE DETECTOR, M11	--	1	EACH LAVATORY	*

* SEE THE WDM EQUIPMENT LIST

Lavatory Smoke Detection – Component Index
Figure 101

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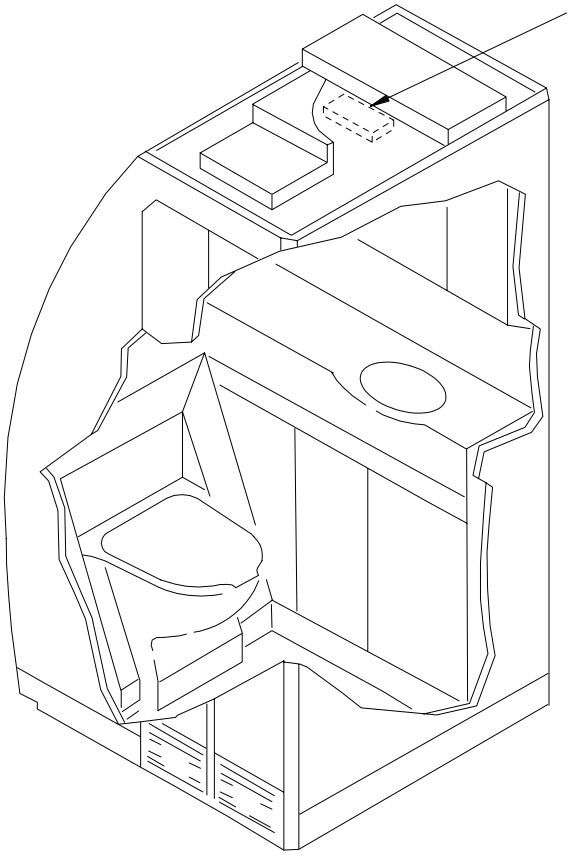
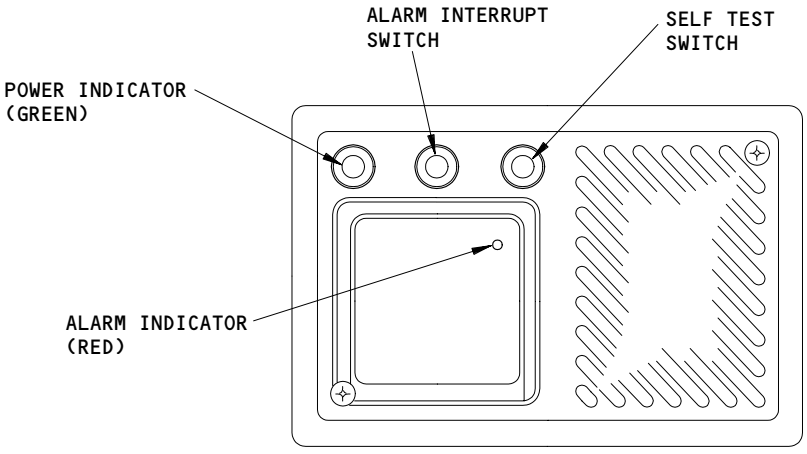


LAVATORY MODULE
(EXAMPLE)



LAVATORY SMOKE DETECTOR
(A)

Lavatory Smoke Detection - Component Location
Figure 102

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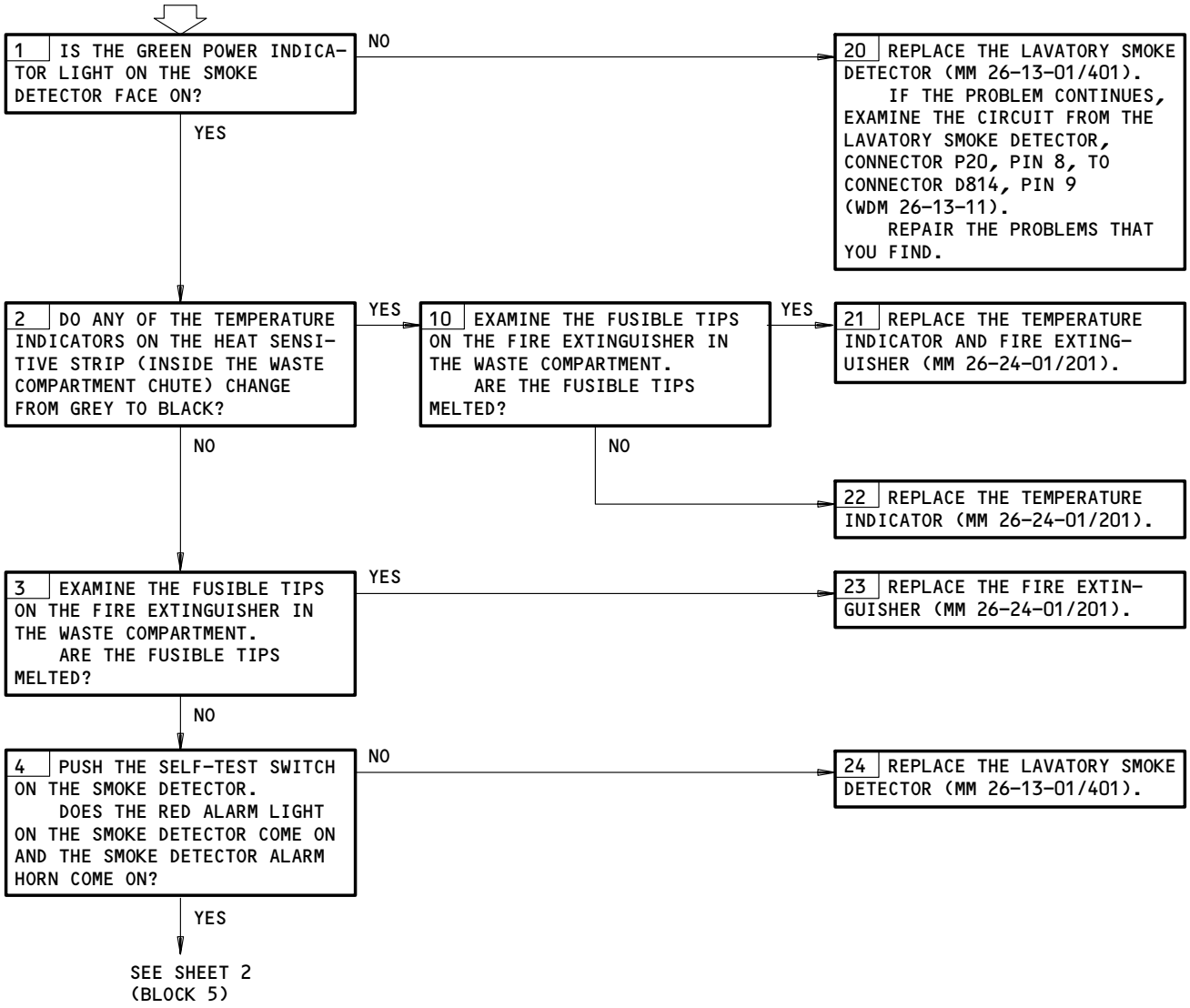
LAVATORY SMOKE DETECTION AND FIRE PROTECTION PROBLEMS

PREREQUISITES

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:
11P34

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (MM 24-22-00/201)



Lavatory Smoke Detection and Fire Protection Problems
Figure 103 (Sheet 1)

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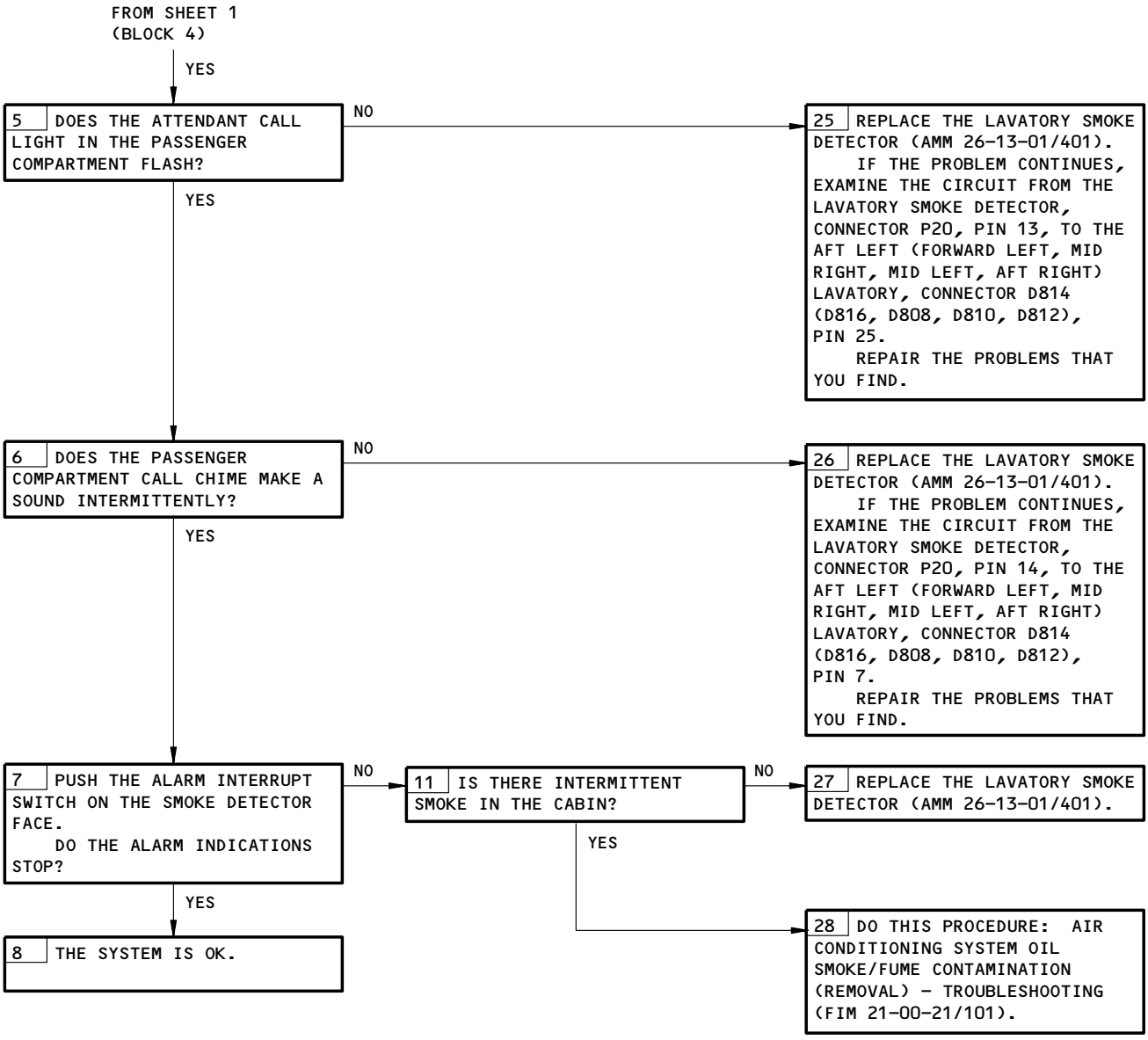

Lavatory Smoke Detection and Fire Protection Problems
Figure 103 (Sheet 2)

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CABIN CREW REST AREA SMOKE DETECTION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER –			FLT COMPT, P11	
CABIN CREW REST AREA SMOKE DETECTORS, C770		1	11K36	*
CABIN CREW REST AREA, M1761	1	1	FWD RIGHT	*
CABIN CREW REST AREA, M1761	1	1	AFT RIGHT	*
CABIN CREW REST AREA, M1761	1	1	AFT LEFT	*
CABIN CREW REST AREA SMOKE DETECTOR, M1834, M1848,M1889	2	1	CABIN CREW REST AREA	*
PANEL – REMOTE SMOKE INDICATION – AFT, M1641	2	1	AFT GALLEY	*
PANEL – REMOTE SMOKE INDICATION – FWD, M1640	2	1	FWD LAVATORY	*

* SEE THE WDM EQUIPMENT LIST

Cabin Crew Rest Area Smoke Detection – Component Index
Figure 101

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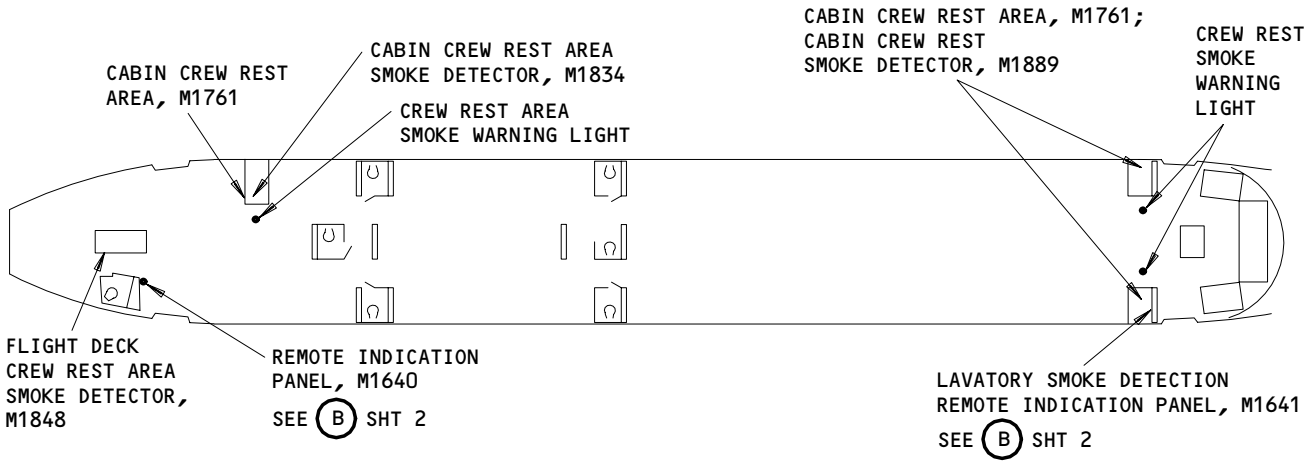
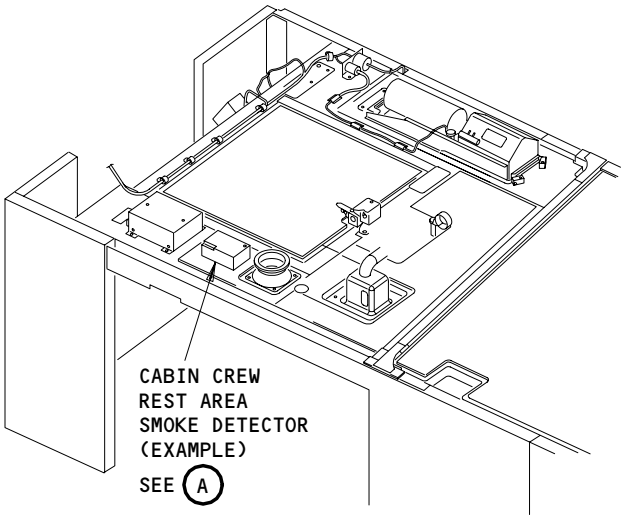
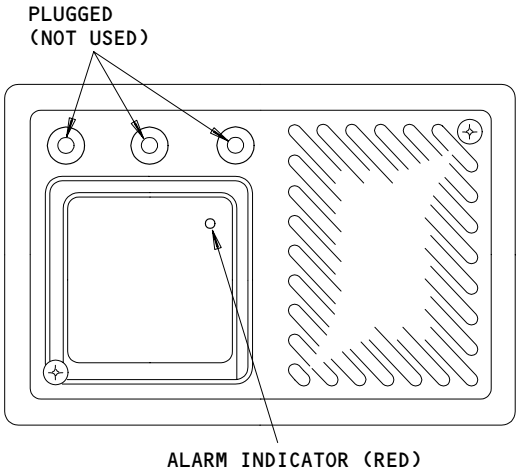




CABIN CREW REST AREA MODULE



CABIN CREW REST AREA SMOKE DETECTOR,
M1834, M1848, M1889
(A)

Cabin Crew Rest Area Smoke Detection - Component Location
Figure 102 (Sheet 1)

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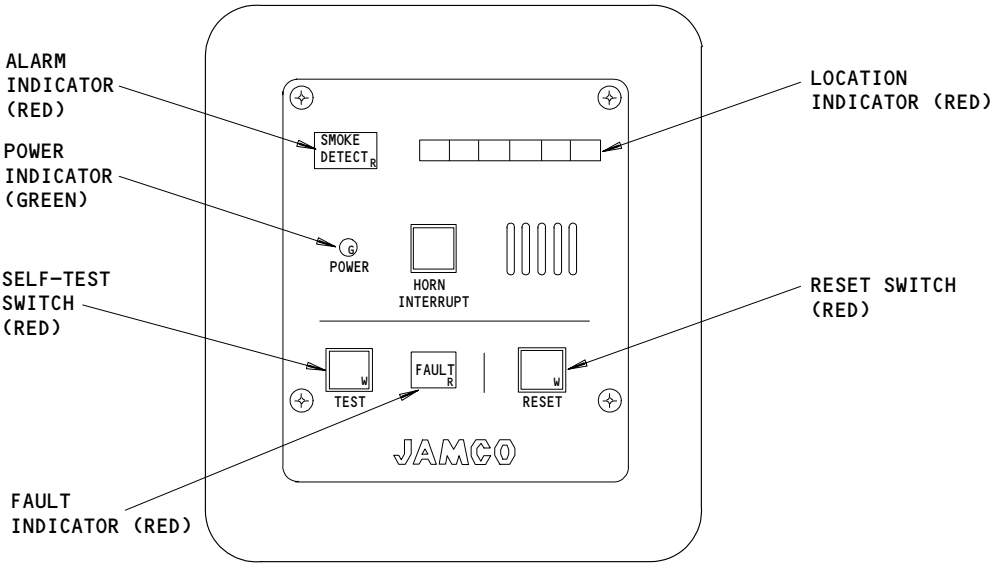
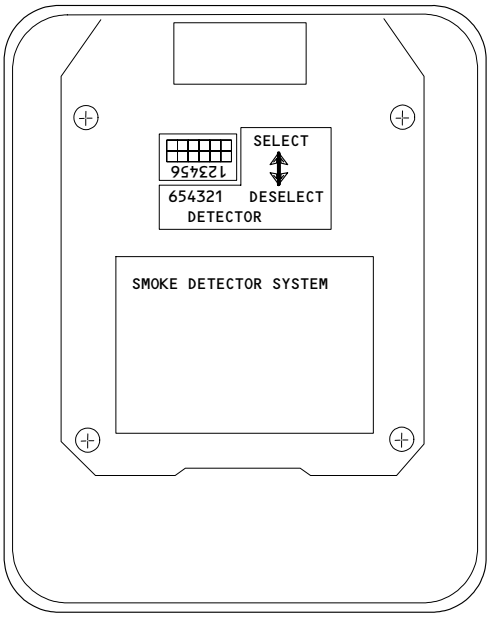
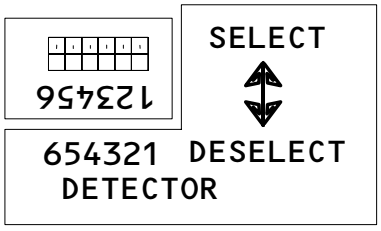


LAVATORY SMOKE DETECTOR REMOTE
INDICATION PANEL, M1640 OR M1641

(B)





NOTE: "SELECT" POSITION WHEN THE ASSOCIATED LAVATORY DETECTOR IS INSTALLED. "DESELECT" POSITION WHEN THE ASSOCIATED LAVATORY DETECTOR IS NOT INSTALLED.

LAVATORY SMOKE DETECTOR REMOTE
INDICATION REAR PANEL

(B)

Cabin Crew Rest Area Smoke Detection - Component Location (Detail from Sht 1)
Figure 102 (Sheet 2)

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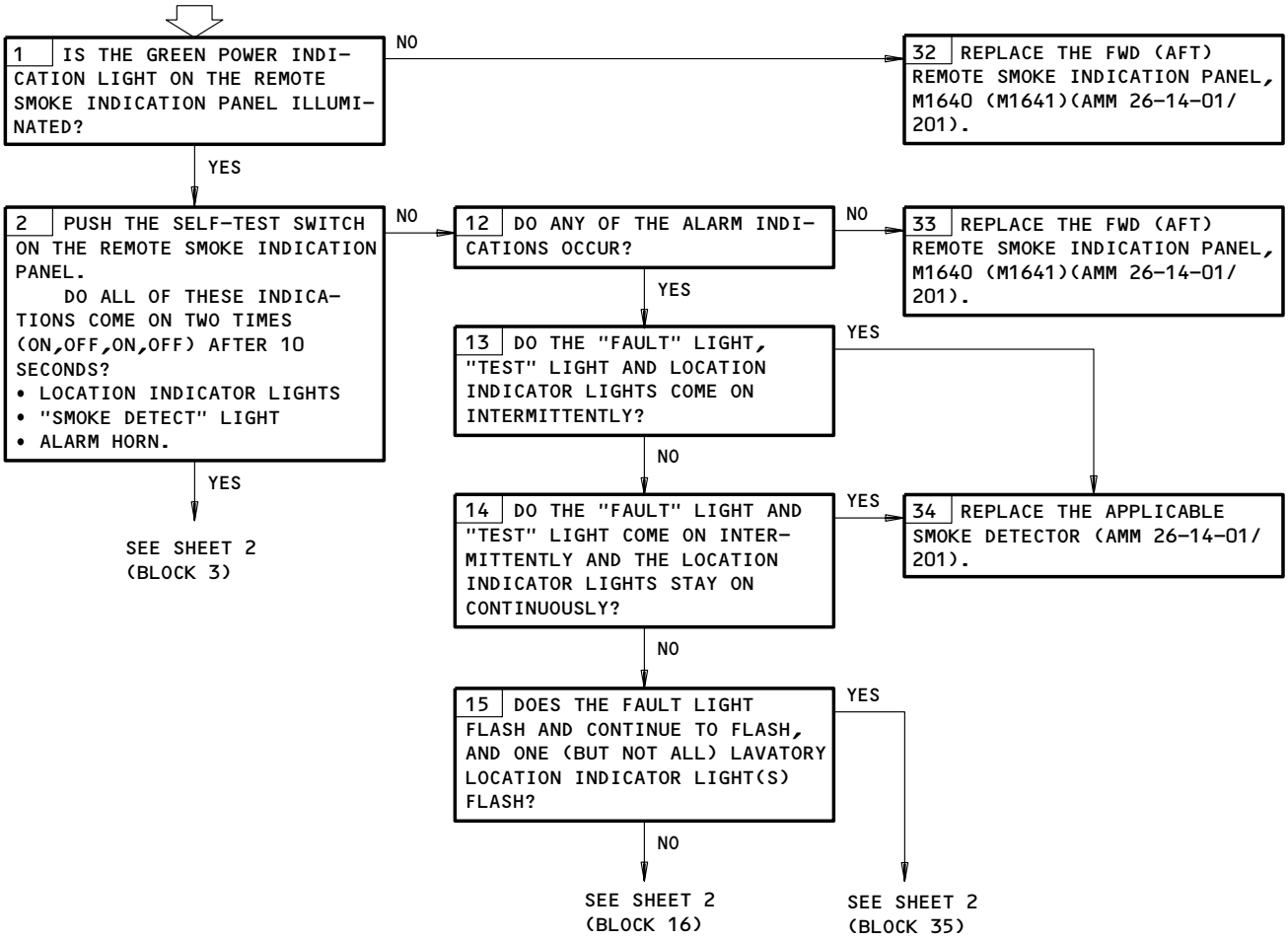
CABIN CREW REST AREA SMOKE DETECTION PROBLEMS

PREREQUISITES

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:
11K36

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



Cabin Crew Rest Area Smoke Detection Problems
Figure 103 (Sheet 1)

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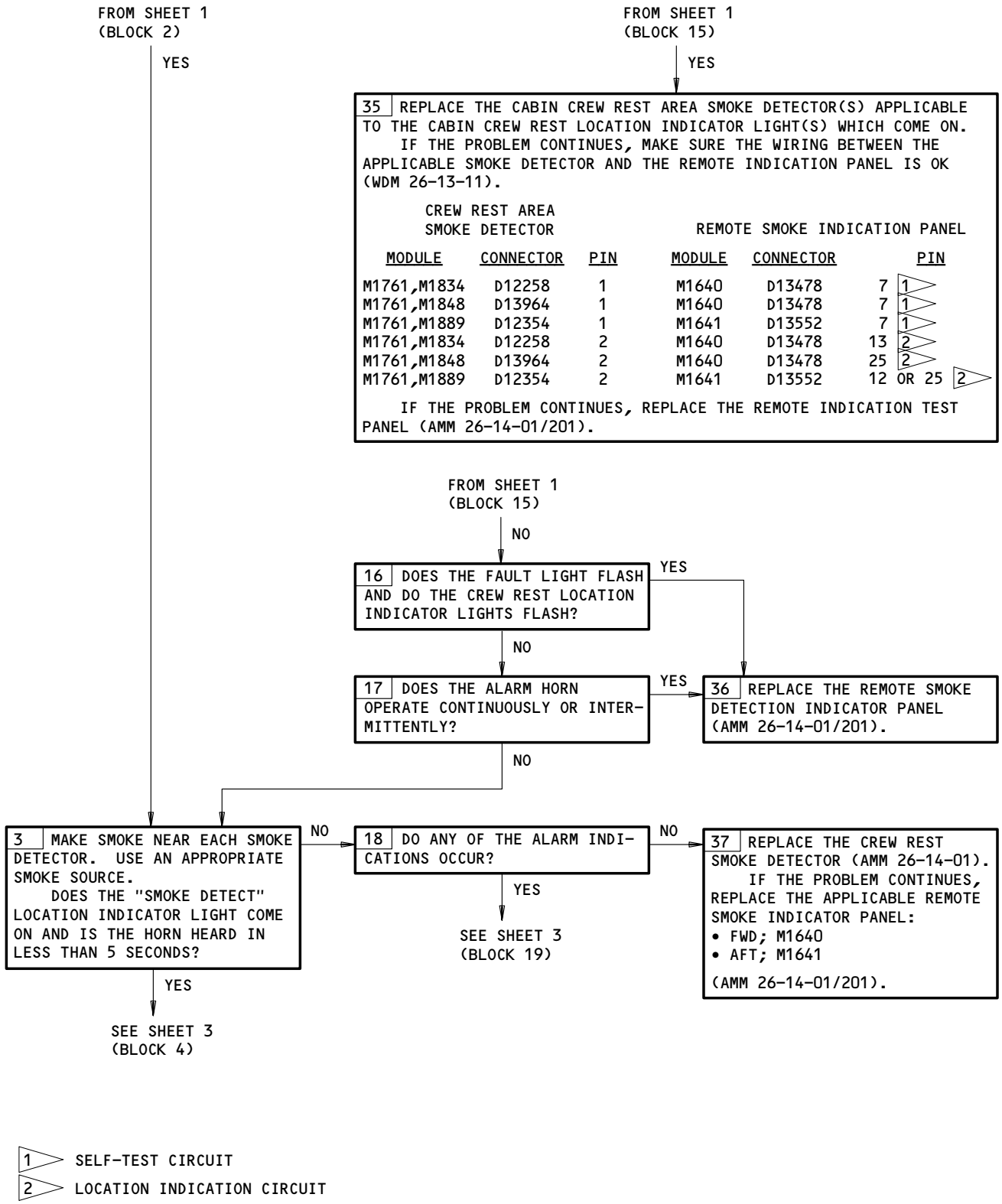

Cabin Crew Rest Area Smoke Detection Problems
Figure 103 (Sheet 2)

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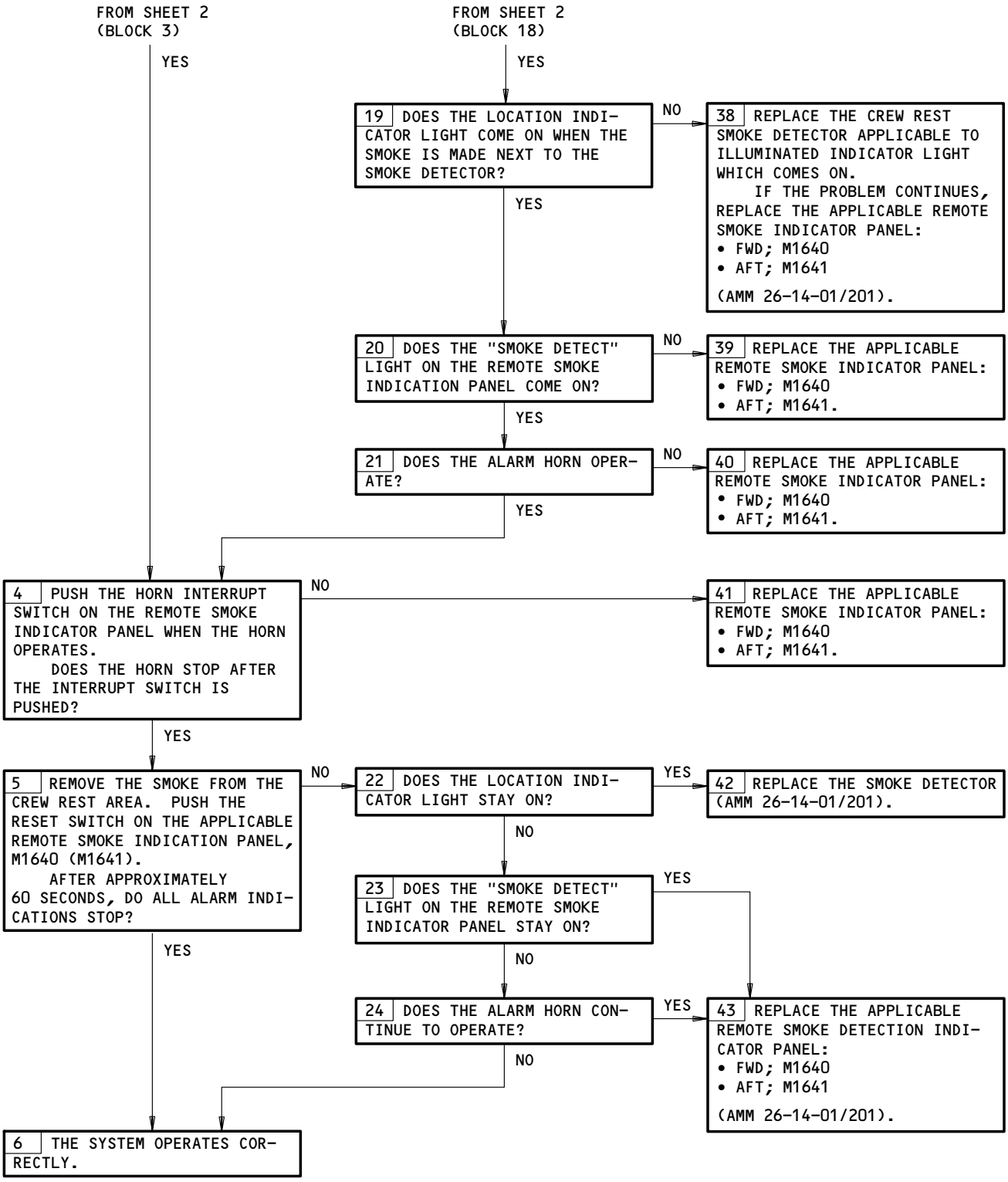

Cabin Crew Rest Area Smoke Detection Problems
Figure 103 (Sheet 3)

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APU FIRE DETECTION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER –	--		FLT COMPT, P11	
APU REMOTE FIRE IND, C796		1	11B34	*
FIRE DETECTION APU 1, C776		1	11B24	*
FIRE DETECTION APU 2, C785		1	11B25	*
FIRE SWITCH UNLOCK, C793		1	11B19	*
CARD 3 – FIRE/OVHT LOGIC/TEST, M10400	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD – LOOP 1 APU FIRE DET, M685	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CARD – LOOP 2 APU FIRE DET, M686	--	1	119AL, MAIN EQUIP CTR, P54	26-10-01
DETECTOR – APU FIRE, TS51,TS52	--	2	315AL/316AR APU COMPT	26-15-02
PANEL – APU SHUTDOWN	2	1	NOSE LANDING GEAR, P40	26-15-01
PANEL – APU/CARGO FIRE CONTROL PANEL, M10444	--	1	FLT COMPT, P8	26-15-01
RELAY – (FIM 31-01-37/101) APU REMOTE FIRE INDICATION, K631 EXTERNAL SHUTDOWN, K421				
RELAY – APU HORN INTERUPTER, K420	1	1	119AL, ON BRACKET NEXT TO P50, MAIN EQUIP CTR	*

* SEE THE WDM EQUIPMENT LIST

APU Fire Detection System – Component Index
Figure 101

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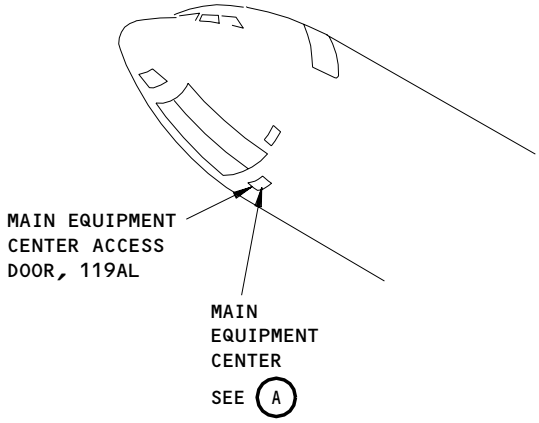
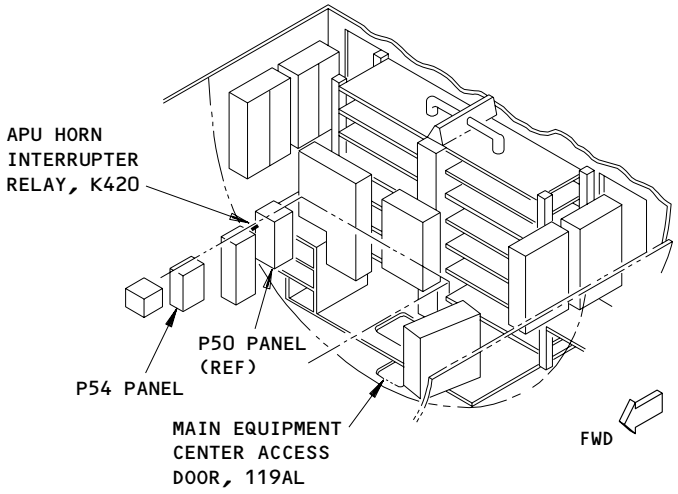
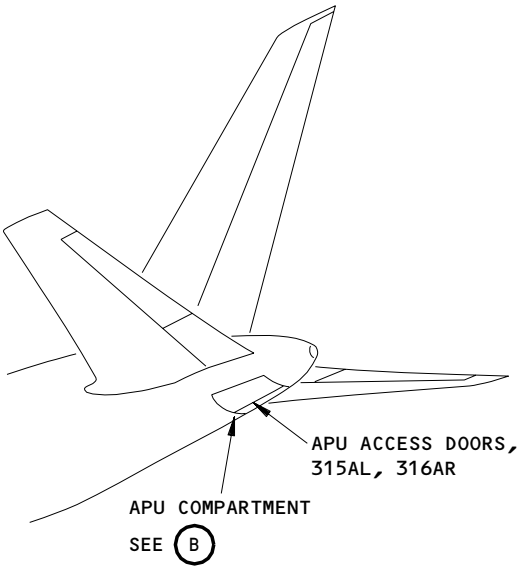




MAIN EQUIPMENT CENTER
A



APU Fire Detection System – Component Location
Figure 102 (Sheet 1)

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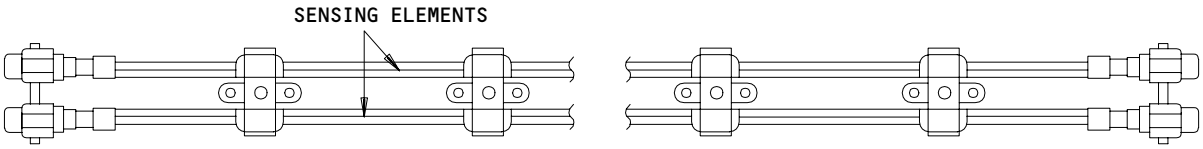
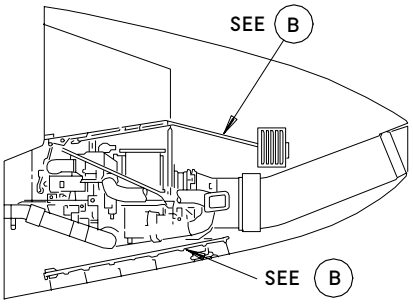
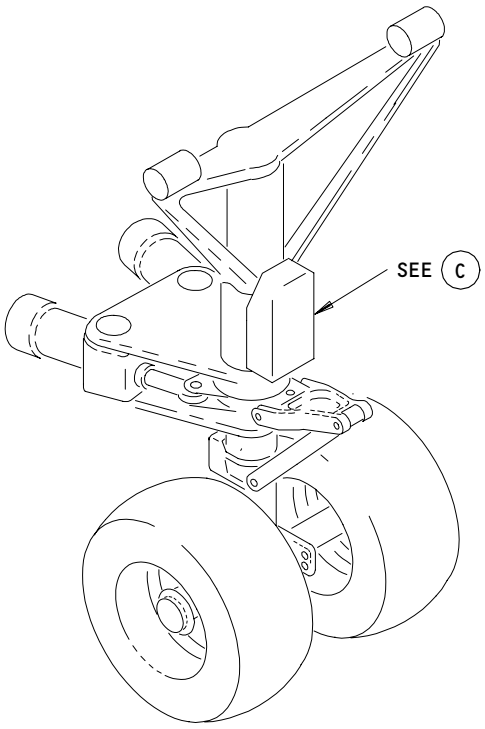


FIRE DETECTOR

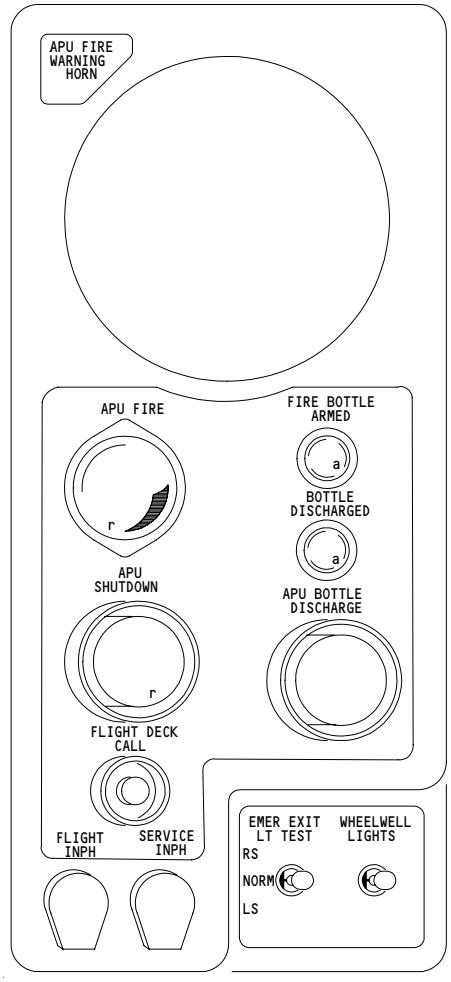
B



APU COMPARTMENT



NOSE LANDING GEAR



APU SHUTDOWN PANEL P40

C

Component Location
Figure 102 (Sheet 2)

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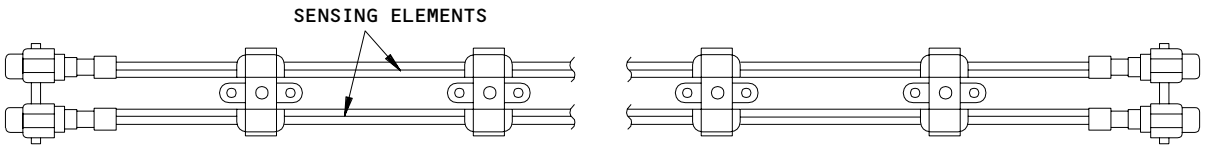
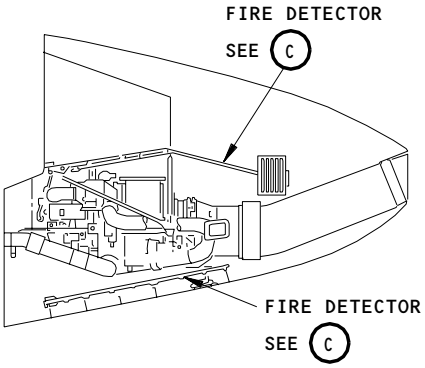
46670

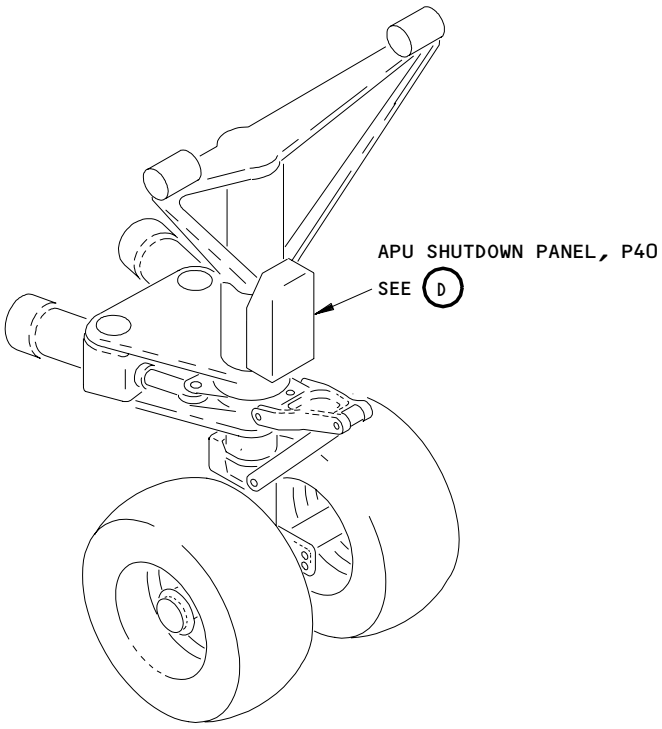


FIRE DETECTOR

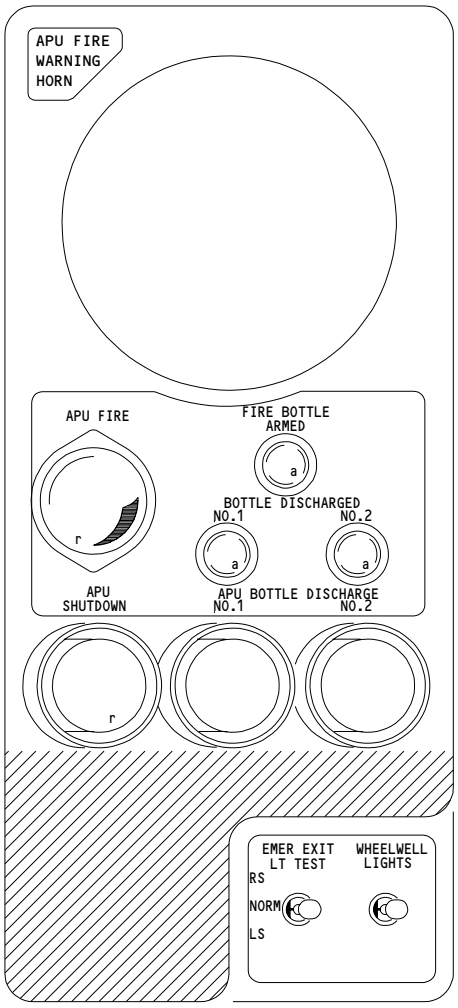
C



APU COMPARTMENT



NOSE LANDING GEAR



APU SHUTDOWN PANEL, P40

D

APU Fire Detection - Component Location
Figure 102 (Sheet 3)

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APU FIRE DETECTION SYSTEM BITE PROCEDURE

PREREQUISITES

MAKE SURE THESE SYSTEMS OPERATE:
- EICAS (AMM 31-41-00/201)
- WARNING SYSTEM (AMM 31-51-00/501)
- MASTER DIM AND TEST (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
- 11B19, 11B24, 11B25, 11B34, 11K32

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
- ELECTRICAL POWER IS ON (AMM 24-22-00/201)

1 PUSH "ECS/MSG" SWITCH ON EICAS PANEL AT P61. REPEAT TO ADVANCE PAGES UNTIL ALL MESSAGES ARE DISPLAYED.
ARE THE FOLLOWING EICAS MAINTENANCE MESSAGES CLEARED?

APU FIRE LP 1
APU FIRE LP 2

NO → 100 REPLACE CONTROL CARD LISTED IN TABLE 101 FOR MESSAGE SHOWN ON EICAS DISPLAY (AMM 26-10-01/401).
IF THE PROBLEM CONTINUES, CHECK RESISTANCE VALUE OF EACH DETECTOR ELEMENT CONNECTOR LISTED IN TABLE 101 FOR THE EICAS MESSAGE DISPLAYED. REPLACE DETECTOR ELEMENT AS NECESSARY (AMM 26-15-02/401).

YES

2 PUSH AND HOLD "ENG/APU/CARGO" SWITCH ON FIRE/OVHT TEST PANEL, ON AFT PILOTS' CONTROL STAND P8.
DO ALL OF THE FOLLOWING INDICATIONS OCCUR?
- MASTER WARNING LIGHTS ON
- FIRE BELL SOUNDS
- APU FIRE SWITCH LIGHT ON
- EICAS MAINTENANCE MESSAGE "APU FIRE" IS DISPLAYED

NO → 50 DO ANY OF THE INDICATIONS LISTED IN THE PREVIOUS BLOCK OCCUR?

NO → 101 AIRPLANES WITH -136 AFOLTS CARD;
DO THIS PROCEDURE: AFOLTS CARD BITE PROCEDURE (FIM 26-10-00/101, FIG. 103).
AIRPLANES WITHOUT -136 AFOLTS CARD;
RESEAT AFOLTS NO. 3 CARD, M10400 (AMM 26-10-01/401).
IF THE PROBLEM CONTINUES, REPLACE AFOLTS NO. 3 CARD, M10400 (AMM 26-10-01/401).
IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT FROM AFOLTS NO. 3 CARD, CONNECTOR D10096, PIN 11, TO TERMINAL BLOCK TB276, PIN 22 (WDM 26-15-11). REPAIR THE PROBLEMS THAT YOU FIND.

YES

WARNING

DO NOT TURN FIRE SWITCH HANDLE WHEN PULLED OUT. TURNING HANDLE WILL DISCHARGE APU FIRE BOTTLES.

- APU FIRE SWITCH HANDLE WILL PULL OUT AND PUSH IN AGAIN.

YES

SEE SHEET 2
(BLOCK 3)

51 IS EITHER MASTER WARNING LIGHT ON?

NOTE: IF ONLY CAPT OR F/O MASTER WARNING LIGHT COMES ON, DO THE MASTER WARNING PROBLEMS PROCEDURE (FIM 31-51-00/101, FIG. 103A).

NO → 102 REPLACE MASTER WARNING CARD, M618 (AMM 31-51-04/401).
IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT FROM TB276, PIN Z14, TO THE MASTER WARNING MODULE, CONNECTOR D815, PIN 2 (WDM 26-15-11, 31-51-21). REPAIR THE PROBLEMS THAT YOU FIND.

YES

SEE SHEET 2
(BLOCK 52)

APU Fire Detection System BITE Procedure
Figure 103 (Sheet 1)

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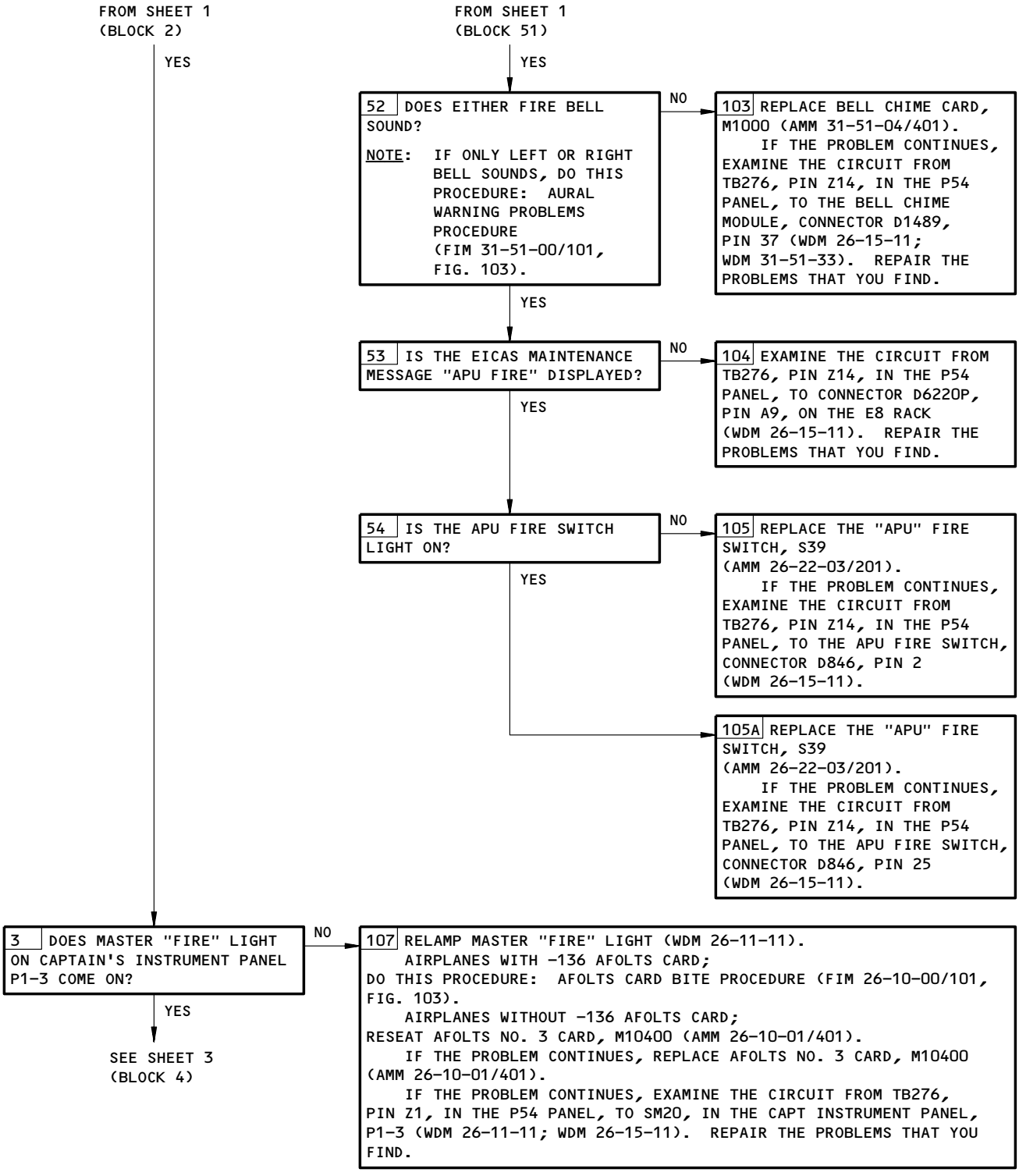

APU Fire Detection System BITE Procedure
Figure 103 (Sheet 2)

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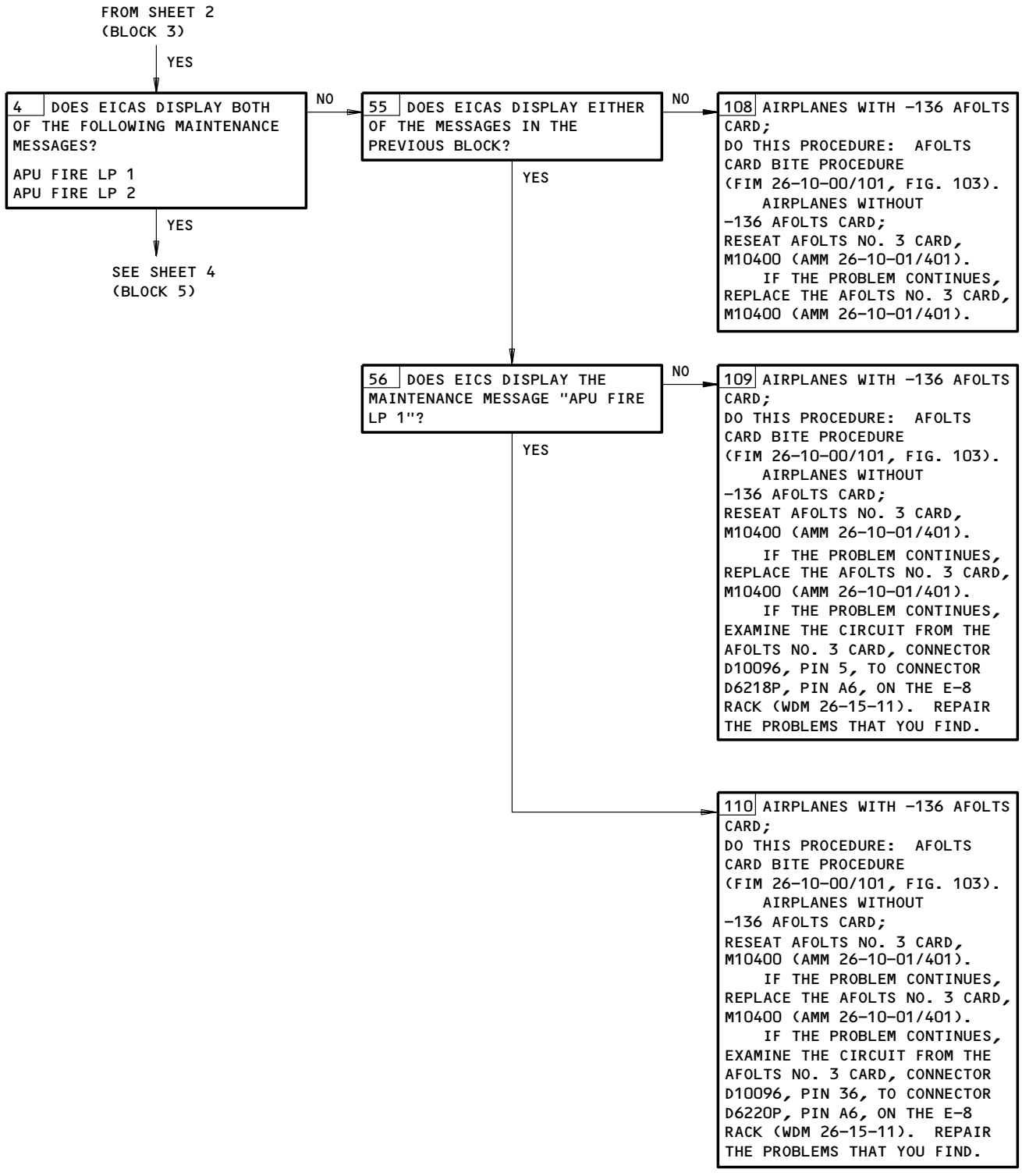

APU Fire Detection System BITE Procedure
Figure 103 (Sheet 3)

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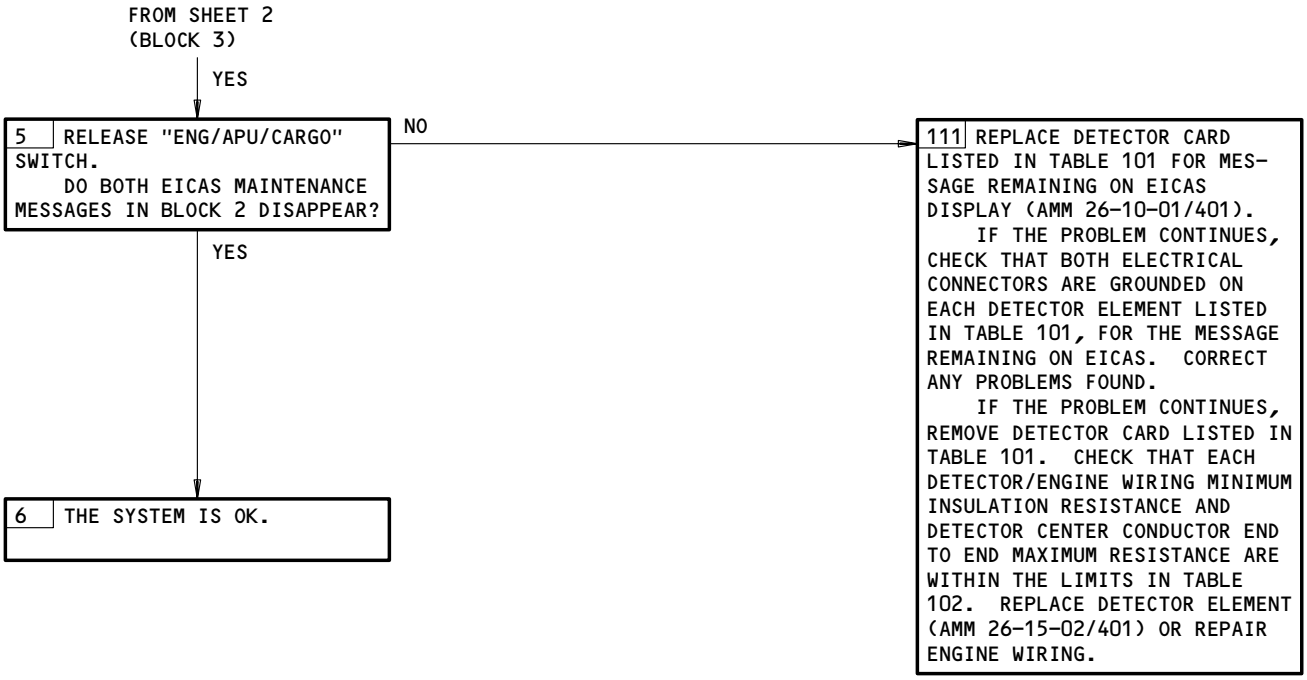

APU Fire Detection System BITE Procedure
Figure 103 (Sheet 4)

E96481

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EICAS MESSAGE	DETECTOR CARD	DETECTOR NUMBER/ ELECTRICAL CONNECTORS	DETECTOR LOCATION
APU FIRE LP 1	M685	TS51/D512, D518 TS52/D520, D510	UPPER LOWER
APU FIRE LP 2	M686	TS51/D506, D514 TS52/D516, D508	UPPER LOWER

TABLE 101

DETECTOR NO./ ELEC CONN (WDM 26-15-11)	DETECTOR LOCATION	CENTER CONDUCTOR MAX RESISTANCE (OHMS) LIMITS	APU FIRE LOOP MIN INSULATION RESISTANCE (MEGOHMS) 2 LIMITS	AMBIENT TEMP (°F)	DETECTOR MIN INSULATION RESISTANCE (MEGOHMS) 1 LIMITS
TS51/D512,D518 TS51/D506,D514	UPPER	6.2	0.07 0.061 0.045 0.032 0.026	65 70 80 90 100	0.123 0.107 0.08 0.06 0.046
TS52/D520,D510 TS52/D516,D508	LOWER	4.8	0.07 0.061 0.045 0.032 0.026	65 70 80 90 100	0.162 0.14 0.105 0.079 0.05

TABLE 102

1 MEASURE INDIVIDUAL DETECTOR INSULATION RESISTANCE (CENTER CONDUCTOR TO GROUND) USING LOW VOLTAGE MULTIMETER. IF THE PROBLEM CONTINUES, DO THE MINIMUM INSULATION RESISTANCE (CENTER CONDUCTOR TO GROUND) CHECK, USING A MEGOHM MULTIMETER SET AT 100 VOLTS.

2 THE COMBINED (PARALLEL) INSULATION RESISTANCE OF THE TWO DETECTORS MUST BE TAKEN WITH THE ASSOCIATED DETECTOR CARDS IN TABLE 101 REMOVED FROM THE P54 CARD FILE (AMM 26-10-01/401).

APU Fire Detection System BITE Procedure
Figure 103 (Sheet 5)

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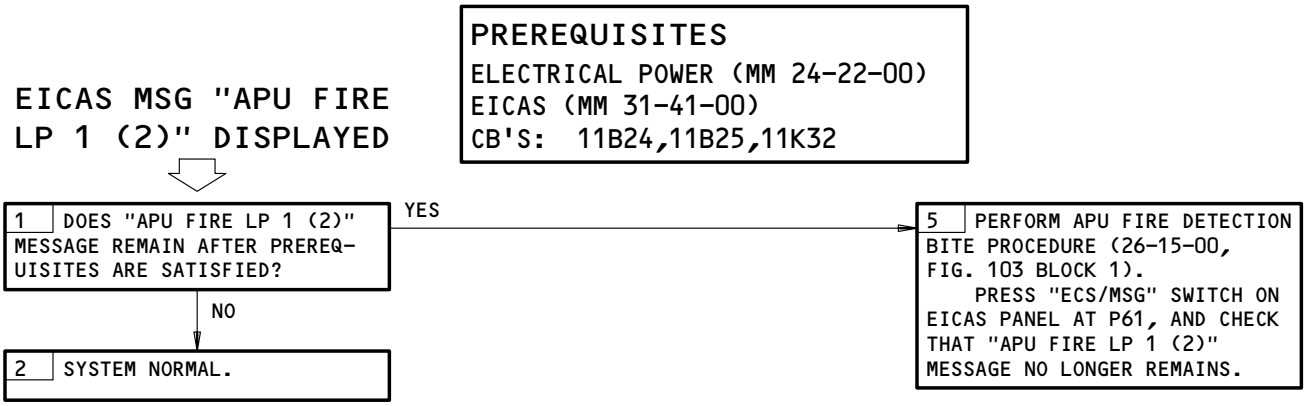

EICAS Msg APU FIRE LP 1 (2) Displayed
Figure 104

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LOWER CARGO COMPARTMENT SMOKE DETECTION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
BLOWER 1 - FWD SMOKE DETECTOR, M716	2	1	821, FORWARD CARGO COMPT	26-16-02
BLOWER 2 - FWD SMOKE DETECTOR, M717	2	1	821, FORWARD CARGO COMPT	26-16-02
BLOWER 1 - AFT SMOKE DETECTOR, M718	2	1	811, AFT CARGO COMPT	26-16-02
BLOWER 2 - AFT SMOKE DETECTOR, M719	2	1	811, AFT CARGO COMPT	26-16-02
CARD 6 - FIRE/OVHT TEST/LOGIC, M10427	2	1	119AL, MAIN EQUIP CTR, P54	26-10-01
CIRCUIT BREAKERS	1		FLT COMPT, P11	
FIRE DETECTION CARGO 1, C772		1	11B26	*
FIRE DETECTION CARGO 2, C788		1	11B27	*
FIRE DETECTION CARGO FAN AC, C794		1	11U36	*
FIRE DETECTION CARGO FAN DC, C795		1	11U35	*
ALTERNATE POWER FIRE DETECTION CARGO, C766		1	11K33	*
CIRCUIT BREAKERS	2		FWD CARGO COMPT DOOR, P35	
SMOKE DET BLOWER AFT 1, C62		1	35A3	
SMOKE DET BLOWER AFT 2, C63		1	35A4	*
SMOKE DET BLOWER FWD 1, C60		1	35A1	*
SMOKE DET BLOWER FWD 2, C61		1	35A2	*
COMPUTER - (REF 31-41-00, FIG. 101)				*
EICAS L, M10181				
EICAS R, M10182				
DETECTOR - FWD CARGO SMOKE 1, M324	2	1	821, FWD CARGO COMPT	26-16-01
DETECTOR - FWD CARGO SMOKE 2, M325	2	1	821, FWD CARGO COMPT	26-16-01
DETECTOR - AFT CARGO SMOKE 1, M326	2	1	811, AFT CARGO COMPT	26-16-01
DETECTOR - AFT CARGO SMOKE 2, M327	2	1	811, AFT CARGO COMPT	26-16-01
DIODE - BUS ISOLATION, R203,R204	1	2	FLT COMPT, BEHIND P11	
PANEL - (REF 26-11-00, FIG. 101)				
FIRE TEST				
PANEL - (REF 26-22-00, FIG. 101)				
APU/CARGO FIRE CONT, M10444				
PANEL - (REF 26-11-00, FIG. 101)				
DISCRETE WARNING DISPLAY, M779				
RELAY - (REF 31-01-35, FIG. 101)				
SMK DET BLO 1 CONT AFT CAR, K332				
SMK DET BLO 1 CONT FWD CAR, K331				
SMK DET BLO 1 DLY, AFT CAR TDC, K334				
SMK DET BLO 1 DLY, FWD CAR TDC, K333				
SWITCH - ENG/APU/CARGO, YEHS001	1	1	FLT COMPT,P8,FIRE/OVHT TEST PNL, M10445	*
SWITCH - FAIL LIGHT RESET, YEHS002	1		FLT COMPT,P8,FIRE/OVHT TEST PNL, M10445	*
SWITCH - FWD SMK DET AIR FLO PRESS, S454	2	1	821, FWD CARGO COMPT	26-16-03
SWITCH - AFT SMK DET AIR FLO PRESS, S455	2	1	811, AFT CARGO COMPT	26-16-03

* SEE WM EQUIPMENT LIST

Component Index
Figure 101

174687
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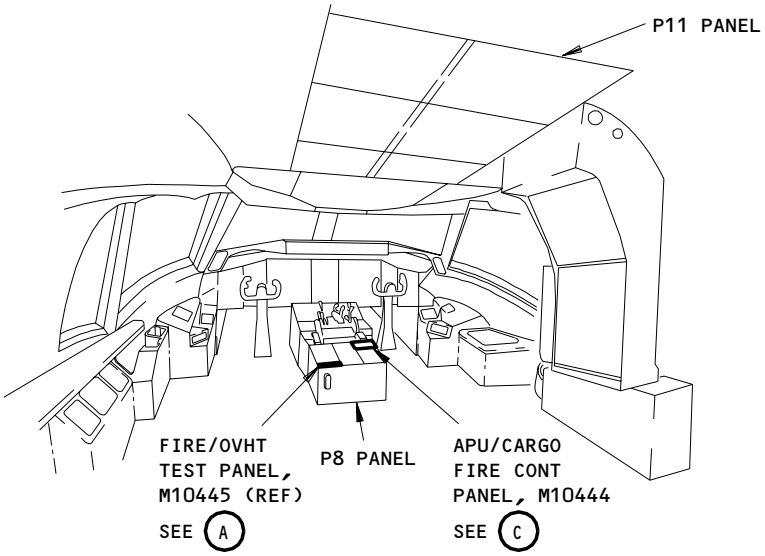
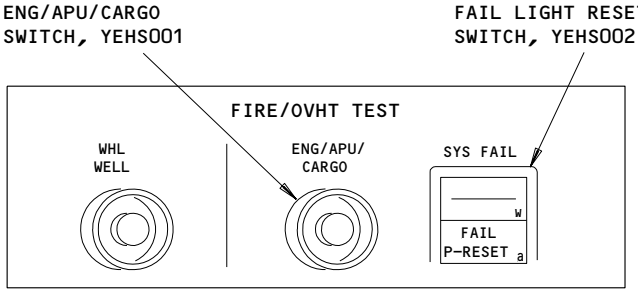
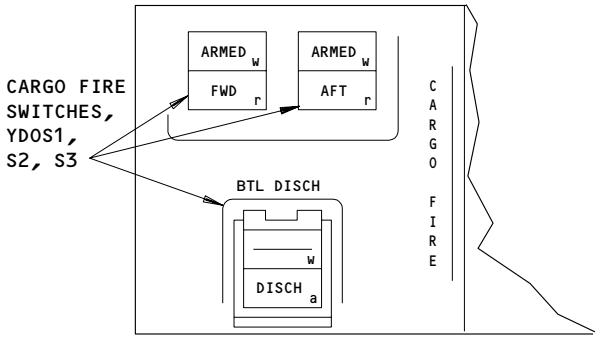


FLIGHT COMPARTMENT



FIRE/OVHT TEST PANEL, M10445

A



APU/CARGO FIRE CONTROL PANEL, M10444

C

Lower Cargo Compartment Smoke Detection System - Component Location
Figure 102 (Sheet 1)

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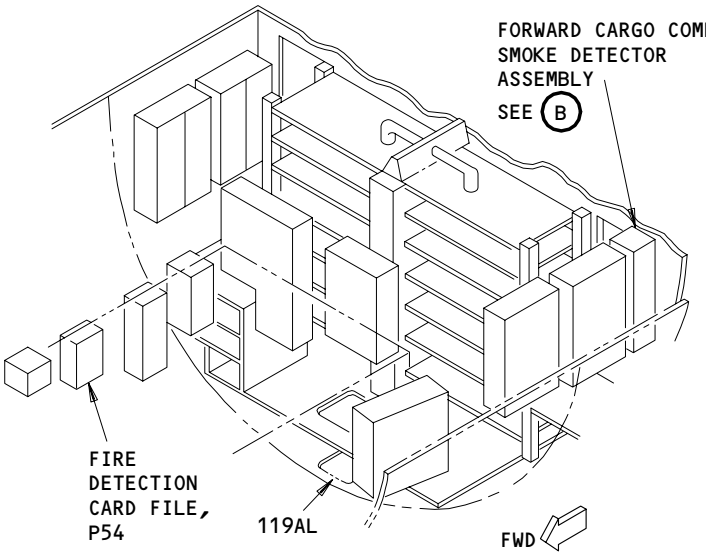
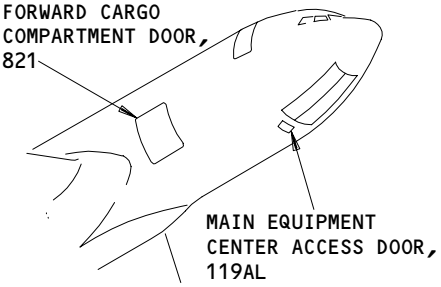
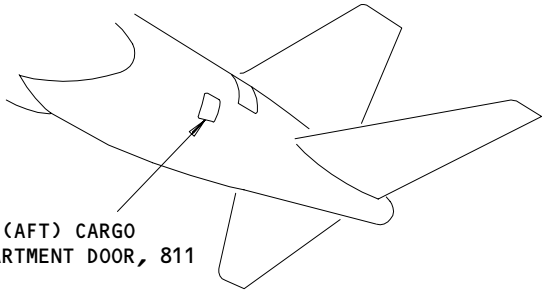
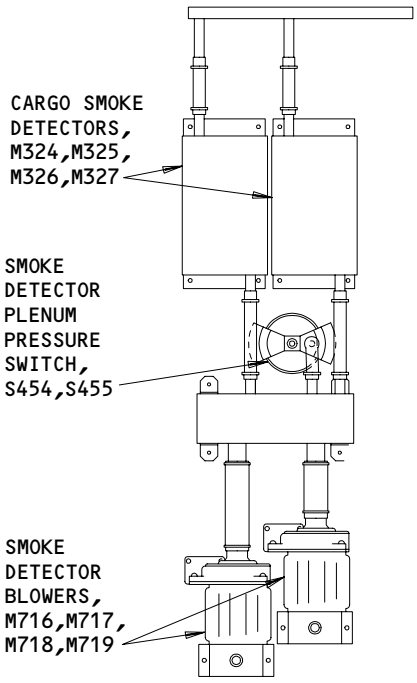
173549



MAIN EQUIPMENT CENTER

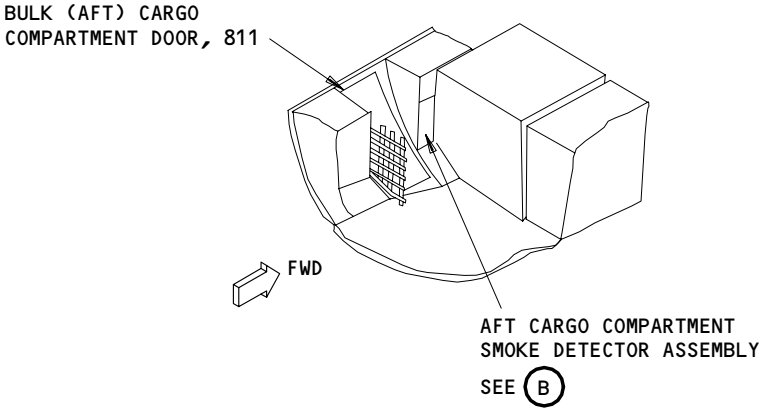


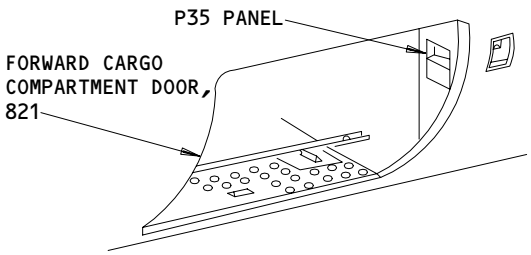




FORWARD OR AFT SMOKE DETECTOR ASSEMBLY (EXAMPLE)

B





Component Location
Figure 102 (Sheet 2)

804251
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Not Used
Figure 103

174682
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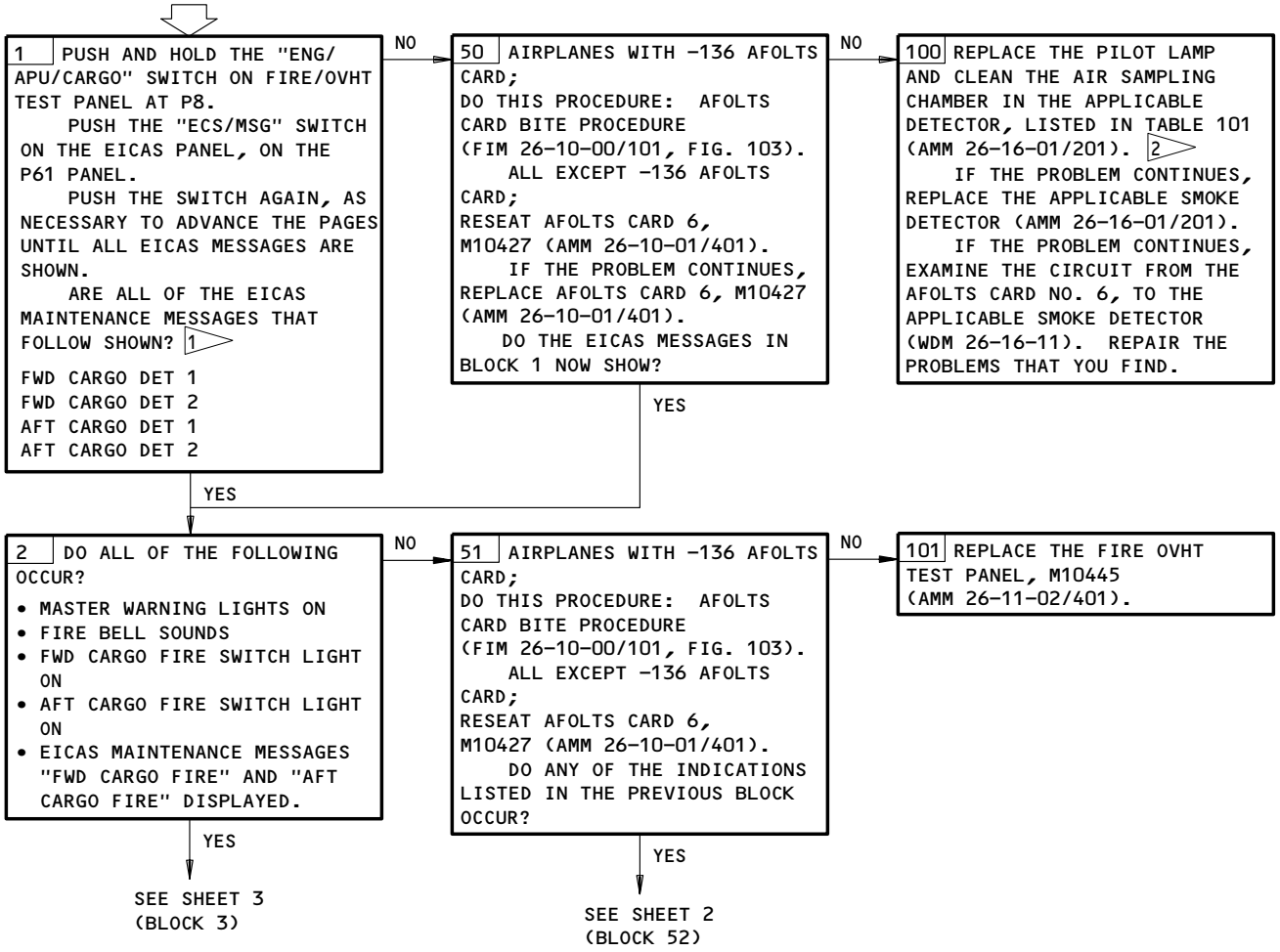
LOWER CARGO COMPARTMENT SMOKE DETECTION SYSTEM BITE PROCEDURE

PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
- EICAS (AMM 31-41-00/501)
- WARNING SYSTEM (AMM 31-51-00/501)
- MASTER DIM AND TEST (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
- 11B26,11B27,11K33,11U35,11U36,35A1,35A2,35A3,35A4

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
- ELECTRICAL POWER IS ON (AMM 24-22-00/201)



1 THE ORDER THAT THE EICAS MAINTENANCE MESSAGES ARE SHOWN IS NOT IMPORTANT

2 SOME DETECTORS DO NOT HAVE LAMPS BUT HAVE LEDs THAT ARE NOT REPLACEABLE.

Lower Cargo Compartment Smoke Detection System BITE Procedure
Figure 104 (Sheet 1)

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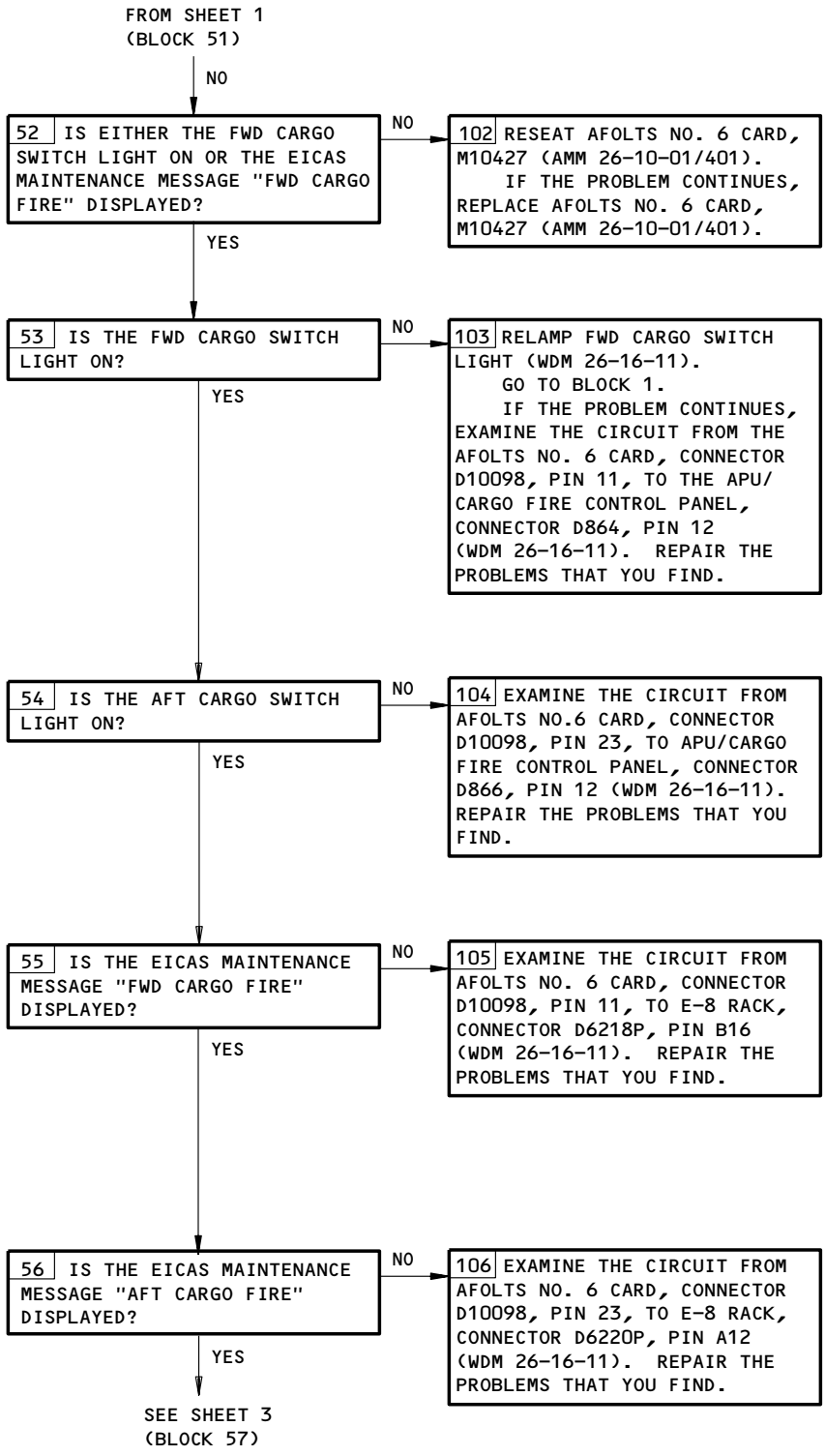

Lower Cargo Compartment Smoke Detection System BITE Procedure
Figure 104 (Sheet 2)

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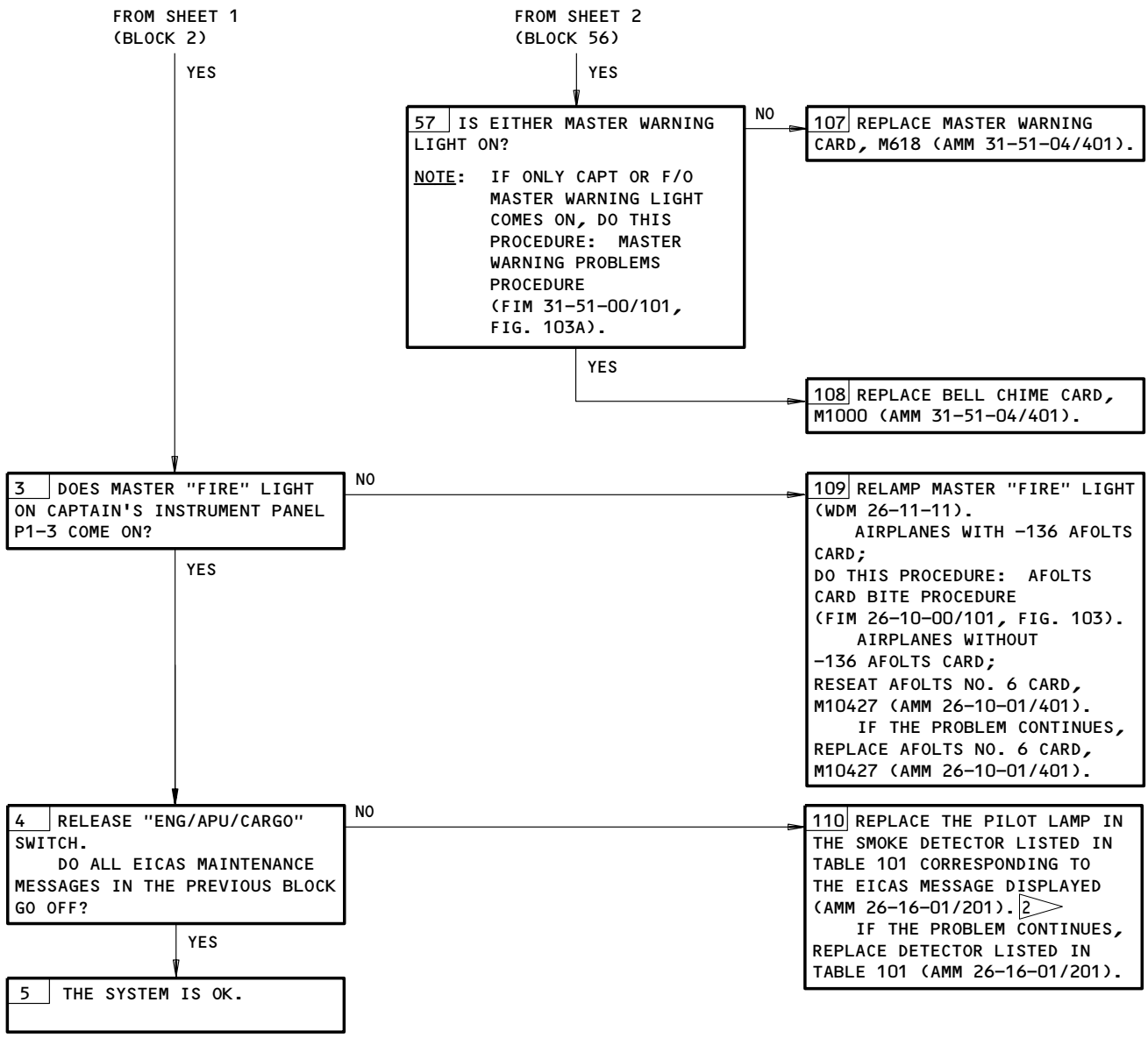

EICAS MESSAGE	DETECTOR
FWD CARGO DET 1	M324
FWD CARGO DET 2	M325
AFT CARGO DET 1	M326
AFT CARGO DET 2	M327

TABLE 101

Lower Cargo Compartment Smoke Detection System BITE Procedure
Figure 104 (Sheet 3)

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PREREQUISITES
ELECTRICAL POWER (MM 24-22-00)
EICAS (MM 31-41-00)
CB'S: 11B26,11B27,11K33,11U35,11U36,35A1,35A2,35A3, 35A4

EICAS MESSAGE "AFT DET FAN" DISPLAYED

1 DOES "AFT DET FAN" MESSAGE REMAIN AFTER PREREQUISITES ARE SATISFIED?
- YES → 21
- NO → 2

2 SYSTEM NORMAL.

21 OPEN CIRCUIT BREAKER 11U35 CARGO FIRE DET FAN DC. AT AFT CARGO BLOWER UNIT, CHECK IF NO. 1 BLOWER IS RUNNING.
IS NO. 1 BLOWER RUNNING?
- YES → 3
- NO → 22

3 DISCONNECT ELECTRICAL CONNECTOR D1446 AT AFT CARGO SMOKE DETECTOR AIR FLOW PRESSURE SWITCH S455 (WM 26-16-21). CHECK FOR CONTINUITY BETWEEN PINS 2 AND 3 OF PRESSURE SWITCH.
IS THERE CONTINUITY?
- YES → 33
- NO → 32

22 DISCONNECT ELECTRICAL CONNECTOR D1140 FROM NO. 1 BLOWER M718 (WM 26-16-21). CHECK FOR 115V AC BETWEEN PINS 1 AND 2 OF CONNECTOR.
IS 115V AC PRESENT?
- NO → 30
- YES → 31

30 INSTALL CONNECTOR D1140 TO M718.
REPLACE NO. 1 BLOWER AFT CARGO SMOKE DETECTION CONTROL RELAY K332 (WM 26-16-21).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "AFT DET FAN" MESSAGE NO LONGER REMAINS.

31 REPLACE NO. 1 AFT CARGO SMOKE DETECTION BLOWER M718 (MM 26-16-02).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "AFT DET FAN" MESSAGE NO LONGER REMAINS.

32 INSTALL CONNECTOR D1446 TO PRESSURE SWITCH S455.
REPLACE NO. 1 BLOWER AFT CARGO SMOKE DETECTION DELAY RELAY K334 (WM 26-16-21).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "AFT DET FAN" MESSAGE NO LONGER REMAINS.

33 REPLACE AFT CARGO SMOKE DETECTION PRESSURE SWITCH S455 (MM 26-16-03).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "AFT DET FAN" MESSAGE NO LONGER REMAINS.

EICAS Message AFT DET FAN Displayed
Figure 105

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PREREQUISITES
ELECTRICAL POWER (MM 24-22-00)
EICAS (MM 31-41-00)
CB'S: 11B26,11B27,11K33,11U35,11U36,35A1,35A2,35A3, 35A4

EICAS MESSAGE "FWD DET FAN" DISPLAYED

1 DOES "FWD DET FAN" MESSAGE REMAIN AFTER PREREQUISITES ARE SATISFIED?
- YES → 21
- NO → 2

2 SYSTEM NORMAL.

21 OPEN CIRCUIT BREAKER 11U35 CARGO FIRE DET FAN DC. AT FWD CARGO BLOWER UNIT, CHECK IF NO. 1 BLOWER IS RUNNING.
IS NO. 1 BLOWER RUNNING?
- YES → 3
- NO → 22

3 DISCONNECT ELECTRICAL CONNECTOR D1444 AT FWD CARGO SMOKE DETECTOR AIR FLOW PRESSURE SWITCH S454 (WM 26-16-21). CHECK FOR CONTINUITY BETWEEN PINS 2 AND 3 OF PRESSURE SWITCH.
IS THERE CONTINUITY?
- YES → 33
- NO → 32

22 DISCONNECT ELECTRICAL CONNECTOR D1136 FROM NO. 1 BLOWER M716 (WM 26-16-21). CHECK FOR 115V AC BETWEEN PINS 1 AND 2 OF CONNECTOR.
IS 115V AC PRESENT?
- NO → 30
- YES → 31

30 INSTALL CONNECTOR D1136 TO M716.
REPLACE NO. 1 BLOWER FWD CARGO SMOKE DETECTION CONTROL RELAY K331 (WM 26-16-21).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "FWD DET FAN" MESSAGE NO LONGER REMAINS.

31 REPLACE NO. 1 FWD CARGO SMOKE DETECTION BLOWER M716 (MM 26-16-02).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "FWD DET FAN" MESSAGE NO LONGER REMAINS.

32 INSTALL CONNECTOR D1444 TO PRESSURE SWITCH S454.
REPLACE NO. 1 BLOWER FWD CARGO SMOKE DETECTION DELAY RELAY K333 (WM 26-16-21).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "FWD DET FAN" MESSAGE NO LONGER REMAINS.

33 REPLACE FWD CARGO SMOKE DETECTION PRESSURE SWITCH S454 (MM 26-16-03).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "FWD DET FAN" MESSAGE NO LONGER REMAINS.

EICAS Message FWD DET FAN Displayed
Figure 106

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PREREQUISITES
ELECTRICAL POWER (MM 24-22-00)
EICAS (MM 31-41-00)
CB'S: 11B26,11B27,11K33,11U35,11U36,35A1,35A2,35A3, 35A4

EICAS MSG "CARGO DET AIR" DISPLAYED

1 DOES "CARGO DET AIR" MESSAGE REMAIN AFTER PREREQ-UISITES ARE SATISFIED?

YES → 5 DID "FWD DET FAN" MESSAGE ALSO APPEAR ON EICAS?

NO → 2 SYSTEM NORMAL.

YES → 10 REPLACE FORWARD SMOKE DETECTOR PLENUM PRESSURE SWITCH S454 (MM 26-16-03).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "CARGO DET AIR" AND "FWD DET FAN" MESSAGES NO LONGER REMAIN.
IF FAULT PERSISTS, REPLACE FORWARD SMOKE DETECTOR BLOWERS 1 AND 2 (M10462,M10463) (MM 26-16-02).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "CARGO DET AIR" AND "FWD DET FAN" MESSAGES NO LONGER REMAIN.

NO → 11 REPLACE AFT SMOKE DETECTOR PLENUM PRESSURE SWITCH S455 (MM 26-16-03).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "CARGO DET AIR" MESSAGE NO LONGER REMAINS.
IF FAULT PERSISTS, REPLACE AFT SMOKE DETECTOR BLOWERS 3 AND 4 (M10464,M10465) (MM 26-16-02).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "CARGO DET AIR" MESSAGE NO LONGER REMAINS.

EICAS Msg CARGO DET AIR Displayed
Figure 107

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EICAS MSG "FWD (AFT) CARGO DET 1 (2)" DISPLAYED

PREREQUISITES

ELECTRICAL POWER (MM 24-22-00)
EICAS (MM 31-41-00)
CB'S: 11B26,11B27,11K33,11U35,11U36,35A1,35A2,35A3, 35A4

1 DOES "FWD (AFT) CARGO DET 1 (2)" MESSAGE REMAIN AFTER PREREQUISITES ARE SATISFIED?

YES

5 PERFORM LOWER CARGO COMPARTMENT SMOKE DETECTION BITE PROCEDURE (26-16-00, FIG. 104).
PRESS "ECS/MSG" SWITCH ON EICAS PANEL AT P61, AND CHECK THAT "FWD (AFT) CARGO DET 1 (2)" MESSAGE NO LONGER REMAINS.

NO

2 SYSTEM NORMAL.

EICAS Msg FWD (AFT) CARGO DET 1 (2) Displayed
Figure 108

69351
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WHEEL WELL FIRE DETECTION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER –			FLT COMPT, P11	
WW FIRE/DUCT LEAK, C769	--	1	11B10	*
WW FIRE IND, C799	--	1	11B33	*
DETECTOR – WHEEL WELL FIRE, TS202,TS203, TS204,TS205	1	4	733,734,735,743,744,745, MAIN WHEEL WELLS	26-17-01
LIGHT – WHEEL WELL FIRE, L680	2	1	FLT COMPT, P3	*
PANEL – FIRE/OVHT TEST, M10445	2	1	FLT COMPT, P8	*

* SEE THE WDM EQUIPMENT LIST

Wheel Well Fire Detection – Component Index
Figure 101

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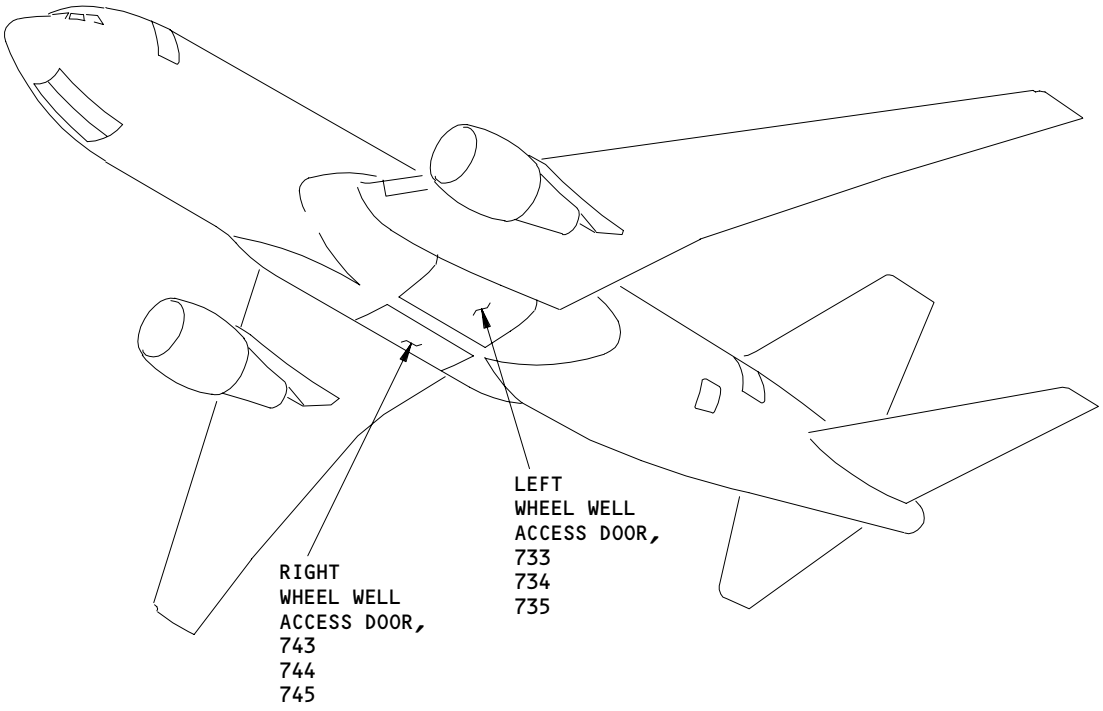

Wheel Well Fire Detection - Component Location
Figure 102 (Sheet 1)

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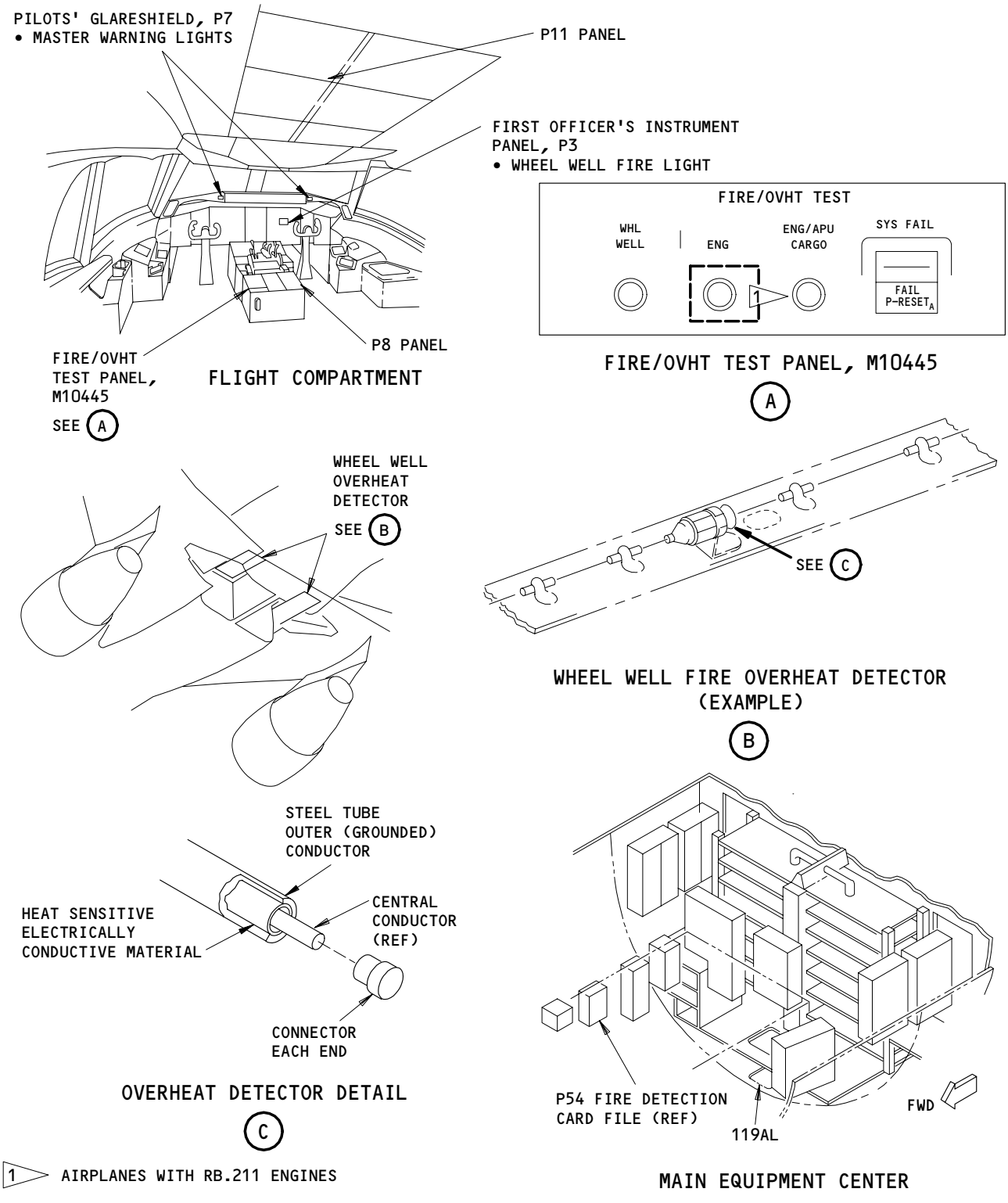

Wheel Well Detection – Component Location
Figure 102 (Sheet 2)

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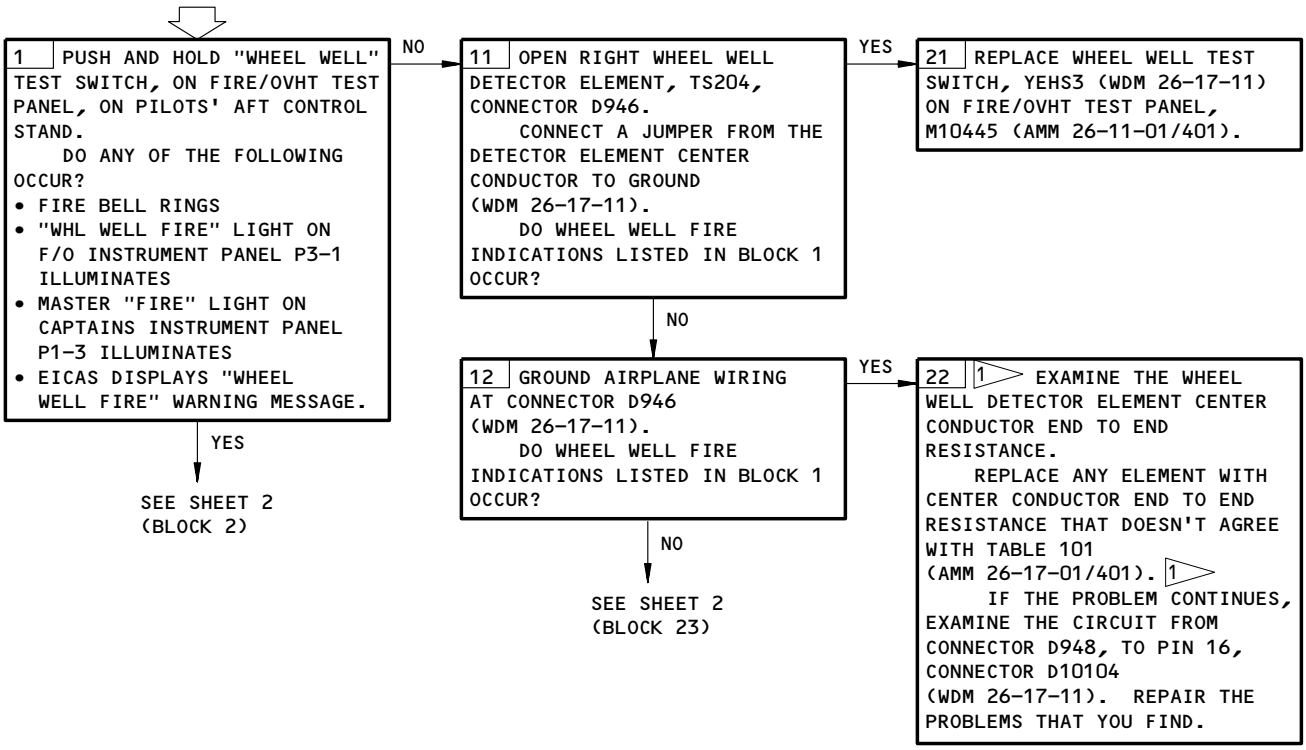
WHEEL WELL FIRE DETECTION BITE PROCEDURE

PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
- EICAS (AMM 31-41-00/501)
- WARNING SYSTEM (AMM 31-51-00/501)
- MASTER DIM AND TEST (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
- 11B10, 11B33

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
- ELECTRICAL POWER IS ON (AMM 24-22-00/201)



1 CAUTION: IMPROPER TESTING CAN CAUSE PERMANENT DAMAGE TO THE HEAT SENSING SYSTEM AND COULD VOID THE MANUFACTURER'S WARRANTY. WHEN TESTING FSSI SENSING ELEMENTS, DO NOT USE INSULATION RESISTANCE "MEGGER" TESTERS OR DIELECTRIC VOLTAGE (HIGH POTENTIAL VOLTAGE) TESTERS. DO NOT USE A METER THAT APPLIES DC VOLTAGE EXCEPT WHEN MEASURING THE CENTER CONDUCTOR RESISTANCE. DO NOT CHECK SENSING ELEMENTS HEATED TO WITHIN 100°F (38°C) OF THE ALARM POINT OF THE SENSOR.

CAUTION: THE RECEPTACLE (SOCKET) TYPE OF WIRE END FITTING CONNECTORS (FEMALE) CAN BE DAMAGED BY METER LEADS. USE A 0.0625 INCH (1.588 MM) TO 0.0628 INCH (1.595 MM) DIAMETER PIN INSERTED INTO THE RECEPTACLE TO PROVIDE A TEST POINT FOR MEASUREMENTS.

MEASURE THE SENSING ELEMENT CONDUCTANCE BETWEEN THE CENTER CONDUCTOR AND THE OUTER SHEATH OF THE TUBE USING AN LCR METER OR EQUIVALENT INSTRUMENT THAT CAN MEASURE 1 MEGOHM.

Wheel Well Fire Detection System BITE Procedure
Figure 103 (Sheet 1)

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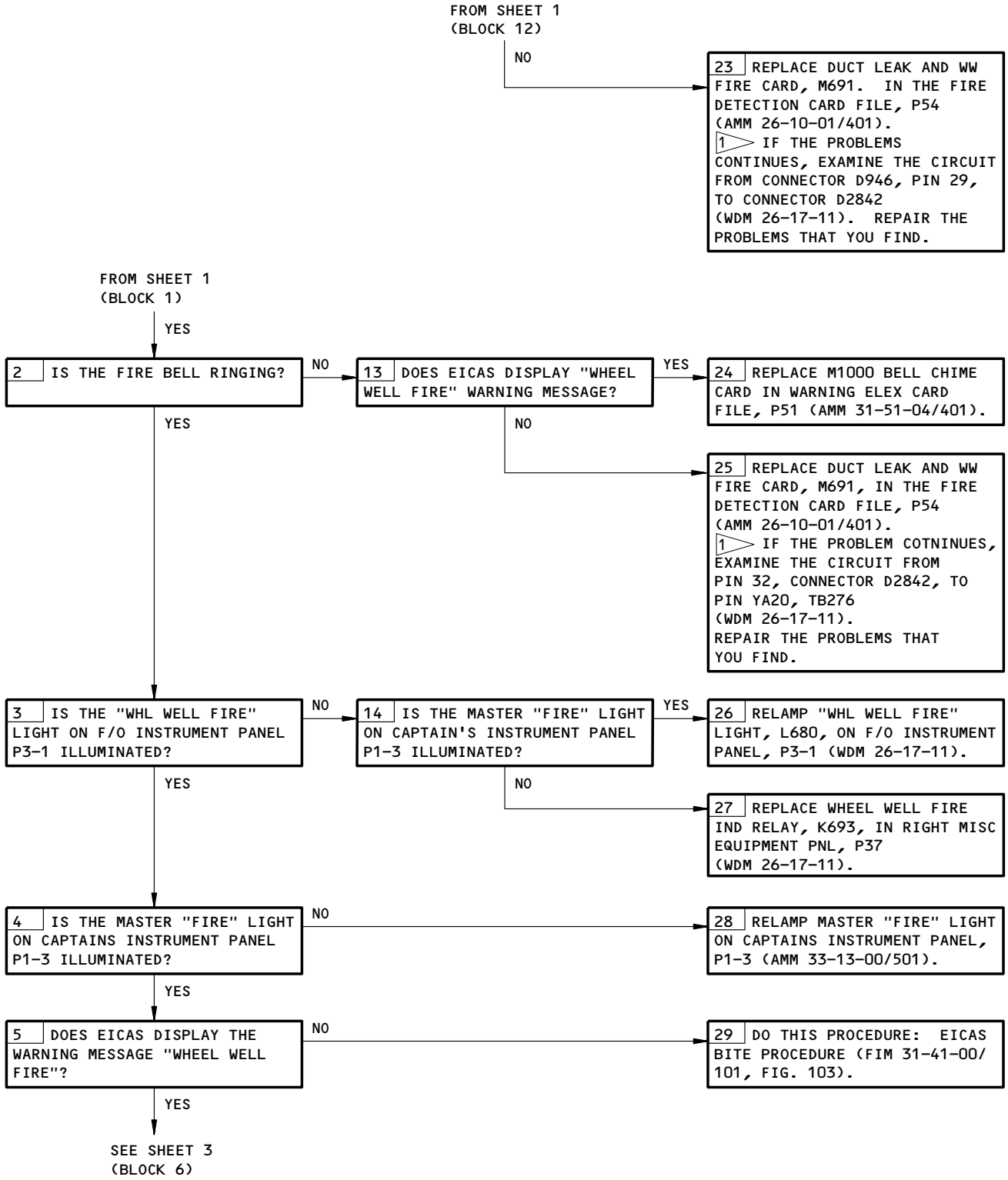

Wheel Well Fire Detection System BITE Procedure
Figure 103 (Sheet 2)

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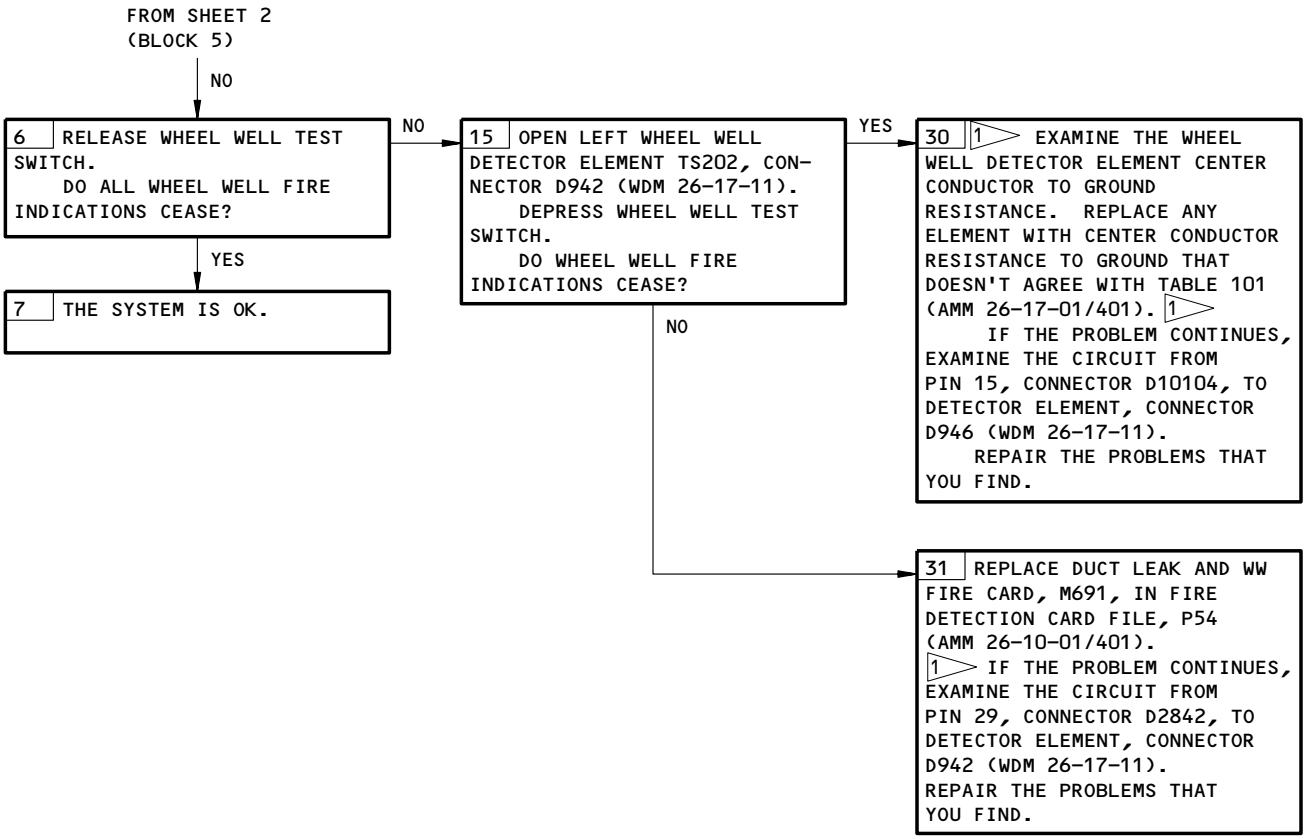

Wheel Well Fire Detection System BITE Procedure
Figure 103 (Sheet 3)

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EQUIPMENT NUMBER	PART NUMBER	VENDOR PART NUMBER	LENGTH (INCH)	MINIMUM RESISTANCE CORE-TO-CASE GROUND (MΩ)	MAX RESISTANCE CORE-TO-CORE (mΩ)
TS0202	S283T004-25	35599-4-400	99	1.01	738
TS0203	S283T004-26	35612-2-400	112	0.89	829
TS0204	S283T004-25	35599-4-400	99	1.01	738
TS0205	S283T004-26	35612-2-400	112	0.89	829

TABLE 101

Whell Well Detector Element Resistance Values
Figure 104

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DUCT LEAK DETECTION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CARD - (REF 26-10-00, FIG. 101) DUCT LEAK AND WHEEL WELL FIRE CONTROL, M691				
CIRCUIT BREAKER WW FIRE DUCT LEAK, C769	1	1	FLT COMPT, P11 11B10	*
COMPUTER - (REF 31-41-00, FIG. 101) L EICAS, M10181 R EICAS, M10182				
PANEL - (REF 36-10-00, FIG. 101) BLEED AIR SUPPLY, M15				
PANEL - (REF 28-43-00, FIG. 101) MISC TEST, M10398				
SENSOR - DUCT LEAK DETECTOR, TS208,TS209, TS210,TS211,TS212	2	5	733,734,735, L WING/BODY LOOP	26-18-01
SENSOR - DUCT LEAK DETECTOR, TS207,TS236, TS237	2	3	L WING ENGINE STRUT	26-18-01
SENSOR - DUCT LEAK DETECTOR, TS215,TS216, TS217,TS218,TS219	2	5	743,744,745, R WING/BODY LOOP	26-18-01
SENSOR - DUCT LEAK DETECTOR, TS214,TS238, TS239	2	3	R WING ENGINE STRUT	26-18-01
SENSOR - DUCT LEAK DETECTOR, TS220,TS221, TS229	2	3	732, L WHEEL WELL	26-18-01
SENSOR - DUCT LEAK DETECTOR, TS222,TS223, TS224,TS225,TS226,TS240	2	5	811, AFT CARGO COMPT	26-18-01
SENSOR - DUCT LEAK DETECTOR, TS227,TS228	2	2	195SL, ADP COMPT	26-18-01

* SEE WM EQUIPMENT LIST

Component Index
Figure 101

294231
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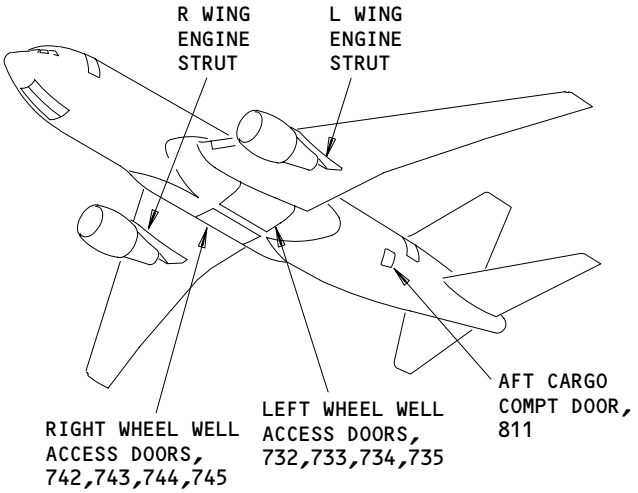
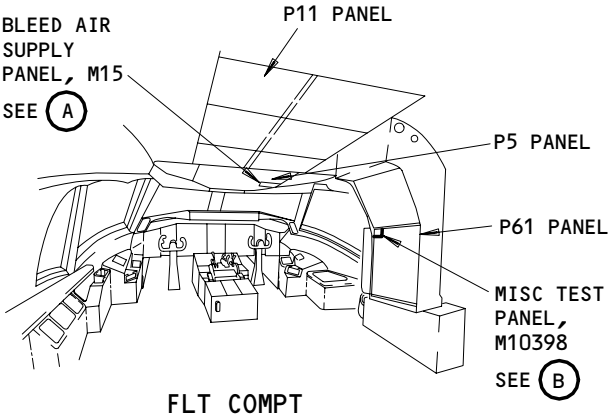
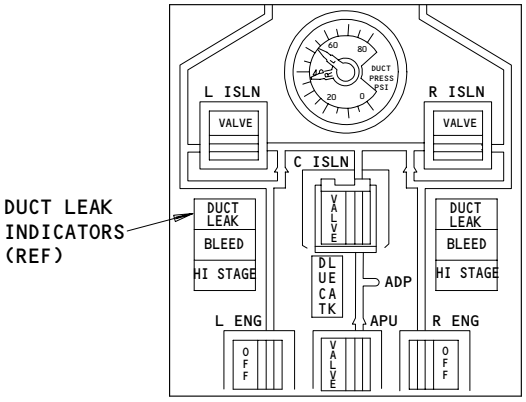


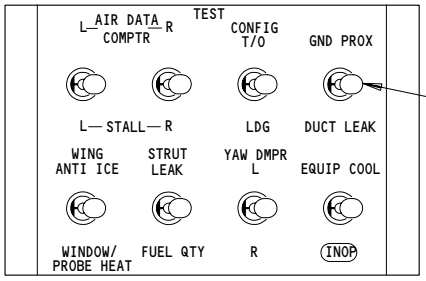


FLT COMPT



BLEED AIR SUPPLY PANEL, M15 (REF)

A



MISC TEST PANEL, M10398 (REF)

B

Component Location
Figure 102 (Sheet 1)

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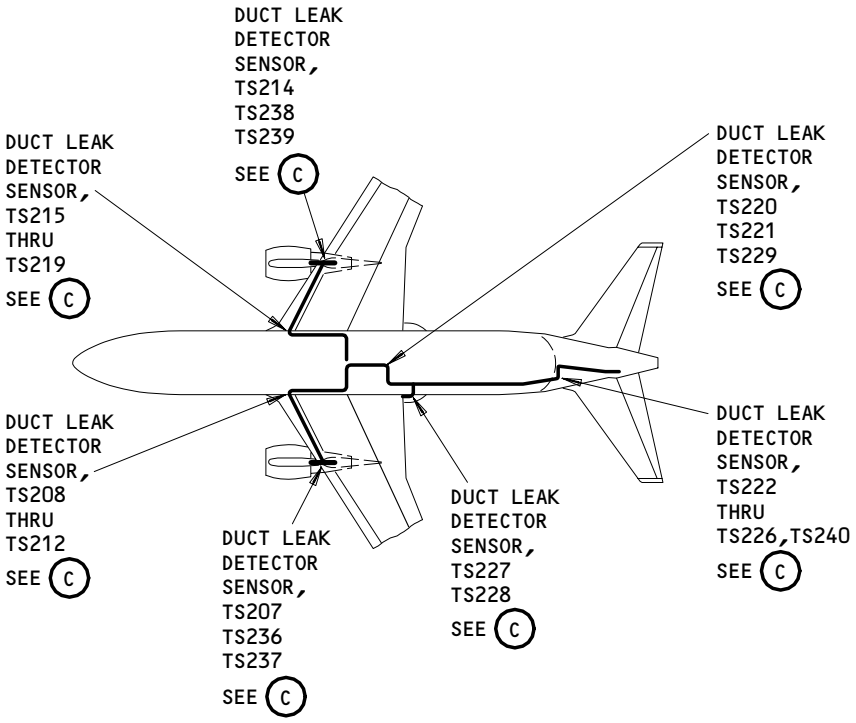
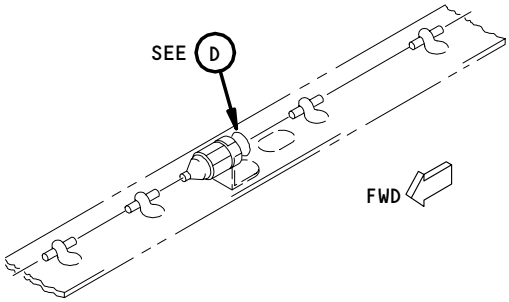
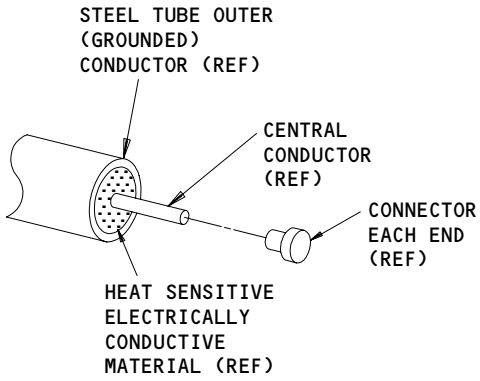


TYPICAL DUCT LEAK DETECTOR SENSOR
(TS207 THRU TS212,TS214 THRU
TS229,TS236 THRU TS240)

C





DUCT LEAK DETECTOR
SENSOR DETAIL

D

Component Location
Figure 102 (Sheet 2)

294233
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DUCT LEAK DETECTOR CONNECTORS

DETECTOR EQUIPMENT NUMBER	OUTBOARD CONNECTOR ACCESS	INBOARD CONNECTOR ACCESS	FORWARD CONNECTOR ACCESS	AFT CONNECTOR ACCESS
TS206	511PT*	511ST*	----	----
TS207	511NB*	511JB*	----	----
TS208	511GB*	511BB*	----	----
TS209	511BB*	193EL*	----	----
TS210	----	----	193EL*	193PL*
TS211	----	----	193PL*	193PL*
TS212	----	----	193PL*	193NL*
TS213	611PT*	611ST*	----	----
TS214	611NB*	611JB*	----	----
TS215	611GB*	611BB*	----	----
TS216	611BB*	194ER*	----	----
TS217	----	----	194ER*	194MR*
TS218	----	----	194MR*	194MR*
TS219	----	----	194MR*	194LR*
TS220	----	----	LEFT MLG WHEEL WELL	LEFT MLG WHEEL WELL
TS221	----	----	LEFT MLG WHEEL WELL	LEFT MLG WHEEL WELL
TS222	----	----	AFT CARGO BAY (BEHIND LINER) STA 1131	AFT CARGO BAY (BEHIND LINER) STA 1290
TS222 1>	----	----	AFT CARGO BAY (BEHIND LINER) STA 1131	AFT CARGO BAY (BEHIND LINER) STA 1197+88
TS223	----	----	AFT CARGO BAY (BEHIND LINER) STA 1290	AFT CARGO BAY (BEHIND LINER) STA 1480
TS224	----	----	AFT CARGO BAY (BEHIND LINER) STA 1480	AFT PRESSURE BULKHEAD
TS225	----	----	312AR*, AFT PRESSURE BULKHEAD	312AR*, STA 1678
TS226	----	----	312AR*, STA 1678	313AL*
TS227	----	----	AFT CARGO BAY (BEHIND LINER) STA 1197	AFT CARGO BAY (BEHIND LINER) STA 1197
TS228			195SL*	195SL*
TS229			LEFT MLG WHEEL WELL	LEFT MLG WHEEL WELL
TS240 1>	----	----	AFT CARGO BAY (BEHIND LINER) STA 1197+88	AFT CARGO BAY (BEHIND LINER) STA 1290

* ACCESS PANELS (REF CHAPTER 6)

1> 767-300 AIRPLANES

Wing and Body Duct Leak Detector Connectors Location Table
Figure 103

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WING AND BODY DUCT LEAK DETECTION BITE PROCEDURE

PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:
- EICAS (AMM 31-41-00/201)
- MASTER DIM AND TEST (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
- 11B10,11S10,11S11,11S19,11S20

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
- ELECTRICAL POWER IS ON (AMM 24-22-00/201)

1 PUSH AND HOLD "LIGHTING" TEST SWITCH ON RIGHT LIGHTING CONTROL PANEL ON OVERHEAD PANEL P5. ENSURE RIGHT, LEFT AND CENTER "DUCT LEAK" LIGHTS ON BLEED AIR SUPPLY PANEL COME ON. RELEASE TEST SWITCH AND RELAMP AS NECESSARY.
TOGGLE AND HOLD THE "DUCT LEAK" TEST SWITCH, ON RIGHT SIDE PANEL P61, IN THE "DUCT LEAK" POSITION.
DO ANY OF THE FOLLOWING INDICATIONS OCCUR?
- RIGHT, LEFT AND CENTER "DUCT LEAK" LIGHTS ON BLEED AIR SUPPLY PANEL, M15, COME ON
- EICAS DISPLAYS THE AMBER CAUTION MESSAGES:
  - R BLD DUCT LEAK
  - L BLD DUCT LEAK
  - BODY DUCT LEAK

NO → 20 DISCONNECT CONNECTOR D10222 AT REAR OF MISC TEST PANEL, M10398 (WDM 26-18-11, -21,-31). GROUND PIN 7 ON CONNECTOR D10222.
DOES THE LEFT "DUCT LEAK" LIGHT ON BLEED AIR SUPPLY PANEL COME ON?

NO → 50 REPLACE DUCT LEAK AND WHEEL WELL FIRE CARD, M691 (AMM 26-10-01/401).

YES → 21 CHECK FOR A GROUND AT PIN 5 ON CONNECTOR D10222.
IS A GROUND PRESENT?

NO → 51 EXAMINE THE CIRCUIT FROM PIN 5 ON CONNECTOR D10222 TO ASSOCIATED GROUND TERMINAL STUD (WDM 26-18-11,-21,-31). REPAIR THE PROBLEMS THAT YOU FIND.

YES → 52 REPLACE DUCT LEAK TEST SWITCH, YEIS6, ON MISC TEST PANEL, M10398 (WDM 26-18-11, -21,-31).

YES → 2 DOES THE RIGHT "DUCT LEAK" LIGHT ON BLEED AIR SUPPLY PANEL COME ON?

NO → 22 DISCONNECT CONNECTOR D10222 AT REAR OF MISC TEST PANEL, M10398 (WDM 26-18-11, -21,-31). GROUND PIN 30 ON CONNECTOR D10222.
DOES THE RIGHT "DUCT LEAK" LIGHT COME ON?

NO → 53 REPLACE DUCT LEAK AND WHEEL WELL FIRE CARD, M691 (AMM 26-10-01/401).

YES → 54 ISOLATE BAD ELEMENT IN RIGHT WING DUCT LEAK DETECTION LOOP BY CHECKING INDIVIDUAL ELEMENT CENTER CONDUCTORS FOR END-TO-END CONTINUITY (WDM 26-18-21). 1
REPLACE ANY DETECTOR ELEMENT WITH CENTER CONDUCTOR END-TO-END RESISTANCE GREATER THAN 10 OHMS (AMM 26-18-01/401).
SEE TABLE 101 FOR RESISTANCE VALUES.
IF THE PROBLEM CONTINUES, EXAMINE RIGHT WING DUCT LEAK LOOP CIRCUIT FROM PIN 18 TO PIN 31 ON CONNECTOR D10222 (WDM 26-18-21). REPAIR THE PROBLEMS THAT YOU FIND.

YES → SEE SHEET 2 (BLOCK 3)

1 REF FIG. 103 FOR DETECTOR CONNECTOR LOCATION

Wing and Body Duct Leak Detection BITE Procedure
Figure 104 (Sheet 1)

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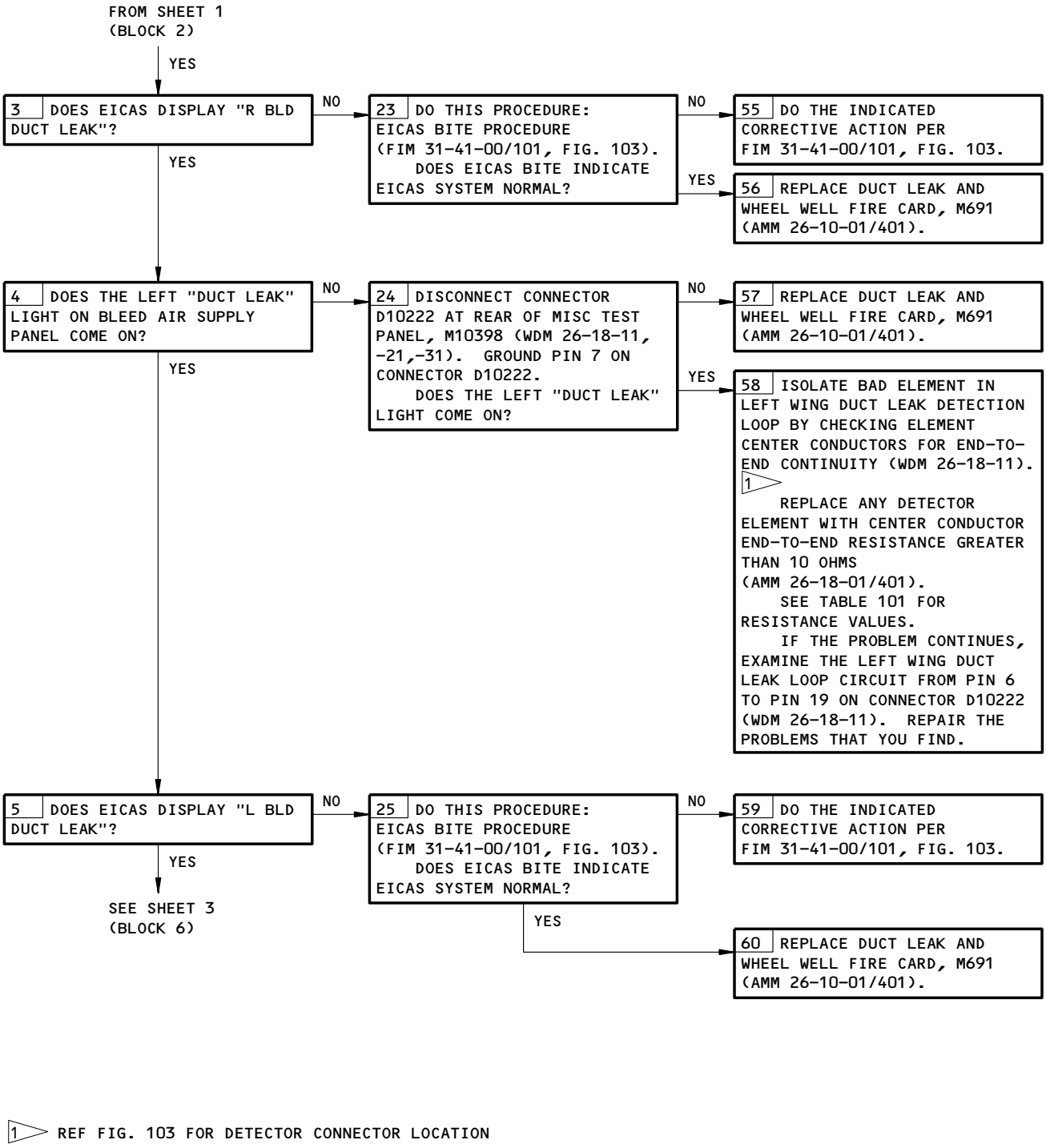

1 REF FIG. 103 FOR DETECTOR CONNECTOR LOCATION

Wing and Body Duct Leak Detection BITE Procedure
Figure 104 (Sheet 2)

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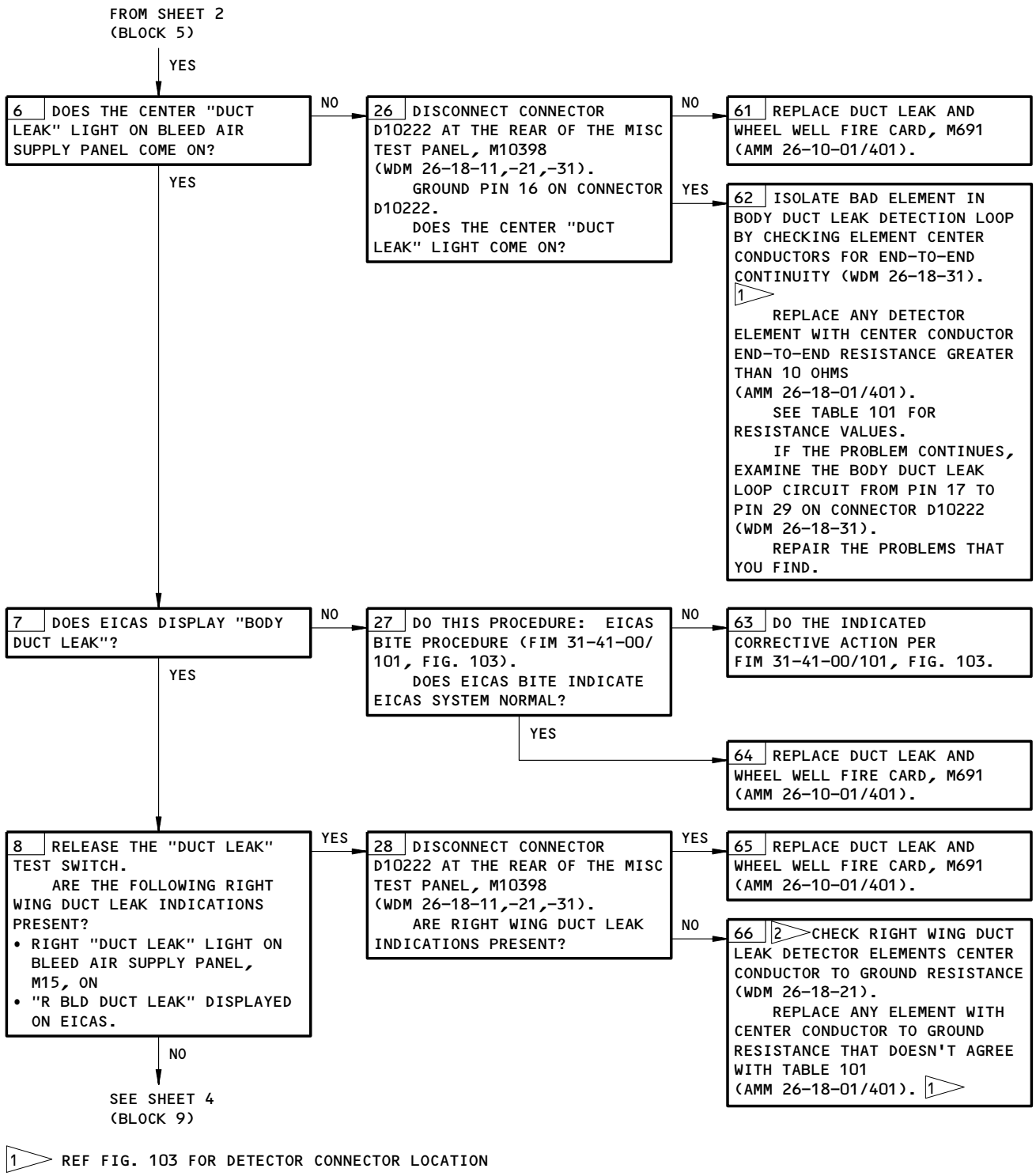

Wing and Body Duct Leak Detection BITE Procedure
Figure 104 (Sheet 3)

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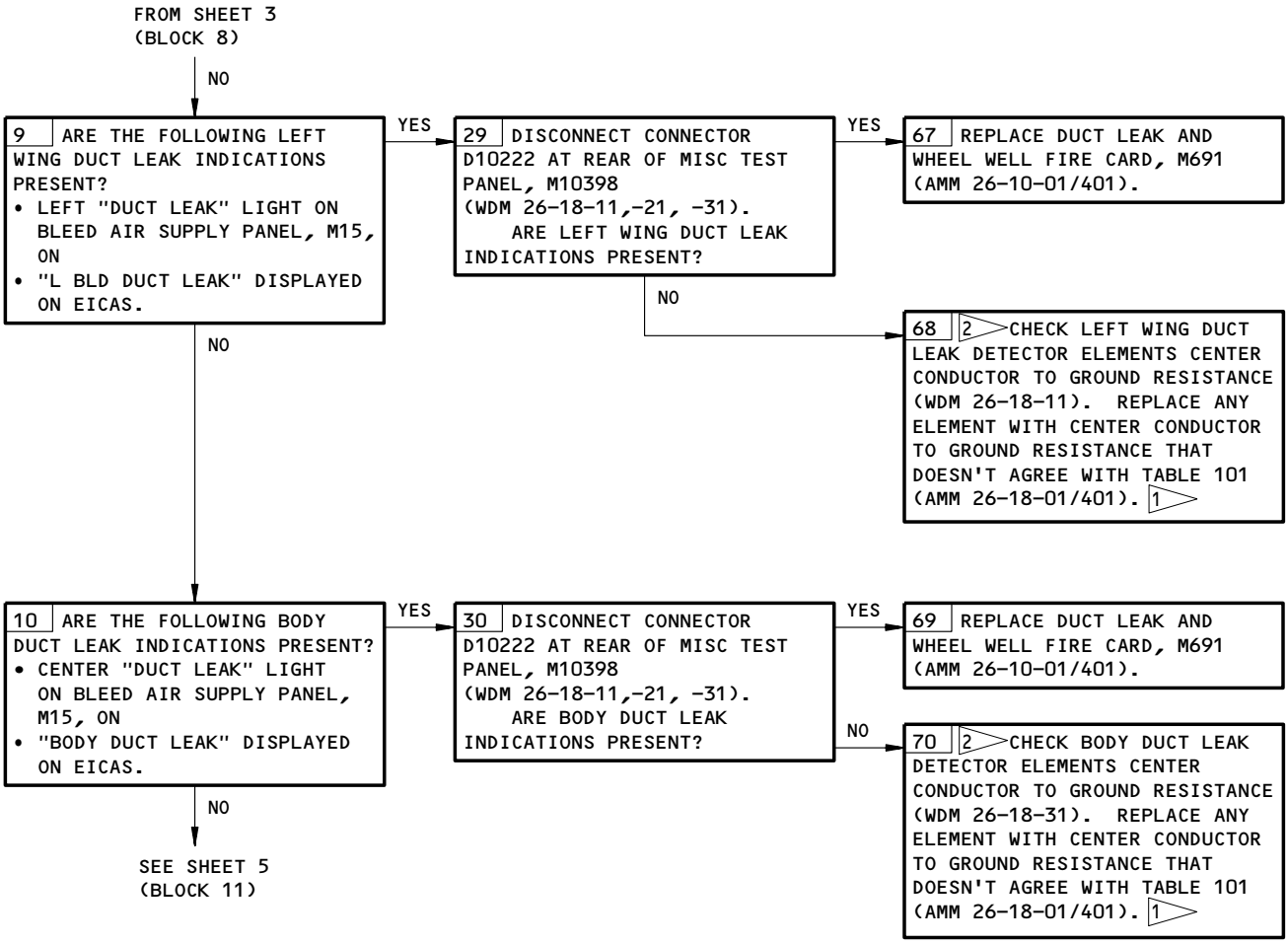

1 REFERENCE FIG. 103 FOR DETECTOR CONNECTOR LOCATION

2 CAUTION: IMPROPER TESTING CAN CAUSE PERMANENT DAMAGE TO THE HEAT SENSING SYSTEM AND COULD VOID THE MANUFACTURER'S WARRANTY. WHEN TESTING FSSI SENSING ELEMENTS, DO NOT USE INSULATION RESISTANCE "MEGGER" TESTERS OR DIELECTRIC VOLTAGE (HIGH POTENTIAL VOLTAGE) TESTERS. DO NOT USE A METER THAT APPLIES DC VOLTAGE EXCEPT WHEN MEASURING THE CENTER CONDUCTOR RESISTANCE. DO NOT CHECK SENSING ELEMENTS HEATED TO WITHIN 100°F (38°C) OF THE ALARM POINT OF THE SENSOR.

CAUTION: THE RECEPTACLE (SOCKET) TYPE OF WIRE END FITTING CONNECTORS (FEMALE) CAN BE DAMAGED BY METER LEADS. USE A 0.0625 INCH (1.588 MM) TO 0.0628 INCH (1.595 MM) DIAMETER PIN INSERTED INTO THE RECEPTACLE TO PROVIDE A TEST POINT FOR MEASUREMENTS.

MEASURE THE SENSING ELEMENT CONDUCTANCE BETWEEN THE CENTER CONDUCTOR AND THE OUTER SHEATH OF THE TUBE USING AN LCR METER OR EQUIVALENT INSTRUMENT THAT CAN MEASURE 1 MEGOHM.

Wing and Body Duct Leak Detection BITE Procedure
Figure 104 (Sheet 4)

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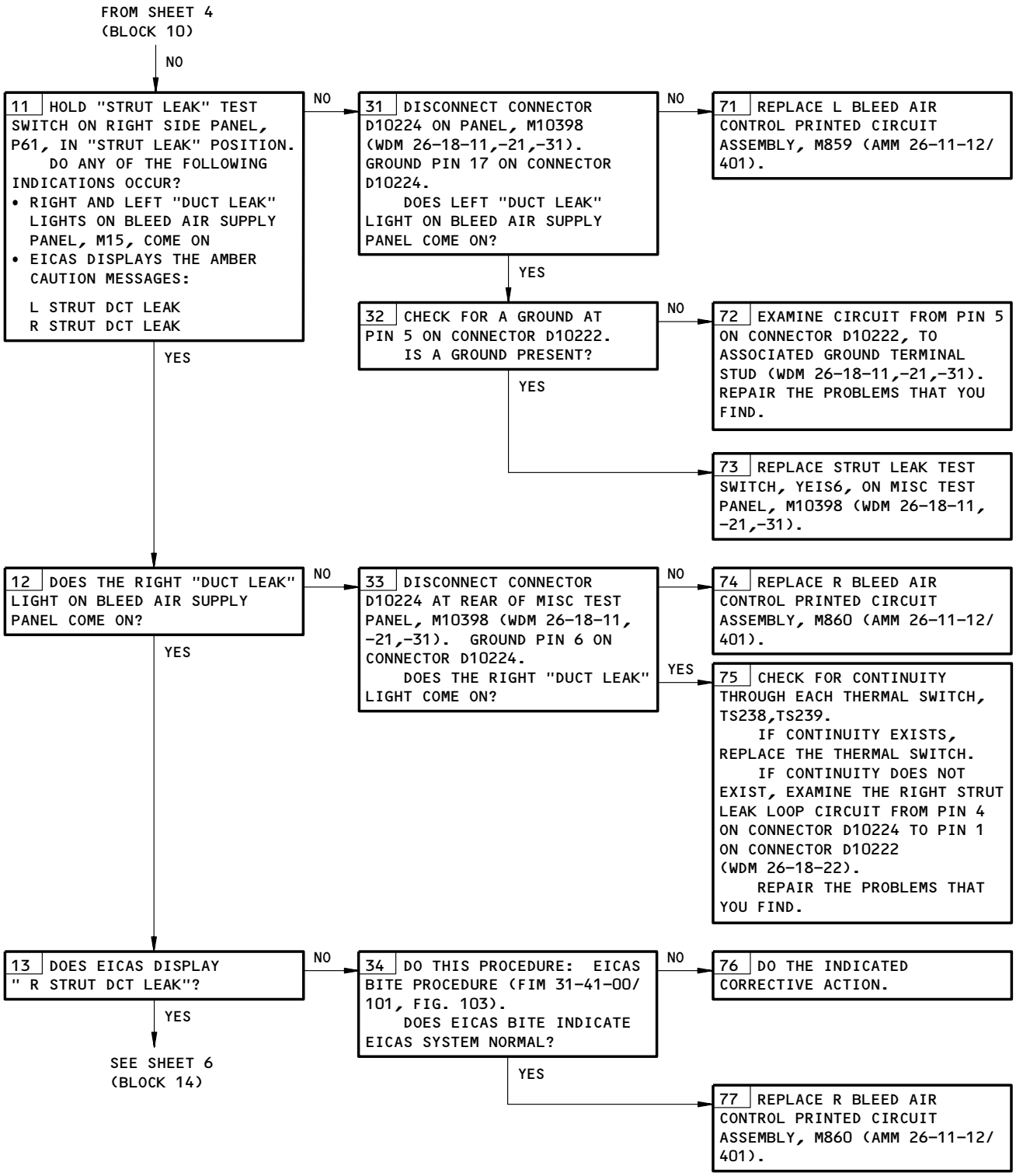

Wing and Body Duct Leak Detection BITE Procedure
Figure 104 (Sheet 5)

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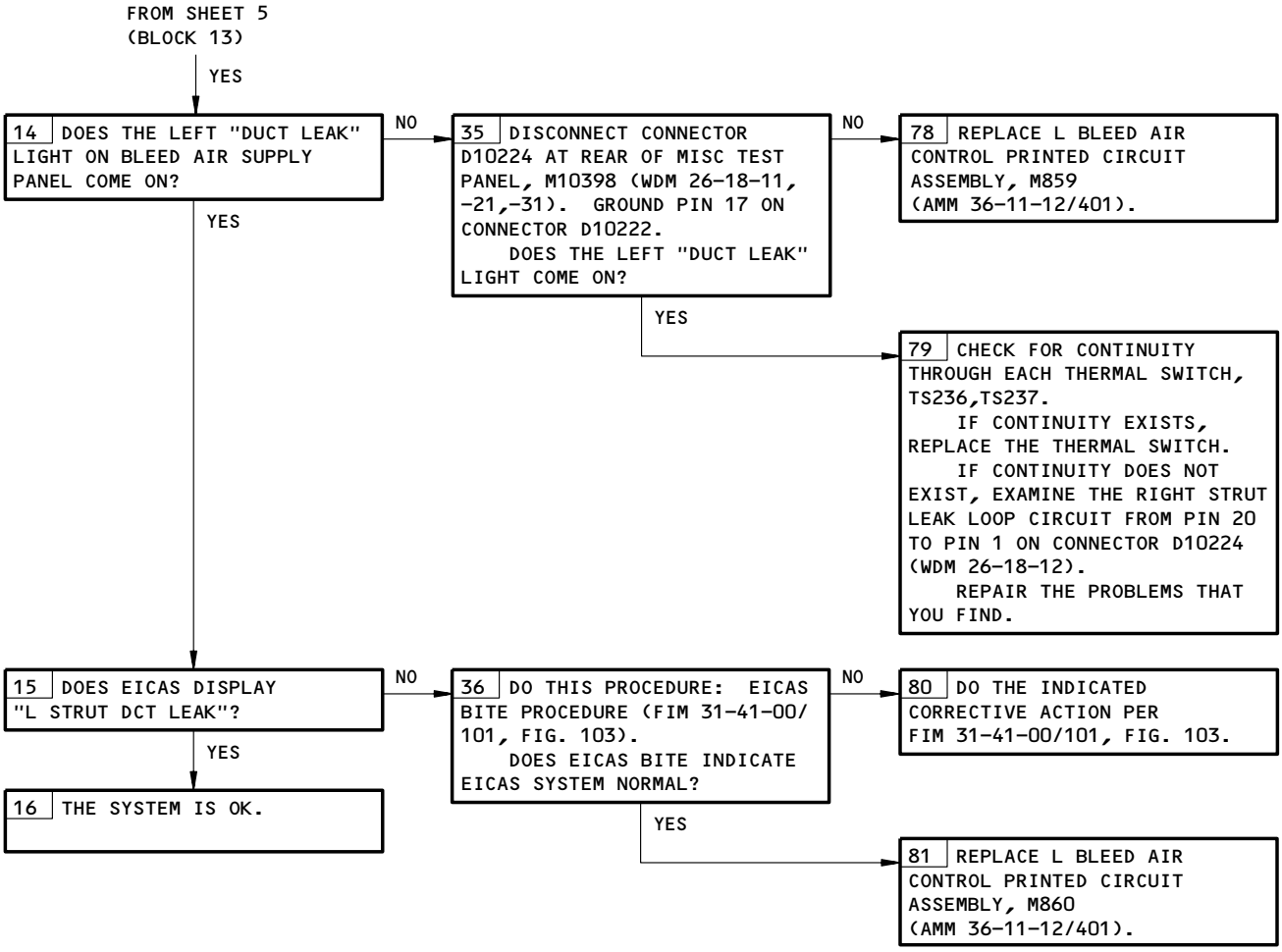

Wing and Body Duct Leak Detection BITE Procedure
Figure 104 (Sheet 6)

G15363

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WING AND BODY DUCT LEAK DETECTION

1. Overheat Detector Element Resistance Values

TABLE 101. OVERHEAT DETECTOR ELEMENT RESISTANCE VALUES

EQUIPMENT NUMBER	VENDOR PART NUMBER	MINIMUM RESISTANCE CORE-TO-CASE GROUND (Megohms)	MAXIMUM RESISTANCE CORE-TO-CORE (Milliohms)
TS208	35580-2-255 35574-2-255	1.250 1.351	605 563
TS209	35605-3-255 35598-2-255 35605-2-255	0.952 1.020 0.952	780 731 780
TS210	35553-2-255 35547-2-255	1.887 2.128	416 374
TS211	35640-2-255	0.714	1025
TS212	35590-2-255	1.111	675
TS206	35570-4-310 35575-4-310	0.286 0.267	535 570
TS207	35562-3-310 35564-3-310 35564-2-310	0.323 0.313 0.313	479 493 493
TS236	975-0304-003	250.0	100
TS237	975-0304-003	250.0	100
TS215	35580-2-255 35574-2-255	1.250 1.351	605 563
TS216	35605-3-255 35598-2-255 35605-2-255	0.952 1.020 0.952	780 731 780
TS217	35553-2-255 35547-2-255	1.887 2.128	416 374
TS218	35640-2-255	0.714	1025
TS219	35607-2-255	0.935	794
TS213	35570-4-310 35575-4-310	0.286 0.267	535 570

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TABLE 101. OVERHEAT DETECTOR ELEMENT RESISTANCE VALUES			
EQUIPMENT NUMBER	VENDOR PART NUMBER	MINIMUM RESISTANCE CORE-TO-CASE GROUND (Megohms)	MAXIMUM RESISTANCE CORE-TO-CORE (Milliohms)
TS214	35562-3-310 35565-3-310 35565-2-310	0.323 0.308 0.308	479 500 500
TS238	975-0304-003	250.0	100
TS239	975-0304-003	250.0	100
TS220	35607-2-255	0.935	794
TS221	35640-2-255 35634-2-255 35625-2-255	0.714 0.746 0.800	1025 983 920
TS229	35580-2-255	1.250	605
TS222	35680-2-255 35677-2-255	0.556 0.565	1305 1284
TS223	35680-2-255	0.556	1305
TS224	35640-2-255 35634-2-255 35640-3-255	0.714 0.746 0.714	1025 983 1025
TS225	35661-2-255 35629-2-255	0.621 0.775	1172 948
TS226	35680-2-255	0.556	1305
TS240	35634-2-255	0.746	983
TS241	35625-2-255	0.800	920
TS227	35553-2-255	1.887	416
TS228	35574-2-255	1.351	563

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ENGINE FIRE EXTINGUISHING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
BOTTLE - ENG FIRE EXT, B17,B18	1	2	821, FWD CARGO COMPT	26-21-03
CIRCUIT BREAKERS	1		FLT COMPT, P6	
FIRE EXT L BTL 1, C778		1	6H1	
FIRE EXT ENG L BTL 2, C786		1	6H2	
FIRE EXT ENG R BTL 1, C779		1	6H3	
FIRE EXT ENG R BTL 2, C787		1	6H4	
COMPUTER - (REF 31-41-00, FIG. 101)				
EICAS L, M10181				
EICAS R, M10182				
LIGHT - ENG BTL 1 DISCH, YEGL2	2	1	FLT COMPT, ENG FIRE CONTROL PNL, M10443	*
LIGHT - ENG BTL 2 DISCH, YEGL3	2	1	FLT COMPT, ENG FIRE CONTROL PNL, M10443	*
LIGHT - L ENG, YA3L3	2	1	FLT COMPT, SQUIB TEST PNL, M32	*
LIGHT - R ENG, YA3L4	2	1	FLT COMPT, SQUIB TEST PNL, M32	*
PANEL - ENG FIRE CONTROL, M10443	2	1	FLT COMPT, P8	26-21-01
PANEL - SQUIB TEST, M32	2	1	FLT COMPT, P61	26-21-04
SQUIB - L ENG, YFUB1	2	1	821, FWD CARGO COMPT, ENG FIRE EXT BOTTLE, B17	26-21-03
SQUIB - L ENG, YFVB1	2	1	821, FWD CARGO COMPT, ENG FIRE EXT BOTTLE, B18	26-21-03
SQUIB - R ENG, YFUB2	2	1	821, FWD CARGO COMPT, ENG FIRE EXT BOTTLE, B17	26-21-03
SQUIB - R ENG, YFVB2	2	1	821, FWD CARGO COMPT, ENG FIRE EXT BOTTLE, B18	26-21-03
SWITCH - LEFT ENG FIRE, YEGS37	2	1	FLT COMPT, ENG FIRE CONTROL PNL, M10443	*
SWITCH - RIGHT ENG FIRE, YEGS38	2	1	FLT COMPT, ENG FIRE CONTROL PNL, M10443	*
SWITCH - TEST 1, YA3S1	2	1	FLT COMPT, SQUIB TEST PNL, M32	*
SWITCH - TEST 2, YA3S2	2	1	FLT COMPT, SQUIB TEST PNL, M32	*

* SEE WM EQUIPMENT LIST

Component Index
Figure 101

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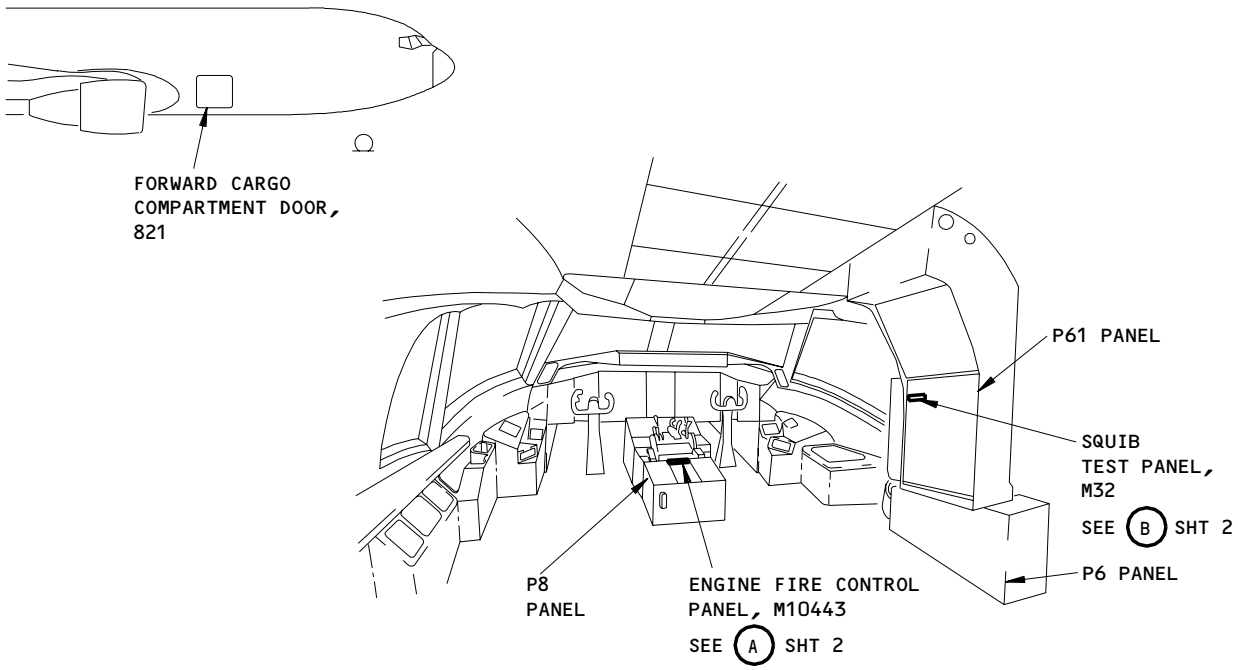
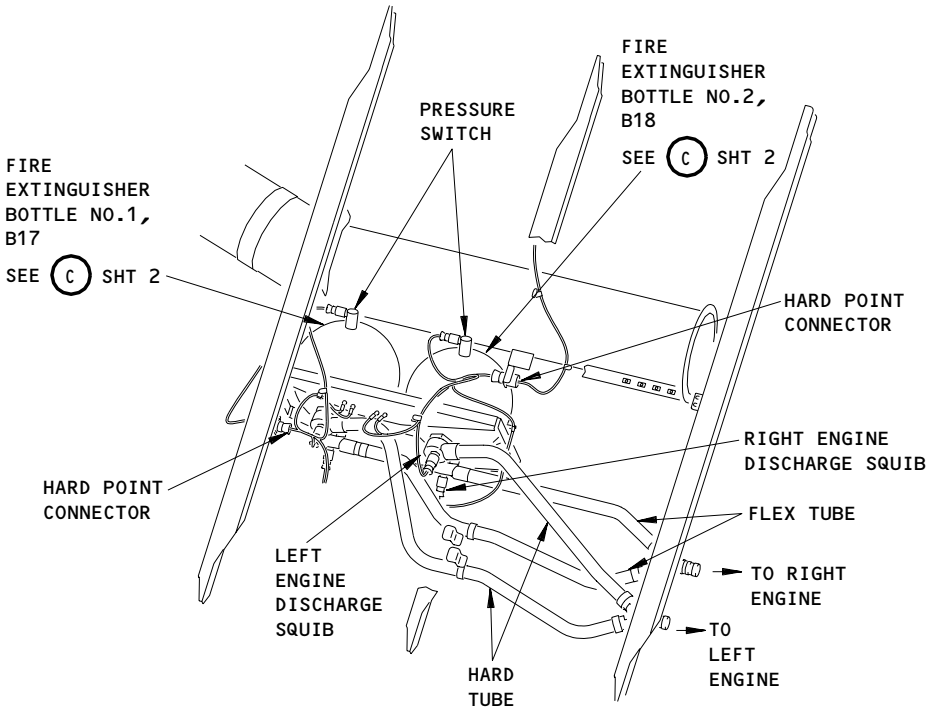


FLIGHT COMPARTMENT



Engine Fire Extinguishing System – Component Location
Figure 102 (Sheet 1)

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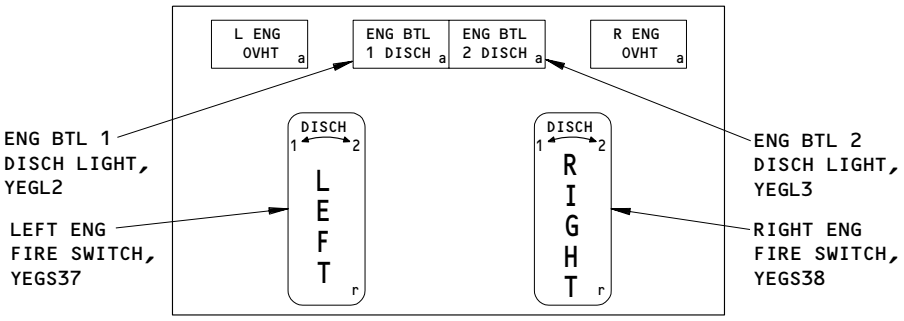
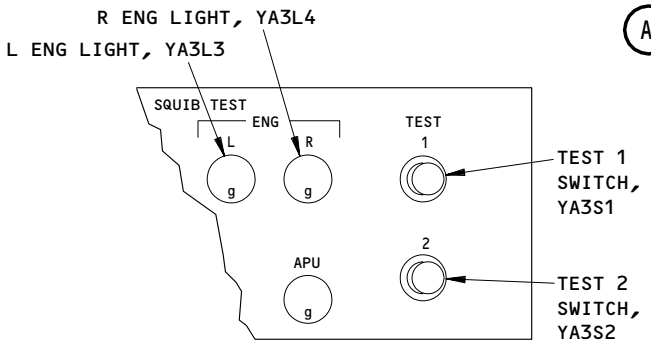


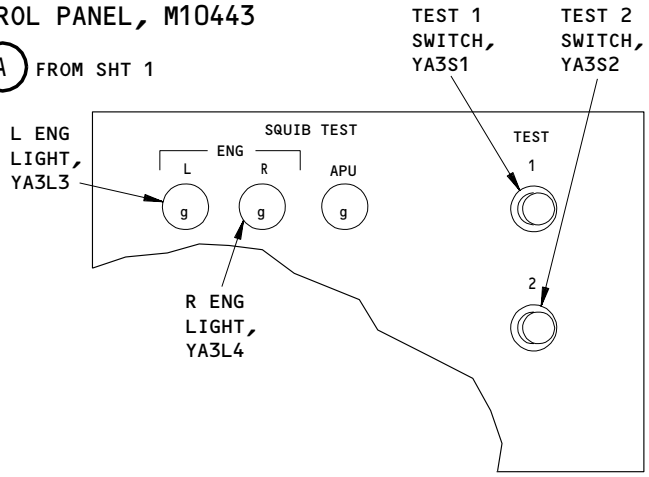
ENGINE FIRE CONTROL PANEL, M10443

A FROM SHT 1



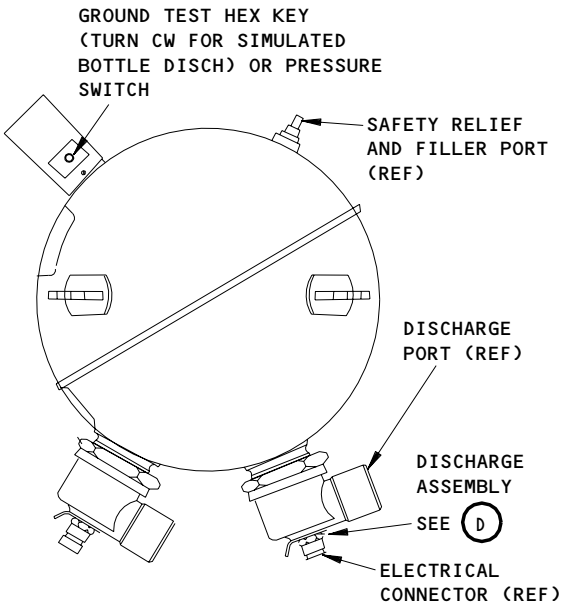
SQUIB TEST PANEL, M32

B FROM SHT 1 1



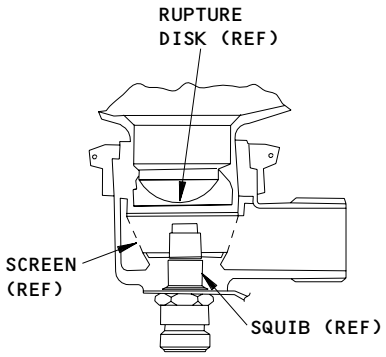
SQUIB TEST PANEL, M32

B FROM SHT 1 2



ENGINE FIRE EXTINGUISHER BOTTLE, B17, B18

C FROM SHT 1



DISCHARGE ASSEMBLY

D

1 AIRPLANES WITH TWO CARGO FIRE EXTINGUISHING BOTTLES

2 AIRPLANES WITH THREE CARGO FIRE EXTINGUISHING BOTTLES

Engine Fire Extinguishing System - Component Location
Figure 102 (Sheet 2)

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APU FIRE EXTINGUISHING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
BOTTLE - APU FIRE EXTINGUISHING, B25	2	1	313AL, SERVICE DOOR	26-22-02
CIRCUIT BREAKER -			FLT COMPT, P6	
FIRE EXTINGUISHING APU 1, C780		1	6G1	*
CIRCUIT BREAKER -			FLT COMPT, P11	
APU REMOTE FIRE IND, C796			11B34	*
COMPUTERS - (31-41-00/101)				
EICAS L, M10181				
EICAS R, M10182				
LIGHT - APU BTL DISCH, YDOL1		1	FLT COMPT, APU/CARGO FIRE CONT PNL, M10444	*
LIGHT - APU SQUIB TEST, YA3L7	1	1	FLT COMPT, SQUIB TEST CONT PNL, M32	*
PANEL - (26-15-00/101)				
APU REMOTE CONTROL, P40				
PANEL - (26-21-00/101)				
SQUIB TEST CONT, M32				
PANEL - APU/CARGO FIRE CONT, M10444	1	1	FLT COMPT, P8	*
RELAY - (31-01-37/101)				
EXTERNAL SHUTDOWN, K421				
SQUIB - YFWB1	2	1	313AL, SERVICE DOOR, APU FIRE EXTINGUISHING BTL, B25	26-22-02
SWITCH - APU FIRE, YDOS39	1	1	FLT COMPT, P8, APU CARGO FIRE CONT PNL, M10444	26-22-02
SWITCH - TEST 1, YA3S1	1	1	FLT COMPT, P61, SQUIB TEST CONT PNL, M32	*
SWITCH - TEST 2, YA3S2	1	1	FLT COMPT, P61, SQUIB TEST CONT PNL, M32	*

* SEE THE WDM EQUIPMENT LIST

APU Fire Extinguishing System - Component Index
Figure 101

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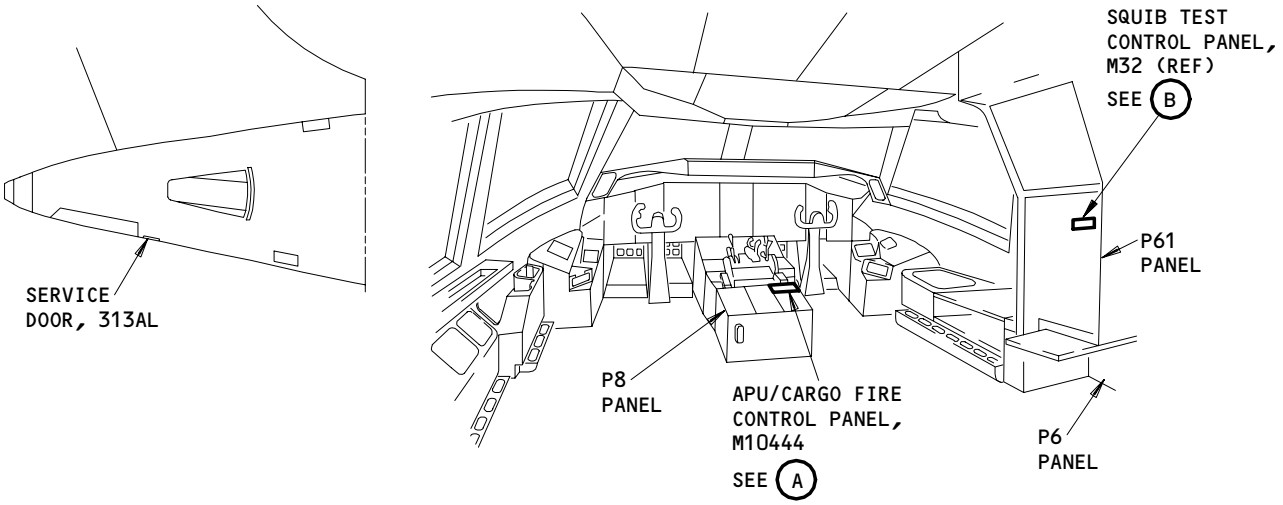
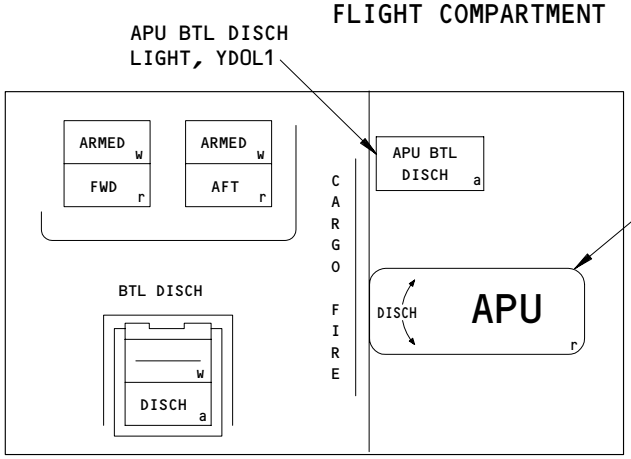
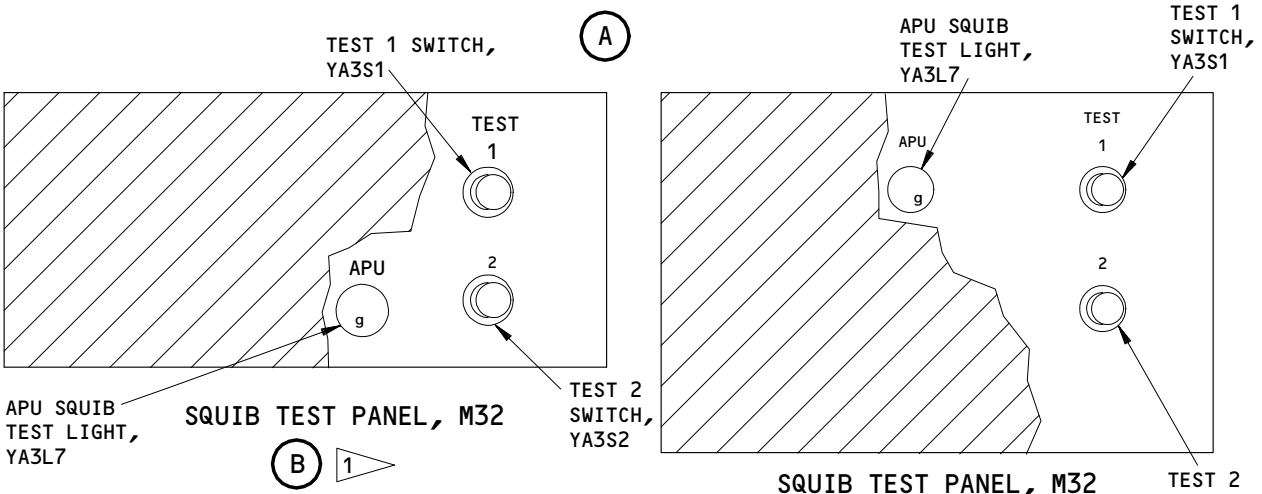


FLIGHT COMPARTMENT



APU/CARGO FIRE CONTROL PANEL, M10444

A



1 AIRPLANES WITH TWO CARGO EXTINGUISHING BOTTLES INSTALLED

2 AIRPLANES WITH THREE CARGO EXTINGUISHING BOTTLES INSTALLED

APU Fire Extinguishing System - Component Location
Figure 102 (Sheet 1)

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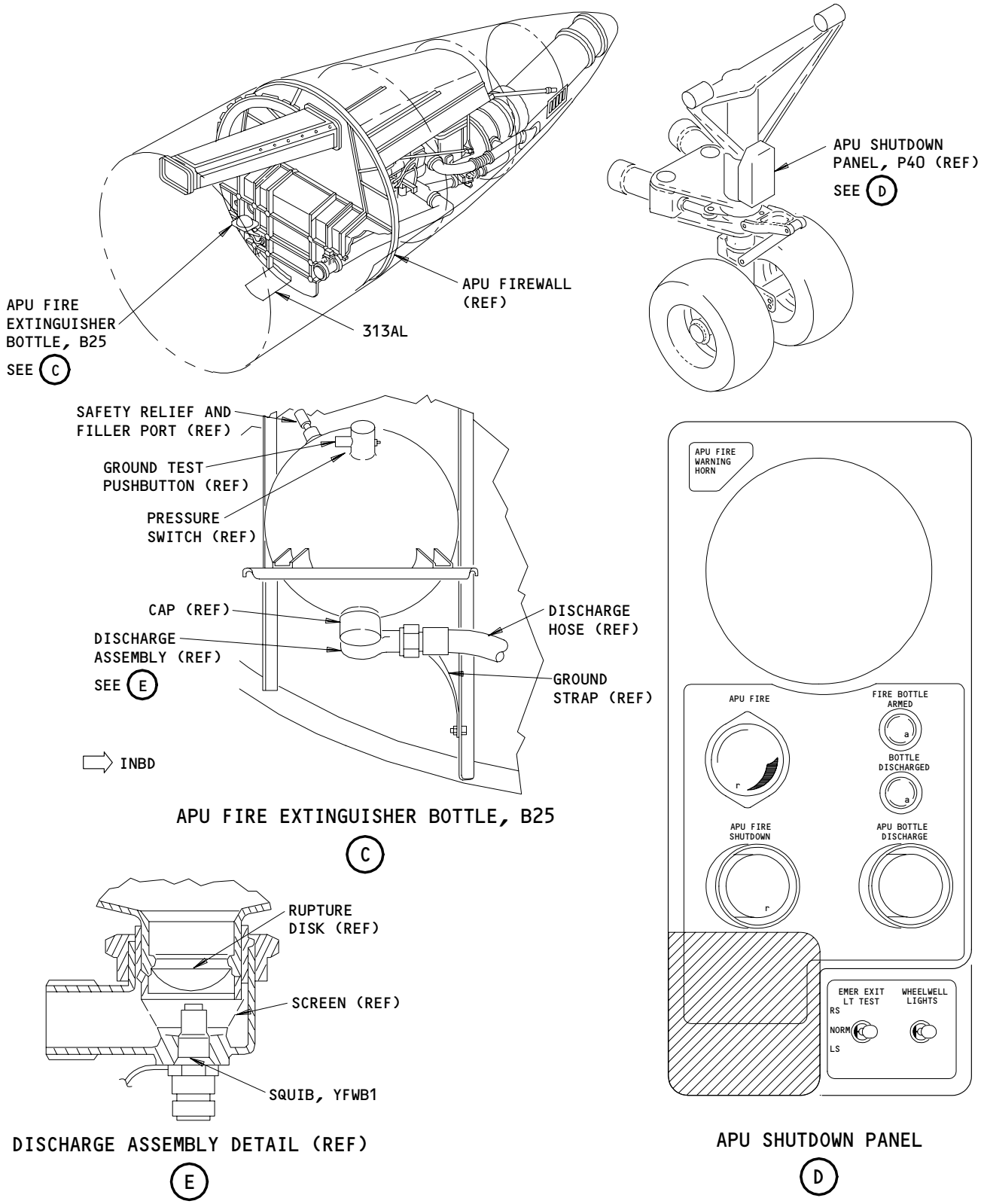

APU Fire Extinguishing System - Component Location
Figure 102 (Sheet 2)

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APU FIRE EXTINGUISHING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
BOTTLE - APU FIRE EXTINGUISHING, B25,B138	2	2	313AL, SERVICE DOOR	26-22-02
CIRCUIT BREAKERS -			FLT COMPT, P6	
FIRE EXT APU 1, C780		1	6G1	*
FIRE EXT APU 2, C782		1	6G2	*
CIRCUIT BREAKER -				
APU REMOTE FIRE IND, C796			11B34	*
COMPUTERS - (31-41-00/101)				
EICAS L, M10181				
EICAS R, M10182				
LIGHT - APU SQUIB TEST, YA3L7	1	1	FLT COMPT, P61, SQUIB TEST CONT PNL, M32	*
LIGHT - APU BTL 1 DISCH, YDOL1	1	1	FLT COMPT, P8, APU CARGO FIRE CONTROL PNL, M10444	*
LIGHT - APU BTL 2 DISCH, YDOL2	1	1	FLT COMPT, P8, APU CARGO FIRE CONTROL PNL, M10444	*
PANEL - (26-15-00/101)				
APU REMOTE CONTROL, P40				
PANEL - (26-21-00/101)				
SQUIB TEXT CONT, M32				
PANEL - APU CARGO FIRE CONT, M10444	1	1	FLT COMPT, P8	*
RELAY - (31-01-37/101)				
EXTERNAL SHUTDOWN, K421				
SQUIB, YFWB1	2	1	313AL, SERVICE DOOR, APU FIRE EXT BTL, B25	26-22-02
SQUIB, YFXB1	2	1	313AL, SERVICE DOOR, APU FIRE EXT BTL, B138	26-22-02
SWITCH - APU FIRE, YDOS39	1	1	FLT COMPT, P8, APU FIRE CONTROL PNL, M10444	*
SWITCH - TEST 1, YA3S1	1	1	FLT COMPTAA, P61, SQUIB TEST CONT PNL, M32	*
SWITCH - TEST 2, YA3S2	1	1	FLT COMPT, P61, SQUIB TEST PNL, M32	*

* SEE THE WDM EQUIPMENT LIST

APU Fire Extinguishing System - Component Index
Figure 101

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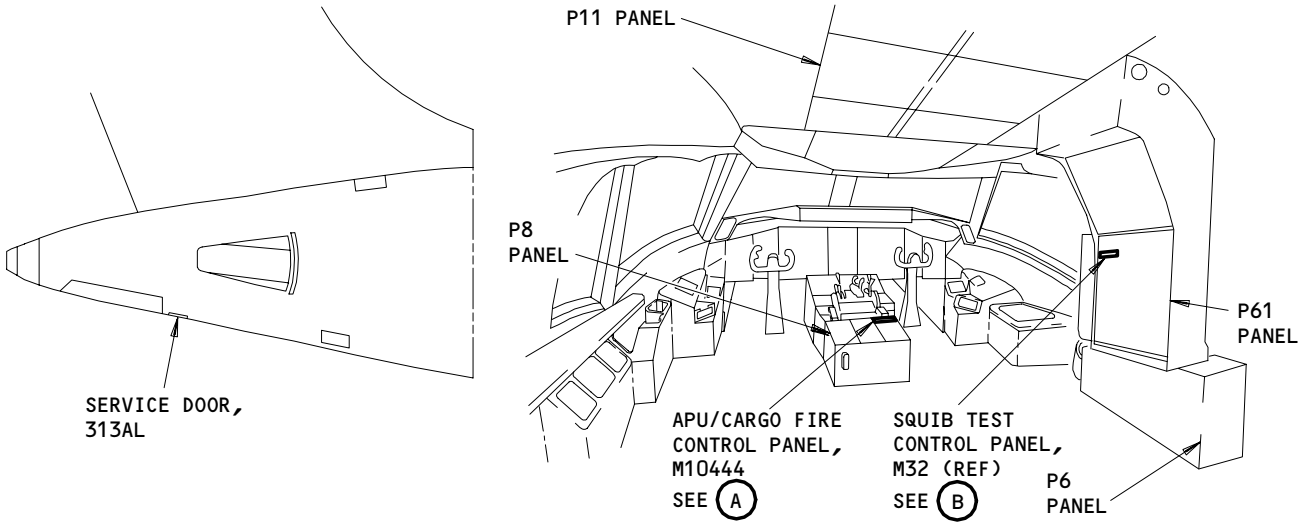

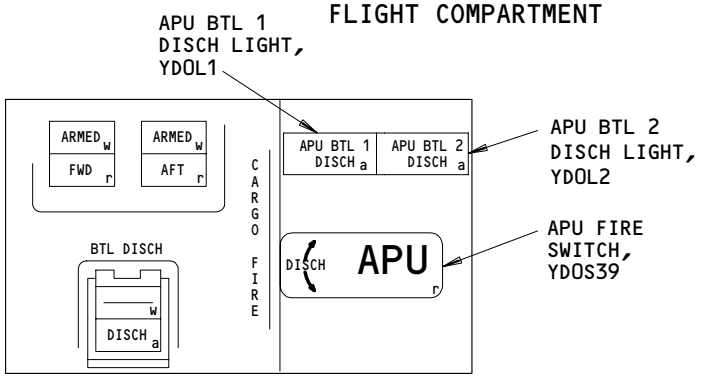

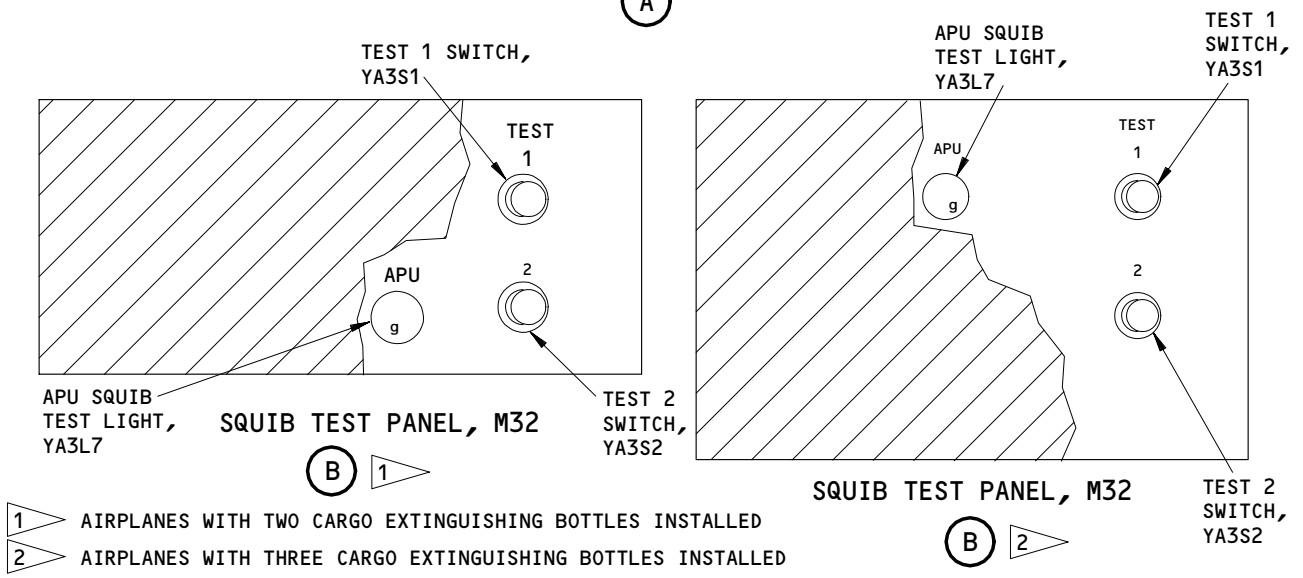

APU Fire Extinguishing System - Component Location
Figure 102 (Sheet 1)

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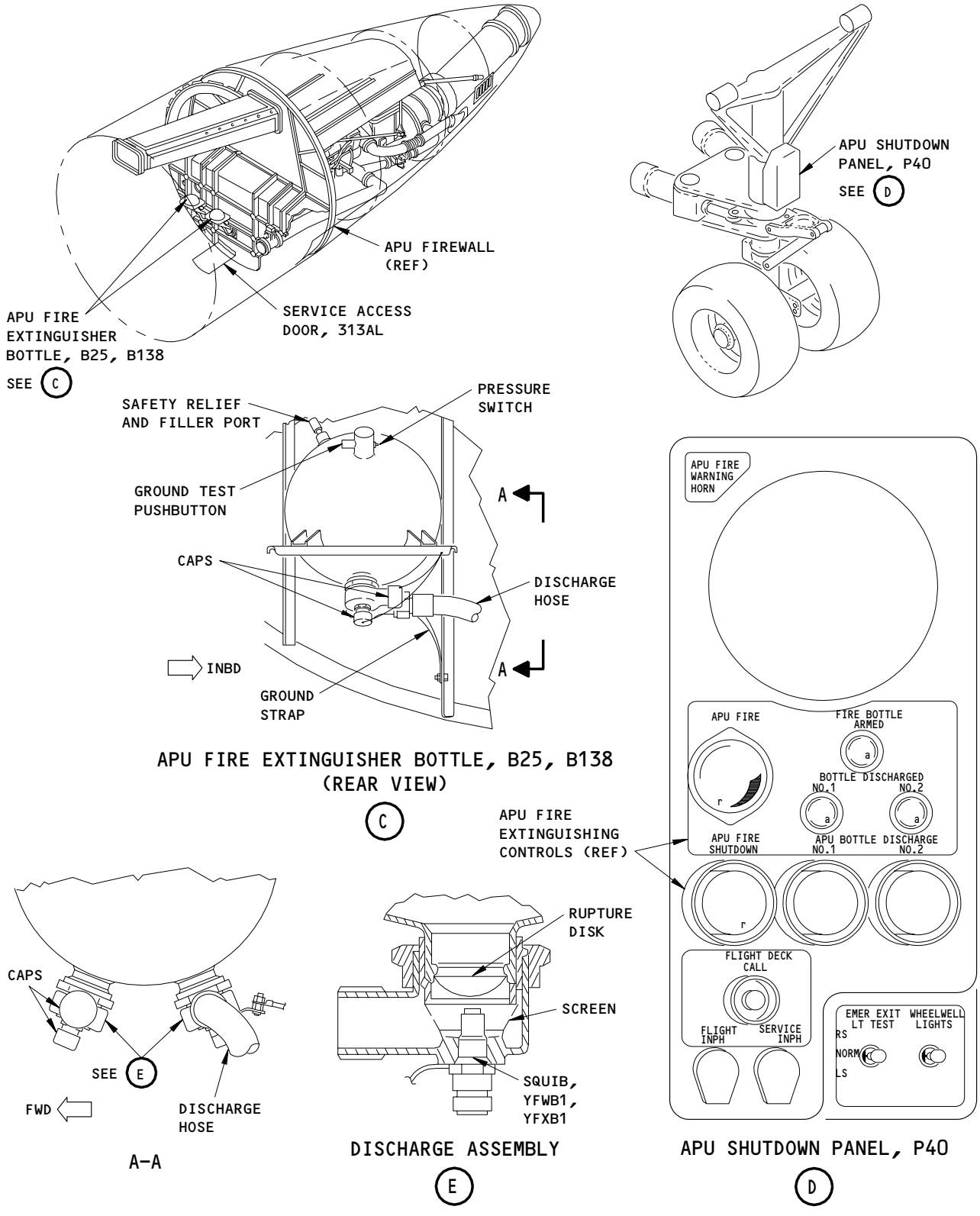

APU Fire Extinguishing System – Component Location
Figure 102 (Sheet 2)

EFFECTIVITY
AIRPLANES WITH DUAL APU FIRE BOTTLES

K45661

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CARGO COMPARTMENT FIRE EXTINGUISHING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
BOTTLE - CARGO COMPT FIRE EXT, B19,B20,B231	2	3	821, FWD CARGO COMPT	26-23-02
CIRCUIT BREAKER -	1		FLT COMPT, P6	
CARGO FEXT BTL 1, C781		1	6H5	*
CARGO FEXT BTL 2, C773		1	6H6	*
COMPUTER - (FIM 31-41-00/101)				
EICAS L, M10181				
EICAS R, M10182				
DIODE - (FIM 31-01-37/101)				
R248,R249				
FILTER/DRYER	2	2	FWD AND AFT CARGO COMPT CEILING	26-23-00
LIGHT - 1 CARGO, YA3L1	1	1	FLT COMPT, P61, SQUIB TEST CONT PNL, M32	*
LIGHT - 2 CARGO, YA3L2	1	1	FLT COMPT, P61, SQUIB TEST CONT PNL, M32	*
LIGHT - 2A CARGO, YA3L8	1	1	FLT COMPT, P61, SQUIB TEST CONT PNL, M32	*
PANEL - (FIM 26-21-00/101)				
SQUIB TEST CONT, M32				
PANEL APU/CARGO FIRE CONTROL, M10444	1	1	FLT COMPT, P8	23-23-00
REGULATOR	2	2	FWD AND AFT CARGO COMPT CEILING	26-23-00
RELAY - (FIM 31-01-37/101)				
AFT COMPT LOCK-IN, K823				
FEXT BTL 2A DISCH, K826				
FWD COMPT LOCK-IN, K822				
SYS NO. 2 AIR/GND, K721				
BTL 2A ARM RELAY, K881				
RELAY - BTL 1 DISCH, YDOK1		1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*
RELAY - BTL 2 DISCH, YDOK2		1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*
SQUIB - AFT COMPT, YFYB2	3	1	821, FWD CARGO COMPT, B19, CARGO COMPT FIRE EXT BOTTLE 1	*
SQUIB - AFT COMPT, YFZB2	3	1	821, FWD CARGO COMPT, B20, CARGO COMPT FIRE EXT BOTTLE 2	*
SQUIB - AFT COMPT, YGAB2	3	1	821, FWD CARGO COMPT, B231, CARGO COMPT FIRE EXT BOTTLE 2A	*
SQUIB - FWD COMPT, YFYB1	3	1	821, FWD CARGO COMPT, B19, CARGO COMPT FIRE EXT BOTTLE 1	*
SQUIB - FWD COMPT, YFZB1	3	1	821, FWD CARGO COMPT, B20, CARGO COMPT FIRE EXT BOTTLE 2	*
SQUIB - FWD COMPT, YGAB1	3	1	821, FWD CARGO COMPT, B231, CARGO COMPT FIRE EXT BOTTLE 2A	*

* SEE THE WDM EQUIPMENT LIST

Cargo Compartment Fire Extinguishing System - Component Index
Figure 101 (Sheet 1)

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SWITCH - AFT CARGO FEXT MTRD DISCH LINE, S662	2	1	821, FWD CARGO COMPT, DISCHARGE LINE	*
SWITCH - AFT CARGO FIRE, YDOS2	1	1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*
SWITCH - BTL DISCH, YDOS3	1	1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*
SWITCH - FWD CARGO FEXT DISCH LINE, S661,S633	2	2	821, FWD CARGO COMPT, DISCHARGE LINE	*
SWITCH - FWD CARGO FIRE, YDOS1	1	1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*
SWITCH - TEST 1, YA3S1	1	1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*
SWITCH - TEST 2, YA3S2	1	1	FLT COMPT, P8, APU/CARGO FIRE CONT PNL, M10444	*

* SEE THE WDM EQUIPMENT LIST

Cargo Compartment Fire Extinguishing System - Component Index
Figure 101 (Sheet 2)

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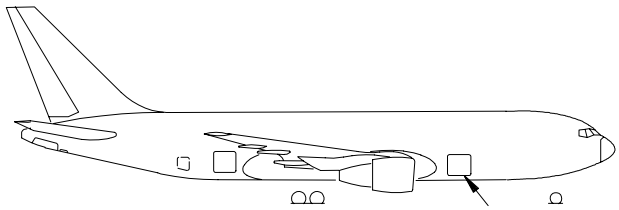
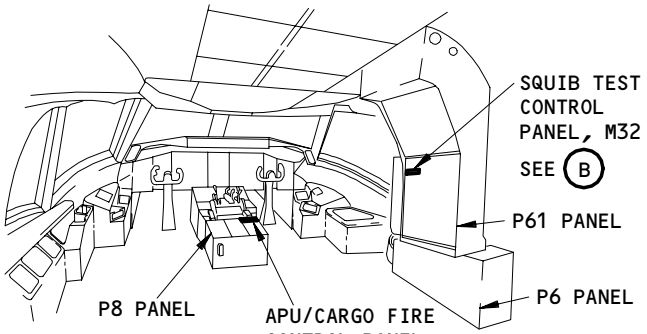
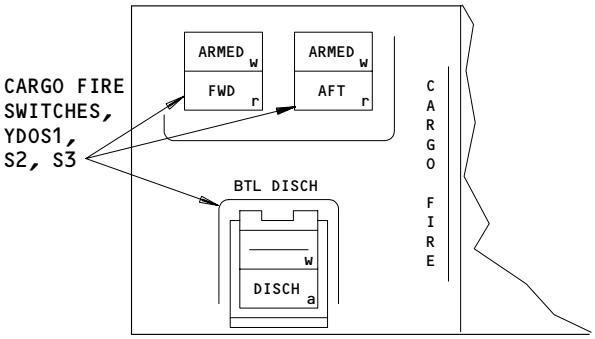


1 AIRPLANES WITH 3 CARGO FIRE EXTINGUISHER BOTTLES

2 AIRPLANES WITH 2 CARGO FIRE EXTINGUISHER BOTTLES

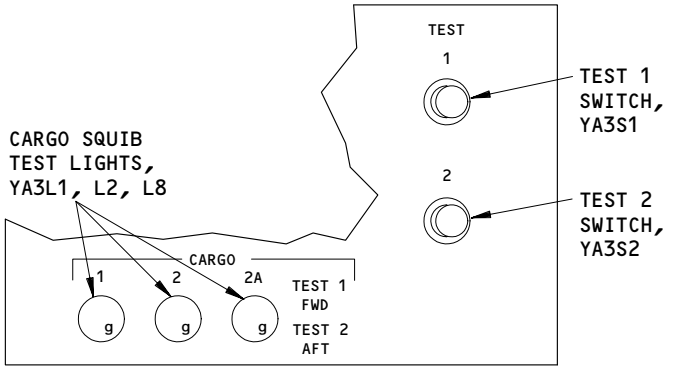


FLIGHT COMPARTMENT



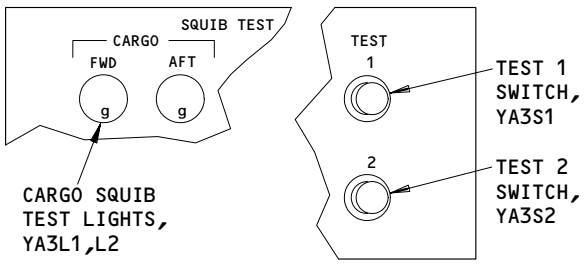
APU/CARGO FIRE CONTROL PANEL, M10444

(A)



SQUIB TEST CONTROL PANEL, M32

(B) 1



SQUIB TEST CONTROL PANEL, M32

(B) 2

Cargo Compartment Fire Extinguishing System - Component Location
Figure 102 (Sheet 1)

E77119

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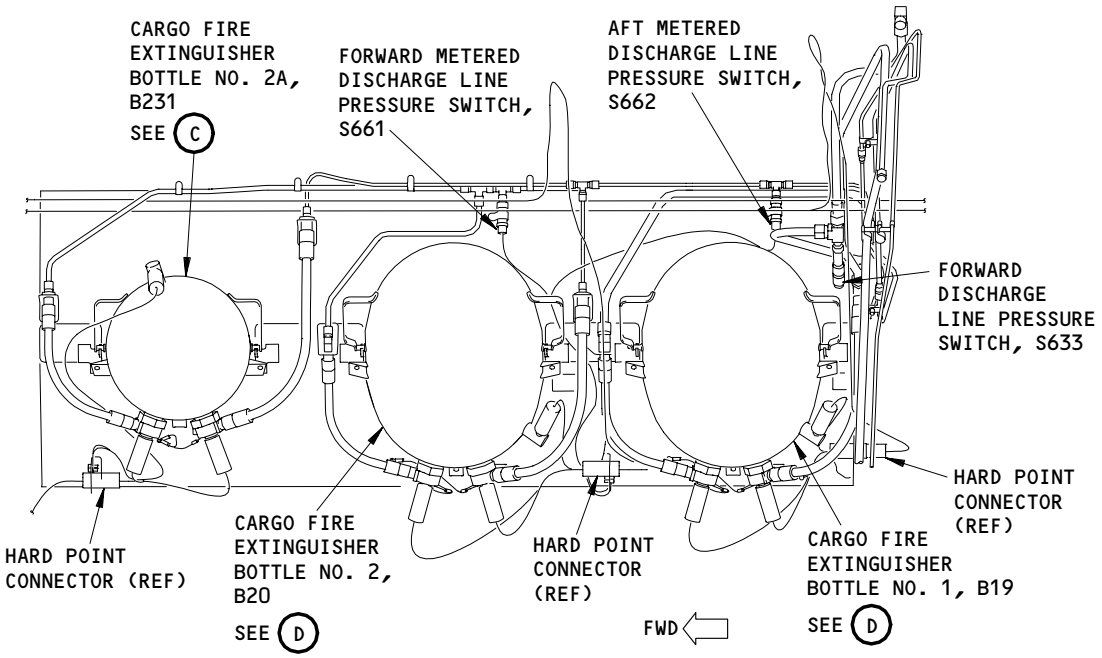
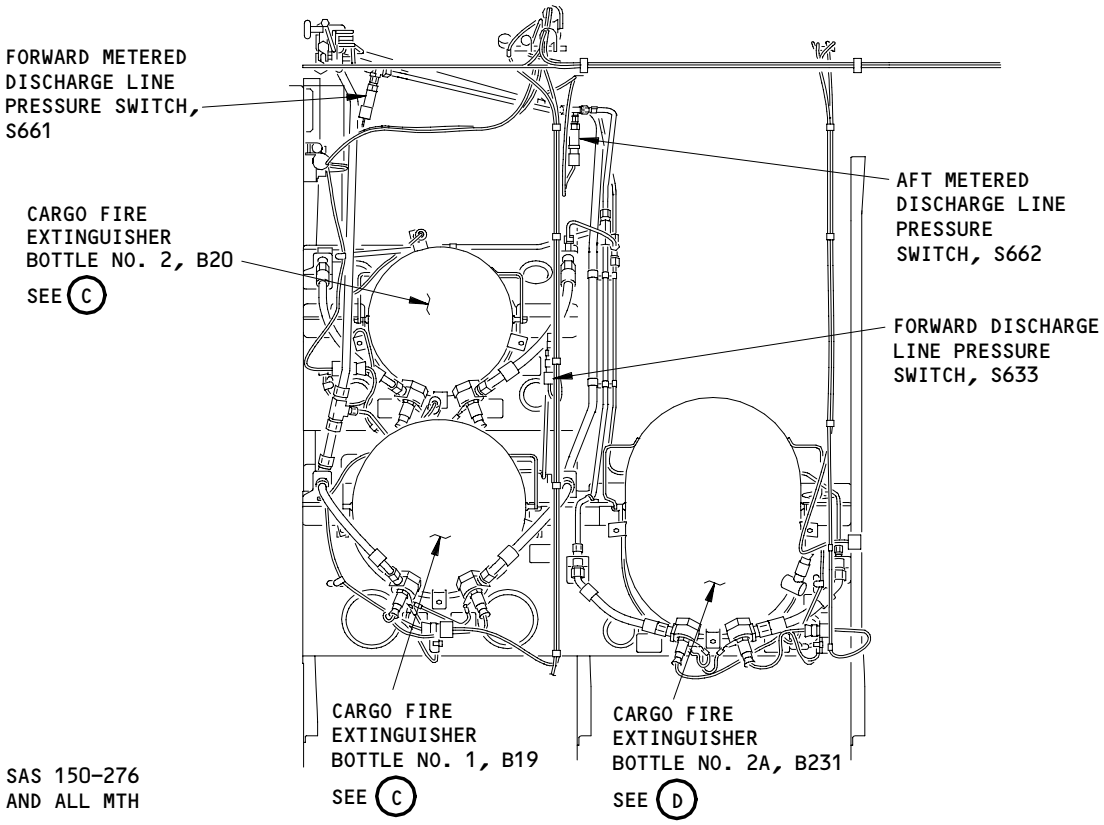


RIGHT SIDEWALL FORWARD CARGO COMPARTMENT 3



3 SAS 150-276 AND ALL MTH

4 SAS 050-149

RIGHT SIDEWALL FORWARD CARGO COMPARTMENT 4

Cargo Compartment Fire Extinguishing System - Component Location
Figure 102 (Sheet 2)

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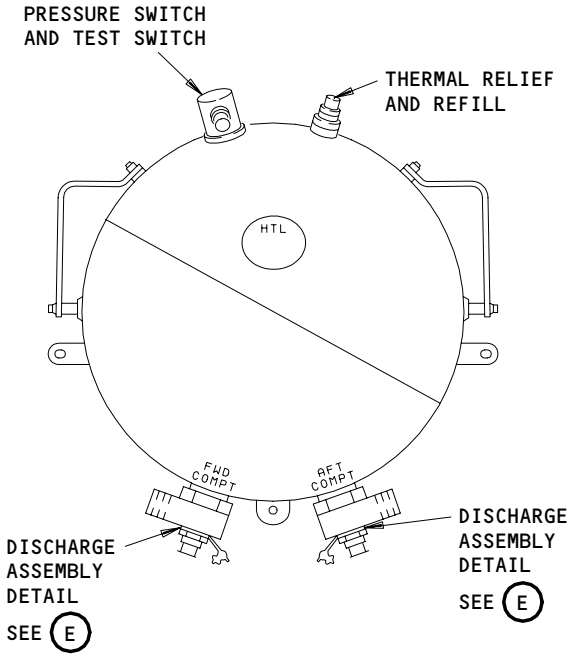
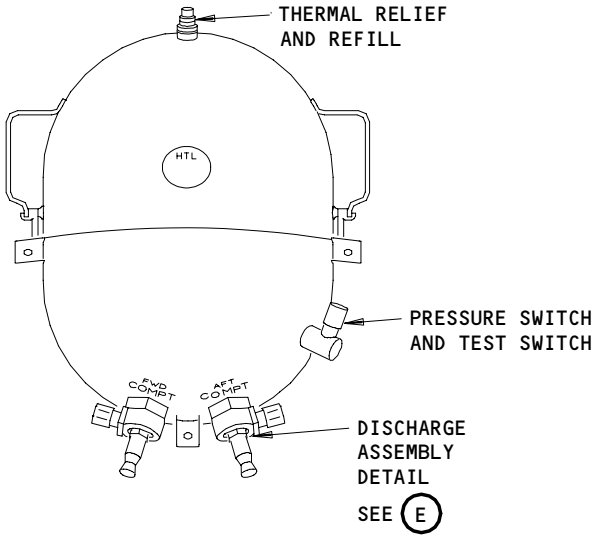


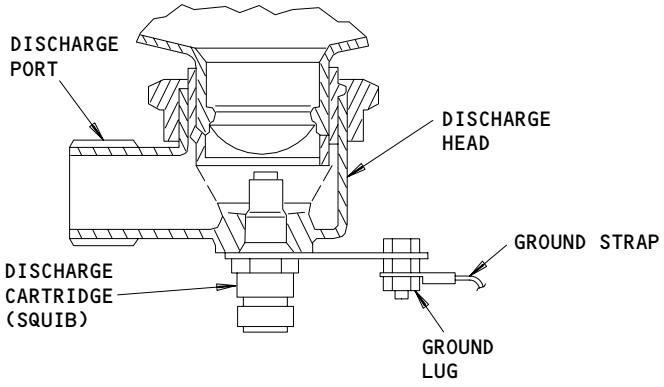
FIRE EXTINGUISHER BOTTLE

C FROM SHT 2



FIRE EXTINGUISHER BOTTLE

D FROM SHT 2



DISCHARGE ASSEMBLY DETAIL

E

Cargo Compartment Fire Extinguishing System - Component Location
Figure 102 (Sheet 3)

E76927

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"CARGO BTL DISCH" LGT ILLUM. EICAS MSG "CARGO BTL 1" DISPLAYED. "DISCH" SWITCH NOT USED.

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6H5,6H6

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

1 EXAMINE THE RED RESET BUTTON ON THE DISCHARGE LINE PRESSURE SWITCH, S633, IN THE FWD CARGO COMPARTMENT AND RESET IF EXTENDED.
REMOVE CONNECTOR D1448 FROM THE BOTTLE 1 PRESSURE SWITCH (WDM 26-23-11).
DOES THE "DISCH" LIGHT GO OFF?

YES → 4 REPLACE THE CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE NO. 1, B19 (AMM 26-23-02/401).

NO

2 REMOVE CONNECTOR D10656 FROM THE DISCHARGE LINE PRESSURE SWITCH, S633, IN THE FWD CARGO COMPARTMENT (WDM 26-23-11).
DOES THE "DISCH" LIGHT GO OFF?

YES → 5 REPLACE THE DISCHARGE LINE PRESSURE SWITCH, S633 (WDM 26-23-11).
INSTALL CONNECTOR D1448 ON THE BOTTLE 1 PRESSURE SWITCH.

NO → 6 INSTALL CONNECTOR D1448 ON THE BOTTLE 1 PRESSURE SWITCH, AND CONNECTOR D10656 ON THE DISCHARGE LINE PRESSURE SWITCH, S633.
REPLACE THE APU/CARGO FIRE CONTROL PANEL, M10444 (WDM 26-23-11).

CARGO BTL DISCH Lgt Illum. EICAS Msg CARGO BTL 1 Displayed.
DISCH Switch Not Used.
Figure 103

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"CARGO BTL DISCH" LGT ILLUM. EICAS MSG "CARGO BTL 2" DISPLAYED. "DISCH" SWITCH NOT USED.

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6H5, 6H6

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

1 EXAMINE THE RESET BUTTON ON THE DISCHARGE LINE PRESSURE SWITCH, S661 AND S662, IN THE FWD CARGO COMPARTMENT AND RESET IF EXTENDED.
REMOVE CONNECTOR D1454 FROM THE BOTTLE 2 PRESSURE SWITCH (WDM 26-23-12).
DOES THE "DISCH" LIGHT GO OFF?

YES → 11 REPLACE THE CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE NO. 2, B20 (AMM 26-23-02/401).

NO

2 REMOVE CONNECTOR D10864 FROM THE DISCHARGE LINE PRESSURE SWITCH, S661, IN THE FWD CARGO COMPARTMENT (WDM 26-23-12).
DOES THE "DISCH" LIGHT GO OFF?

YES → 12 REPLACE THE DISCHARGE LINE PRESSURE SWITCH, S661 (WDM 26-23-12).
INSTALL CONNECTOR D1454 TO THE FIRE BOTTLE PRESSURE SWITCH.

NO

3 REMOVE CONNECTOR D10684 FROM THE BOTTLE 2A PRESSURE SWITCH (WDM 26-23-12). 1
DOES THE "DISCH" LIGHT GO OFF?

YES → 13 REPLACE THE CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE NO. 2A, B231 (AMM 26-23-02/401).
INSTALL CONNECTOR D1454 ON THE FIRE BOTTLE 2 PRESSURE SWITCH.

NO

SEE SHEET 2 (BLOCK 4)

1 AIRPLANES WITHOUT BOTTLE 2A; GO TO BLOCK 4

2 NOT INSTALLED ON ALL AIRPLANES; BOTTLE 2A

CARGO BTL DISCH Lgt Illum. EICAS Msg CARGO BTL 2 Displayed.
DISCH Switch Not Used.
Figure 104 (Sheet 1)

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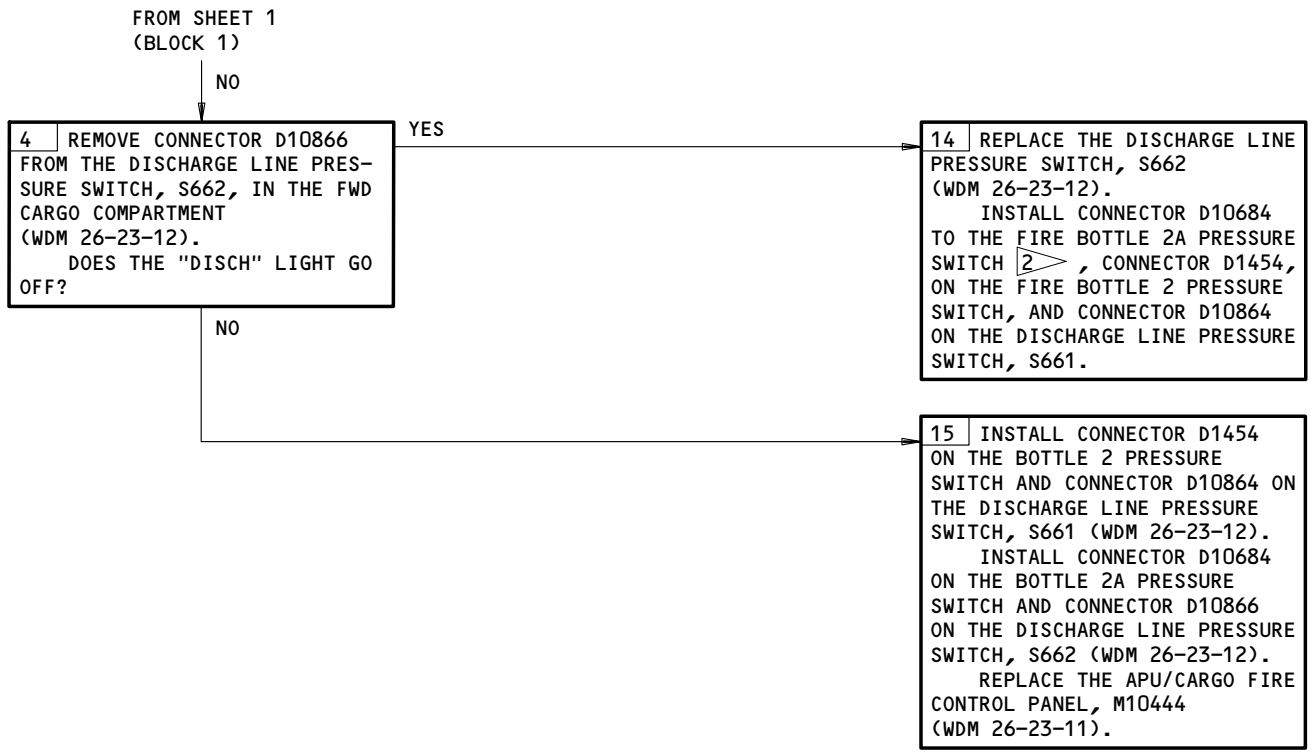

CARGO BTL DISCH Lgt Illum. EICAS Msg CARGO BTL 2 Displayed.
DISCH Switch Not Used.
Figure 104 (Sheet 2)

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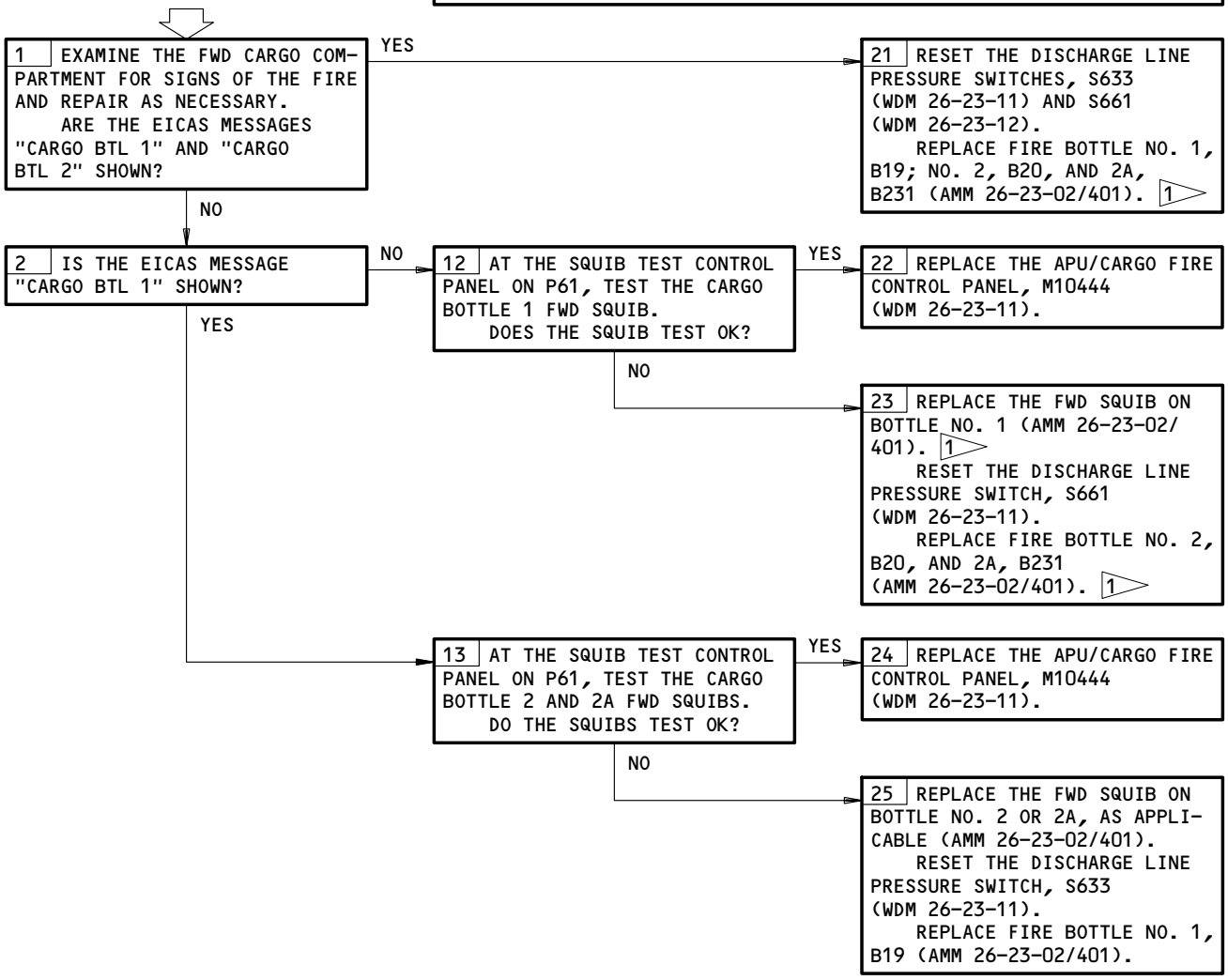
FWD CARGO FIRE INDICATED. EICAS MSG "FWD CARGO FIRE" DISPLAYED. FIRE INDICATION(S) STOPPED WHEN BOTTLES DISCH.

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6H5,6H6

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



1 NOT INSTALLED ON ALL AIRPLANES; BOTTLE 2A

Fwd Cargo Fire Indicated. EICAS Msg FWD CARGO FIRE Displayed.
Fire Indication(s) Stopped When Bottles Disch.
Figure 105

E76594

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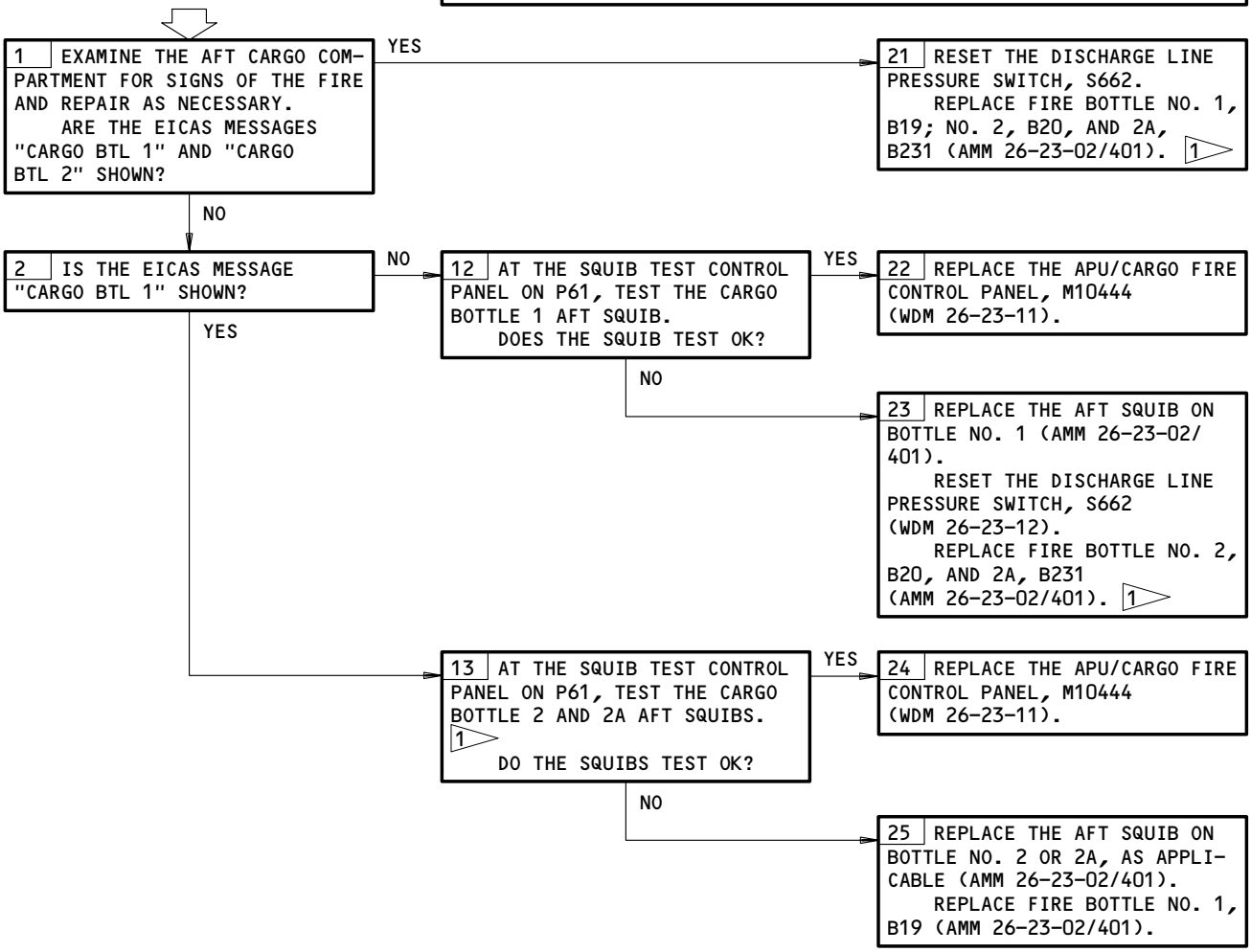
AFT CARGO FIRE INDICATED. EICAS MSG "AFT CARGO FIRE" DISPLAYED. FIRE INDICATION(S) STOPPED WHEN BOTTLES DISCH.

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6H5,6H6

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



1 NOT INSTALLED ON ALL AIRPLANES; BOTTLE 2A

Aft Cargo Fire Indicated. EICAS Msg AFT CARGO FIRE Displayed.
Fire Indication(s) Stopped When Bottles Disch.
Figure 106

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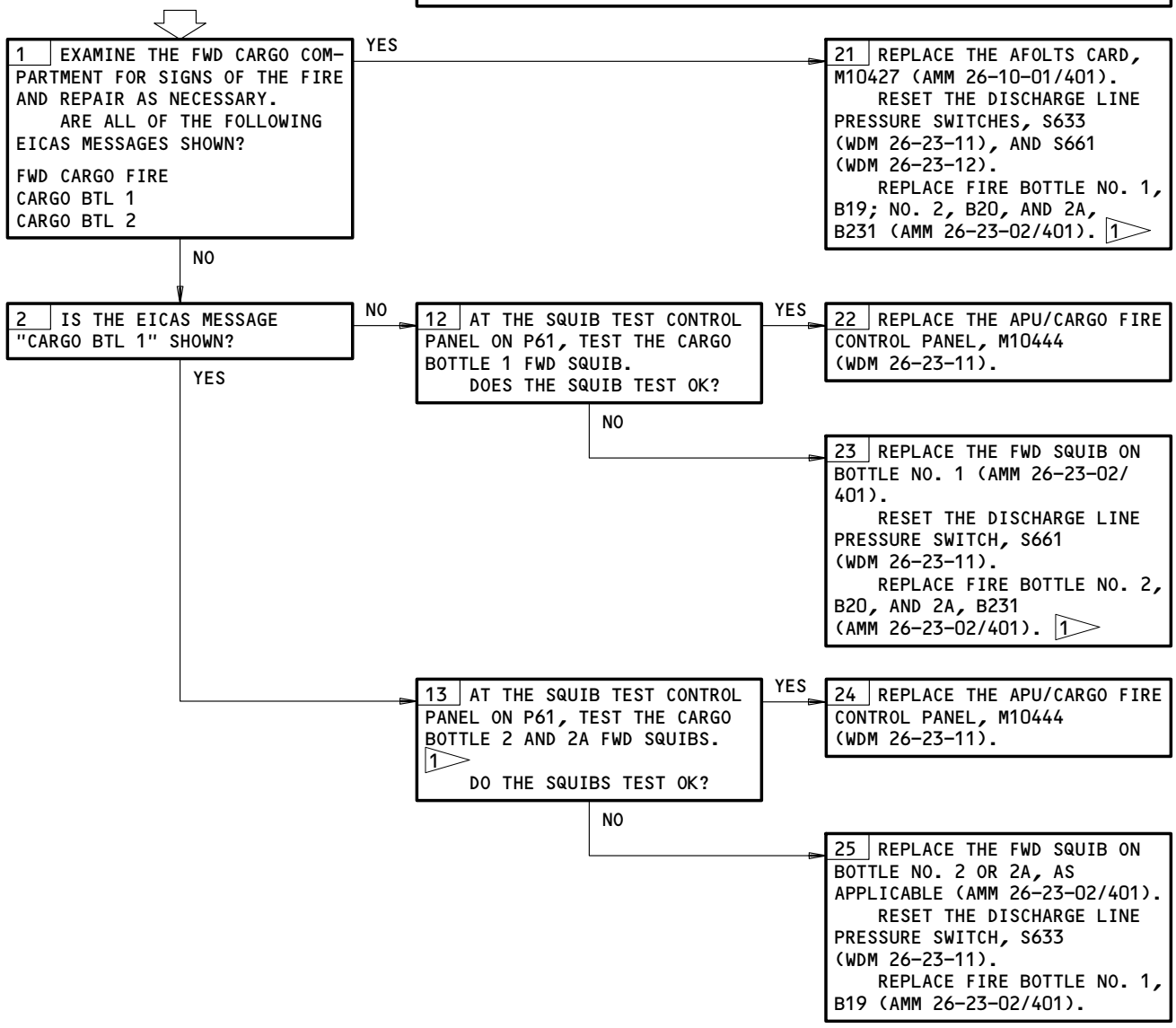
FWD CARGO FIRE INDICATED. EICAS MSG "FWD CARGO FIRE" DISPLAYED. FIRE INDICATION(S) REMAINED AFTER BOTTLES DISCHARGED.

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6H5,6H6

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



1 NOT INSTALLED ON ALL AIRPLANES; BOTTLE 2A

Fwd Cargo Fire Indicated. EICAS Msg FWD CARGO FIRE Displayed. Fire Indications Remained After Bottles Discharged.
Figure 107

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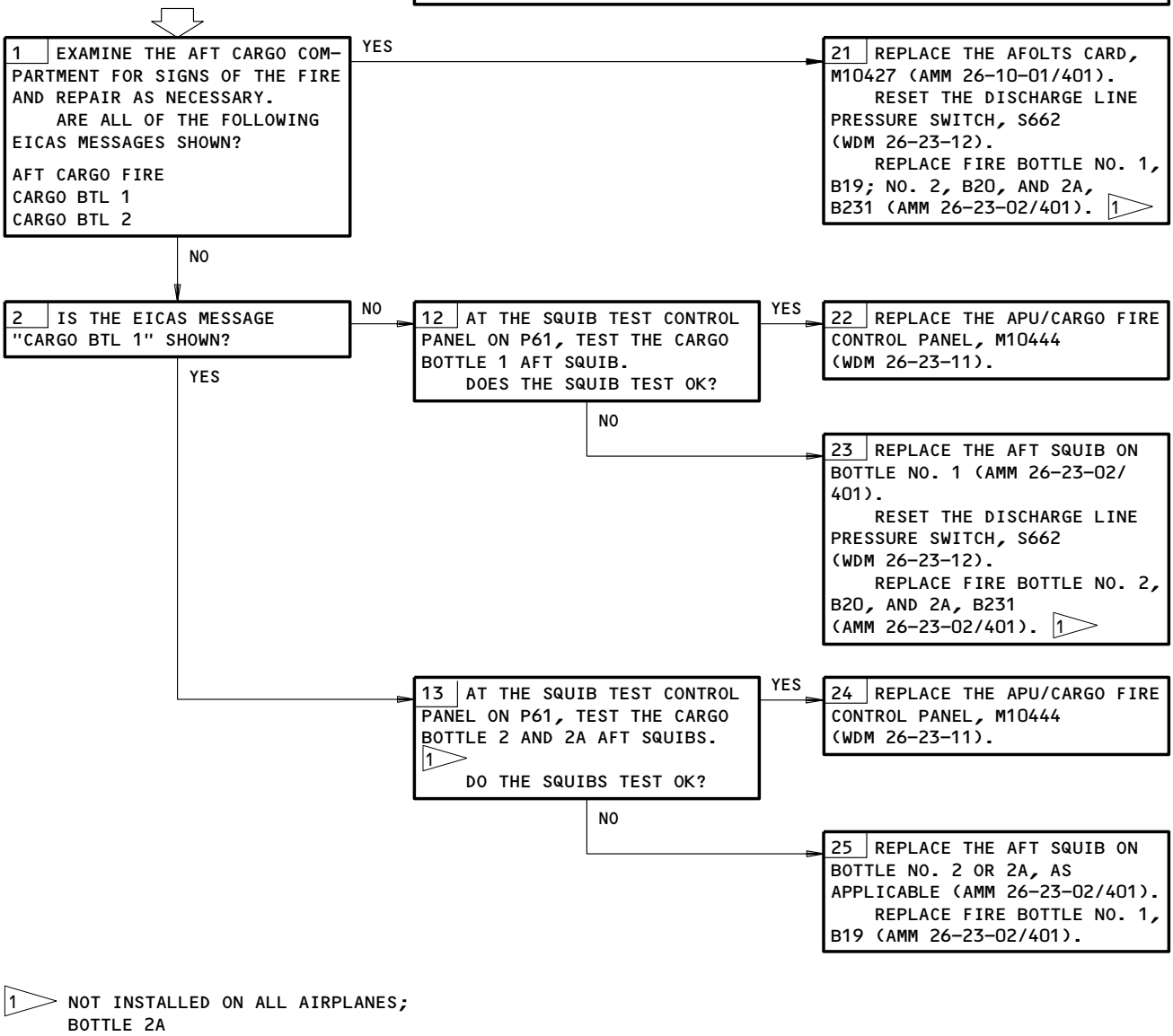
AFT CARGO FIRE INDICATED. EICAS MSG "AFT CARGO FIRE" DISPLAYED. FIRE INDICATION(S) REMAINED AFTER BOTTLES DISCHARGED.

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6H5,6H6

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



1 NOT INSTALLED ON ALL AIRPLANES; BOTTLE 2A

Aft Cargo Fire Indicated. EICAS Msg AFT CARGO FIRE Displayed. Fire Indication(s) Remained After Bottles Discharged.
Figure 108

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