



BOEING
767
FAULT ISOLATION/MAINT MANUAL

Scandinavian Airlines System

PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
CHAPTER 36 TAB			36-10-00			36-10-00		
PNEUMATIC			101	MAY 10/96	08B	159	AUG 22/00	CONT.
EFFECTIVE PAGES			102	MAY 10/96	04B	160	AUG 22/00	02B
SEE LAST PAGE OF LIST FOR			103	MAY 10/95	01B	161	AUG 22/00	01B
NUMBER OF PAGES			104	MAY 10/95	01B	162	APR 22/04	02B
36-CONTENTS			105	MAY 10/95	01B	163	AUG 22/00	02B
1	AUG 22/99	01	106	MAY 10/96	01B	164	AUG 22/00	02B
2	APR 22/06	SAS	107	MAY 10/95	01B	165	APR 22/01	01B
3	AUG 22/00	SAS	108	MAY 10/95	01B	166	AUG 22/00	02B
4	AUG 22/06	SAS	109	MAY 10/95	01B	167	AUG 22/00	02B
36-HOW TO USE THE FIM			110	MAY 10/95	01B	168	AUG 22/00	01B
1	AUG 22/99	01	111	MAY 10/95	01B	169	AUG 22/00	01B
2	AUG 22/99	01	112	MAY 10/95	01B	170	AUG 22/00	01B
3	AUG 22/99	01	113	FEB 10/96	01B	171	AUG 22/00	02B
4	AUG 22/99	01	114	FEB 10/96	01B	172	AUG 22/00	02B
5	AUG 22/99	01	115	AUG 10/95	01B	173	AUG 22/00	02B
6	AUG 22/99	01	116	AUG 10/95	01B	174	AUG 22/00	02B
36-INDEX			117	MAY 10/95	01B	R 175	AUG 22/09	02B.1
1	APR 22/00	07	118	MAY 10/95	01B	176	AUG 22/00	02B
2	APR 22/00	11	119	MAY 10/95	01B	177	AUG 22/00	02B
36-EICAS MESSAGES			120	MAY 10/95	01B	178	AUG 22/00	02B
1	NOV 10/90	01	121	MAY 10/95	01B	R 179	AUG 22/09	02B.1
2	NOV 10/90	01	122	MAY 10/95	01B	180	AUG 22/00	03B
3	DEC 22/06	03	123	MAY 10/95	01B	180A	AUG 22/00	03B
4	DEC 22/06	05	124	MAY 10/96	01B	180B	AUG 22/00	03B
36-FAULT CODE DIAGRAM			125	DEC 22/05	01B	180C	AUG 22/00	03B
1	APR 22/00	04	126	MAY 10/95	01B	180D	BLANK	
2	APR 22/00	05	127	MAY 10/95	01B	36-20-00		
3	APR 22/00	04	128	AUG 22/08	01B	101	AUG 22/00	22
4	APR 22/00	05	129	AUG 22/08	01B	102	NOV 10/92	06
5	APR 22/00	03	130	MAY 10/96	01B	103	NOV 10/92	21
6	APR 22/00	05	131	MAY 10/96	01B	104	APR 22/03	02
36-FAULT CODE INDEX			132	MAY 10/96	01B	105	AUG 10/98	05
1	AUG 22/01	06	133	MAY 10/96	01B	106	APR 22/03	08
2	MAY 10/96	08	134	DEC 22/05	01B	107	NOV 10/95	10
3	NOV 10/97	09	135	DEC 22/05	01B	108	AUG 22/06	07
4	MAY 10/96	09	136	MAY 10/96	01B	109	AUG 22/06	06
5	AUG 22/05	09	137	MAY 10/96	01B	110	AUG 22/06	06
6	MAY 10/96	09	138	MAY 10/96	01B	111	AUG 22/06	06
36-BITE INDEX			139	APR 22/03	01B	112	AUG 22/06	05
1	DEC 22/99	01	140	MAY 10/96	01B	113	AUG 22/06	06
2	AUG 22/99	01	141	MAY 10/96	01B	114	BLANK	
3	AUG 22/99	01	142	MAY 10/96	01B			
4	BLANK		143	MAY 10/96	01B			
			144	MAY 10/96	01B			
			145	MAY 10/96	01B			
			146	MAY 10/96	01B			
			147	MAY 10/96	01B			
			148	MAY 10/96	01B			
			149	MAY 10/96	01B			
			150	MAY 10/96	01B			
			151	MAY 10/96	01B			
			152	DEC 22/06	01B			
			153	AUG 22/00	01B			
			154	AUG 22/00	01B			
			155	APR 22/03	01B			
			156	AUG 22/00	01B			
			157	AUG 22/00	02B			
			158	AUG 22/00	02B			

R = REVISED, A = ADDED OR D = DELETED
F = FOLDOUT PAGE
33
AUG 22/09

D633T633

CHAPTER 36
EFFECTIVE PAGES
PAGE 1
LAST PAGE



BOEING
767
FAULT ISOLATION/MAINT MANUAL

CHAPTER 36 - PNEUMATIC SYSTEM

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
HOW TO USE THE FIM	36-HOW TO USE THE FIM	1	ALL
INDEX	36-INDEX	1	ALL
EICAS MESSAGES	36-EICAS MESSAGES	1	ALL
FAULT CODE DIAGRAMS	36-FAULT CODE DIAGRAM	1	ALL
FAULT CODE INDEX	36-FAULT CODE INDEX	1	ALL
BITE INDEX	36-BITE INDEX	1	ALL

36-CONTENTS

01

Page 1
Aug 22/99



BOEING
767
FAULT ISOLATION/MAINT MANUAL

CHAPTER 36 - PNEUMATIC SYSTEM

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>PNEUMATIC - GENERAL</u>	36-00-00		
<u>DISTRIBUTION</u>	36-10-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
(NOT USED) (Fig. 122)		161	
(NOT USED) (Fig. 127)		180	
APU Bleed Air Valve Light		117	
Illuminated With Switch ON			
(OFF) (Fig. 106)			
Both Left and Right Duct Press		146	
Zero with APU Running, Bleed			
Air Switch ON, ISLN Valves			
open. Engine Bleed Air Valves			
Indicating Closed (Fig. 117)			
BLEED "OFF" LIGHT EXTINGUISHES		152	
WHEN THE BLEED SWITCH IS "ON".			
ENGINES ARE NOT RUNNING. NO			
BLEED DEMAND SELECTED ON THE			
ENGINE SIDE OF THE PRSOV.			
Eng Duct Pressure Was High At		126	
Crz Thrust and Above. Pressure			
Normal At Low thrust (Fig. 110)			
EICAS Message C BLD ISLN VAL<		113	
Center Isolation Valve Light			
Fails to Go out with Valve			
Selected Open. (Fig. 104)			
EICAS Message L (R) BLD DUCT		112	
LEAK and Left (Right) Duct Leak			
Light Illuminated (Fig. 103)			
EICAS Message L (R) BLD ISLN VAL		115	
Displayed. L (R) ISLN Valve			
Light Fails to Go Out with			
Valve Selected Open. (Fig. 105)			
EICAS Message L (R) ENG BLD OVHT		131	
Displayed. Left (Right) OVHT			
Light Illuminated (Fig. 113)			
EICAS Message L 9R) ENG HPSOV		127	
Displayed. L (R) BLEED Light			
Illuminated (Fig. 111)			

36-CONTENTS

SAS

Page 2
Apr 22/06



BOEING
767
FAULT ISOLATION/MAINT MANUAL

CHAPTER 36 - PNEUMATIC SYSTEM

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
EICAS Msg L (R) ENG PRV Displayed During Engine Start. L (R) Eng BLEED Light Illuminated. (Fig. 124)		167	
EICAS Msg L (R) ENG PRV Displayed. L (R) Eng BLEED Light Illuminated. Possible Duct Pressure Fluctuations. (Fig. 123)		162	
EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated. (Fig. 125)		171	
EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights illuminated. Duct Pressure (High, Low). (Fig. 126)		176	
Fluctuating Duct Pressure (Fig. 109)		125	
L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low Power. OFF Lgt Extinguished Above 41 Percent N1 (Fig. 116)		140	
L (R) Eng Duct Pressure Low at Cruise Thrust or Takeoff (Fig. 108)		122	
L (R) Eng Duct Pressure Low at Low Thrust (Ground Operation or Descent). Pressure Normal at Cruise Thrust and Above (Fig. 107)		119	
L (R) HPSOV and HPC Problems (Fig. 120)		153	
L (R) Pressure Regulating and Shutoff Valve Problems (Fig. 121)		157	
Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON. Duct Pressure Normal (Fig. 114)		134	

36-CONTENTS

SAS

Page 3
Aug 22/00

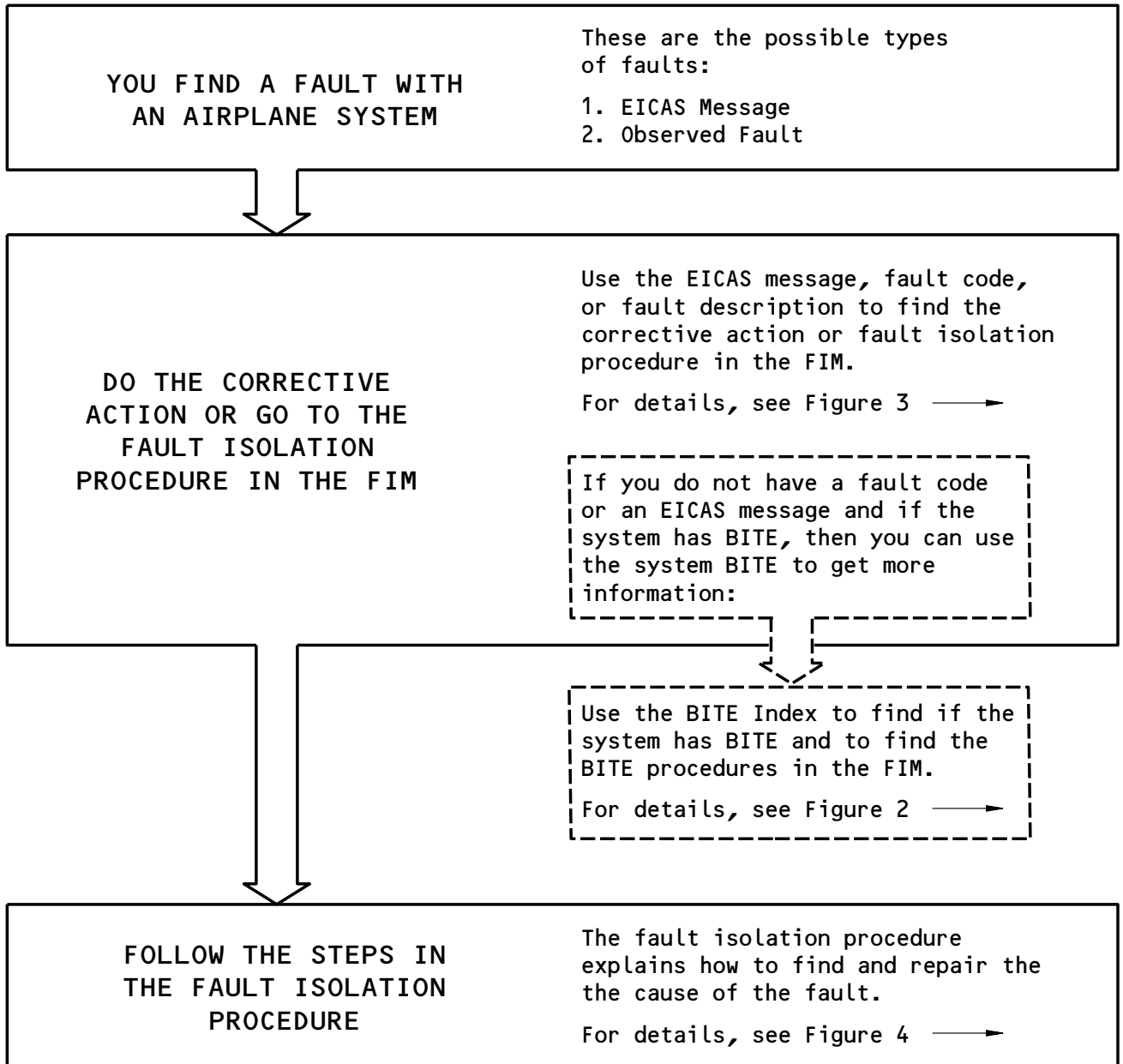


BOEING
767
FAULT ISOLATION/MAINT MANUAL

CHAPTER 36 - PNEUMATIC SYSTEM

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON. Duct Pressure Zero. (Fig. 115)		136	
Pneumatic Pressure Drop Excessive When Using APU Bleed Air for Engine Starting (Fig. 118)		147	
Pneumatic Pressure Drops Excessive/Fluctuates When Using APU Bleed Air For Any Air Load (Fig. 119)		149	
Pressure Regulating Valve Problems When Engine Cowl Anti-Ice is Selected On (Fig. 128)		180A	
<u>INDICATING SYSTEM</u>	36-20-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Air Supply BITE Procedure (Fig. 104)		107	
Pneumatic Duct Pressure Indicating Problems (Fig. 103)		106	



Basic Fault Isolation Process
Figure 1

EFFECTIVITY

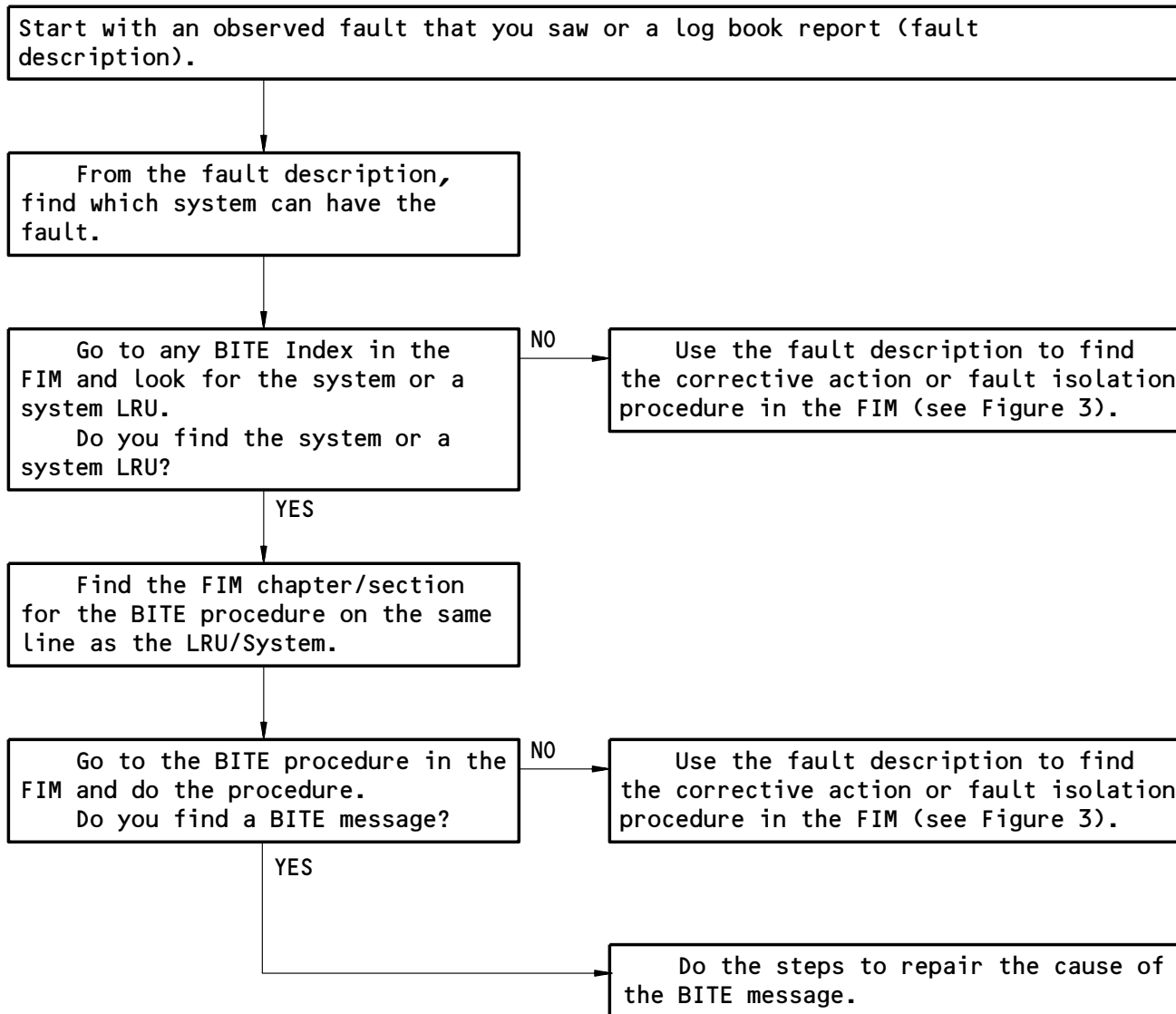
ALL

36-HOW TO USE THE FIM

01

Page 1
Aug 22/99

K37706



How to Get Fault Information from BITE
Figure 2

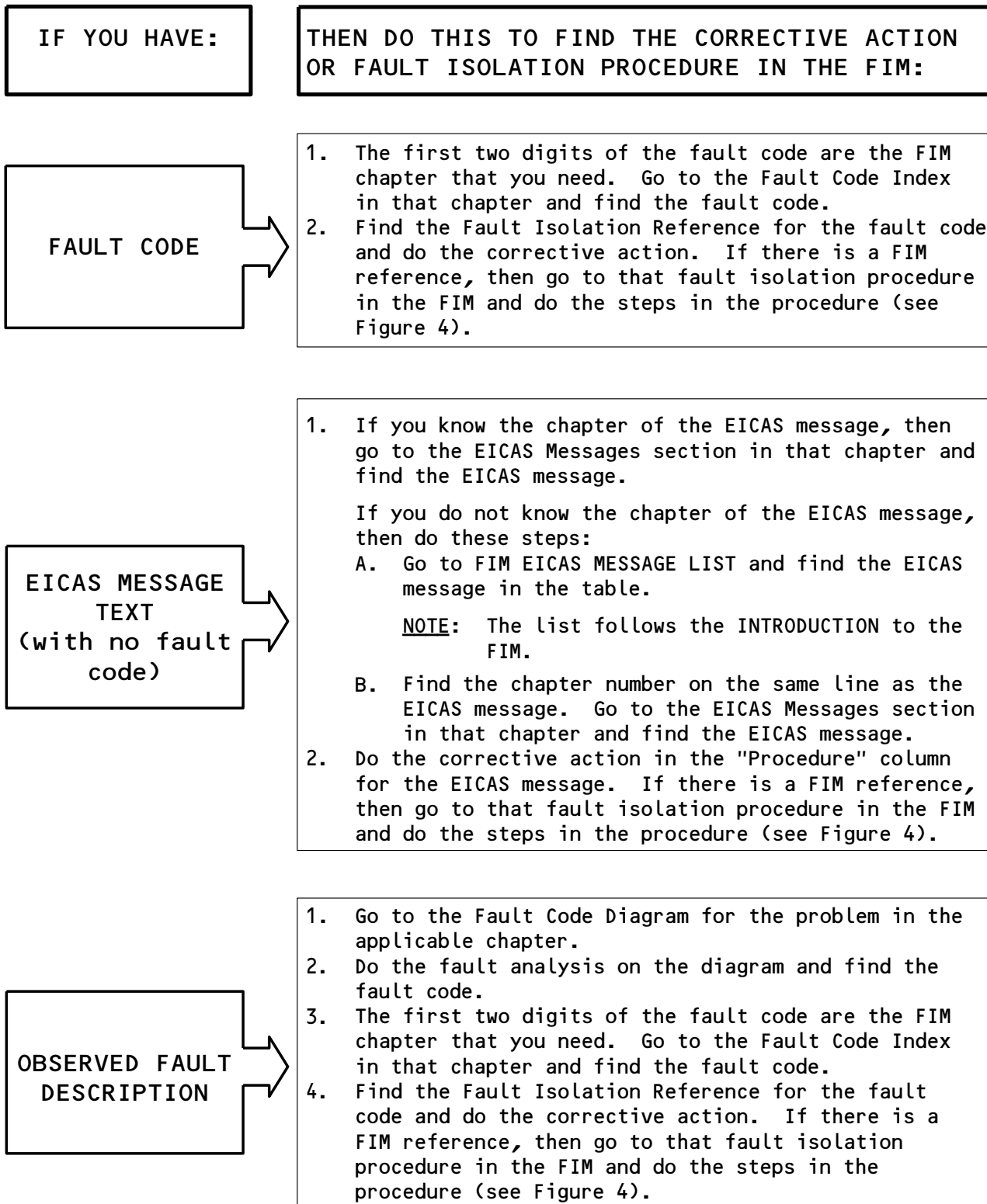
EFFECTIVITY

ALL

36-HOW TO USE THE FIM

01

Page 2
Aug 22/99



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

Figure 3

EFFECTIVITY

ALL

36-HOW TO USE THE FIM

01

Page 3
Aug 22/99

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

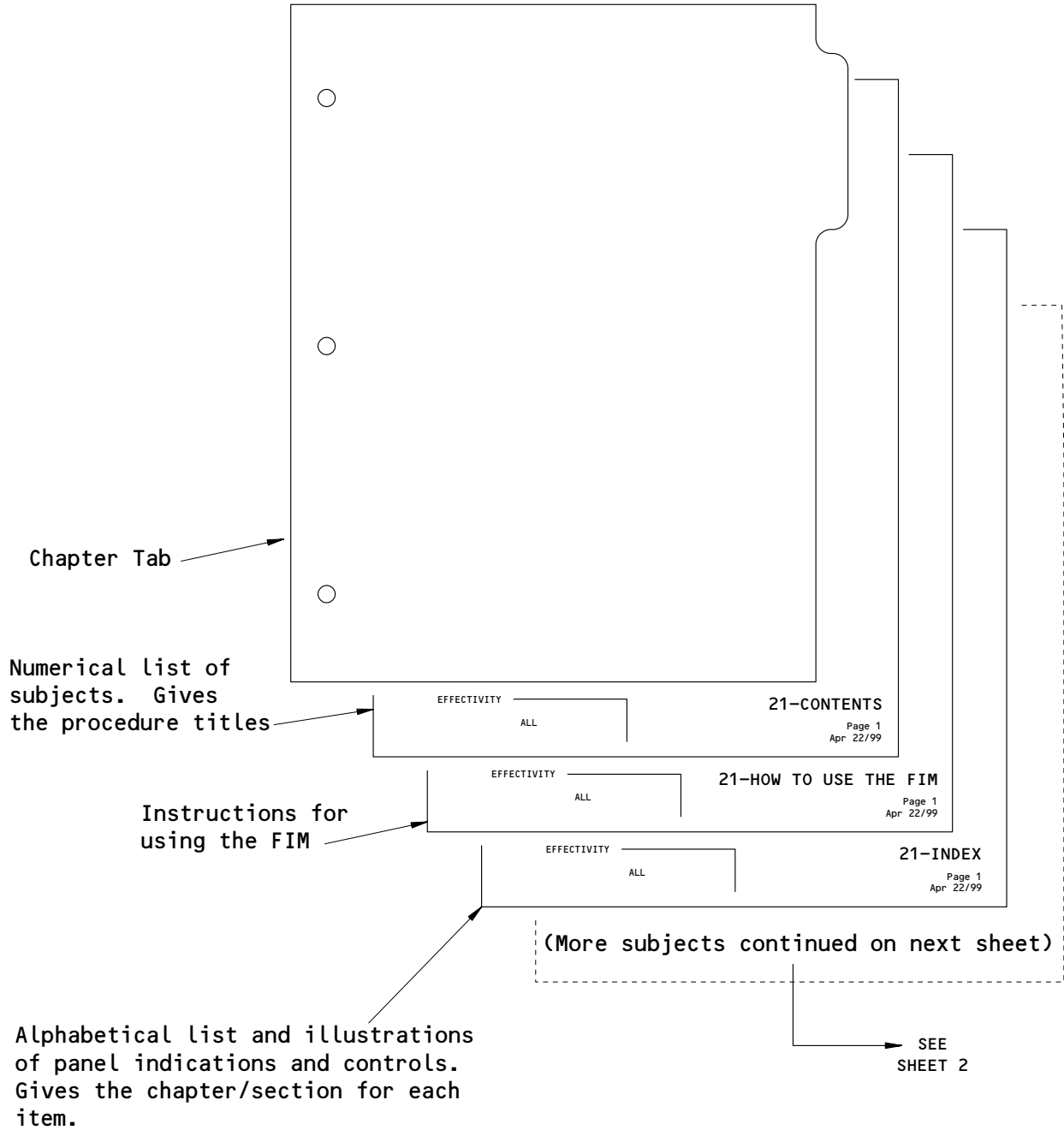
EFFECTIVITY

ALL

36-HOW TO USE THE FIM

01

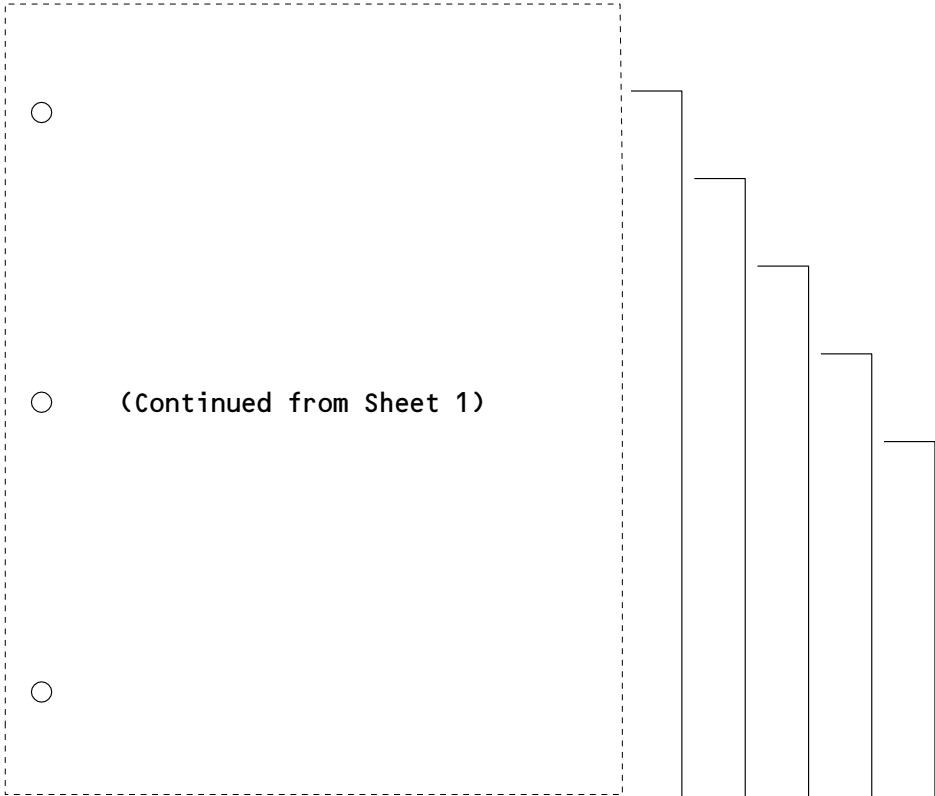
Page 4
Aug 22/99



Subjects in Each FIM Chapter
Figure 5 (Sheet 1)

EFFECTIVITY ALL	<h1 style="margin: 0;">36-HOW TO USE THE FIM</h1> <p align="right">01 Page 5 Aug 22/99</p>
------------------------	---

K37710



Alphabetical list of the EICAS messages. Gives the procedure to repair the cause of the message or a reference to a fault isolation procedure.

Failure analysis diagrams for the airplane systems to find the correct fault code for the fault.

Numerical list of fault codes. Gives the procedure to repair the cause of the fault or a reference to a fault isolation procedure.

EFFECTIVITY	ALL	21-EICAS MESSAGES	Page 1 Apr 22/99
-------------	-----	-------------------	---------------------

EFFECTIVITY	ALL	21-FAULT CODE DIAGRAMS	Page 1 Apr 22/99
-------------	-----	------------------------	---------------------

EFFECTIVITY	ALL	21-FAULT CODE INDEX	Page 1 Apr 22/99
-------------	-----	---------------------	---------------------

EFFECTIVITY	ALL	21-BITE INDEX	Page 1 Apr 22/99
-------------	-----	---------------	---------------------

EFFECTIVITY	ALL	21-11-00	Page 101 Apr 22/99
-------------	-----	----------	-----------------------

Alphabetical list of all the LRUs/systems that have BITE. Gives the chapter/section for the BITE procedure.

Component index, component location, and fault isolation procedures for the systems in the chapter.

Subjects in Each FIM Chapter
Figure 5 (Sheet 2)

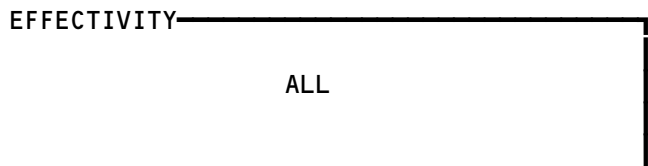
EFFECTIVITY	ALL
-------------	-----

36-HOW TO USE THE FIM

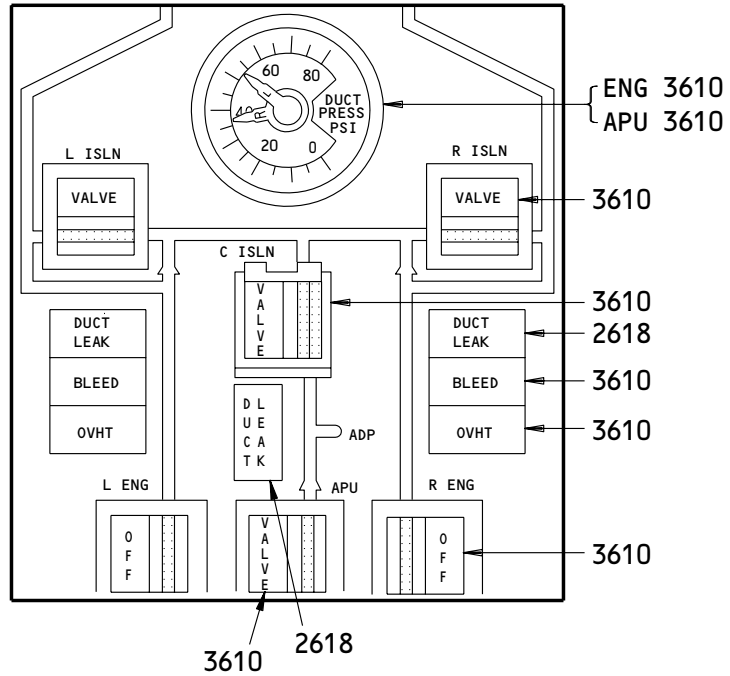
EICAS MESSAGES CHAP/SEC

APU BLEED VAL	3610
(L, C, R) BLD ISLN VAL	3610
(L, R) BLD DUCT LEAK	2618
BODY DUCT LEAK	2618
(L, R) ENG BLD OVHT	3610
(L, R) ENG BLEED OFF	3610
(L, R) ENG HPSOV	3610
(L, R) ENG PRV	3610
(L, R) STRUT DCT LEAK	2618

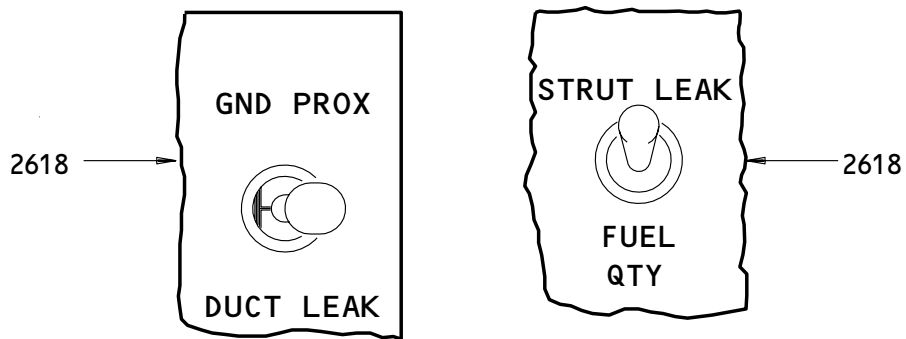
PNEUMATIC - INDEX



36-INDEX



OVERHEAD PANEL



ACCESSORY PANEL

PNEUMATICS - INDEX

EFFECTIVITY	ALL
-------------	-----

36-INDEX

PNEUMATIC - 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

EFFECTIVITY

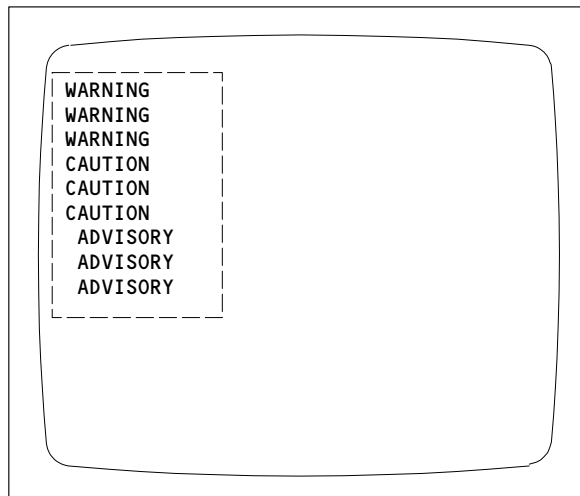
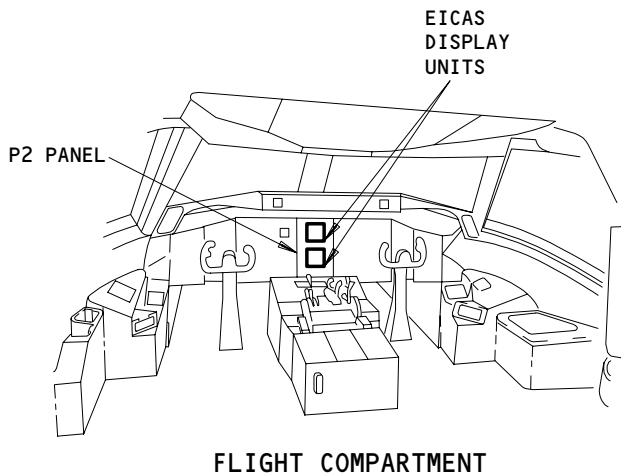
ALL

36-EICAS MESSAGES

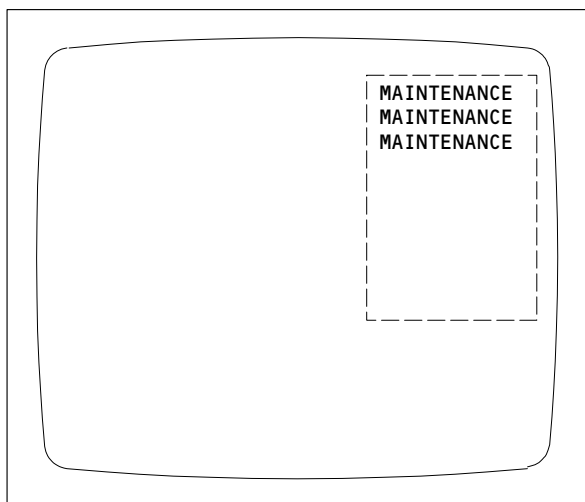
01

Page 1
Nov 10/90

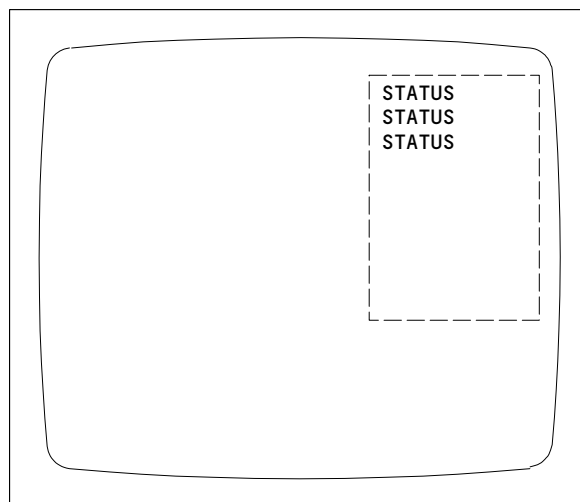
BOEING
767
FAULT ISOLATION/MAINT MANUAL



ENGINE PRIMARY PAGE OR COMPACTED PAGE
(TOP DISPLAY UNIT)



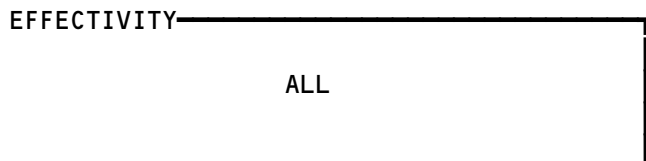
ECS/MSG PAGE
(BOTTOM DISPLAY UNIT)



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



36-EICAS MESSAGES


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
APU BLEED VAL	C	Replace the APU Air Supply Shutoff Valve V47(AMM 36-11-10).
(L,C,R) BLD ISLN VAL	C	FIM 36-10-00/101, Fig. 104 for the C BLD ISLN VAL FIM 36-10-00/101, Fig. 105 for the L, R BLD ISLN VAL
(L,R) ENG BLD OVHT	C	FIM 36-10-00/101, Fig. 113 or FIM 36-10-00/101, Fig. 125 or FIM 36-10-00/101, Fig. 126
(L,R) ENG BLEED OFF	C	FIM 36-10-00/101, Fig. 114 FIM 36-10-00/101, Fig. 115 FIM 36-10-00/101, Fig. 116 FIM 36-10-00/101, Fig. 123
(L,R) ENG HPSOV	B	FIM 36-10-00/101, Fig. 111 or FIM 36-10-00/101, Fig. 112
(L,R) ENG HPSOV	C	FIM 36-10-00/101, Fig. 111 or FIM 36-10-00/101, Fig. 112
(L,R) ENG HPSOV	S,M (NVM)	FIM 36-10-00/101, Fig. 111 or FIM 36-10-00/101, Fig. 112
(L,R) ENG PRV	B	FIM 36-10-00/101, Fig. 123 or FIM 36-10-00/101, Fig. 124 or FIM 36-10-00/101, Fig. 125 or FIM 36-10-00/101, Fig. 126

EFFECTIVITY

ALL

36-EICAS MESSAGES

03

Page 3
Dec 22/06


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
(L,R) ENG PRV	C	FIM 36-10-00/101, Fig. 123 or FIM 36-10-00/101, Fig. 124 or FIM 36-10-00/101, Fig. 125 or FIM 36-10-00/101, Fig. 126
(L,R) ENG PRV	S,M (NVM)	FIM 36-10-00/101, Fig. 123 or FIM 36-10-00/101, Fig. 124 or FIM 36-10-00/101, Fig. 125 or FIM 36-10-00/101, Fig. 126
(L,R) BLD DUCT LEAK	B	Go to 26-EICAS MESSAGES
BODY DUCT LEAK	B	Go to 26-EICAS MESSAGES
(L,R) STRUT DCT LEAK	B	Go to 26-EICAS MESSAGES

EFFECTIVITY

ALL

36-EICAS MESSAGES

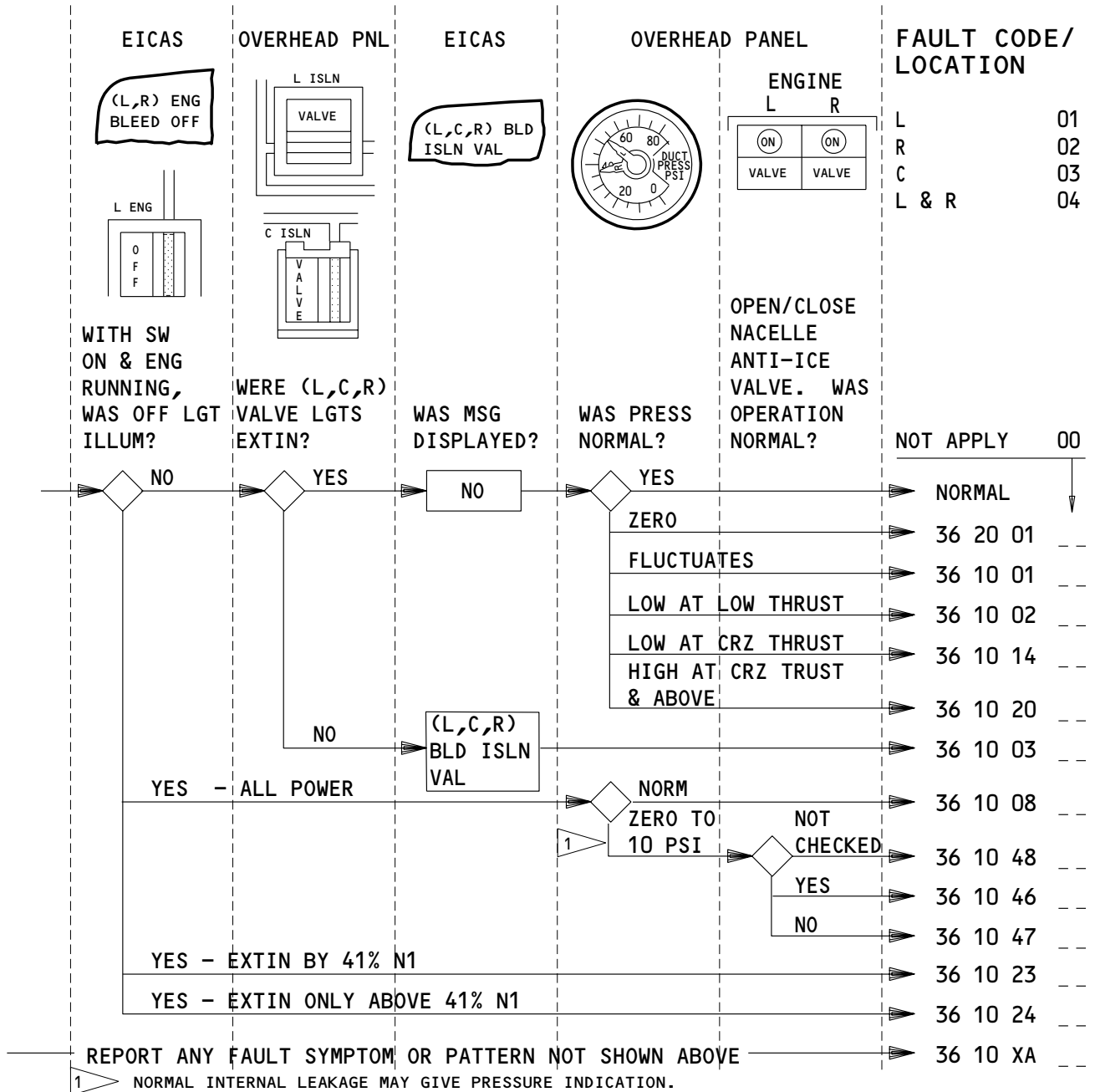
05

Page 4
Dec 22/06

BOEING

767

FAULT ISOLATION/MAINT MANUAL



APPLICABLE CIRCUIT BREAKERS

11A14	AIR SUPPLY ISOL VLV CONT L	11S14	ISOL VALVE PWR CTR	11S20	RIGHT ENG BLEED CONT
11A27	AIR SPLY ISOL ALTN CONT R	11S15	ISOL VALVE CONT CTR	11S21	RIGHT ISOL VALVE PWR
11S10	LEFT ENG BLEED IND	11S16	DUCT PRESS IND L	11S22	RIGHT ISOL VALVE CONT
11S11	LEFT ENG BLEED CONT	11S17	DUCT PRESS IND PWR	11S25	DUCT PRESS IND R
11S12	ISOL VALVE PWR L	11S19	RIGHT ENG BLEED IND		

ENGINE PNEUMATIC SUPPLY - FAULT CODES

EFFECTIVITY

ALL

36-FAULT CODE DIAGRAM

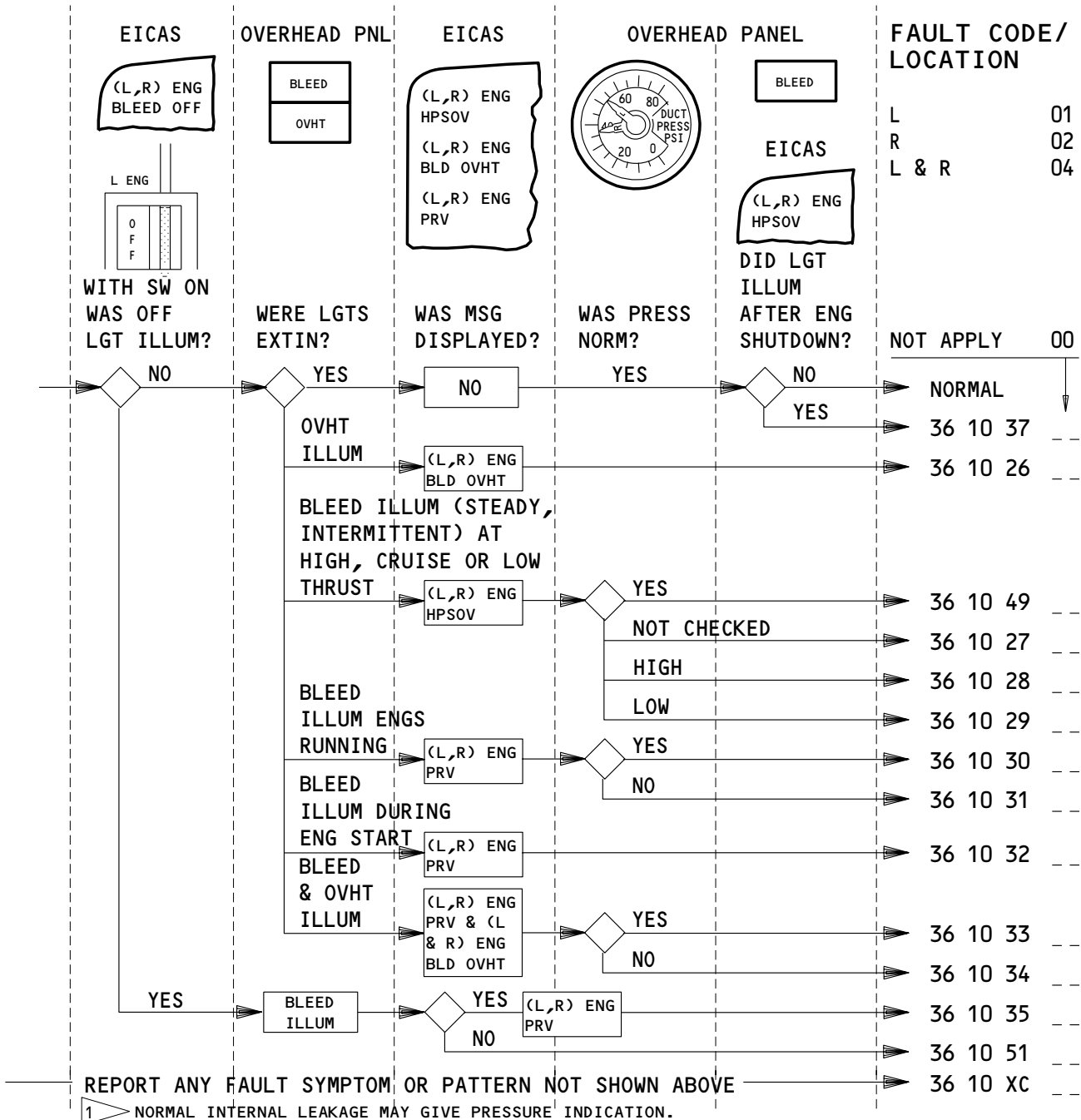
04

Page 1
Apr 22/00

BOEING

767

FAULT ISOLATION/MAINT MANUAL



APPLICABLE CIRCUIT BREAKERS

11A14	AIR SUPPLY ISOL VLV CONT L
11A27	AIR SPLY ISOL ALTN CONT R
11S10	LEFT ENG BLEED IND
11S11	LEFT ENG BLEED CONT

11S12	ISOL VALVE PWR L
11S14	ISOL VALVE PWR CTR
11S15	ISOL VALVE CONT CTR
11S16	DUCT PRESS IND L
11S17	DUCT PRESS IND PWR

11S19	RIGHT ENG BLEED IND
11S20	RIGHT ENG BLEED CONT
11S21	RIGHT ISOL VALVE PWR
11S22	RIGHT ISOL VALVE CONT
11S25	DUCT PRESS IND R

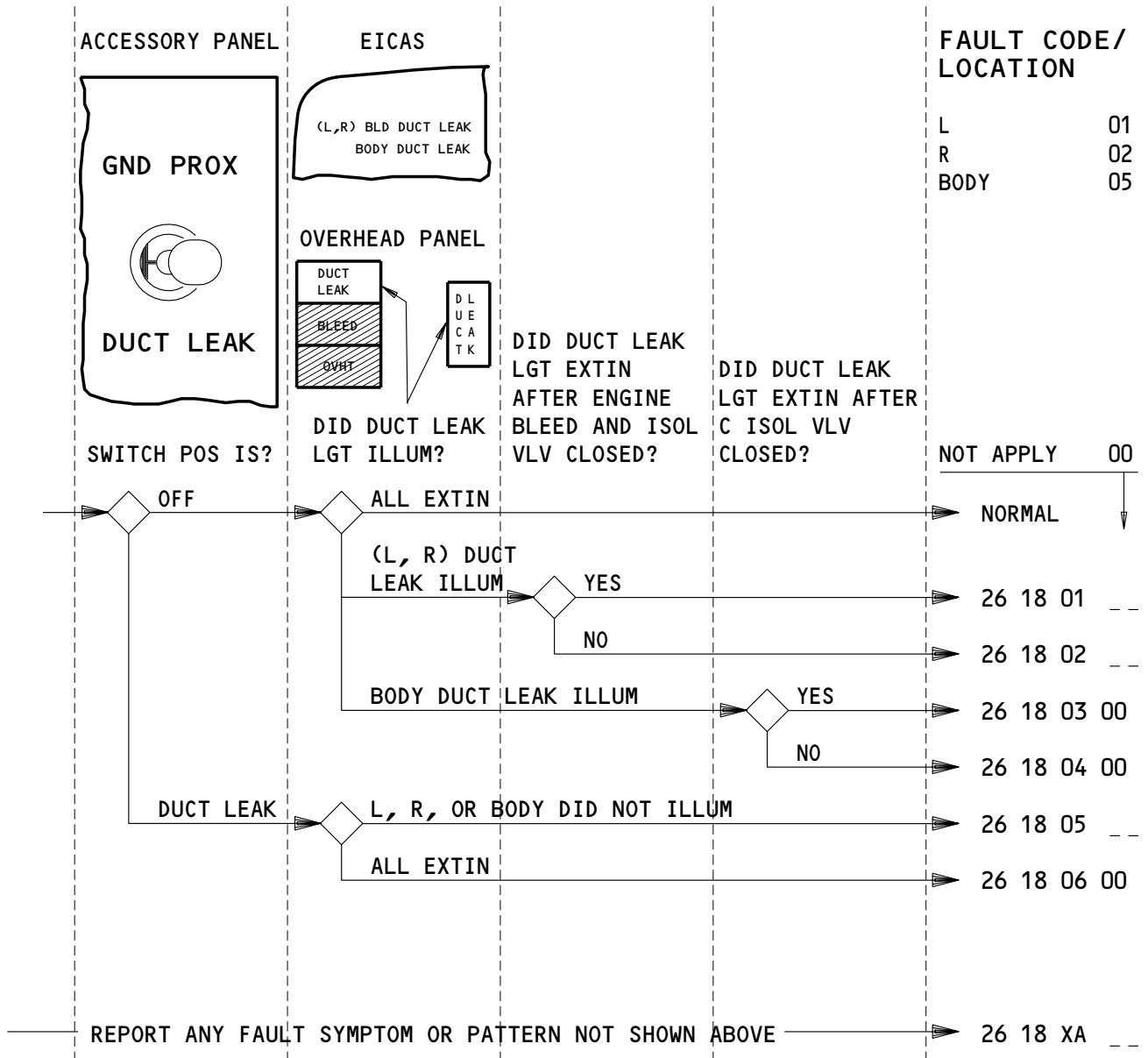
ENGINE PNEUMATIC SUPPLY – FAULT CODES

EFFECTIVITY

ALL

36-FAULT CODE DIAGRAM

L23132



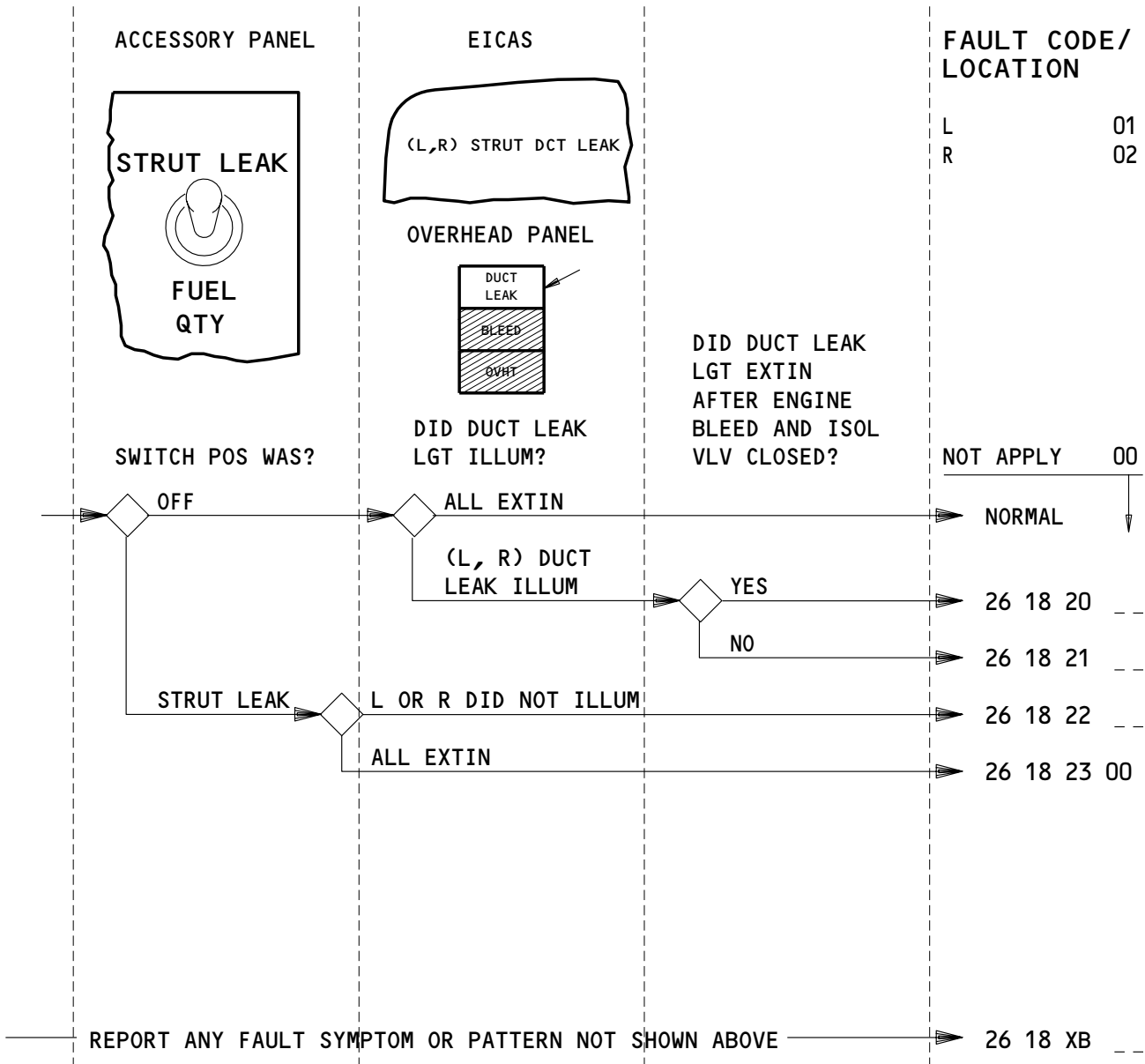
APPLICABLE CIRCUIT BREAKERS AS INSTALLED

- 11B10 WW FIRE/DUCT LEAK
- 11B10 WW FIRE/DUCT

DUCT LEAK AND TEST – FAULT CODES

EFFECTIVITY
ALL

36-FAULT CODE DIAGRAM



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

- 11B10 WW FIRE/DUCT LEAK
- 11B10 WW FIRE/DUCT

STRUT LEAK AND TEST – FAULT CODES

EFFECTIVITY

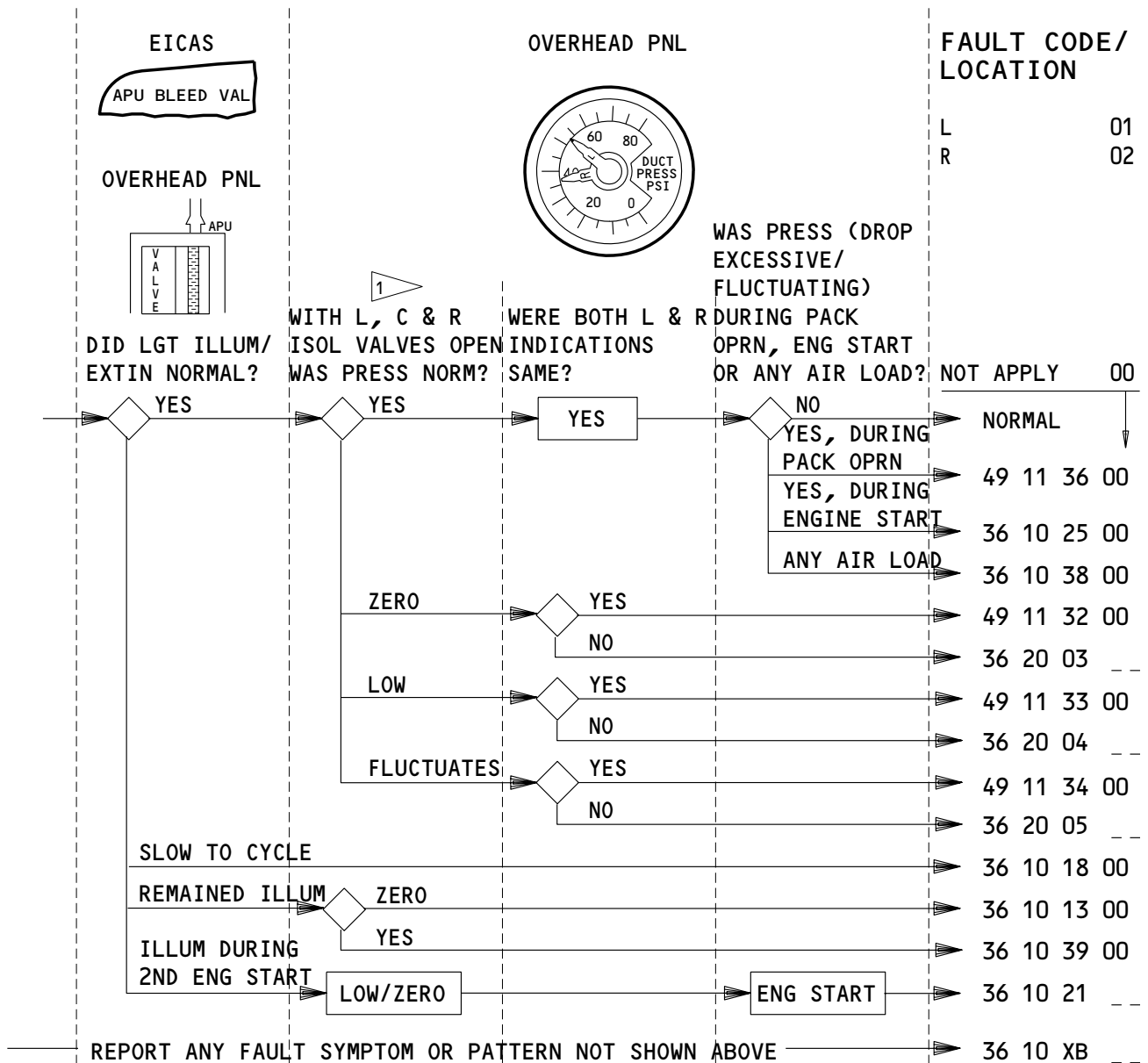
ALL

36-FAULT CODE DIAGRAM

BOEING

767

FAULT ISOLATION/MAINT MANUAL



1 APU BLEED VALVE OPENS WITH APU BLEED SW ON, APU RUN LGT ILLUM AND BOTH ENG BLEED VALVES CLOSED OR CTR ISOL VALVE CLOSED (EXCEPT DURING START).

APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11S16	DUCT PRESS IND L	11S24	APU BLEED CONT
11S17	DUCT PRESS IND PWR	11S25	DUCT PRESS IND R
11S23	APU BLEED PWR		

APU PNEUMATIC SUPPLY – FAULT CODES

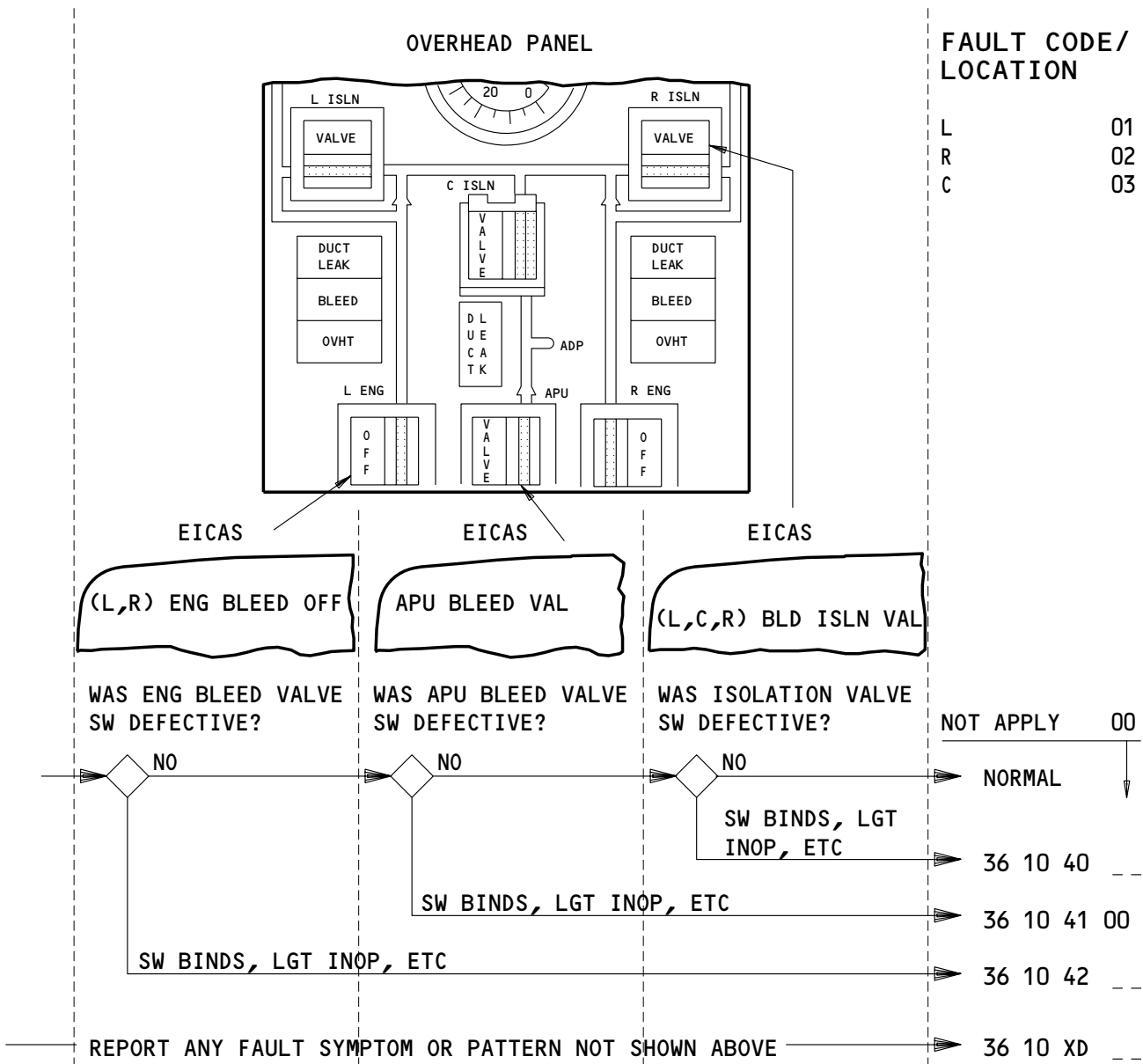
EFFECTIVITY

ALL

36-FAULT CODE DIAGRAM

03

Page 5
Apr 22/00



APPLICABLE CIRCUIT BREAKERS
N/A

**DEFECTIVE ENG, APU BLEED & ISOLATION
VALVE SWITCHES - FAULT CODES**

EFFECTIVITY
ALL

36-FAULT CODE DIAGRAM


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
36 10 XA --	1. Report engine pneumatic supply symptoms or patterns along with fault. 2. FIM 36-20-00/101, Fig. 104, Block 1
36 10 XB --	1. An (01=L, 02=R) indication or APU pneumatic supply problem was encountered by the flight crew which is not covered by the fault code diagrams (Ref fault code diagram for flight crew actions). 2. FIM 36-10-00/101, Fig. 119
36 10 XC --	1. An (01=L, 02=R) engine BLEED and OVHT light problem was encountered by the flight crew which is not covered by the fault code diagrams (Ref fault code diagram for flight crew actions) 2. SSM 36-11-04
36 10 XD --	1. An (01=L, 02=R, 03=C) ENG, APU BLEED, or ISOLATION VALVE switch problem was encountered by the flight crew which is not covered by the fault code diagrams (Ref fault code diagram for flight crew actions). 2. SSM 36-11-01 and SSM 36-21-01
36 10 01 --	1. (01=L, 02=R, 04=L&R) duct press fluctuates with eng running & bleed sw on. 2. FIM 36-20-00/101, Fig. 103 OR FIM 36-10-00/101, Fig. 109
36 10 02 --	1. (01=L, 02=R) eng duct press low at low thrust. Press norm at CRZ thrust and above. 2. FIM 36-10-00/101, Fig. 107
36 10 03 --	1. EICAS msg (01=L, 02=R, 03=C) BLD ISLN VAL displayed. (L, R, C) ISLN VALVE lgt illum. 2. (01=L, 02=R) FIM 36-10-00/101, Fig. 105 (03=C) FIM 36-10-00/101, Fig. 104
36 10 04 --	Not Used

EFFECTIVITY

ALL

36-FAULT CODE INDEX

06

Page 1
Aug 22/01


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
36 10 05 00	Not Used
36 10 06 --	Not Used
36 10 07 --	Not Used
36 10 08 --	1. (01=L, 02=R) eng bleed air vlv OFF lgt illum with sw ON & eng running. Duct press was norm. 2. FIM 36-10-00/101, Fig. 114
36 10 09 --	Not Used
36 10 10 00 thru 36 10 12 00	Not Used
36 10 13 00	1. APU bleed air valve lgt illum with sw ON (OFF). EICAS msg APU BLEED VAL displayed. Duct pressure zero. 2. FIM 36-10-00/101, Fig. 106
36 10 14 --	1. (01=L, 02=R) Engine duct pressure low at cruise thrust. 2. FIM 36-10-00/101, Fig. 108
36 10 15 --	Not Used
36 10 16 --	Not Used
36 10 17 --	Not Used
36 10 18 00	1. APU BLEED VALVE slow to (open, close). 2. Replace APU shutoff valve, V47 (AMM 36-11-10).
36 10 19 --	Not Used
36 10 20 --	1. (01=L, 02=R) engine duct pressure was high at cruise thrust and above. Pressure normal at low thrust. 2. FIM 36-10-00/101, Fig. 110
36 10 21 --	1. APU bleed VALVE lgt illum and EICAS msg APU BLEED VALVE displayed during start of 2nd eng, (01=L, 02=R). Duct pressure was (low/zero). 2. Replace 2nd eng bleed air engine start relay K494 (K495) (WDM 36-11-41).

EFFECTIVITY

ALL

36-FAULT CODE INDEX

08

Page 2
May 10/96


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
36 10 23 --	1. (O1=L, O2=R) eng bleed air vlv OFF lgt illum with sw ON and eng at low power. VLV OFF lgt extin below below 41% N1. 2. Replace the HPSOV (AMM 36-11-07/401).
36 10 24 --	1. (O1=L, O2=R) eng bleed air vlv OFF lgt illum with sw ON. VLV OFF lgt exting above 41% N1. 2. FIM 36-10-00/101, Fig. 116
36 10 25 --	1. Pneumatic pressure drop excessive when using APU bleed air for engine start. 2. FIM 36-10-00/101, Fig. 118
36 10 26 --	1. EICAS msg (O1=L, O2=R) ENG OVHT displayed. (L, R) OVHT lgt illum. 2. FIM 36-10-00/101, Fig. 113
36 10 27 --	1. EICAS msg (O1=L, O2=R) ENG HPSOV displayed. (L, R) eng BLEED lgt illum (steady, intemittently) at (high, cruise or low) thrust. Duct press not checked. 2. FIM 36-10-00/101, Fig. 111
36 10 28 --	1. EICAS msg (O1=L, O2=R) ENG HPSOV displayed. (L, R) eng BLEED lgt illum (steady, intermittently). Duct press high, _____ psi. 2. FIM 36-10-00/101, Fig. 111
36 10 29 --	1. EICAS msg (O1=L, O2=R) ENG HPSOV displayed. (L, R) eng BLEED lgt illum (steady, intermittently). Duct press low, _____ psi. 2. FIM 36-10-00/101, Fig. 108 AND FIM 36-10-00/101, Fig. 111
36 10 30 --	1. EICAS msg (O1=L, O2=R) ENG PRV displayed. (L, R) eng BLEED lgt illum. Duct press normal. 2. FIM 36-10-00/101, Fig. 123
36 10 31 --	1. EICAS msg (O1=L, O2=R) ENG PRV displayed. (L, R) eng BLEED lgt illum. Duct press (high, low). 2. FIM 36-10-00/101, Fig. 123

EFFECTIVITY

ALL

36-FAULT CODE INDEX

09

Page 3
Nov 10/97


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
36 10 32 --	1. EICAS msg (O1=L, O2=R) ENG PRV displayed during engine start. (L, R) eng BLEED lgt illum. 2. FIM 36-10-00/101, Fig. 124
36 10 33 --	1. EICAS msg (O1=L, O2=R) ENG PRV & ENG BLD OVHT displayed. (L, R) eng BLEED & OVHT lgts illum. Duct press normal. 2. FIM 36-10-00/101, Fig. 125
36 10 34 --	1. EICAS msg (O1=L, O2=R) ENG PRV & ENG BLD OVHT displayed. (L, R) eng BLEED & OVHT lgts illum. Duct press (high, low). 2. FIM 36-10-00/101, Fig. 126
36 10 35 --	1. EICAS msg (O1=L, O2=R) ENG BLEED OFF & ENG PRV displayed. (L, R) eng bleed OFF & BLEED lgt illum. 2. FIM 36-10-00/101, Fig. 123
36 10 36 --	1. EICAS msg (O1=L, O2=R) ENG PRV displayed and BLEED lgt illum during eng start. (Refer to Chapter 71 for fault code diagram). 2. FIM 36-10-00/101, Fig. 124
36 10 37 --	1. EICAS msg (O1=L, O2=R) ENG HPSOV displayed and (L, R) ENG BLEED lgt illum after eng shut down. 2. FIM 36-10-00/101, Fig. 111
36 10 38 --	1. Pneumatic pressure (drops excessive/fluctuates) when using APU bleed air for any air load, (eng start, packs, ADP). 2. FIM 36-10-00/101, Fig. 119
36 10 39 00	1. APU bleed air valve lgt illum with sw ON (OFF). EICAS msg APU BLEED VAL displayed. Duct pressure normal. 2. Replace APU bleed VALVE switch/light, S5 (AMM 33-13-00). If fault persists, replace APU shutoff valve, V47 (AMM 36-11-10).
36 10 40 --	1. (O1=L, O2=R, O3=C) ISOLATION VALVE sw (binds, lgt inop, etc). 2. Replace defective (L, R, C) ISOLATION VALVE switch/light (S1, S3, S2) (AMM 33-13-00).
36 10 41 00	1. APU BLEED VALVE sw (binds, lgt inop, etc). 2. Replace defective APU BLEED VALVE switch/light (S5) (AMM 33-13-00).
36 10 42 --	1. (O1=L, O2=R) ENG BLEED VALVE sw (binds, lgt inop, etc). 2. Replace defective (L, R) ENG BLEED VALVE switch/light (S4, S6) (AMM 33-13-00).

EFFECTIVITY

ALL

36-FAULT CODE INDEX

09

Page 4
May 10/96


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
36 10 43 00 thru 36 10 45 00	Not Used
36 10 46 --	1. EICAS msgs (O1=L, O2=R) ENG BLEED OFF displayed. Eng bleed air vlv OFF lgt illum with sw ON and eng running. Duct press was (zero, less than 10 psi). Nacelle Anti-ice operates normal. 2. FIM 36-10-00/101, Fig. 115
36 10 47 --	1. EICAS msgs (O1=L, O2=R) ENG BLEED OFF displayed. Eng bleed air vlv OFF lgt illum with sw ON and eng running. Duct press was (zero, less than 10 psi). Nacelle Anti-ice failed to operate. 2. FIM 36-10-00/101, Fig. 115
36 10 48 --	1. EICAS msgs (O1=L, O2=R) ENG BLEED OFF displayed. Eng bleed air vlv OFF lgt illum with sw ON and eng running. Duct press was (zero, less than 10 psi). Nacelle Anti-ice operation not checked. 2. FIM 36-10-00/101, Fig. 115
36 10 49 --	1. EICAS msg (O1=L, O2=R) ENG HPSOV displayed. (L,R) eng BLEED lgt illum (steady, intermittent) at (high, cruise, low) thrust. Duct press normal. 2. FIM 36-10-00/101, Fig. 111
36 10 50 --	Not Used.
36 10 51 --	1. EICAS msg (O1=L, O2=R) ENG BLEED OFF displayed. (L,R) eng BLEED lgt illum. 2. FIM 36-10-00/101, Fig. 123

EFFECTIVITY

ALL

36-FAULT CODE INDEX

09

Page 5
Aug 22/05


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
36 10 52 00 thru 36 10 63 00	Not Used
36 20 01 --	1. (01=L, 02=R, 04=L&R) duct press zero with eng running & bleed sw ON. 2. FIM 36-20-00/101, Fig. 103, Block 1
36 20 02 --	Not used.
36 20 03 --	1. (01=L, 02=R) duct press zero with APU running & isln valves open. Press on other side norm. 2. FIM 36-20-00/101, Fig. 103, Block 1
36 20 04 --	1. Only (01=L, 02=R) duct press low with APU supplying press & isln valves open. Press on other side norm. 2. FIM 36-20-00/101, Fig. 103, Block 2
36 20 05 --	1. Only (01=L, 02=R) duct press fluctuating with APU supplying press & isln valves open. Press norm on other side. 2. FIM 36-20-00/101, Fig. 103, Block 2

EFFECTIVITY

ALL

36-FAULT CODE INDEX

09

Page 6
May 10/96

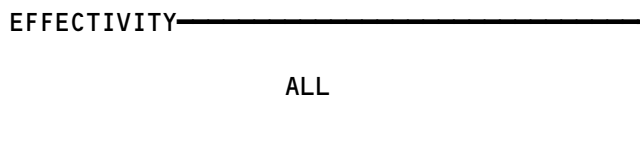
BITE Index

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.

<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
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	36-00/36-20
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
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)

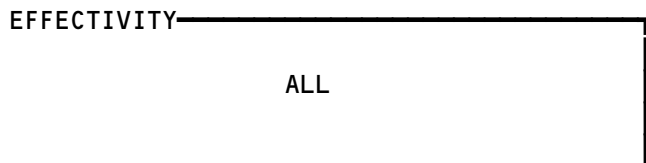


36-BITE INDEX


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
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 System 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)



36-BITE INDEX

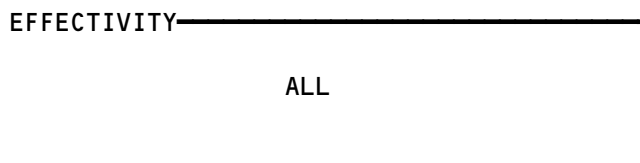


767

FAULT ISOLATION/MAINT MANUAL

<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
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)



36-BITE INDEX

01

Page 3
Aug 22/99

BOEING
767
FAULT ISOLATION/MAINT MANUAL

PNEUMATIC DISTRIBUTION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ASSEMBLY - AIR SUPPLY CONTROL CARD	8	2	119AL, MAIN EQUIP CTR, P50	36-11-12
CIRCUIT BREAKER -			FLT COMPT, P11	
CONT, AIR SUPPLY APU BLEED, C1333		1	11S24	*
CONT, C AIR SUPPLY ISLN VLV, C1338		1	11S15	*
CONT, L AIR SUPPLY ENG BLEED, C1339		1	11S11	*
CONT, L AIR SUPPLY ISLN VLV, C1334		1	11A14	*
CONT, R AIR SUPPLY ENG BLEED, C1340		1	11S20	*
CONT, R AIR SUPPLY ISLN VLV, C1335		1	11S22	*
CONT, R AIR SUPPLY ISLN VLV ALT, C1345		1	11A27	*
IND, L AIR SUPPLY DUCT PRESS, C1332		1	11S16	*
IND, L AIR SUPPLY ENG BLEED, C1343		1	11S10	*
IND, R AIR SUPPLY ENG BLEED, C1344		1	11S19	*
IND, R AIR SUPPLY DUCT PRESS, C1342		1	11S25	*
POWER, AIR SUPPLY APU BLEED, C1336		1	11S23	*
PWR, AIR SUPPLY DUCT PRESS, C4241		1	11S17	*
PWR, C AIR SUPPLY ISLN VLV, C1337		1	11S14	*
PWR, L AIR SUPPLY ISLN VLV, C1330		1	11S12	*
PWR, R AIR SUPPLY ISLN VLV, C1331		1	11S21	*
CIRCUIT BREAKER -			119AL, MAIN EQUIP CTR, P36	
BITE, AIR SUPPLY, C1341		1	36L7	*
CONNECTOR - PNEUMATIC GROUND AIR	7	2	193LL	36-11-03
CONTROLLER - HIGH PRESSURE, M7191	5	2	415AL,425AL	36-11-08
CONTROLLER - PRESSURE REGULATING VALVE, M7200	5	2	415AL,425AL	36-11-19
MODULE - BLEED AIR SUPPLY, M15		1	FLT COMPT, P5	36-23-01
PRECOOLER - AIR SUPPLY	4	2	414AR,424AR,418AR,428AR,416AR, 426AR,417AL,427AL,436BR,446BR	36-11-15
RELAY - (FIM 31-01-06/101)				
START, LEFT ENG 1, K665				
START, RIGHT ENG 1, K666				
RELAY - (FIM 31-01-33/101)				
START, LEFT BLEED AIR ENGINE, K494				
N2, LEFT BLEED AIR ENGINE, K777				
RELAY - (FIM 31-01-36/101)				
INDICATION, C AIR SUPPLY ISLN VLV, CLOSED, K21				
INDICATION, C AIR SUPPLY ISLN VLV, OPEN, K22				
INDICATION, L AIR SUPPLY ISLN VLV, CLOSED, K10				
INDICATION, L AIR SUPPLY ISLN VLV, OPEN, K16				
VALVE, L T/R PNEUMATIC, K1021				

* SEE THE WDM EQUIPMENT LIST

Pneumatic Distribution - Component Index
Figure 101 (Sheet 1)

EFFECTIVITY

ALL

36-10-00

08B

Page 101
May 10/96

C10441

BOEING
767
FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
RELAY - (FIM 31-01-37/101) CONT, RIGHT ENG TAI T/D, K649 INDICATION R, AIR SUPPLY ISLN VLV, CLOSED, K19 INDICATION R, AIR SUPPLY ISLN VLV, OPEN, K18 N2, RIGHT ENG, K778 START, RIGHT BLEED AIR ENGINE, K495 VALVE, RIGHT T/R PNEUMATIC, K1022				
RELAY - (FIM 31-01-49/101) CONTROL, APU AIR SUPPLY VLV, K23 INDICATION, APU AIR SUPPLY, CLOSED, K24 INDICATION, APU AIR SUPPLY, OPEN K25				
SENSOR - FAN AIR TEMPERATURE, TS101	4	2	434AR,444AR	36-11-17
SWITCH - LEFT ENGINE FIRE, S37		1	AFT EQUIPMENT PANEL, P8	
SWITCH - RIGHT ENGINE FIRE, S38		1	AFT EQUIPMENT PANEL, P8	
SWITCH-LIGHT - BLEED AIR SUPPLY OFF, L ENG, YCZS4		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
OFF, R ENG, YCZS6		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, APU, YCZS5		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, C ISLN, YCZS2		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, L ISLN, YCZS1		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, R ISLN, YCZS3		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE - APU AIR SUPPLY CHECK	6	1	312AR	36-11-11
VALVE - APU AIR SUPPLY SHUTOFF, V47	6	1	313AL	36-11-10
VALVE - FAN AIR MODULATING, V112	4	2	414AR,424AR,418AR,428AR,416AR, 426AR	36-11-16
VALVE - HIGH PRESSURE SHUTOFF, V347	3	2	413AL,423AL,415AL,425AL,417AL, 427AL	36-11-07
VALVE - INTERMEDIATE PRESSURE CHECK	3	2	413AL,423AL,415AL,425AL,417AL, 427AL	36-11-06
VALVE - ISOLATION BYPASS CHECK	7	3	193NL,194LR	36-11-05
VALVE - LEFT, CENTER, RIGHT ISOLATION, V44, V45,V46	7	3	193NL,194LR	36-11-04
VALVE - LEFT, RIGHT, AIR SUPPLY PRESSURE REGULATING AND SHUTOFF, V42,V43	3,4	2	434AR,434AL,444AR,444AL	36-11-09
VALVE - PRESSURE REGULATING, V352	5	2	413AL,423AL,415AL,425AL,417AL, 427AL	36-11-18

* SEE THE WDM EQUIPMENT LIST

Pneumatic Distribution - Component Index
Figure 101 (Sheet 2)

EFFECTIVITY

ALL

36-10-00

04B

Page 102
May 10/96

C10443


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SENSOR - FAN AIR TEMPERATURE, TS101	4	2	434AR,444AR	36-11-17
SWITCH - LEFT ENGINE FIRE, S37		1	AFT EQUIPMENT PANEL, P8	
SWITCH - RIGHT ENGINE FIRE, S38		1	AFT EQUIPMENT PANEL, P8	
SWITCH-LIGHTS - BLEED AIR SUPPLY OFF, L ENG, YCZS4		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
OFF, R ENG, YCZS6		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, APU, YCZS5		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, C ISLN, YCZS2		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, L ISLN, YCZS1		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE, R ISLN, YCZS3		1	FLT COMPT, P5, BLEED AIR SUPPLY MODULE, M15	*
VALVE - APU AIR SUPPLY CHECK	6	1	312AR	36-11-11
VALVE - APU AIR SUPPLY SHUTOFF, V47	6	1	313AL	36-11-10
VALVE - FAN AIR MODULATING, V112	4	2	414AR,424AR,418AR,428AR,416AR, 426AR	36-11-16
VALVE - HIGH PRESSURE SHUTOFF, V347	3	2	413AL,423AL,415AL,425AL,417AL, 427AL	36-11-07
VALVE - INTERMEDIATE PRESSURE CHECK	3	2	413AL,423AL,415AL,425AL,417AL, 427AL	36-11-06
VALVE - ISOLATION BYPASS CHECK	7	3	193NL,194LR	36-11-05
VALVE - LEFT, CENTER, RIGHT ISOLATION, V44, V45,V46	7	3	193NL,194LR	36-11-04
VALVE - LEFT, RIGHT, AIR SUPPLY PRESSURE REGULATING AND SHUTOFF, V42,V43	3,4	2	434AR,434AL,444AR,444AL	36-11-09
VALVE - PRESSURE REGULATING, V352	5	2	413AL,423AL,415AL,425AL,417AL, 427AL	36-11-18

* SEE THE WDM EQUIPMENT LIST

Pneumatic Distribution - Component Index
Figure 101 (Sheet 3)

EFFECTIVITY

ALL

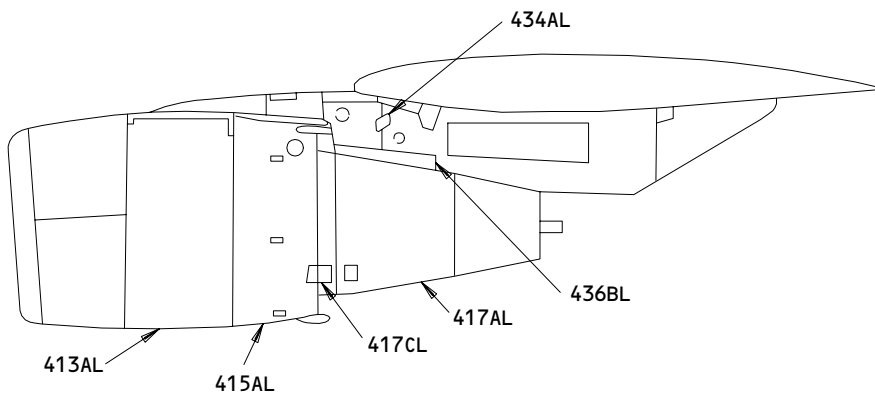
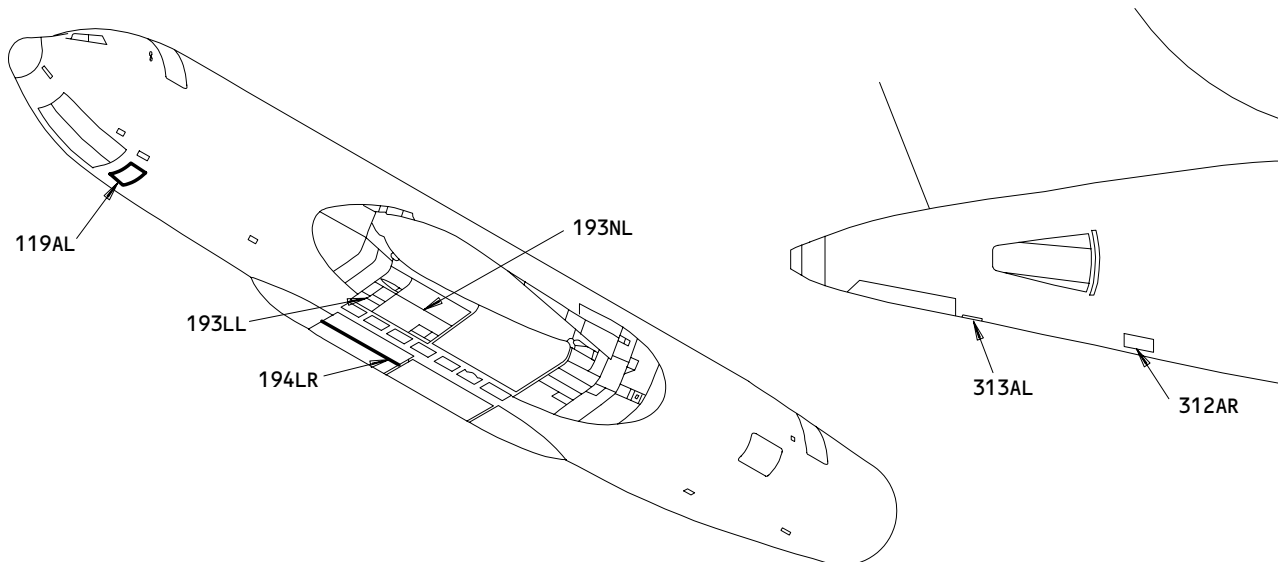
36-10-00

01B

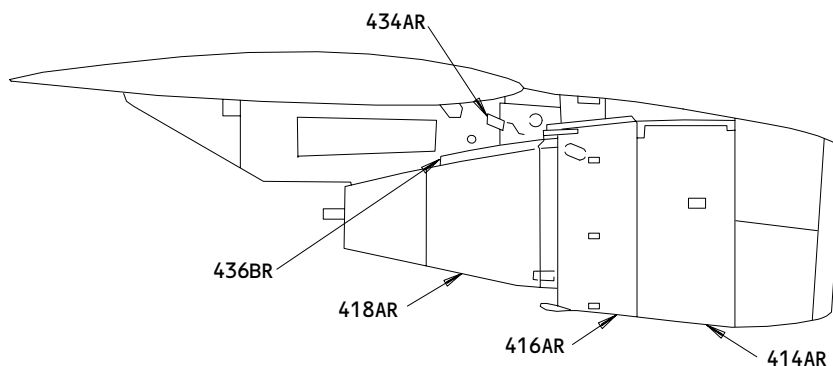
Page 103
May 10/95

E92062


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL



**NO. 1 ENGINE
 LEFT SIDE**



**NO. 1 ENGINE
 RIGHT SIDE**

**Pneumatic Distribution - Component Location
 Figure 102 (Sheet 1)**

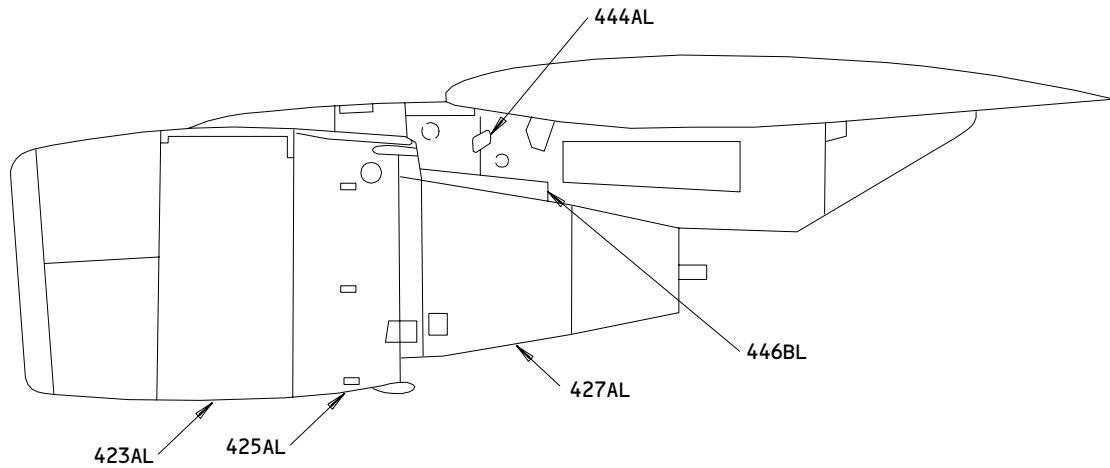
EFFECTIVITY	ALL
-------------	-----

36-10-00

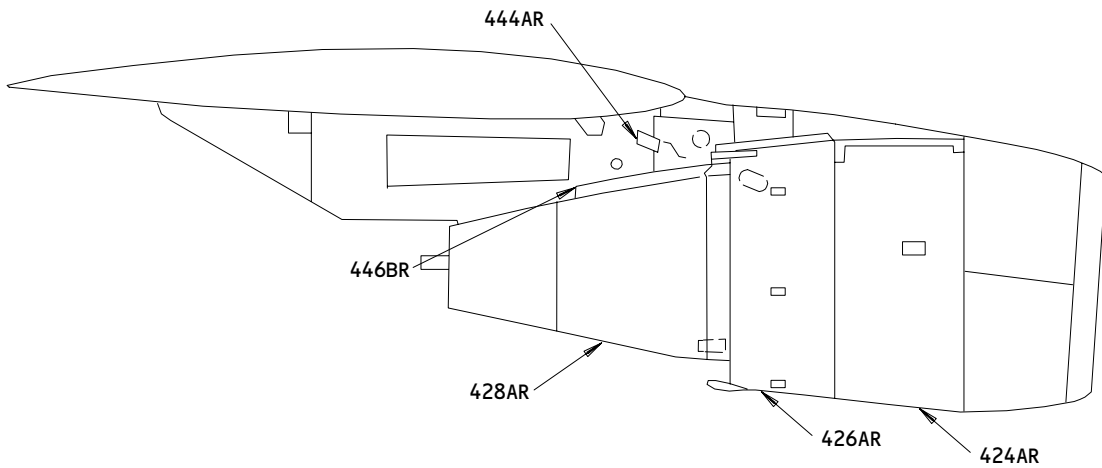
01B

Page 104
 May 10/95

E88982



NO. 2 ENGINE
 LEFT SIDE



NO. 2 ENGINE
 RIGHT SIDE

Pneumatic Distribution - Component Location
 Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

36-10-00

01B

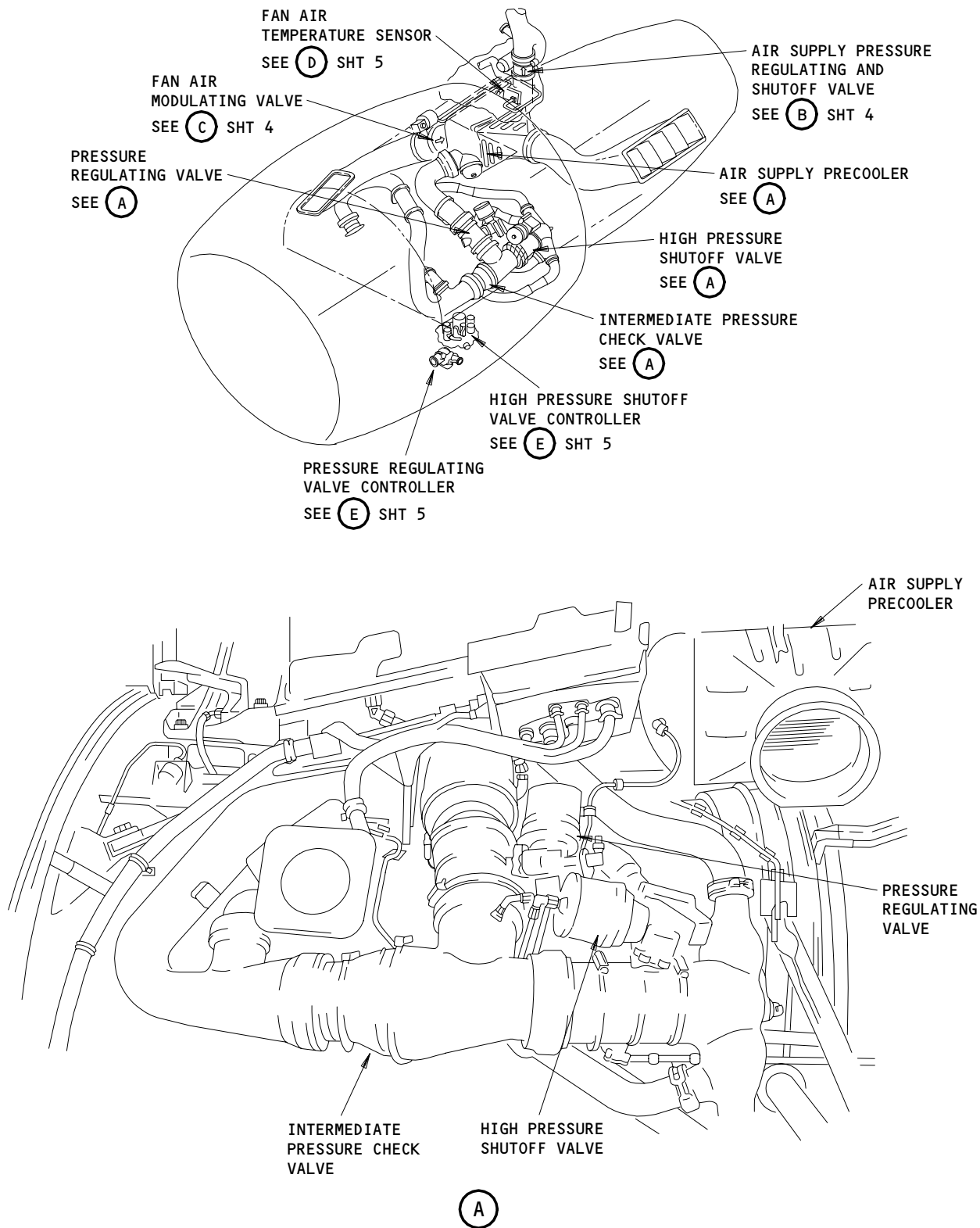
Page 105
 May 10/95

E88986

BOEING

767

FAULT ISOLATION/MAINT MANUAL



Pneumatic Distribution - Component Location
Figure 102 (Sheet 3)

EFFECTIVITY

ALL

36-10-00

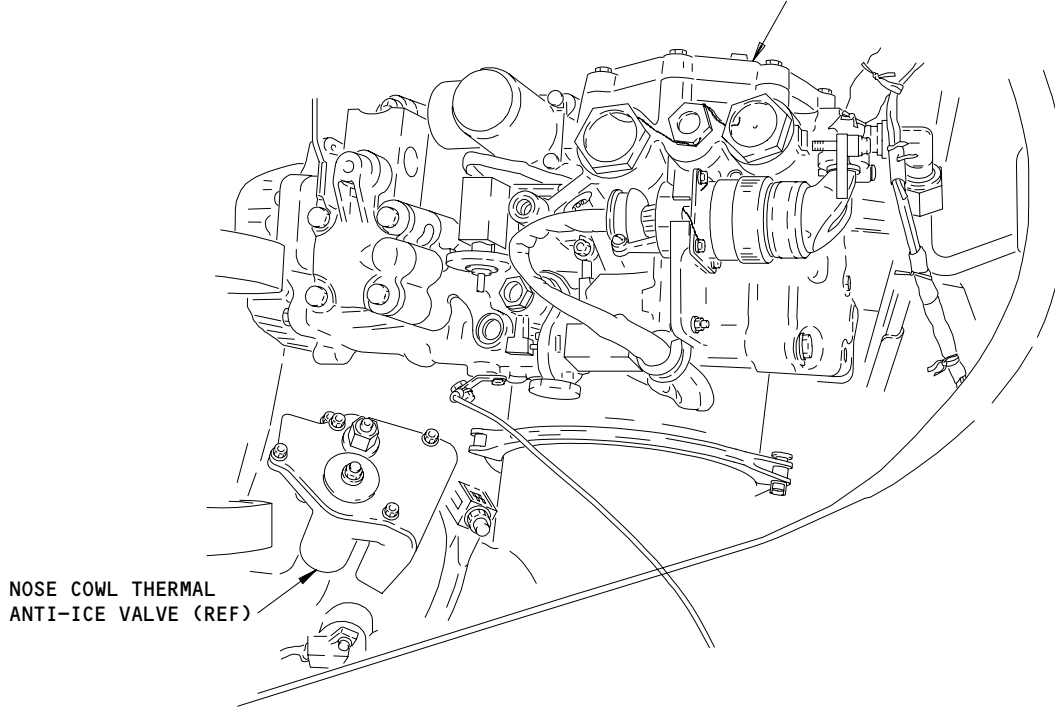
01B

Page 106
May 10/96

299845

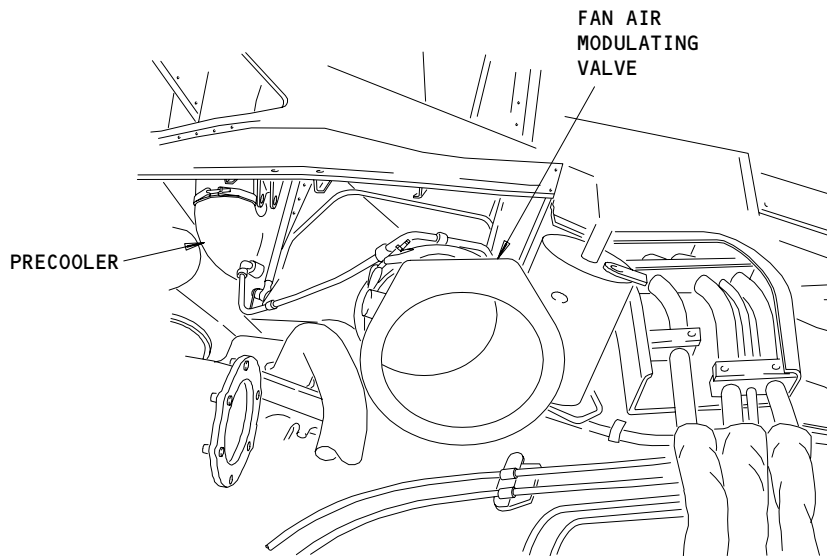
BOEING
767
FAULT ISOLATION/MAINT MANUAL

AIR SUPPLY PRESSURE
REGULATING AND
SHUTOFF VALVE



AIR SUPPLY PRESSURE REGULATING AND SHUTOFF VALVE

(B)



FAN AIR MODULATING VALVE

(C)

Pneumatic Distribution - Component Location (Details from Sht 3)
Figure 102 (Sheet 4)

EFFECTIVITY

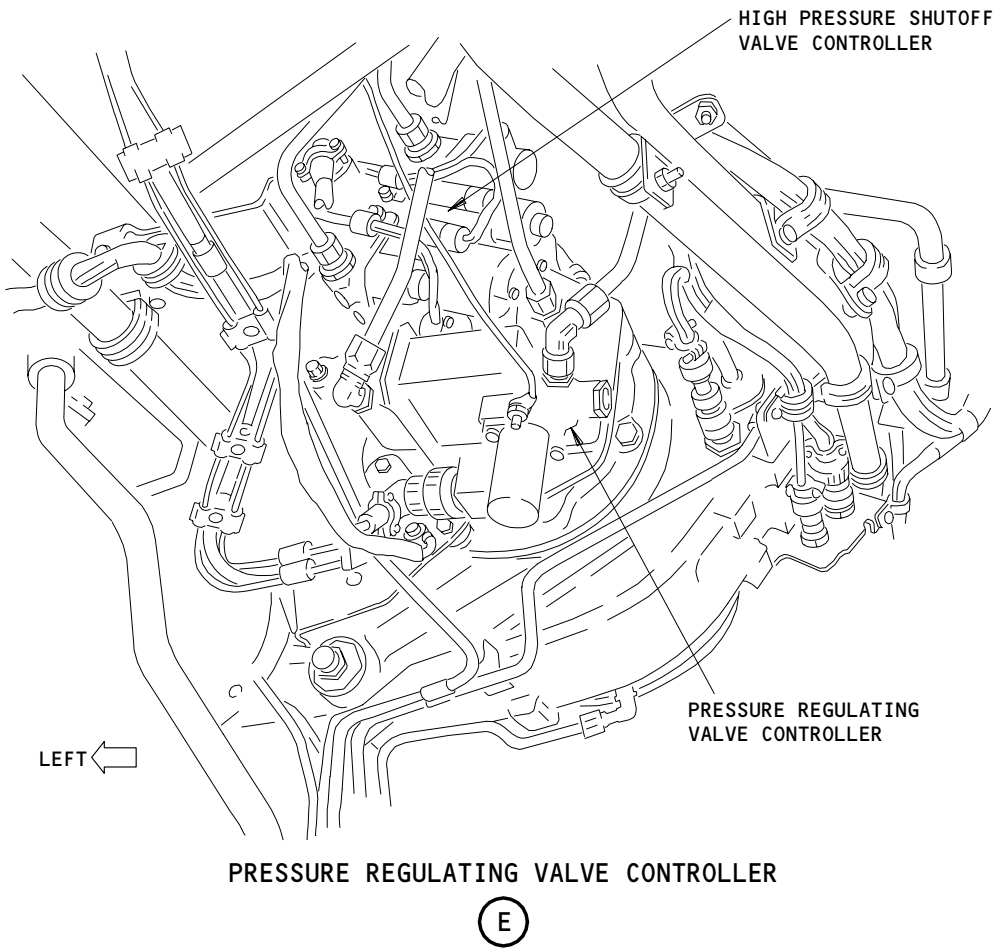
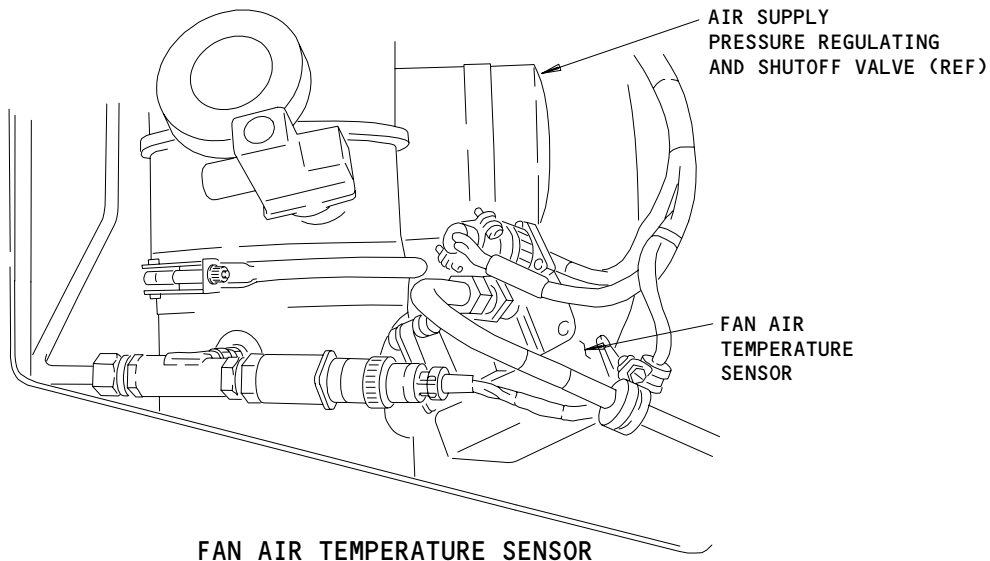
ALL

36-10-00

01B

Page 107
May 10/95

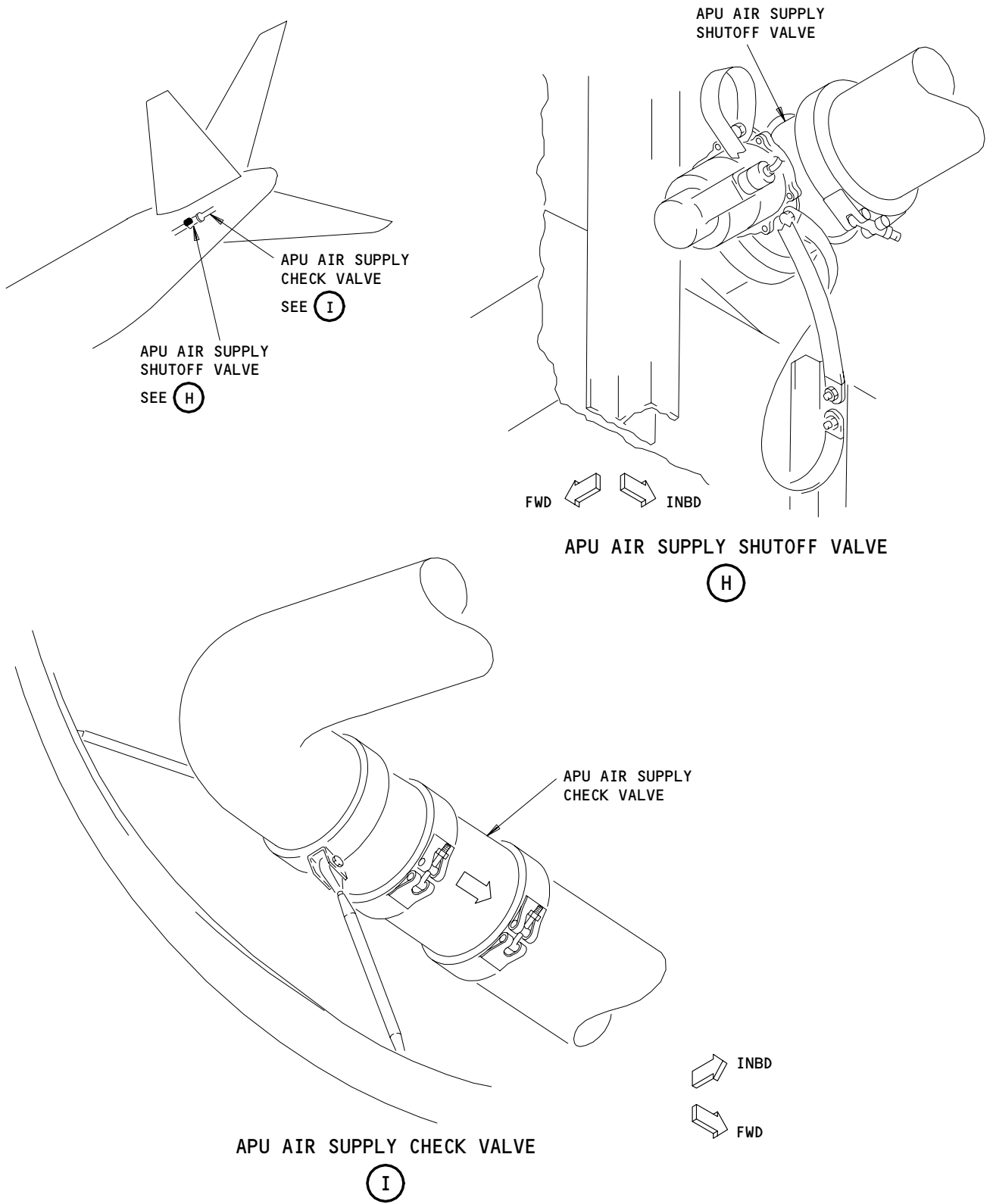
BOEING
767
FAULT ISOLATION/MAINT MANUAL



Pneumatic Distribution - Component Location (Details from Sht 3)
Figure 102 (Sheet 5)

EFFECTIVITY	
	ALL

36-10-00



Pneumatic Distribution - Component Location
Figure 102 (Sheet 6)

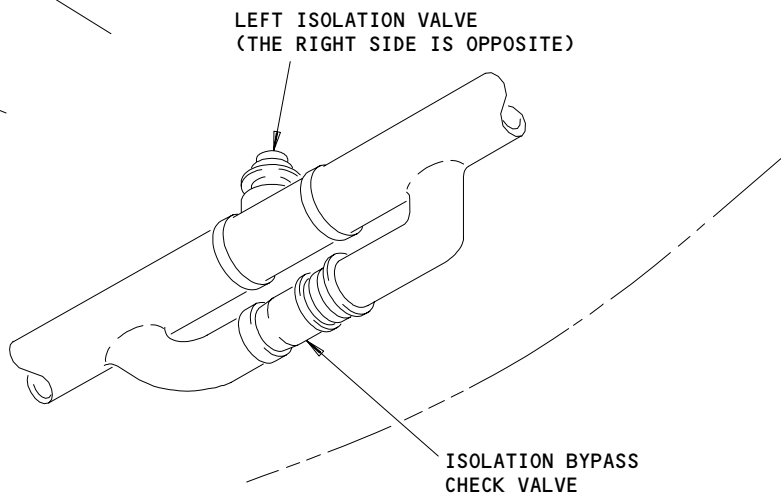
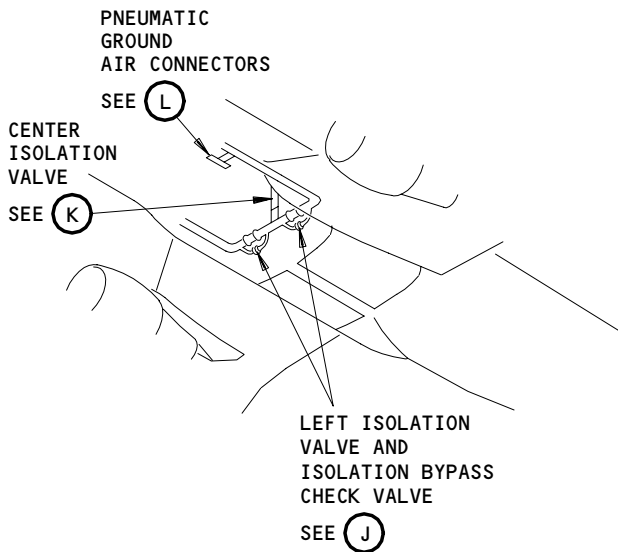
EFFECTIVITY	ALL
-------------	-----

36-10-00

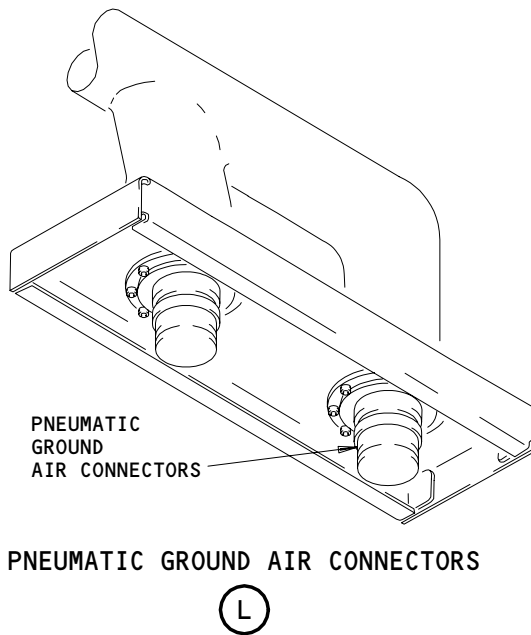
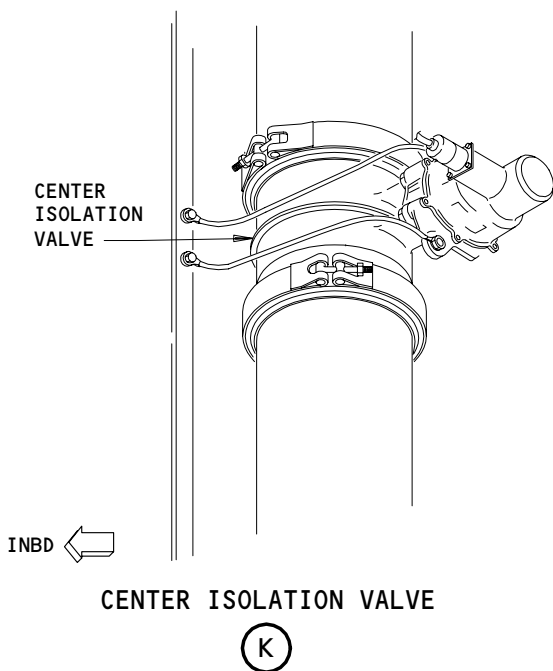
01B

Page 109
May 10/95

BOEING
767
FAULT ISOLATION/MAINT MANUAL



LEFT ISOLATION VALVE AND ISOLATION BYPASS CHECK VALVE
(J)

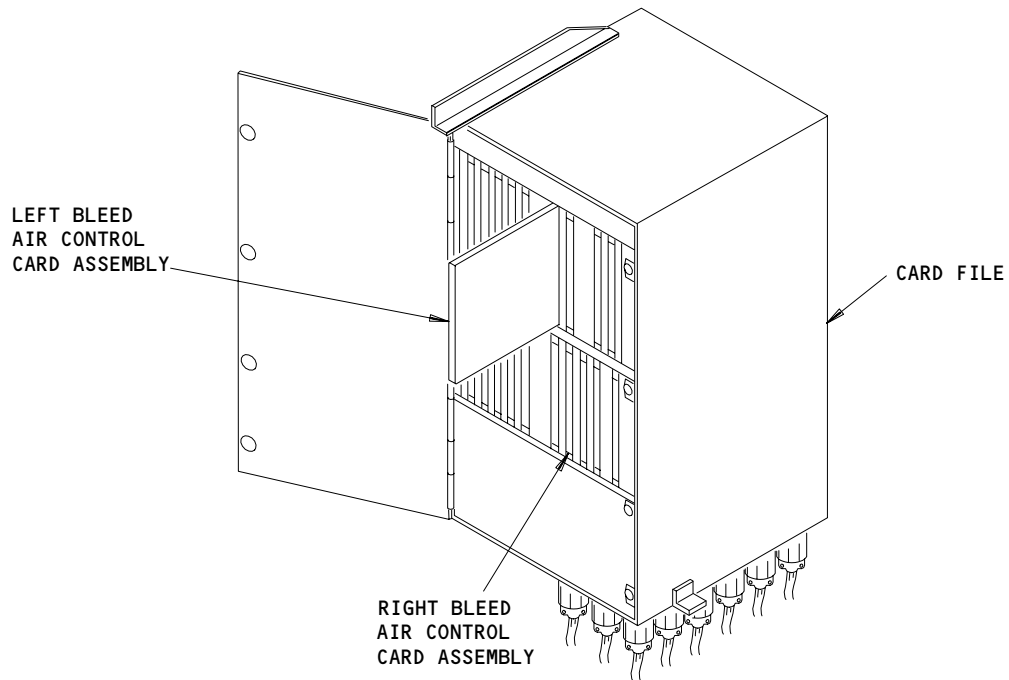
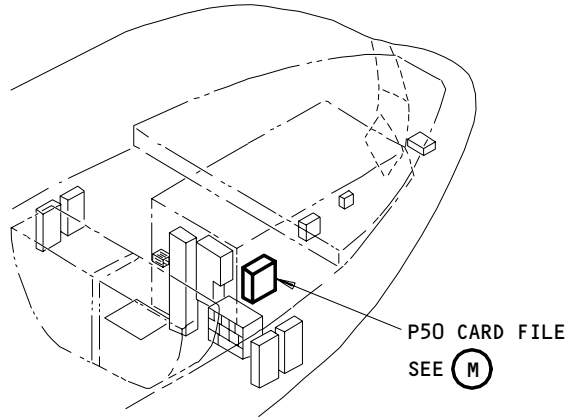


Pneumatic Distribution - Component Location
Figure 102 (Sheet 7)

EFFECTIVITY	ALL
-------------	-----

36-10-00

BOEING
 767
 FAULT ISOLATION/MAINT MANUAL



P50 CARD FILE



Pneumatic Distribution - Component Location
 Figure 102 (Sheet 8)

EFFECTIVITY	
	ALL

36-10-00

01B

Page 111
 May 10/95

E89008

EICAS MESSAGE "L (R)
BLD DUCT LEAK" AND
LEFT (RIGHT) DUCT
LEAK LIGHT ILLUMI-
NATED

PREREQUISITES NONE



1	ALIGN THE DUCT CLAMPS; OR REPAIR OR REPLACE THE DUCT SECTION TO REPAIR THE DUCT LEAK IN THE WING LEADING EDGE (AMM 36-11-01/401).
---	---

EICAS Message L (R) BLD DUCT LEAK and Left (Right) Duct Leak Light Illuminated
Figure 103

EFFECTIVITY

ALL

36-10-00

01B

Page 112
May 10/95

EICAS MESSAGE "C BLD ISLN VAL", CENTER ISOLATION VALVE LIGHT FAILS TO GO OUT WITH VALVE SELECTED OPEN.

PREREQUISITES
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S14, 11S15
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



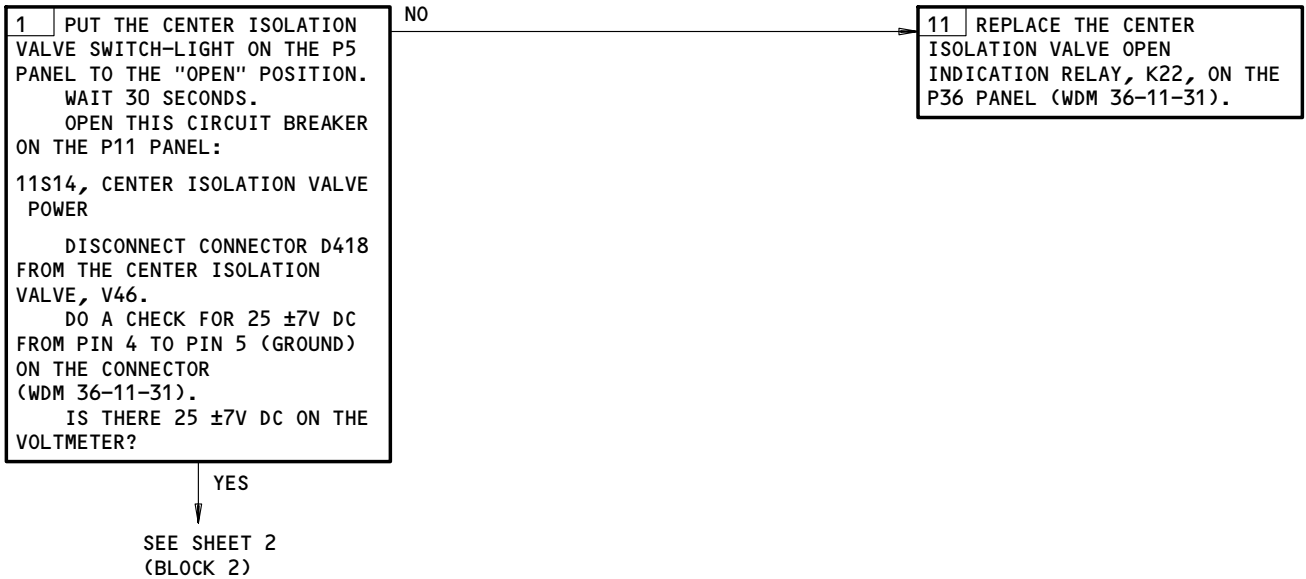
DESCRIPTION:

THE ISOLATION VALVE IS NOT IN THE COMMANDED POSITION.

POSSIBLE CAUSES:

1. ISOLATION VALVE
2. ELECTRICAL CIRCUIT (OPEN/CLOSED POSITION INDICATION)(WDM 36-11-31).

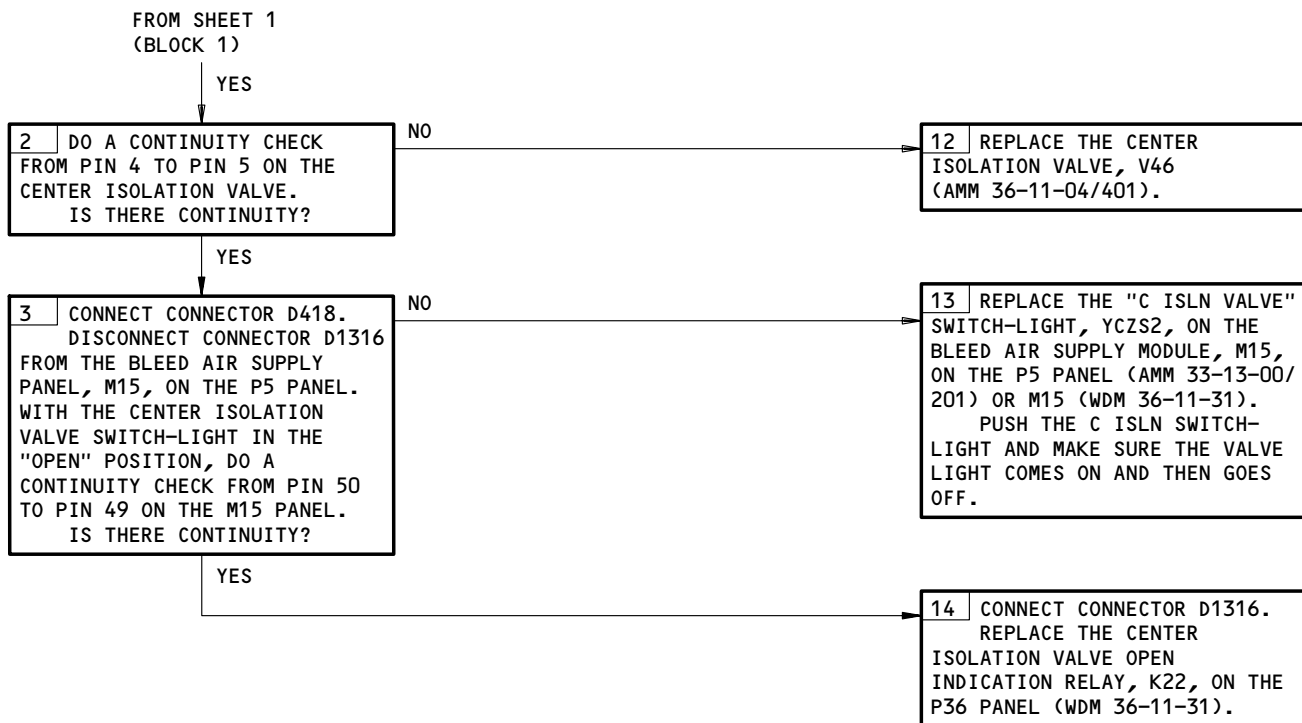
FAULT ISOLATION:



EICAS Message C BLD ISLN VAL, Center Isolation Valve Light Fails to Go Out with Valve Selected Open.
Figure 104 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

36-10-00



EICAS Message C BLD ISLN VAL, Center Isolation Valve Light Fails
to Go Out with Valve Selected Open.
Figure 104 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00

EICAS MESSAGE "L (R) BLD ISLN VAL" DISPLAYED. L (R) ISLN VALVE LIGHT FAILS TO GO OUT WITH VALVE SELECTED OPEN.



PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S12, 11S13, OR 11S21, 11S22

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

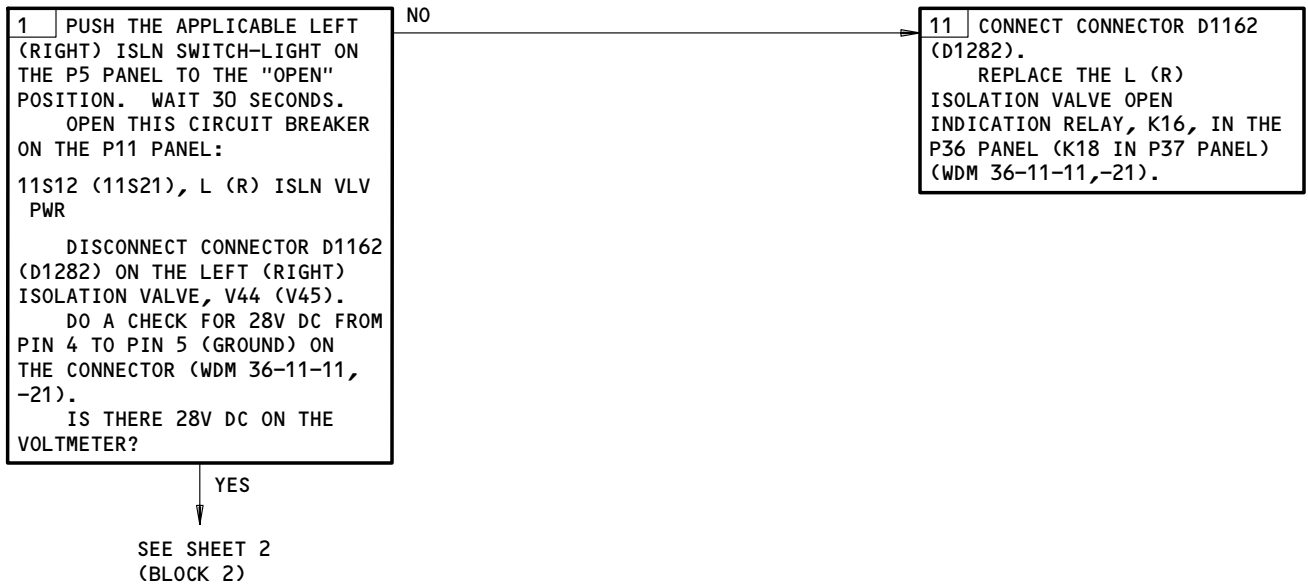
DESCRIPTION:

THE ISOLATION VALVE IS NOT IN THE COMMANDED POSITION.

POSSIBLE CAUSES:

1. ISOLATION VALVE
2. ELECTRICAL CIRCUIT (OPEN/CLOSED POSITION INDICATION)(WDM 36-11-11,-21).

FAULT ISOLATION:



EICAS Message L (R) BLD ISLN VAL Displayed.
L (R) ISLN Valve Light Fails to Go Out with Valve Selected Open.
Figure 105 (Sheet 1)

EFFECTIVITY

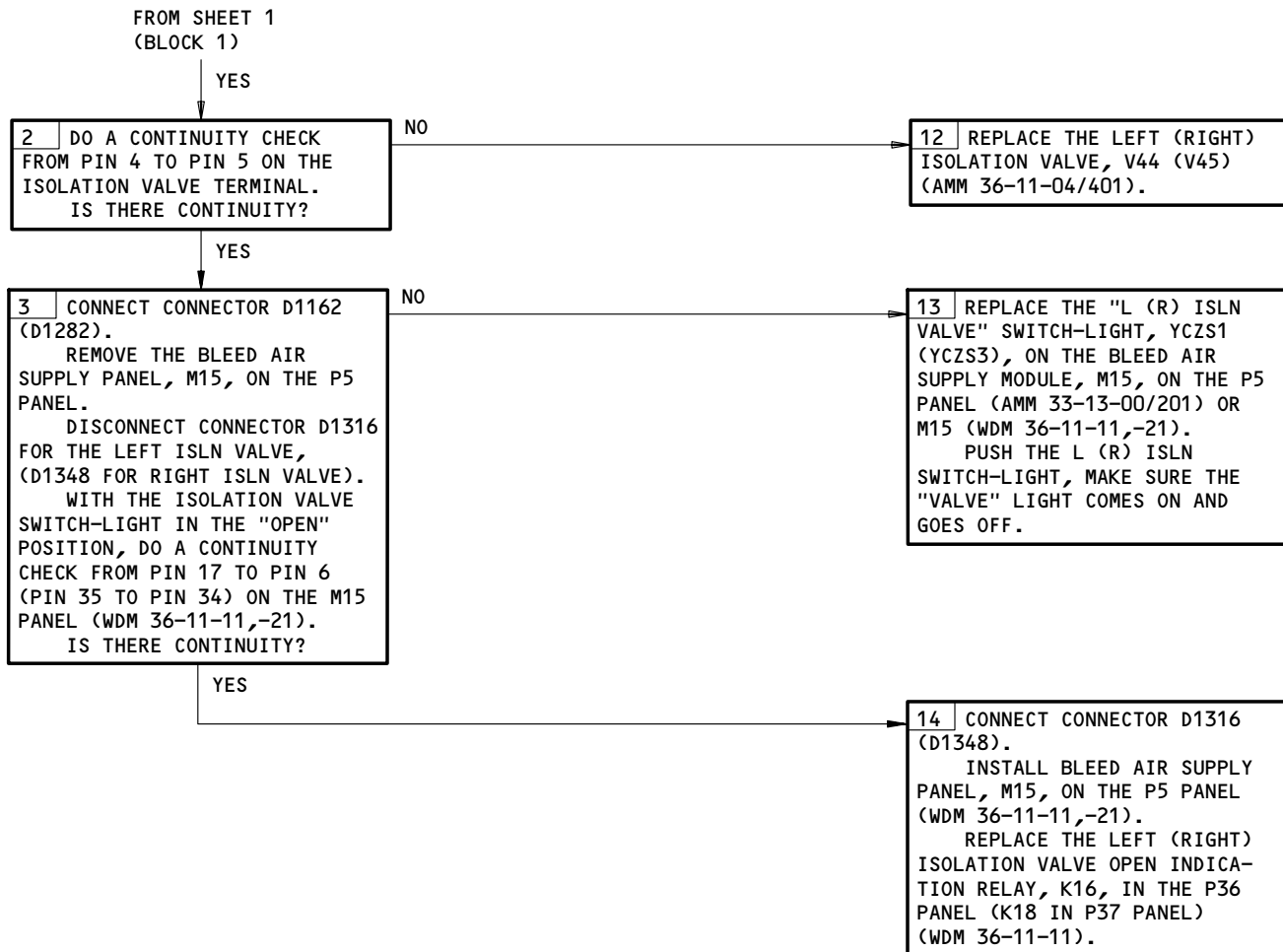
ALL

36-10-00

01B

Page 115
Aug 10/95

E91957



EICAS Message L (R) BLD ISLN VAL Displayed.
L (R) ISLN Valve Light Fails to Go Out with Valve Selected Open.
Figure 105 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00

APU BLEED AIR VALVE
LIGHT ILLUMINATED
WITH SWITCH "ON"
("OFF")



PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S23,11S24

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

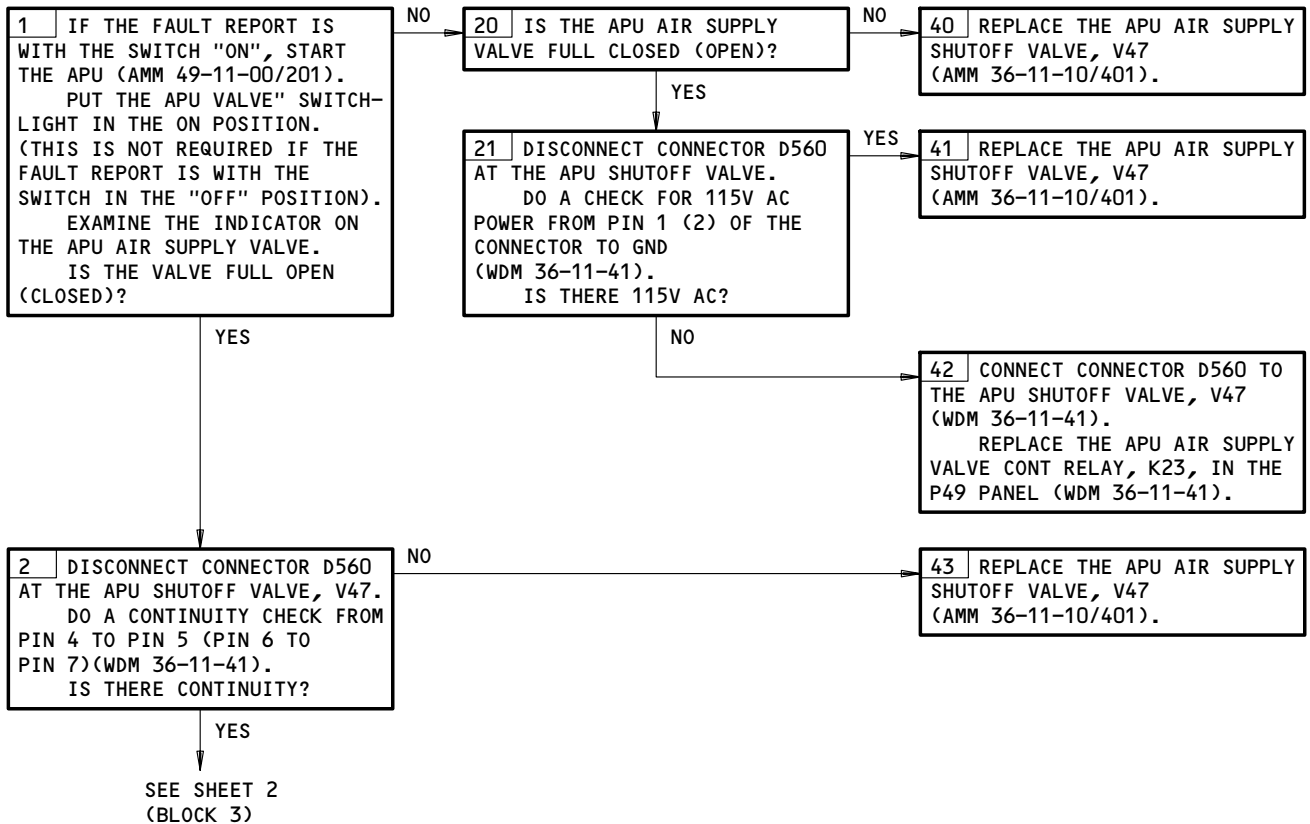
DESCRIPTION:

THE APU SHUTOFF VALVE IS NOT IN ITS COMMANDED POSITION.

POSSIBLE CAUSES:

1. APU SHUTOFF VALVE
2. ELECTRICAL CIRCUIT PROBLEM TO THE APU SHUTOFF VALVE (OPEN/CLOSED POSITION INDICATION).

FAULT ISOLATION:



APU Bleed Air Valve Light Illuminated With Switch ON (OFF)
Figure 106 (Sheet 1)

EFFECTIVITY

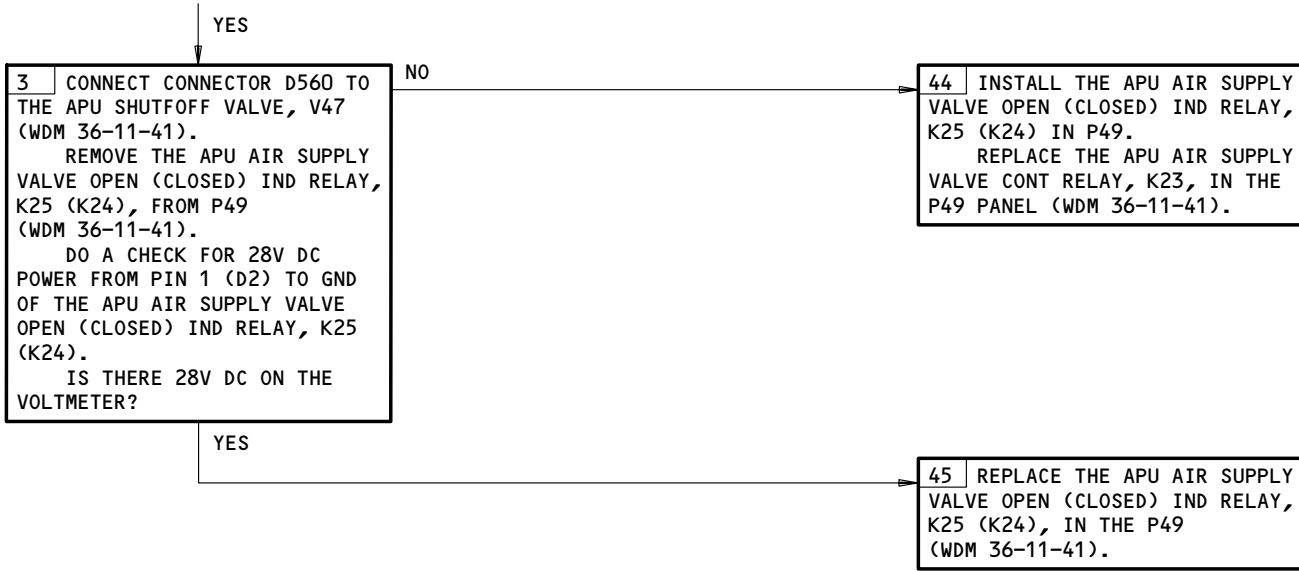
ALL

36-10-00

01B

Page 117
May 10/95

FROM SHEET 1
(BLOCK 2)



APU Bleed Air Valve Light Illuminated With Switch ON (OFF)
Figure 106 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00

E91969

L (R) ENG DUCT
PRESSURE LOW AT
LOW THRUST (GROUND
OPERATION OR
DESCENT). PRESSURE
NORMAL AT CRUISE
THRUST AND ABOVE



PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10,11S11,36L7; 5 11N14,11N23

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

CONSUMABLE MATERIALS:
ANTISEIZE COMPOUND, HIGH TEMPERATURE - BOSTIK,
NEVER-SEEZ

POSSIBLE CAUSES:

1. LOOSE CONNECTOR AT THE HPC SOLENOID
2. LOOSE B-NUT CONNECTIONS FOR THE PRESSURE SENSE LINES AT THE PRV, PRVC, HPSOV, HPC, OR PRSOV
3. BAD HPC (BAD SOLENOID)(HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
4. BAD PRVC (THE PRVC IS NOT REGULATING CORRECTLY)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
5. BAD HPSOV (THE HPSOV WILL NOT OPEN)(HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
6. BAD PRV (THE PRV WILL NOT FULLY OPEN)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
7. BAD PRSOV (PRSOV NOT REGULATING CORRECTLY)(PRSOV ADJUSTMENT/TEST, AMM 36-11-09/501)
8. OPEN WIRE TO THE HPC SOLENOID
9. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



1 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS, GO TO BLOCK 2. IF THE BITE MODULE PART NUMBER IS S210T120-67 (H/S 804401-2) OR ABOVE, DO THE BITE PROCEDURE.

2 **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

3 ACTIVATE THE THRUST REVERSERS (AMM 78-31-00/201).

5 NOT INSTALLED ON ALL AIRPLANES

L (R) Eng Duct Pressure Low at Low Thrust (Ground Operation or Descent).
Pressure Normal at Cruise Thrust and Above
Figure 107 (Sheet 1)

EFFECTIVITY

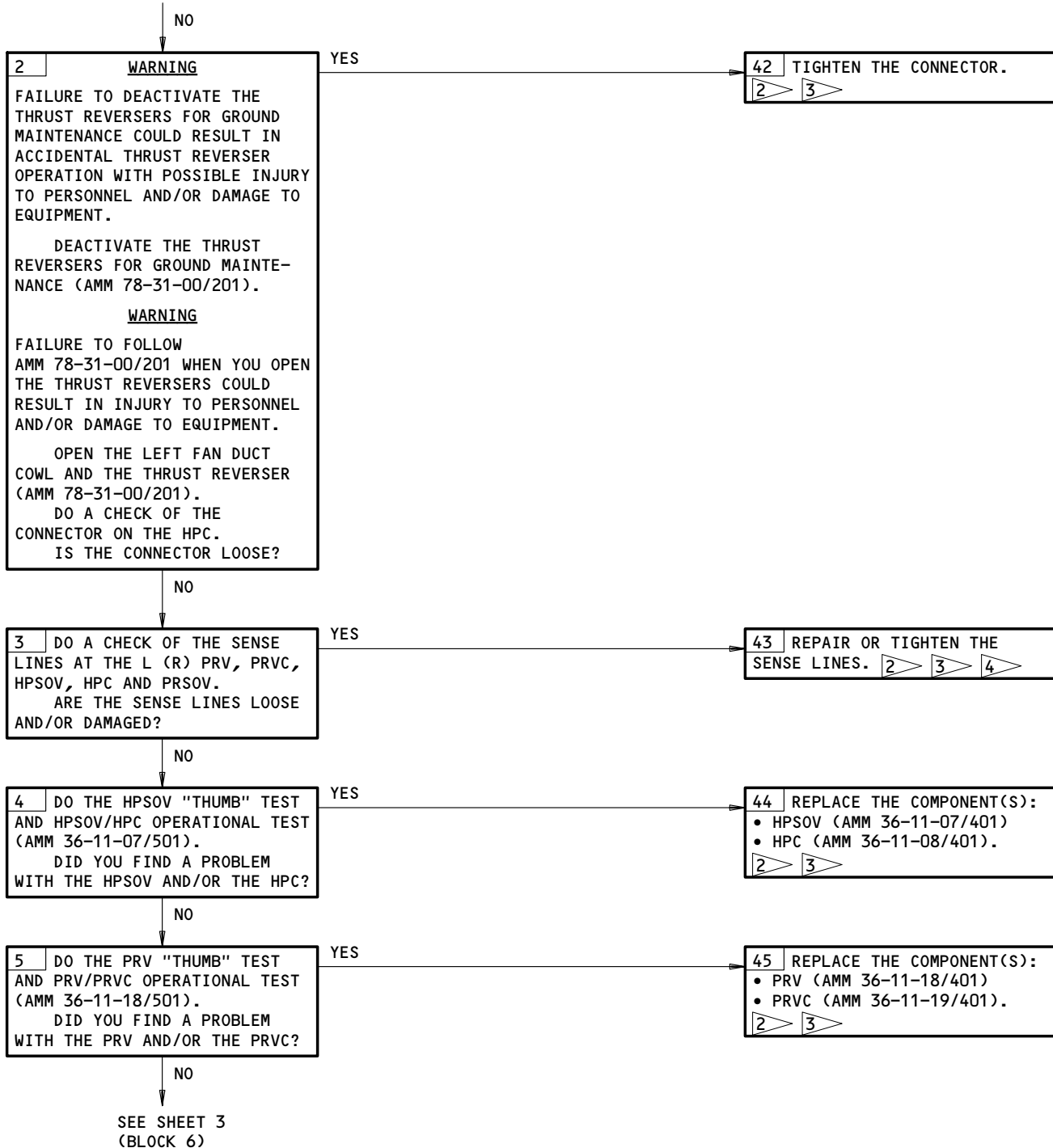
ALL

36-10-00

01B

Page 119
May 10/95

FROM SHEET 1
(BLOCK 1)



4 PUT ANTISEIZE COMPOUND ON THE THREADS OF THE UNION.

L (R) Eng Duct Pressure Low at Low Thrust (Ground Operation or Descent).
Pressure Normal at Cruise Thrust and Above
Figure 107 (Sheet 2)

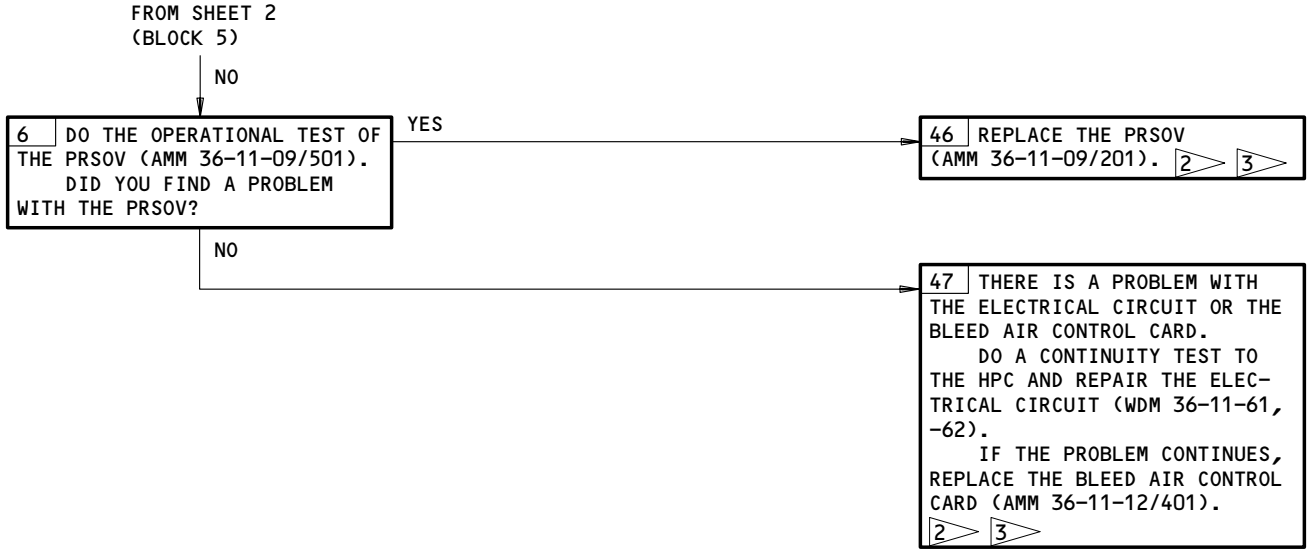
EFFECTIVITY

ALL

36-10-00

01B

Page 120
May 10/95



L (R) Eng Duct Pressure Low at Low Thrust (Ground Operation or Descent).
 Pressure Normal at Cruise Thrust and Above
 Figure 107 (Sheet 3)

EFFECTIVITY	ALL
-------------	-----

36-10-00

**L (R) ENG DUCT
PRESSURE LOW AT
CRUISE THRUST OR
TAKEOFF**



PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10,11S11,36L7; 3 11N14,11N23

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

CONSUMABLE MATERIALS:
ANTISEIZE COMPOUND, HIGH TEMPERATURE - BOSTIK,
NEVER-SEEZ

POSSIBLE CAUSES:

1. LOOSE B-NUT CONNECTIONS FOR THE PRESSURE SENSE LINES AT THE PRV, PRVC, OR PRSOV
2. BAD PRVC (THE PRVC IS NOT REGULATING CORRECTLY)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
3. BAD PRV (THE PRV WILL NOT FULLY OPEN)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
4. BAD PRSOV (PRSOV NOT REGULATING CORRECTLY)(PRSOV ADJUSTMENT/TEST, AMM 36-11-09/501)
5. PRSOV TEMPERATURE TOPPING (BAD FATS OR FAMV)(FAMV/FATS ADJUSTMENT/TEST, AMM 36-11-16/501)
6. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



1 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS, GO TO BLOCK 2. IF THE BITE MODULE PART NUMBER IS S210T120-67 (H/S 804401-2) OR ABOVE, DO THE BITE PROCEDURE.

2 **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

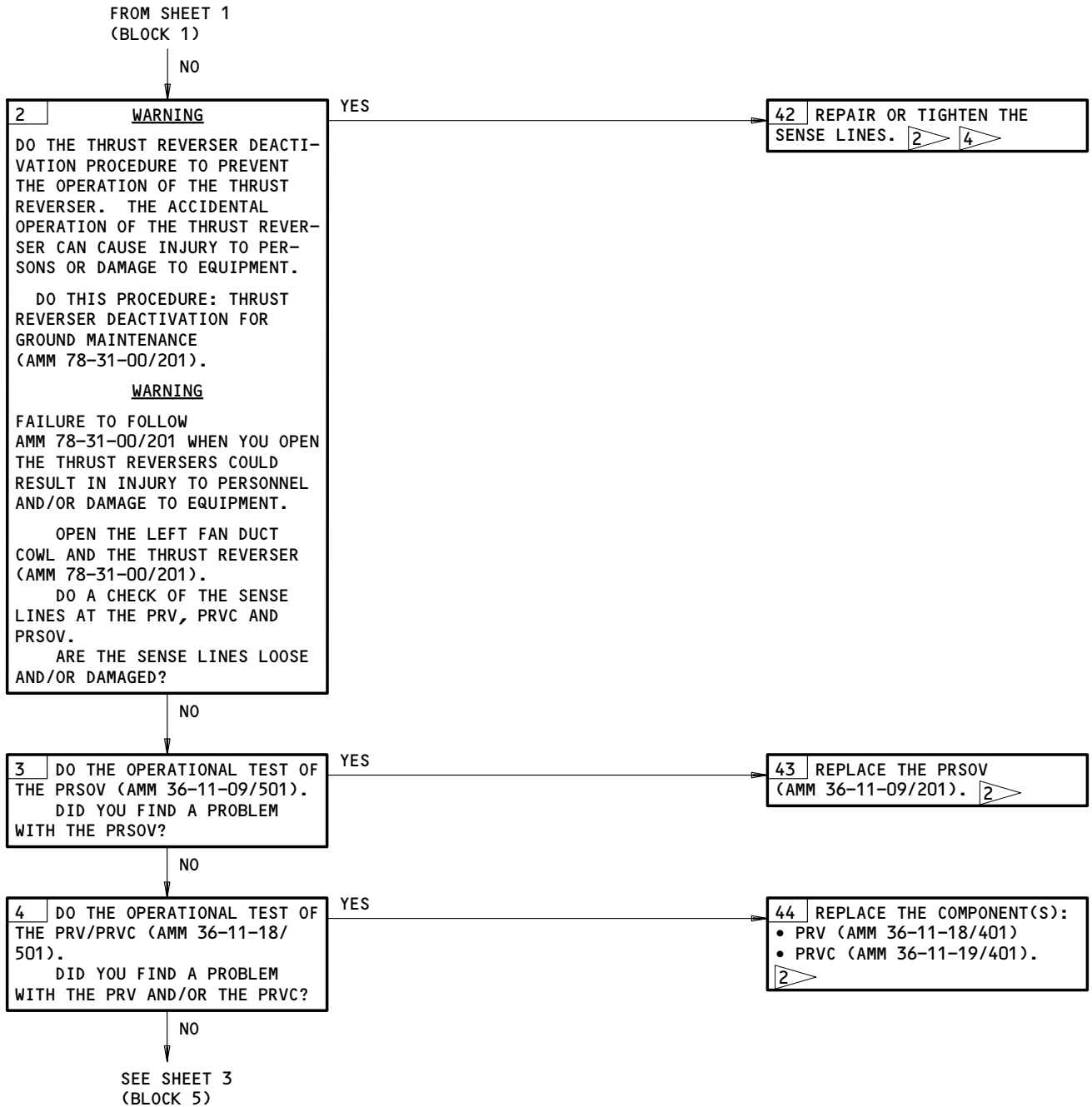
ACTIVATE THE THRUST REVERSERS (AMM 78-31-00/201).

3 NOT INSTALLED ON ALL AIRPLANES

L (R) Eng Duct Pressure Low at Cruise Thrust or Takeoff
Figure 108 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

36-10-00



4 ▶ PUT ANTISEIZE COMPOUND ON THE THREADS OF THE UNION.

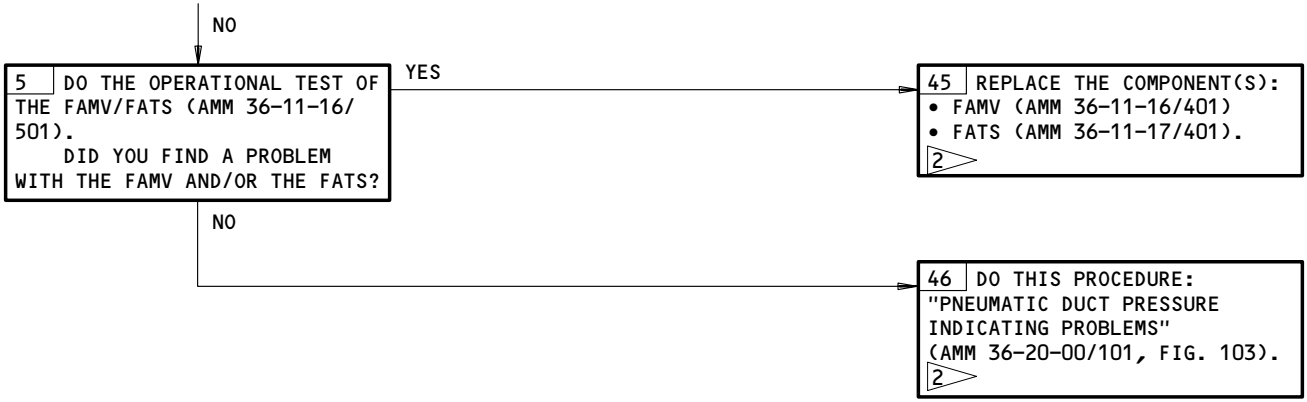
L (R) Eng Duct Pressure Low at Cruise Thrust or Takeoff
Figure 108 (Sheet 2)

EFFECTIVITY ————
ALL

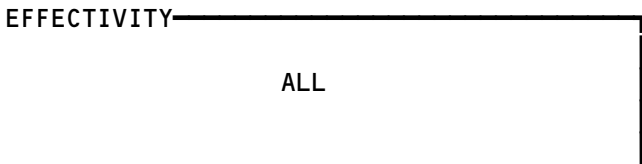
36-10-00


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2
(BLOCK 4)



L (R) Eng Duct Pressure Low at Cruise Thrust or Takeoff
Figure 108 (Sheet 3)



36-10-00

PREREQUISITES

NONE

NOTE: THIS CONDITION COULD OCCUR IF THERE IS NO DOWNSTREAM PNEUMATIC DEMAND, CAUSING THE PRSOV TO REGULATE CLOSED.

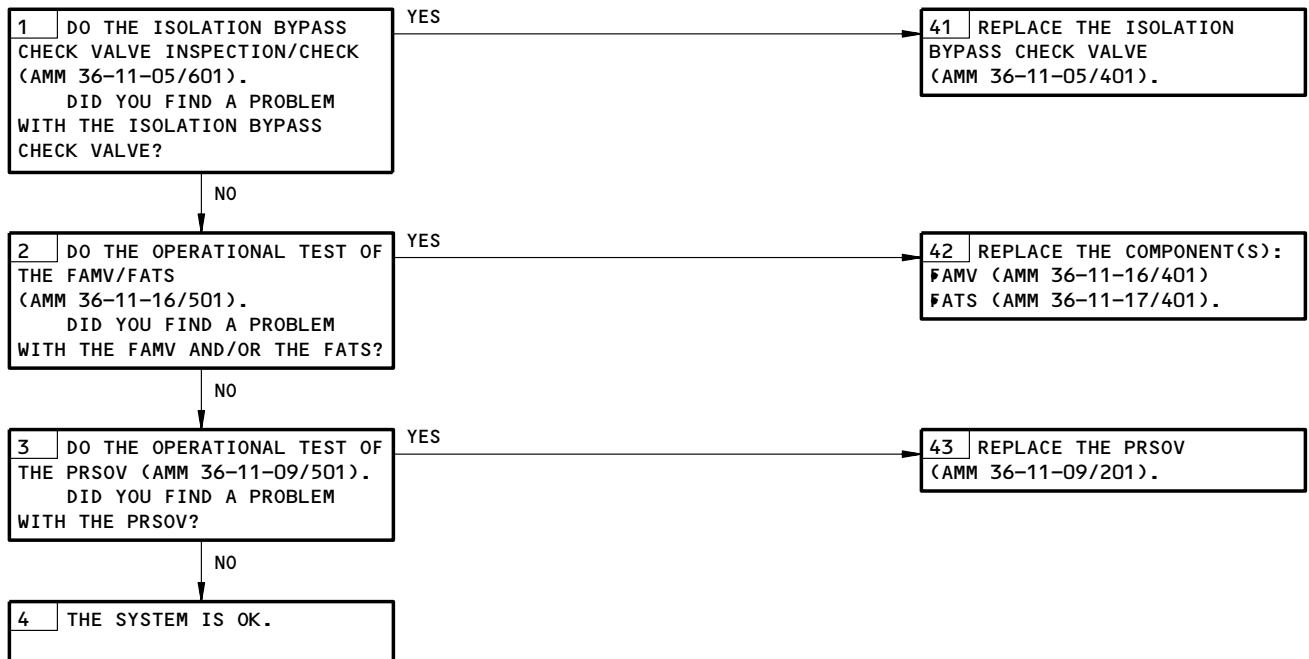
FLUCTUATING DUCT PRESSURE



POSSIBLE CAUSES:

1. ISOLATION BYPASS CHECK VALVE FAILED OPEN.
2. PRSOV REGULATES CLOSED. NO DOWNSTREAM BLEED DEMAND.
3. BAD PRSOV (PRSOV NOT REGULATING CORRECTLY)(PRSOV ADJUSTMENT/TEST, AMM 36-11-09/501).
4. PRSOV TEMPERATURE TOPPING (BAD FATS OR FAMV)(FAMV/FATS ADJUSTMENT/TEST, AMM 36-11-16/501).
5. CLOGGED OR DIRTY AIR FILTER.

FAULT ISOLATION:



Fluctuating Duct Pressure
Figure 109

EFFECTIVITY

ALL

36-10-00

01B

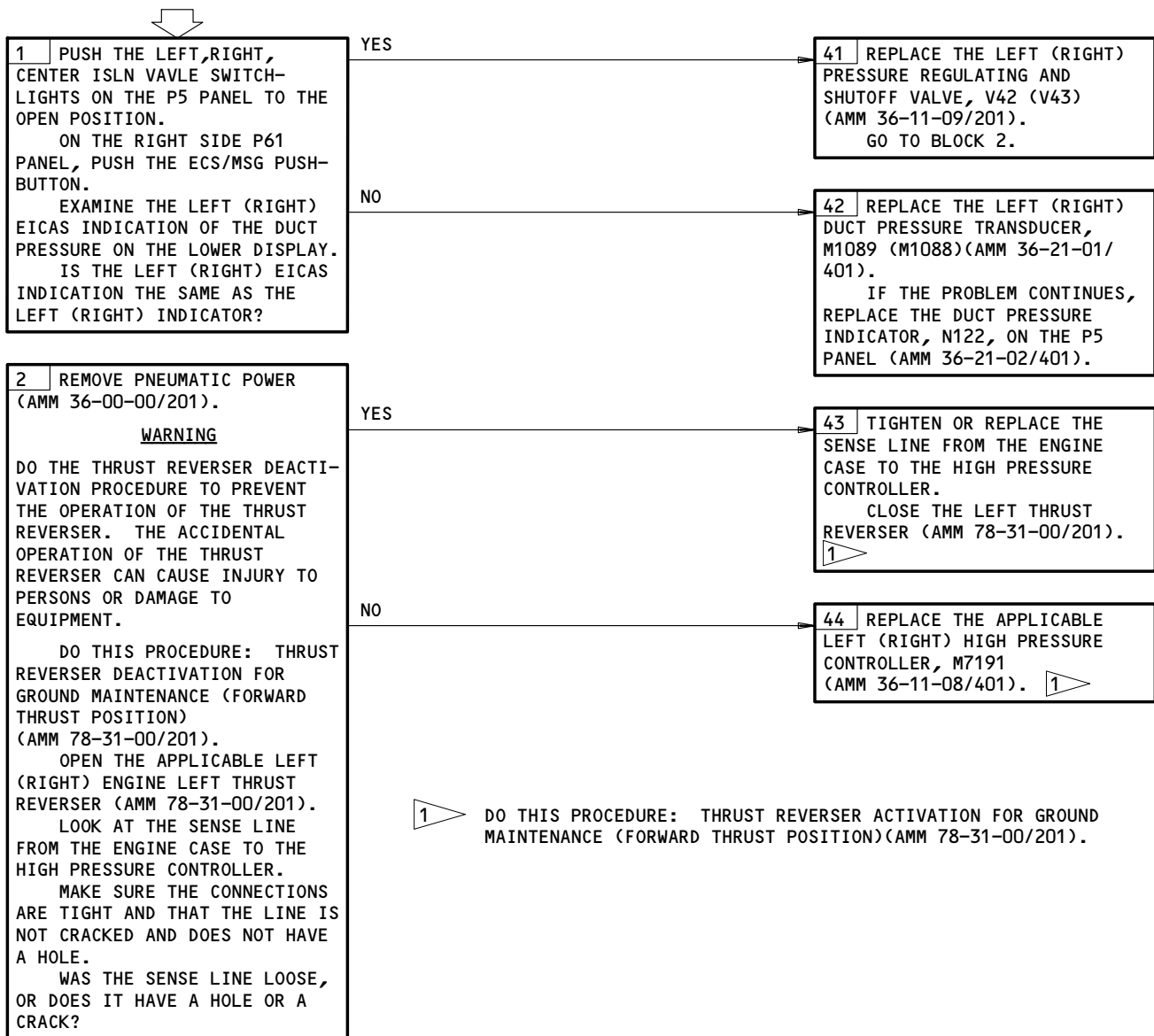
Page 125
Dec 22/05

E91976

**ENG DUCT PRESSURE
WAS HIGH AT CRZ
THRUST AND ABOVE.
PRESSURE NORMAL
AT LOW THRUST**

PREREQUISITES
 MAKE SURE THESE SYSTEMS WILL OPERATE:
 EICAS (AMM 31-41-00/201)
 PNEUMATIC POWER (AMM 36-00-00/201)
 MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
 11S10,11S11,11S16,11S17,11S25,36L7
 MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
 ELECTRICAL POWER IS ON (AMM 22-24-00/201)

NOTE: THIS IS A MULTIPLE FAULT PROCEDURE.



Eng Duct Pressure Was High At Crz Thrust and Above.
 Pressure Normal At Low Thrust
 Figure 110

EFFECTIVITY

ALL

36-10-00

01B

Page 126
 May 10/95

E91979

EICAS MESSAGE
"L (R) ENG HPSOV"
DISPLAYED. LEFT
(RIGHT) ENGINE
"BLEED" LIGHT
ILLUMINATED



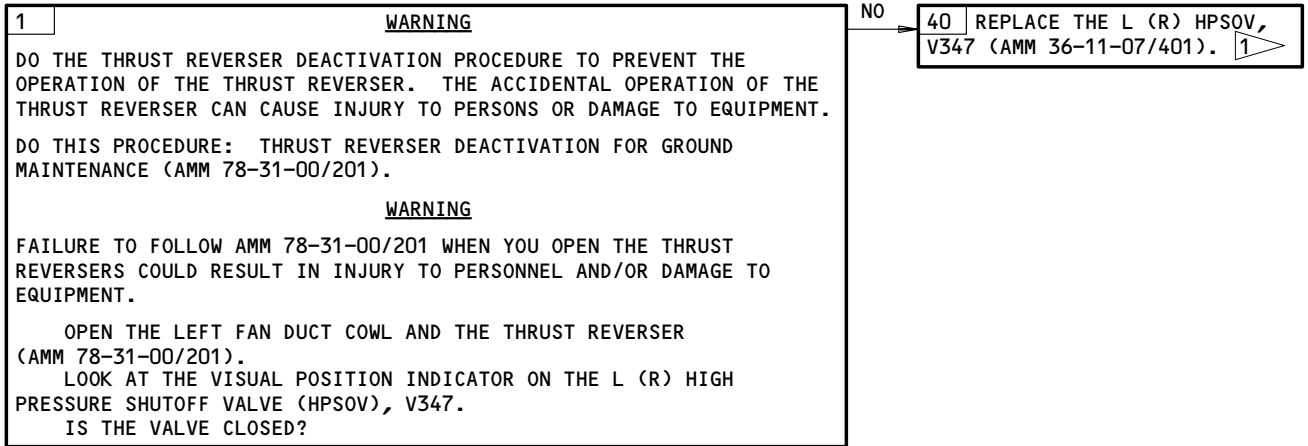
DESCRIPTION:

THE HPSOV IS NOT CLOSED WHEN IT HAS BEEN COMMANDED CLOSED.

POSSIBLE CAUSES:

1. BAD HPSOV (HPSOV POSITION SWITCH CALIBRATION, THE HPSOV IS STUCK OPEN)(HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
2. BAD HPC (THE PHH SWITCH IS OPEN)(HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
3. OPEN WIRE TO THE HPSOV POSITION SWITCH OR TO THE HPC PHH SWITCH
4. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



↓ YES
SEE SHEET 2
(BLOCK 2)

- ▶ **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.
- CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).
- DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).

EICAS Message L (R) ENG HPSOV Displayed. L (R) BLEED Light Illuminated
Figure 111 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

36-10-00

FROM SHEET 1
(BLOCK 1)

YES

2 THERE MAY BE PROBLEMS IN THE WIRING BETWEEN THE HPSOV (V347) POSITION SWITCH OR HPC PHH SWITCH AND THE SIGNAL GROUND. THE WIRING IN THE ENGINE AND STRUT IS EXPOSED TO AN EXTREME ENVIRONMENT OF HIGH TEMPERATURE AND VIBRATION.

DO A WIRING CHECK BETWEEN THE STRUT CONNECTOR (D4208P) PIN 9 AND THE HPSOV (V347) PIN 2
(WDM 36-11-61, WDM 36-11-62).

NOTE

WHEN YOU DO A CHECK OF THE WIRES, USE AN ANALOG TYPE MULTIMETER. THIS WILL PROVIDE A MORE OBVIOUS INDICATION THAN A DIGITAL METER. GO TO THE CONNECTORS ON THE HPSOV AND SPLICE AND WIGGLE THE WIRES WHILE YOU LOOK AT THE METER SINCE THE PROBLEMS MAY ONLY MAKE THEMSELVES OBVIOUS WHEN SUBJECTED TO THERMAL AND VIBRATION CONDITIONS.

ARE THERE ANY PROBLEMS?

YES

41 REPAIR OR REPLACE THE CONNECTOR OR WIRING
(WDM 36-11-61, WDM 36-11-62).

NO

3 DO A WIRING CHECK BETWEEN THE L (R) STRUT CONNECTOR D4208P PIN 9 AND CONNECTOR D10984 PIN 6 AT THE HPC (M7191)
(WDM 36-11-61, WDM 36-11-62).

ARE THERE ANY PROBLEMS?

YES

42 REPAIR OR REPLACE THE CONNECTOR OR WIRING
(WDM 36-11-61, WDM 36-11-62).

NO

4 DO A WIRING CHECK AT THE WIRING FROM THE L (R) STRUT CONNECTOR D4208J (D4258J) PIN 9 TO GROUND GDX3-DC AT THE E3-1 SHELF
(WDM 36-11-61, WDM 36-11-62, WDM 36-23-11, WDM 36-23-21).

ARE THERE ANY PROBLEMS?

YES

43 REPAIR OR REPLACE THE CONNECTOR OR WIRING
(WDM 36-11-61, WDM 36-11-62, WDM 36-23-11, WDM 36-23-21).

NO

SEE SHEET 3
(BLOCK 5)

EICAS Message L (R) ENG HPSOV Displayed. L (R) BLEED Light Illuminated
Figure 111 (Sheet 2)

EFFECTIVITY

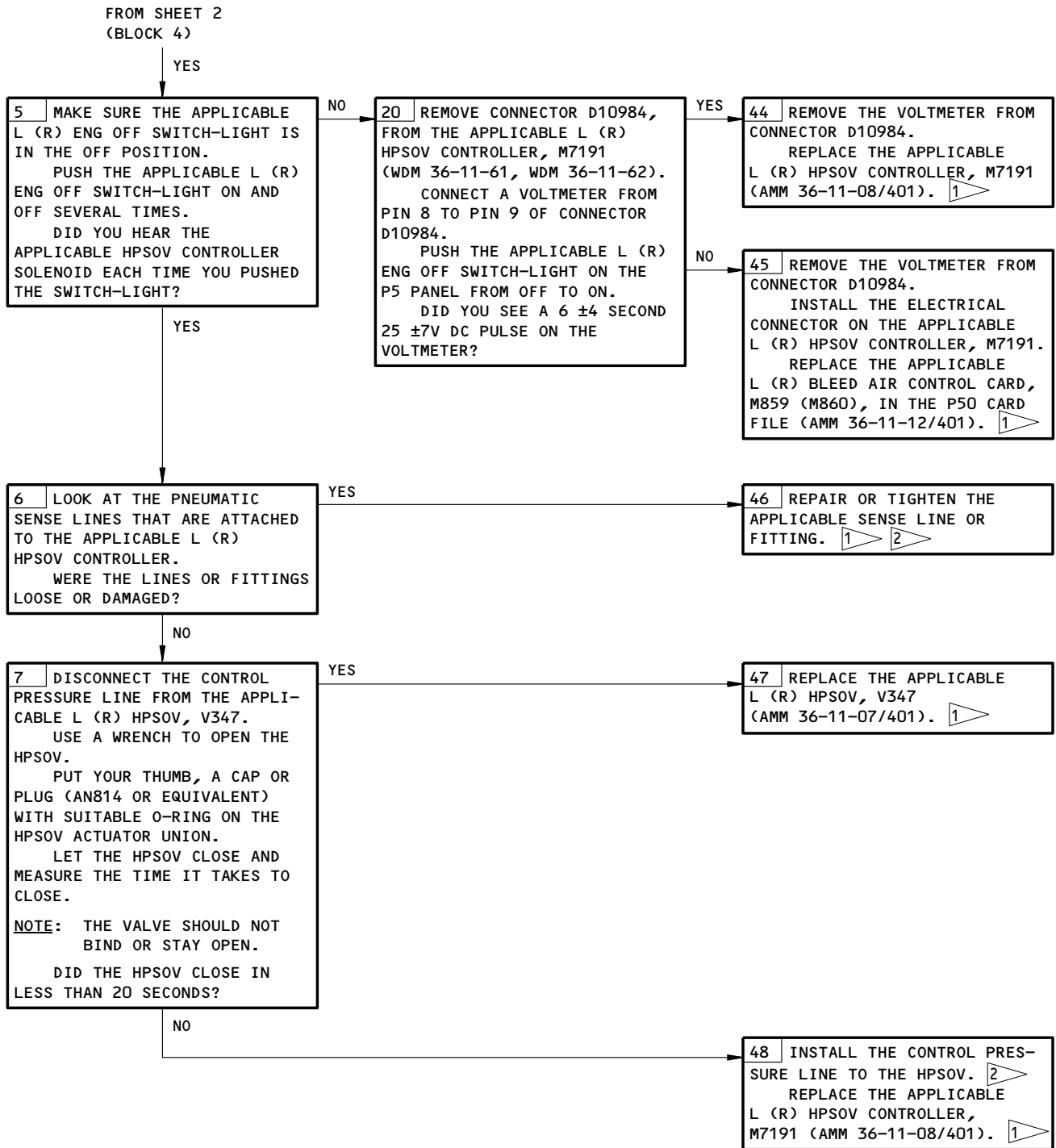
ALL

36-10-00

01B

Page 128
Aug 22/08

 **BOEING**
767
FAULT ISOLATION/MAINT MANUAL



2 PUT THE ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

EICAS Message L (R) ENG HPSOV Displayed. L (R) BLEED Light Illuminated
Figure 111 (Sheet 3)

EFFECTIVITY

ALL

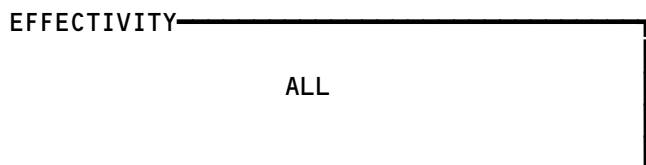
36-10-00

01B

Page 129
Aug 22/08

E92002

Not Used
Figure 112



36-10-00

01B Page 130
May 10/96

E92012

EICAS MESSAGE
"L (R) ENG BLD OVHT"
DISPLAYED. LEFT
(RIGHT) OVHT LIGHT
ILLUMINATED



PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10,11S11,36L7

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

CONSUMABLE MATERIALS:
ANTISEIZE COMPOUND, HIGH TEMPERATURE - BOSTIK,
NEVER-SEEZ

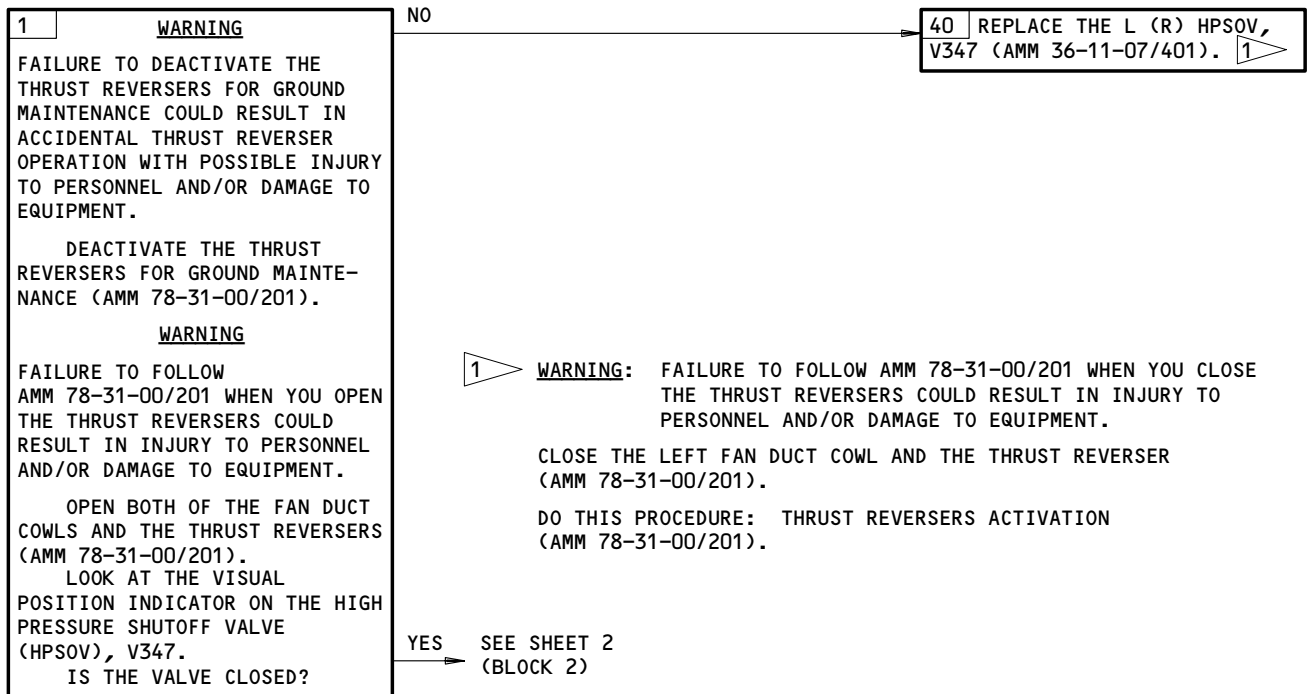
DESCRIPTION:

AN OVERHEAT CONDITION (>490°F) HAS OCCURRED AND THE PRV IS CLOSED.

POSSIBLE CAUSES:

1. BAD FATS OR FAMV (FAMV/FATS ADJUSTMENT/TEST, AMM 36-11-16/501)
2. HPC SWITCHOVER OCCURS HIGH, JUST BELOW 127 PSI "BLEED" LIGHT INDICATION (HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
3. BAD OVERTEMPERATURE SWITCH
4. STUCK OPEN CAI VALVE (ALLOWS HIGHER BLEED FLOW)
5. STUCK OPEN PRSOV (ALLOWS HIGHER BLEED FLOW)(PRSOV ADJUSTMENT/TEST, AMM 36-11-09/501)
6. OPEN WIRE TO THE OVERTEMPERATURE SWITCH
7. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



EICAS Message L (R) ENG BLD OVHT Displayed. Left (Right) OVHT Light Illuminated
Figure 113 (Sheet 1)

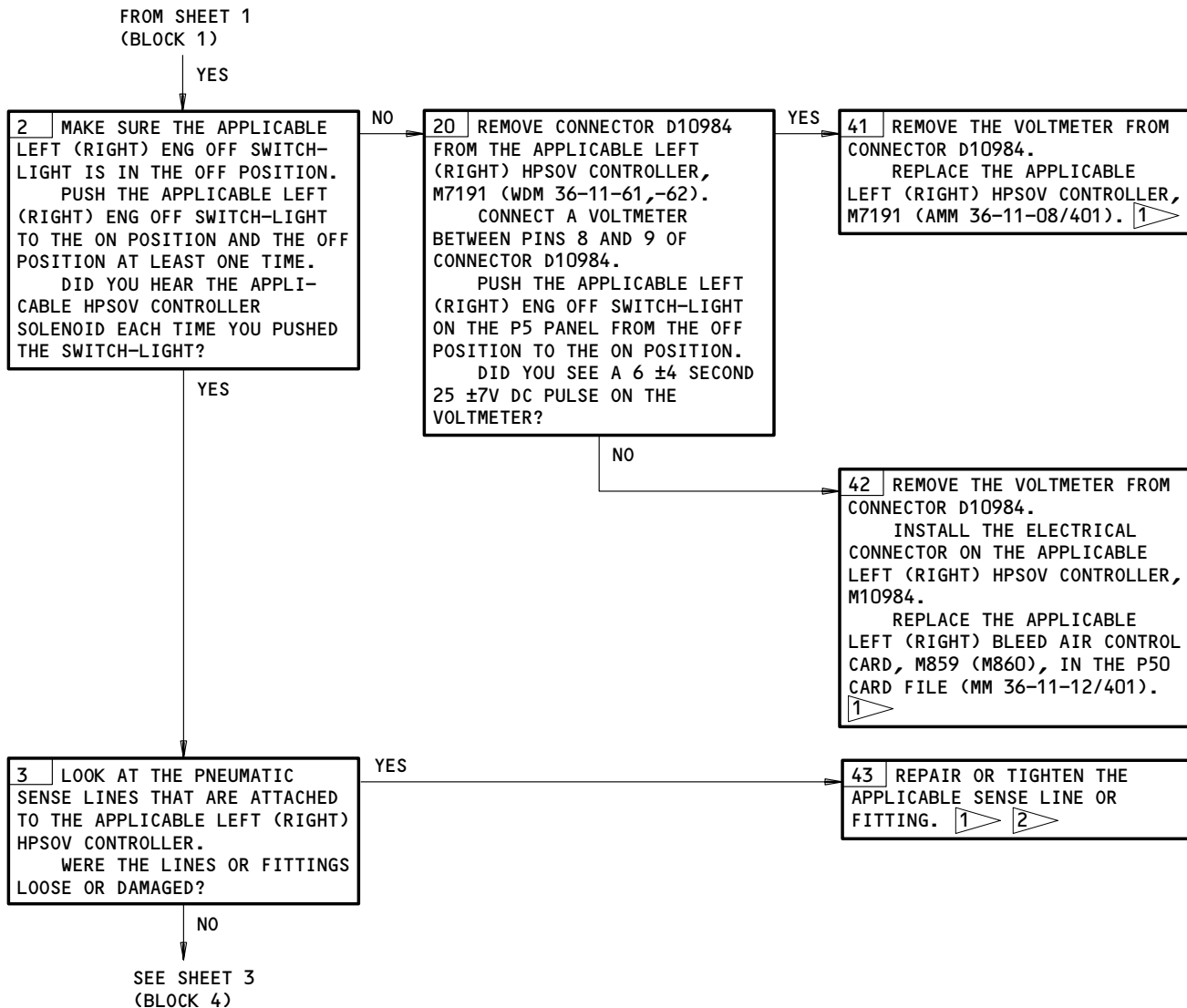
EFFECTIVITY

ALL

36-10-00

01B

Page 131
May 10/96

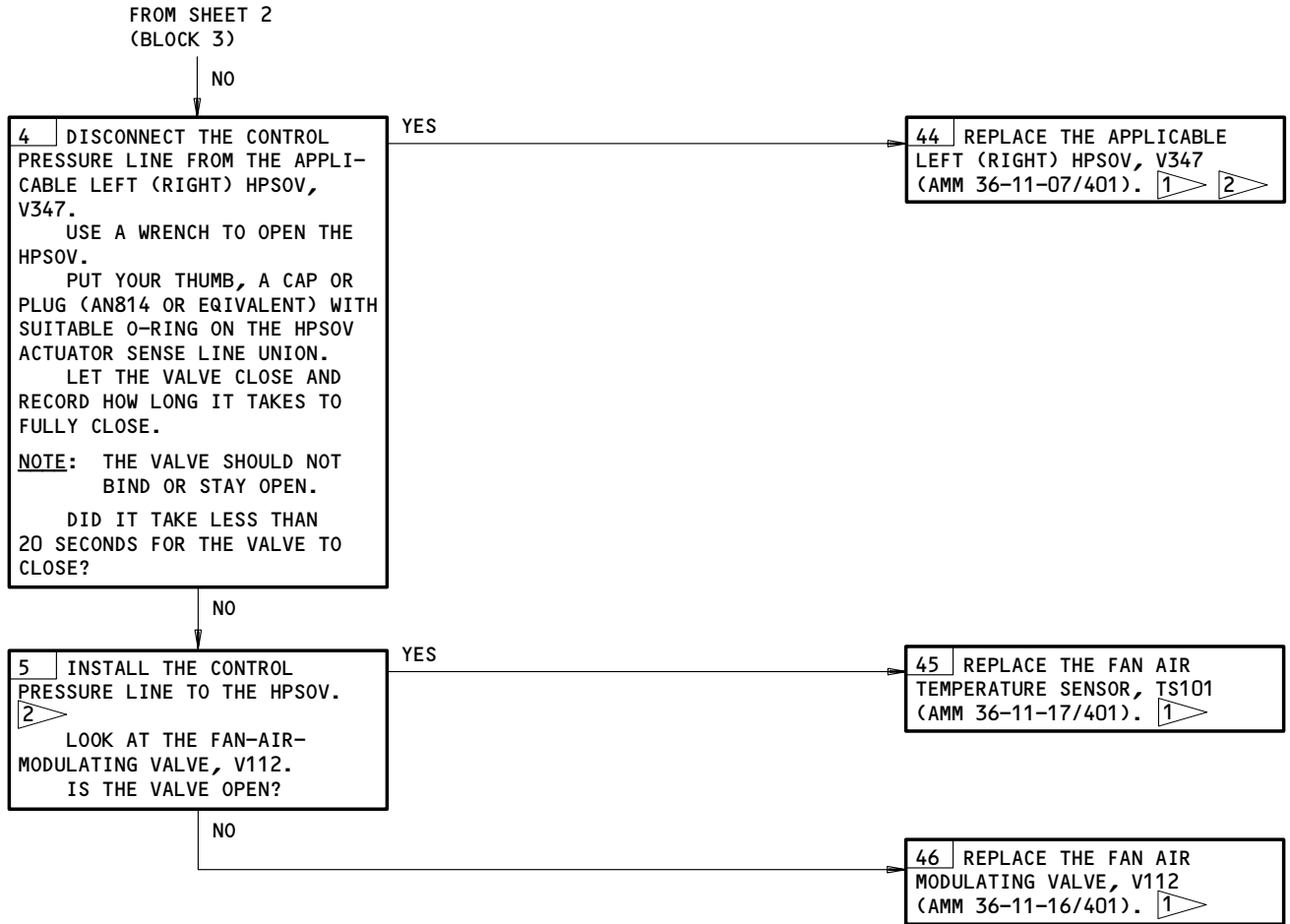


2 PUT ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

EICAS Message L (R) ENG BLD OVHT Displayed. Left (Right) OVHT Light Illuminated
Figure 113 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00



EICAS Message L (R) ENG BLD OVHT Displayed. Left (Right) OVHT Light Illuminated
Figure 113 (Sheet 3)

EFFECTIVITY

ALL

36-10-00

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10, 11S11, 36K7 OR 36L7

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

LEFT (RIGHT) ENGINE
BLEED AIR VALVE "OFF"
LIGHT ILLUMINATED
WITH SWITCH "ON".
DUCT PRESSURE NORMAL



NOTE: THE "ENG BLEED OFF" EICAS MESSAGE CAN APPEAR AND THE RELATED BLEED "OFF" LIGHT CAN COME ON DURING ENGINE OPERATION WITH THE PACKS OFF AND LITTLE OR NO DEMAND ON THE PNEUMATIC SYSTEM. THESE CONDITIONS ARE NORMAL.

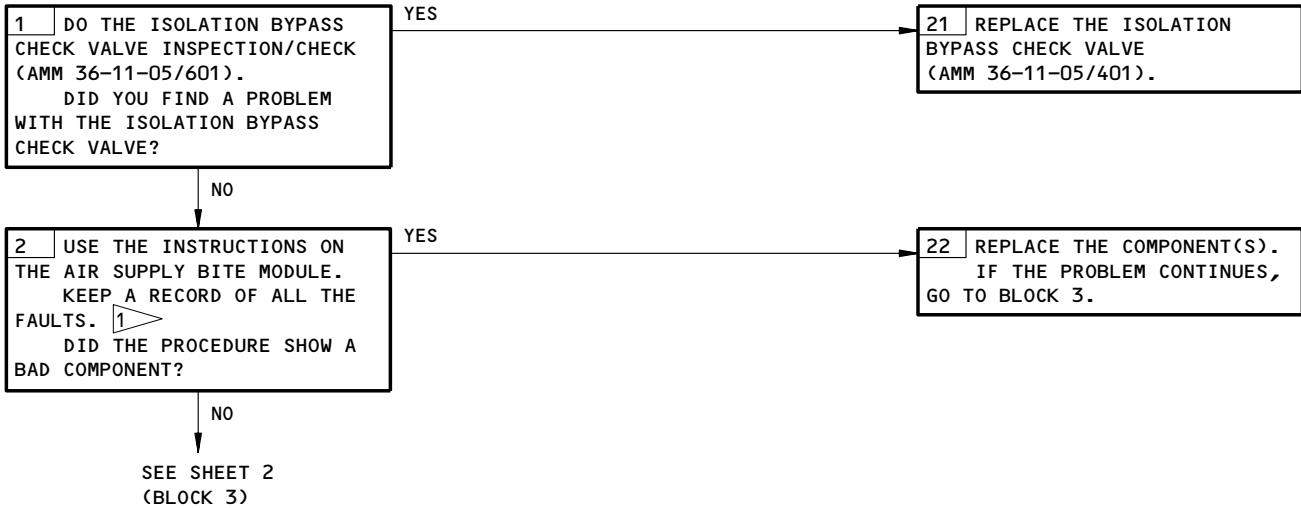
DESCRIPTION:

THE PRSOV IS CLOSED (OR ALMOST CLOSED) WITH THE ENGINE RUNNING.

POSSIBLE CAUSES:

1. ISOLATION BYPASS CHECK VALVE FAILED OPEN.
2. PRSOV (AMM 36-11-09/501).
3. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.
4. L (R) ENG "OFF" SWITCH-LIGHT.

FAULT ISOLATION:



1 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS, DO THE PROCEDURE IN BLOCK 3. IF THE BITE MODULE PART NUMBER IS S210T120-67 (H/S 804401-2) OR ABOVE, DO THE BITE PROCEDURE.

Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON.
Duct Pressure Normal
Figure 114 (Sheet 1)

EFFECTIVITY

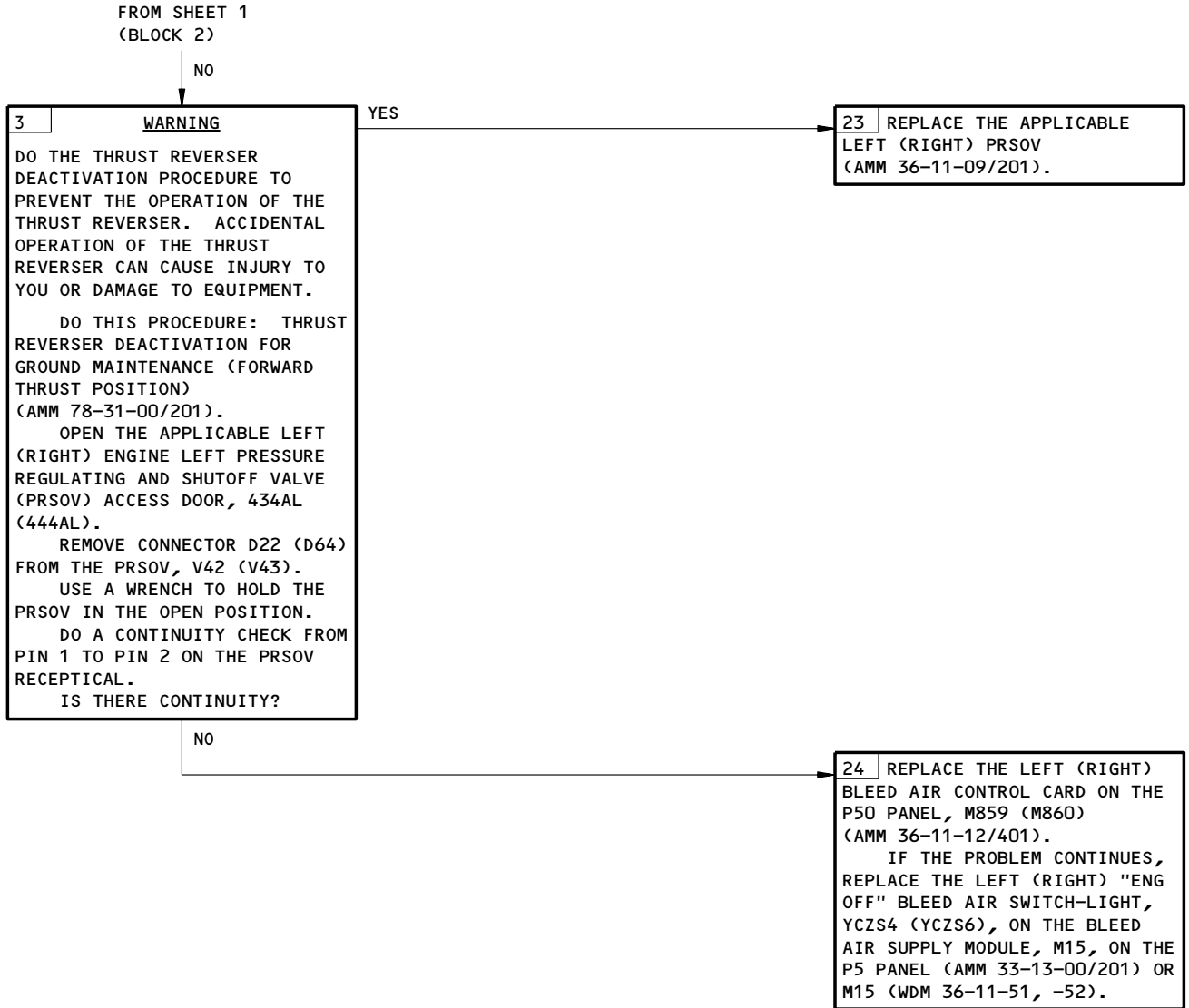
ALL

36-10-00

01B

Page 134
Dec 22/05

E92119



Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON.
 Duct Pressure Normal
 Figure 114 (Sheet 2)

EFFECTIVITY

ALL

36-10-00

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10,11S11,36L7; 1 11N14,11N23

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

EQUIPMENT:
AIR SOURCE - LOW PRESSURE, 0-15 PSIG, COMMERCIALY AVAILABLE

CONSUMABLE MATERIALS:
ANTISEIZE COMPOUND, HIGH TEMPERATURE - BOSTIK,
NEVER-SEEZ

LEFT (RIGHT) ENG
BLEED AIR VALVE "OFF"
LIGHT ILLUMINATED
WITH SWITCH "ON".
DUCT PRESS ZERO.



NOTE: THE "ENG BLEED OFF" EICAS MESSAGE CAN APPEAR AND THE RELATED BLEED "OFF" LIGHT CAN COME ON DURING ENGINE OPERATION WITH THE PACKS OFF AND LITTLE OR NO DEMAND ON THE PNEUMATIC SYSTEM. THESE CONDITIONS ARE NORMAL.

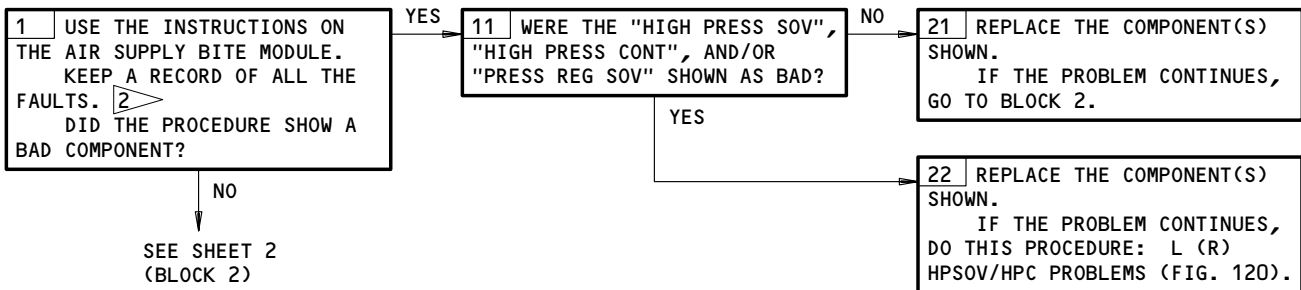
DESCRIPTION:

THE PRSOV IS CLOSED WITH THE ENGINE RUNNING.

POSSIBLE CAUSES:

1. LOOSE CONNECTOR AT THE PRVC OR PRSOV SOLENOID
2. PRSOV REGULATES CLOSED. NO DOWNSTREAM BLEED DEMAND
3. BAD PRVC (BAD SOLENOID)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
4. BAD PRV (THE PRV WILL NOT OPEN)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
5. BAD PRSOV (THE PRSOV WILL NOT OPEN)(PRSOV ADJUSTMENT/TEST, AMM 36-11-09/501)
6. PRSOV TEMPERATURE TOPPING (BAD FATS OR FAMV)(FAMV/FATS ADJUSTMENT/TEST, AMM 36-11-16/501)
7. OPEN WIRE TO THE PRVC OR PRSOV SOLENOIDS
8. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:

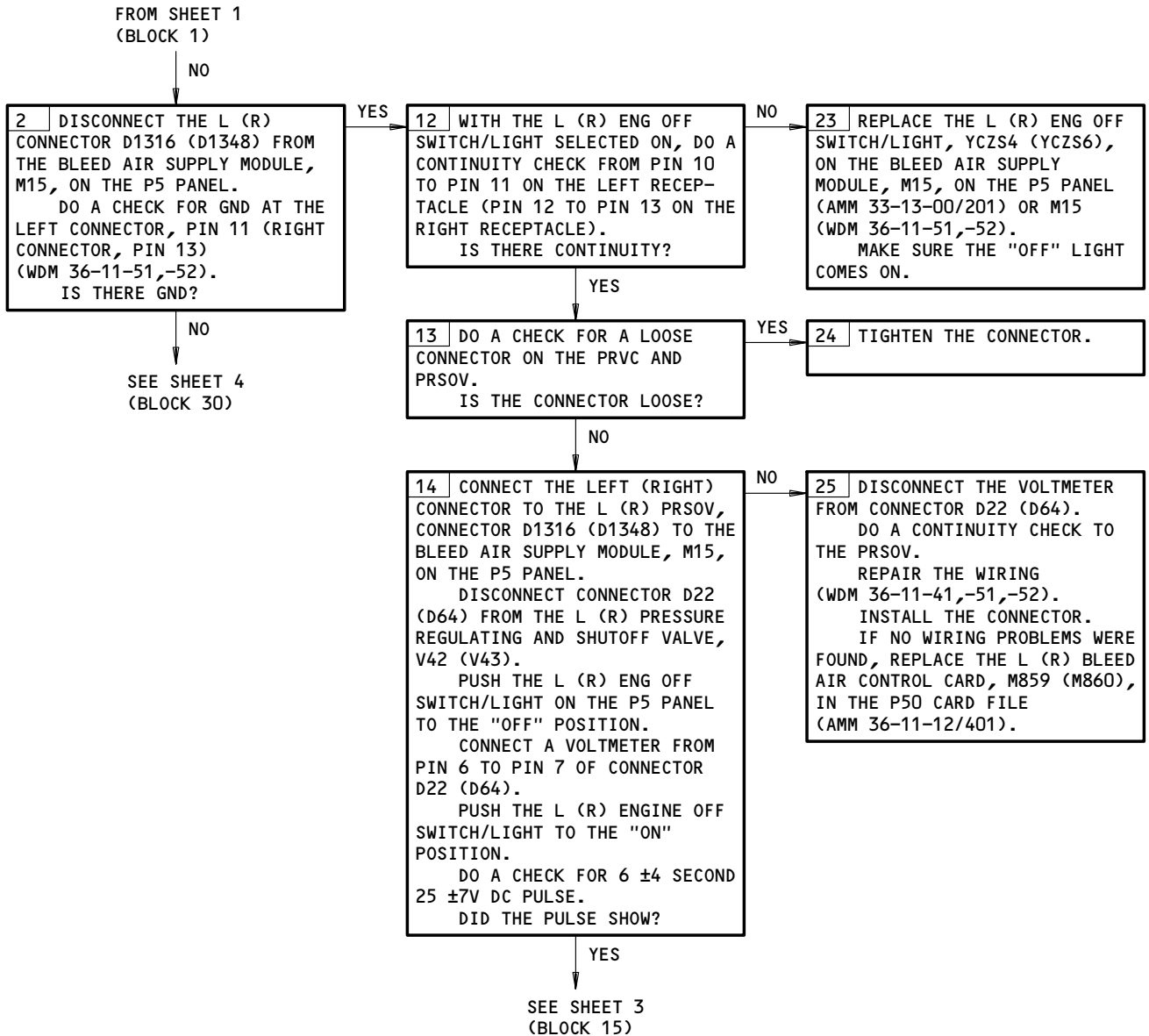


- 1 NOT INSTALLED ON ALL AIRPLANES
- 2 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS, GO TO BLOCK 2. IF THE BITE MODULE PART NUMBER IS S210T120-67 (H/S 804401-2) OR ABOVE, DO THE BITE PROCEDURE.

Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON.
Duct Pressure Zero.
Figure 115 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

36-10-00



3 **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

CLOSE THE FAN DUCT COWL AND THRUST REVERSERS (AMM 78-31-00/201).

DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).

Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON.
Duct Pressure Zero.
Figure 115 (Sheet 2)

EFFECTIVITY

ALL

36-10-00

01B

Page 137
May 10/96

BOEING
767
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2
(BLOCK 14)

↓ YES

15	<p>CONNECT CONNECTOR TO THE L (R) PRSOV.</p> <p style="text-align: center;"><u>WARNING</u></p> <p>DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.</p> <p>DO THIS PROCEDURE: THRUST REVERSER DEACTIVATION FOR GROUND MAINTENANCE (AMM 78-31-00/201).</p> <p style="text-align: center;"><u>WARNING</u></p> <p>FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU OPEN THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.</p> <p>OPEN THE FAN DUCT COWL AND THE THRUST REVERSERS (AMM 78-31-00/201).</p> <p>DISCONNECT CONNECTOR D11116 FROM THE L (R) PRESSURE REGULATING VALVE CONTROLLER, M7200.</p> <p>PUSH THE L (R) ENG OFF SWITCH-LIGHT ON THE P5 PANEL TO THE "OFF" POSITION.</p> <p>CONNECT THE VOLTMETER FROM PIN 2 TO PIN 3 OF THE CONNECTOR.</p> <p>PUSH THE L (R) ENGINE OFF SWITCH-LIGHT TO THE "ON" POSITION.</p> <p>DO A CHECK FOR A 6 ±4 SECOND, 25 ±7V DC PULSE.</p> <p>DID YOU SEE A 6 ±4 SECOND 25 ±7V DC PULSE ON THE VOLTMETER?</p>
-----------	---

NO →

26	<p>DISCONNECT THE VOLTMETER FROM THE CONNECTOR.</p> <p>DO A CONTINUITY CHECK TO THE L (R) PRVC.</p> <p>REPAIR THE WIRING (WDM 36-11-61,-62).</p> <p>INSTALL THE CONNECTOR.</p> <p>IF NO WIRING PROBLEMS WERE FOUND, REPLACE THE LEFT (RIGHT) BLEED AIR CONTROL CARD, M859 (M860), IN THE P50 CARD FILE (AMM 36-11-12/401).</p> <p style="text-align: right;">3 ▶</p>
-----------	---

↓ YES

SEE SHEET 4
(BLOCK 16)

Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON.
Duct Pressure Zero.
Figure 115 (Sheet 3)

EFFECTIVITY	ALL
-------------	-----

36-10-00


BOEING
767
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2
(BLOCK 2)



FROM SHEET 3
(BLOCK 15)

NO


YES

16 DISCONNECT THE VOLTMETER FROM THE CONNECTOR.
CONNECT THE CONNECTOR TO THE L (R) PRVC.
DISCONNECT THE L (R) PRVC UPSTREAM PRESSURE SENSE LINE FROM THE DUCT.
CONNECT THE AIR SOURCE TO THE UPSTREAM SENSE LINE. 
APPLY 15 PSIG AIR PRESSURE.
DID THE PRESSURE REGULATING VALVE, V352, OPEN?


YES

27 DISCONNECT THE AIR SOURCE FROM THE UPSTREAM PRESSURE SENSE LINE.
CONNECT THE UPSTREAM PRESSURE SENSE LINE TO THE L (R) PRV CONTROLLER, M7200. 
DO THE APPLICABLE STEPS (STEPS THAT WERE NOT DONE ALREADY) IN THE PRSOV OPERATIONAL TEST (AMM 36-11-09/501). 



NO

17 PUSH THE L (R) ENG OFF SWITCH/LIGHT TO THE "OFF" POSITION.
DISCONNECT THE AIR SOURCE FROM THE UPSTREAM PRESSURE SENSE LINE.
CONNECT THE SENSE LINE TO THE DUCT. 
DISCONNECT THE CONTROL PRESSURE LINE FROM THE L (R) PRV, V352.
USE A WRENCH TO OPEN THE PRV.
PUT YOUR THUMB, A CAP OR PLUG (AN814 OR EQUIVALENT) WITH SUITABLE O-RING OVER THE PRV ACTUATOR UNION.
LET THE PRV CLOSE AND TIME HOW LONG IT TAKES.
NOTE: THE VALVE SHOULD NOT BIND OR STAY OPEN.
DID THE PRV CLOSE IN LESS THAN 20 SECONDS?


YES

28 REPLACE THE L (R) PRESSURE REGULATING VALVE, V352 (AMM 36-11-18/401). 
IF THE PROBLEM CONTINUES, DO THE FAMV/FATS OPERATIONAL TEST (AMM 36-11-16/501).

NO

29 CONNECT THE SENSE LINE TO THE PRV, V352. 
REPLACE THE L (R) PRV CONTROLLER, M7200 (AMM 36-11-19/401). 
IF THE PROBLEM CONTINUES, DO THE FAMV/FATS OPERATIONAL TEST (AMM 36-11-16/501).

30 INSTALL CONNECTOR D1316 (D1348) TO THE BLEED AIR SUPPLY MODULE, M15, ON THE P5 PANEL.
REPLACE THE LEFT (RIGHT) ENG FIRE SWITCH, S37 (S38), ON THE P8 PANEL (AMM 26-21-02/201).

 PUT ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

Left (Right) Engine Bleed Air Valve OFF Light Illuminated with Switch ON.
Duct Pressure Zero.
Figure 115 (Sheet 4)

EFFECTIVITY

ALL

36-10-00

01B

Page 139
Apr 22/03

E92128

L (R) ENG BLEED
AIR VLV "OFF" LGT
ILLUM WITH SW ON,
ENG AT LOW POWER.
"OFF" LGT EXTIN-
GUISHED ABOVE
41 PERCENT N1



DESCRIPTION:

THE PRSOV IS CLOSED WITH THE ENGINE RUNNING.


POSSIBLE CAUSES:

1. LOOSE CONNECTOR AT THE PRVC, HPC, OR PRSOV SOLENOID
2. LOOSE B-NUT CONNECTIONS FOR THE PRESSURE SENSE LINES AT THE PRV, PRVC, HPSOV, HPC, OR PRSOV
3. PRSOV REGULATES CLOSED. NO DOWNSTREAM BLEED DEMAND
4. BAD PRVC (BAD SOLENOID)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
5. BAD HPC (BAD SOLENOID)(HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
6. BAD PRV (THE PRV WILL NOT OPEN)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
7. BAD HPSOV (THE HPSOV WILL NOT OPEN)(HPSOV/HPC ADJUSTMENT/TEST, AMM 36-11-07/501)
8. BAD PRSOV (THE PRSOV WILL NOT OPEN)(PRSOV ADJUSTMENT/TEST, AMM 36-11-09/501)
9. OPEN WIRE TO THE PRVC, HPC, OR PRSOV SOLENOIDS
10. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

11S10,11S11,11S19,11S20,36L7;  11N14,11N23

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

ELECTRICAL POWER IS ON (AMM 24-22-00/201)

PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

EQUIPMENT:

AIR SOURCE - LOW PRESSURE, 0-15 PSIG, COMMERCIALY
AVAILABLE

CONSUMABLE MATERIALS:

ANTISEIZE COMPOUND, HIGH TEMPERATURE - BOSTIK,
NEVER-SEEZ

NOTE: THE "ENG BLEED OFF" EICAS MESSAGE CAN APPEAR
AND THE RELATED BLEED "OFF" LIGHT CAN COME ON
DURING ENGINE OPERATION WITH THE PACKS OFF AND
LITTLE OR NO DEMAND ON THE PNEUMATIC SYSTEM.
THESE CONDITIONS ARE NORMAL.

 NOT INSTALLED ON ALL AIRPLANES

L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low
Power. OFF Lgt Extinguished Above 41 Percent N1
Figure 116 (Sheet 1)

EFFECTIVITY

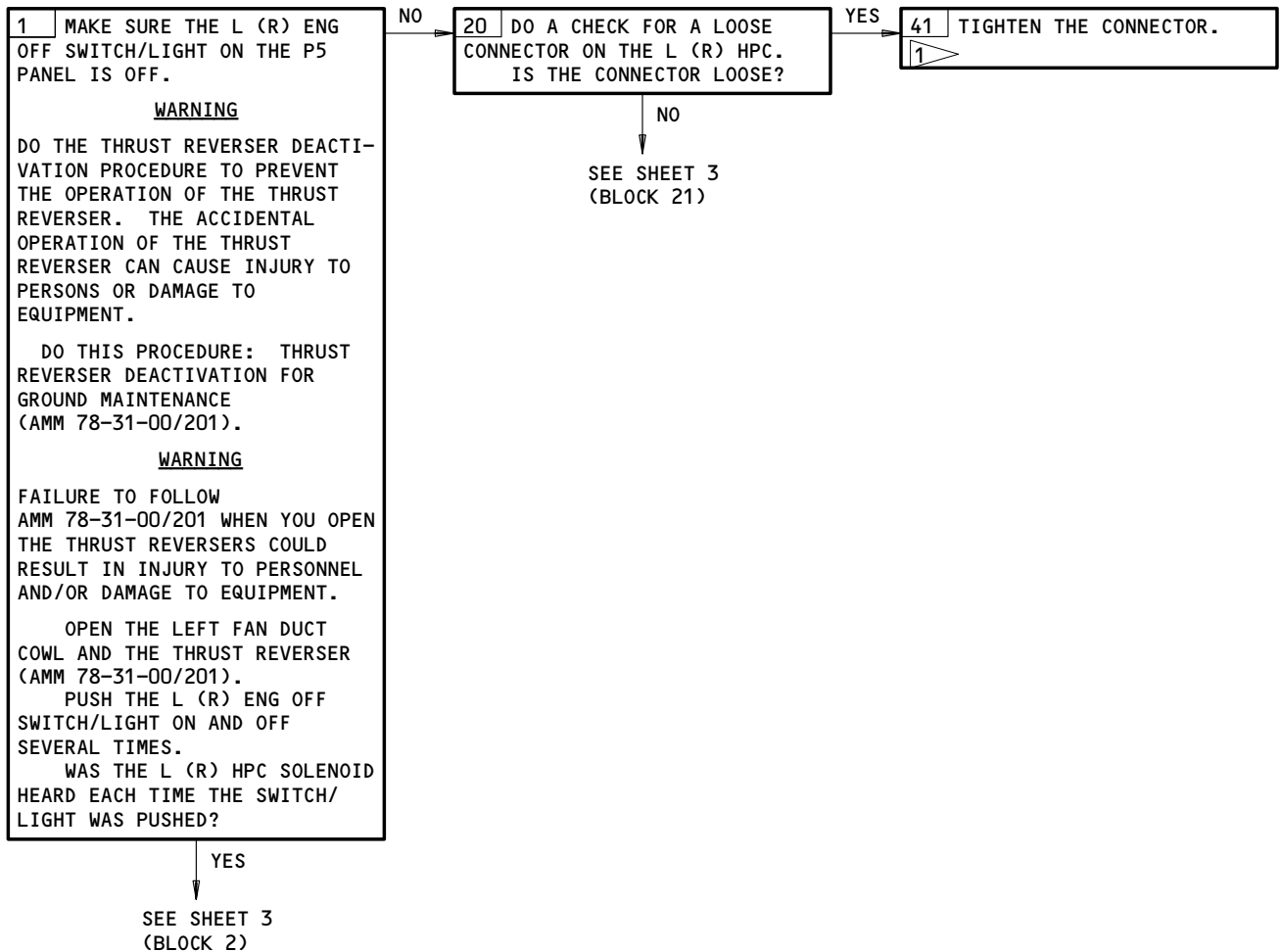
ALL

36-10-00

01B

Page 140
May 10/96


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL



1 WARNING: FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.
 CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).
 DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).

L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low Power. OFF Lgt Extinguished Above 41 Percent N1
 Figure 116 (Sheet 2)

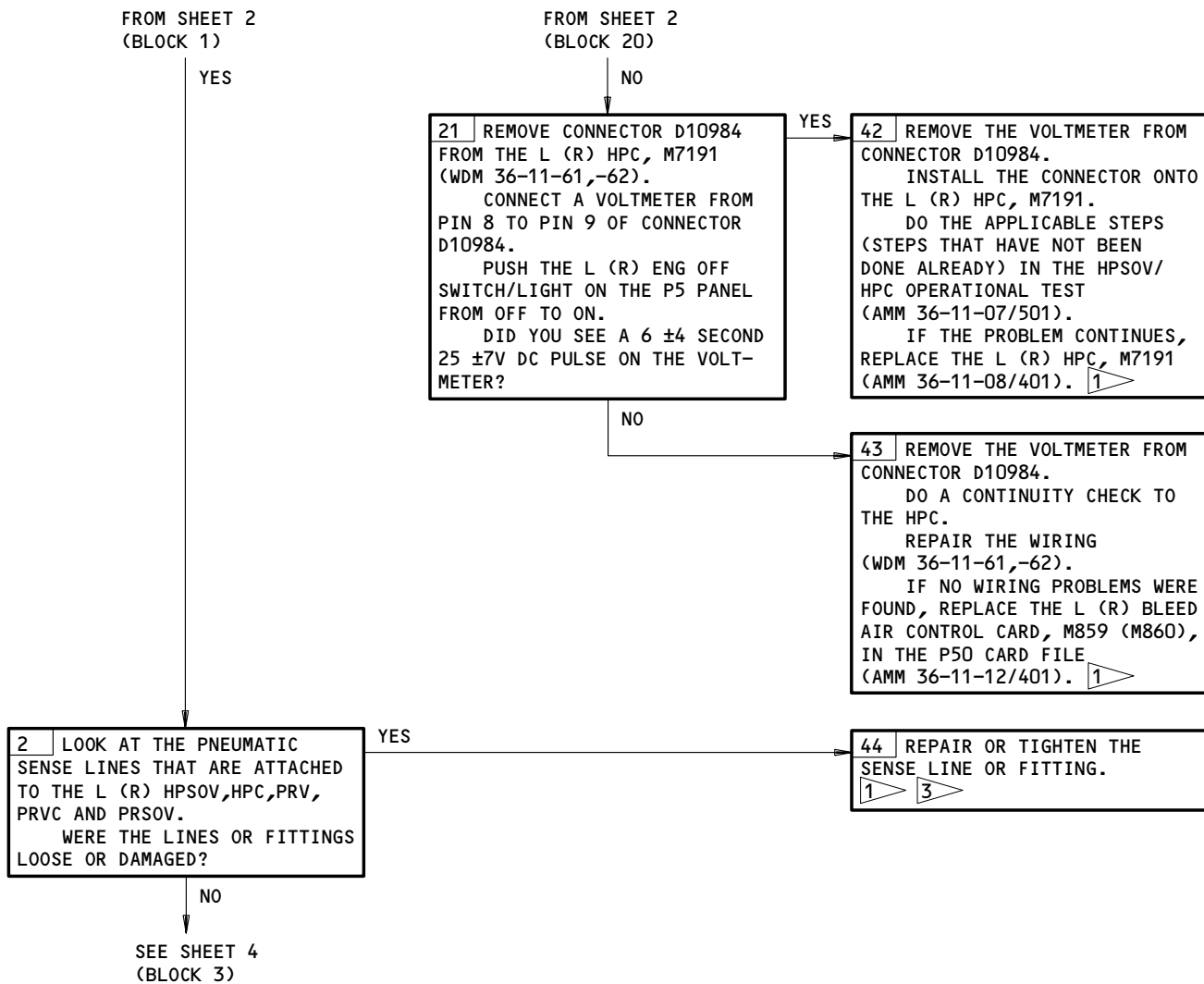
EFFECTIVITY

ALL

36-10-00

E92130


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL



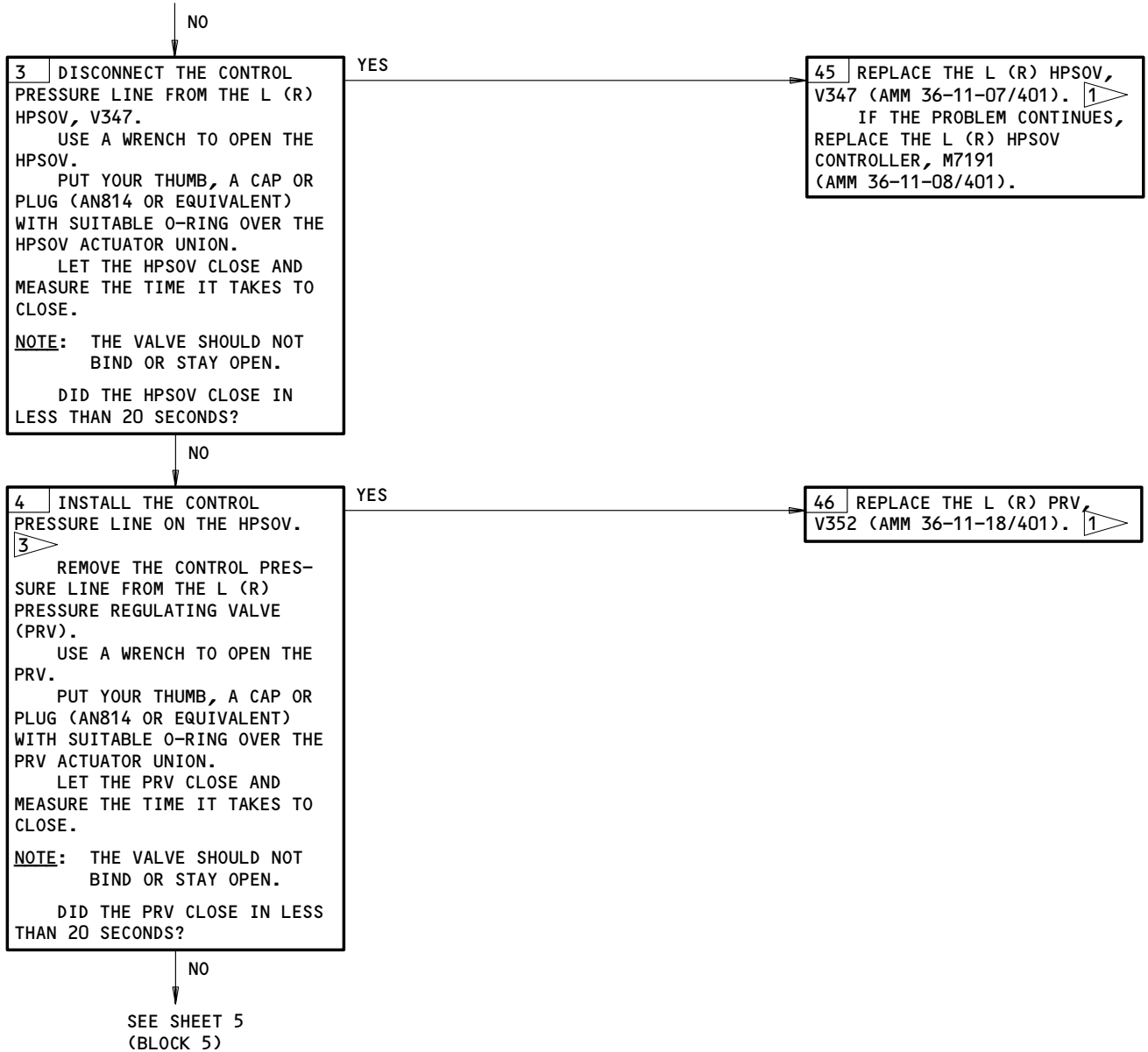
L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low Power. OFF Lgt Extinguished Above 41 Percent N1
 Figure 116 (Sheet 3)

EFFECTIVITY

ALL

36-10-00

FROM SHEET 3
(BLOCK 2)



3 PUT ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

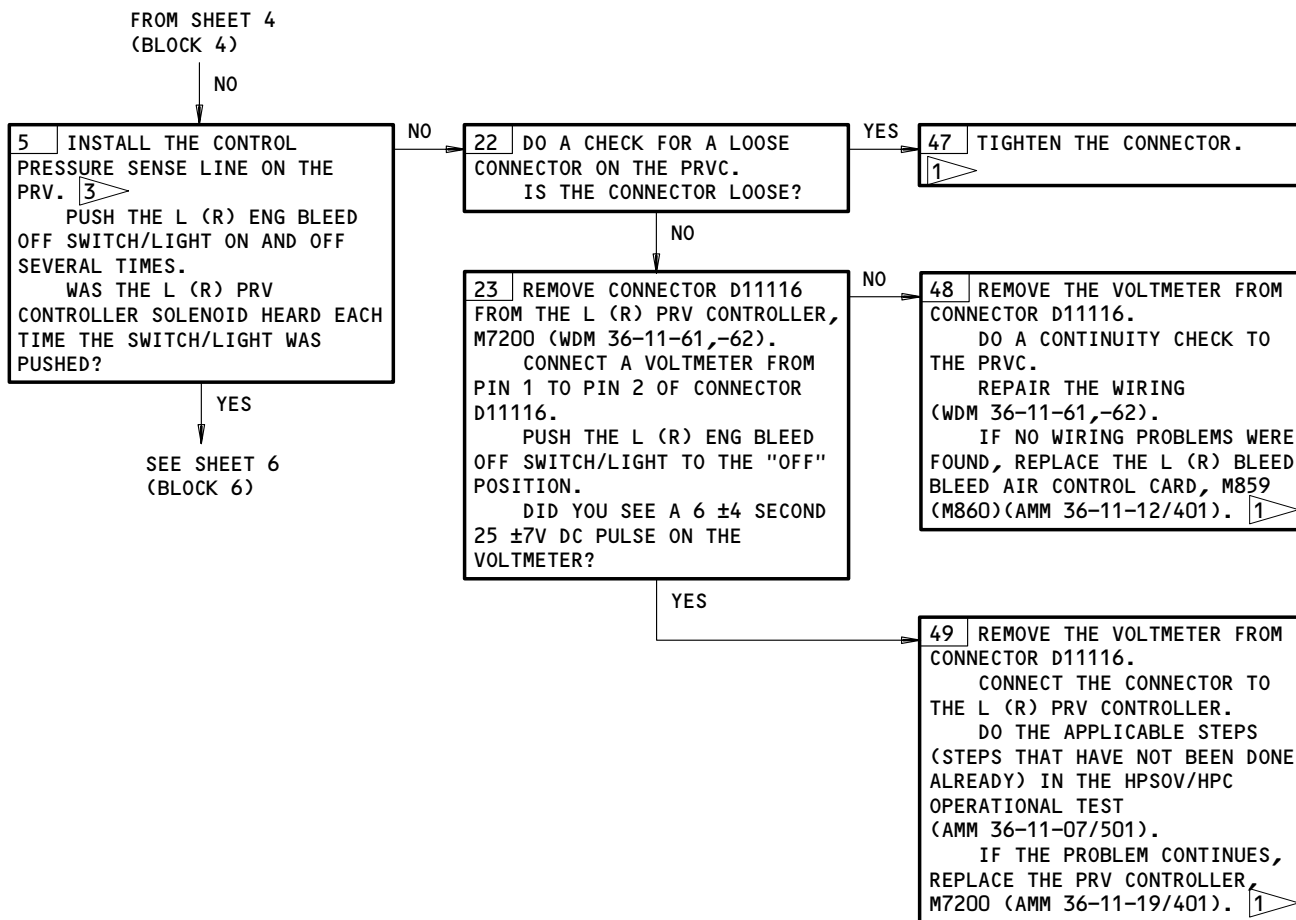
L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low
 Power. OFF Lgt Extinguished Above 41 Percent N1
 Figure 116 (Sheet 4)

EFFECTIVITY

ALL

36-10-00

BOEING
767
FAULT ISOLATION/MAINT MANUAL



L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low
Power. OFF Lgt Extinguished Above 41 Percent N1
Figure 116 (Sheet 5)

EFFECTIVITY

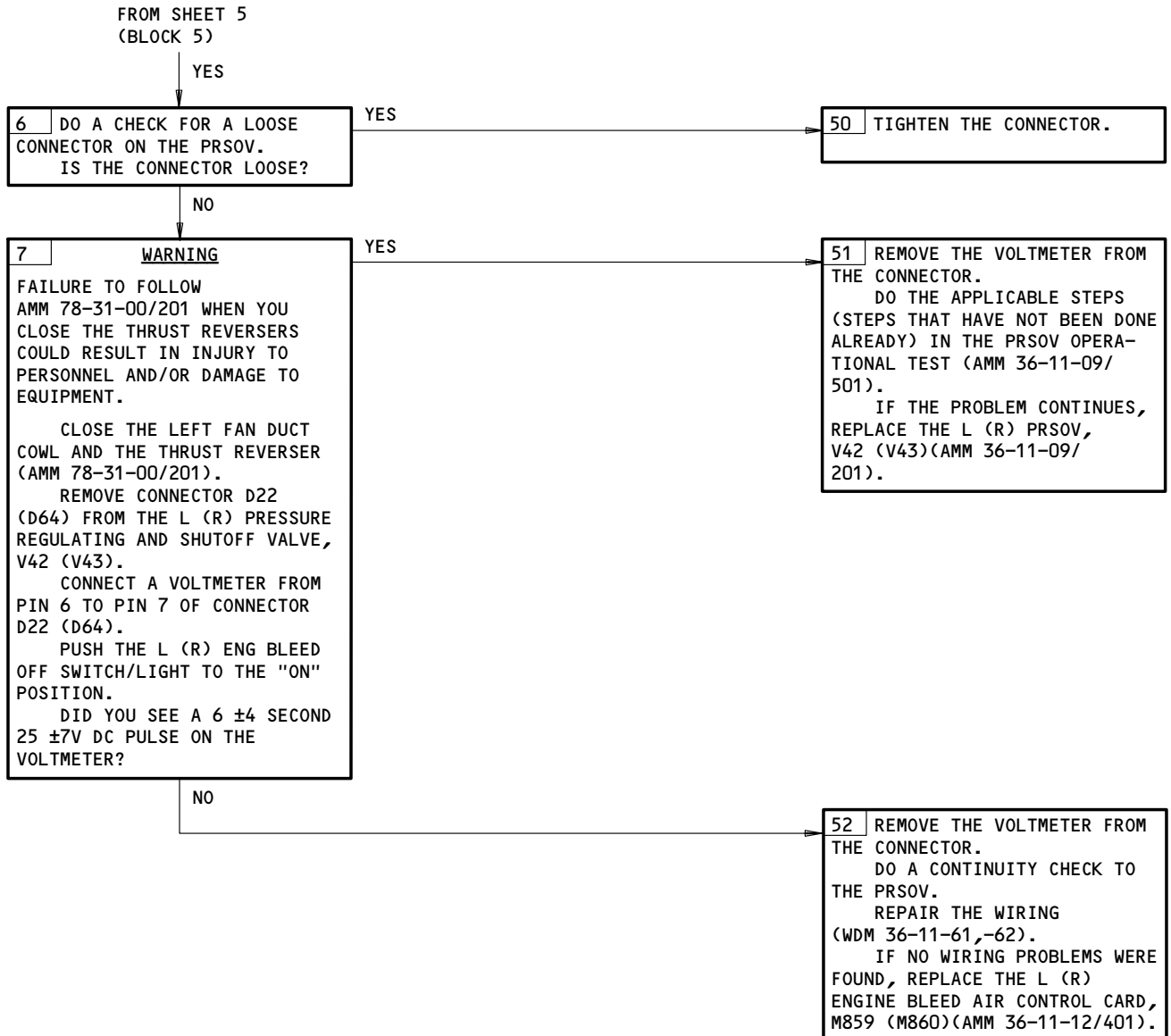
ALL

36-10-00

01B

Page 144
May 10/96

E92150



L (R) Eng Bleed Air Vlv OFF Lgt Illum with Sw On, Eng at Low
Power. OFF Lgt Extinguished Above 41 Percent N1
Figure 116 (Sheet 6)

EFFECTIVITY

ALL

36-10-00

01B

Page 145
May 10/96

BOTH LEFT AND RIGHT
DUCT PRESSURE ZERO
WITH APU RUNNING,
BLEED AIR SW ON,
ISLN VALVES OPEN.
ENGINE BLEED AIR
VALVES INDICATING
CLOSED

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S14,11S15,11S23,11S24

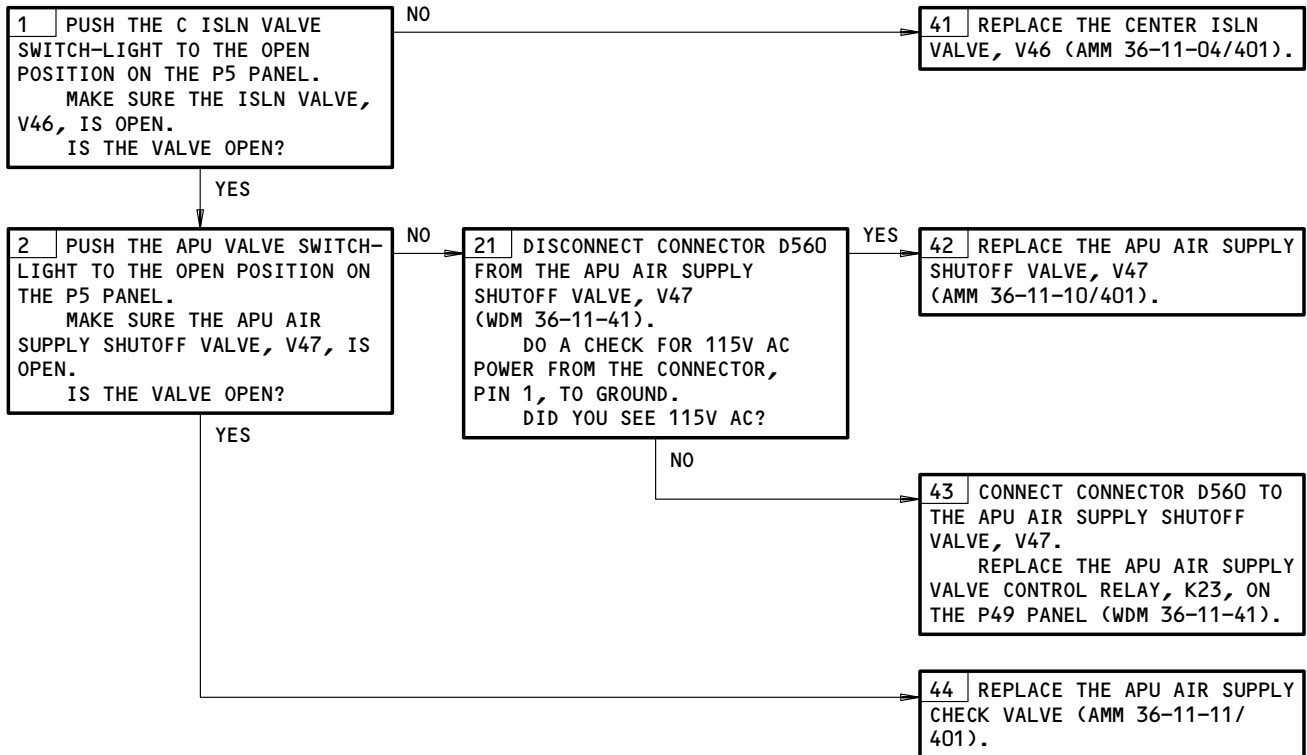
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC PRESSURE ZERO (AMM 36-00-00/201)



POSSIBLE CAUSES:

1. CENTER ISOLATION VALVE
2. APU SHUTOFF VALVE
3. APU CHECK VALVE
4. ELECTRICAL CIRCUIT.

FAULT ISOLATION:



Both Left and Right Duct Press Zero with APU Running, Bleed Air Switch ON,
ISLN Valves Open. Engine Bleed Air Valves Indicating Closed
Figure 117

EFFECTIVITY

ALL

36-10-00

01B

Page 146
May 10/96

E92177

**PNEUMATIC PRESSURE
DROP EXCESSIVE WHEN
USING APU BLEED AIR
FOR ENGINE START**



PREREQUISITES

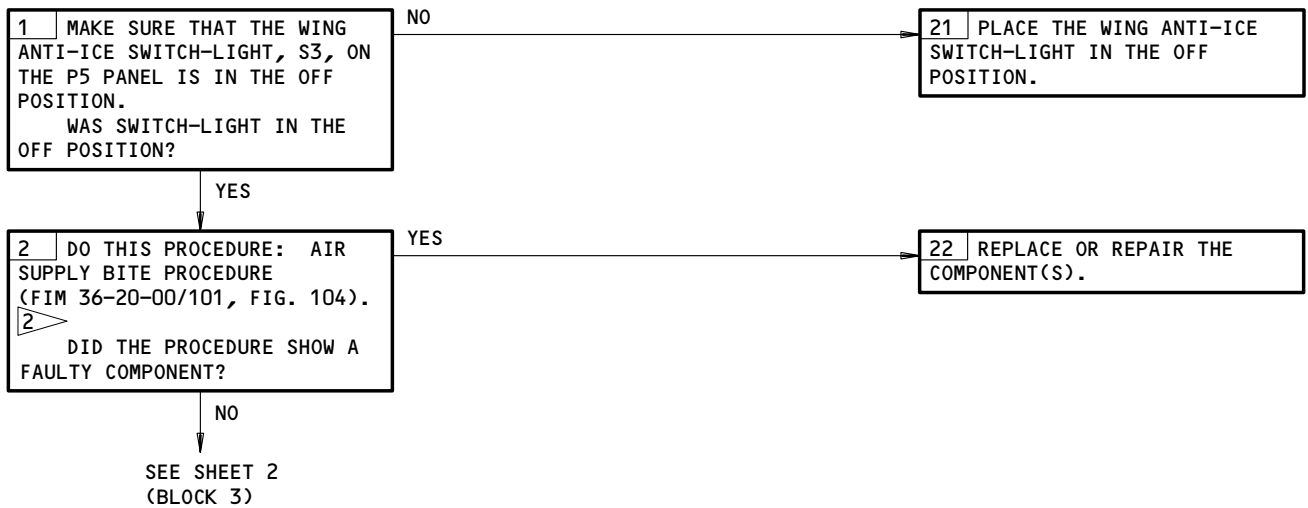
MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:
36L7

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRONIC POWER IS ON (AMM 24-22-00/201)
PNEUMATIC PRESSURE IS ZERO (AMM 36-00-00/201)

POSSIBLE CAUSES:

1. WING ANTI-ICE IS ON
2. PRSOV (AMM 36-11-09/201)
3. BLEED AIR CONTROL CARD (AMM 36-11-12/401)
4. PRSOV AIR FILTERS (AMM 36-11-09/201)
5. ELECTRICAL CIRCUIT.

FAULT ISOLATION:



1 DO THIS PROCEDURE: THRUST REVERSER ACTIVATION (FORWARD THRUST POSITION)(AMM 78-31-00/201).

2 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS.
IF THE BITE MODULE PART NUMBER IS S210T120-57 (H/S 773461-10) OR ABOVE, DO THE BITE PROCEDURE.

Pneumatic Pressure Drop Excessive When Using APU Bleed Air for Engine Starting
Figure 118 (Sheet 1)

EFFECTIVITY

ALL

36-10-00

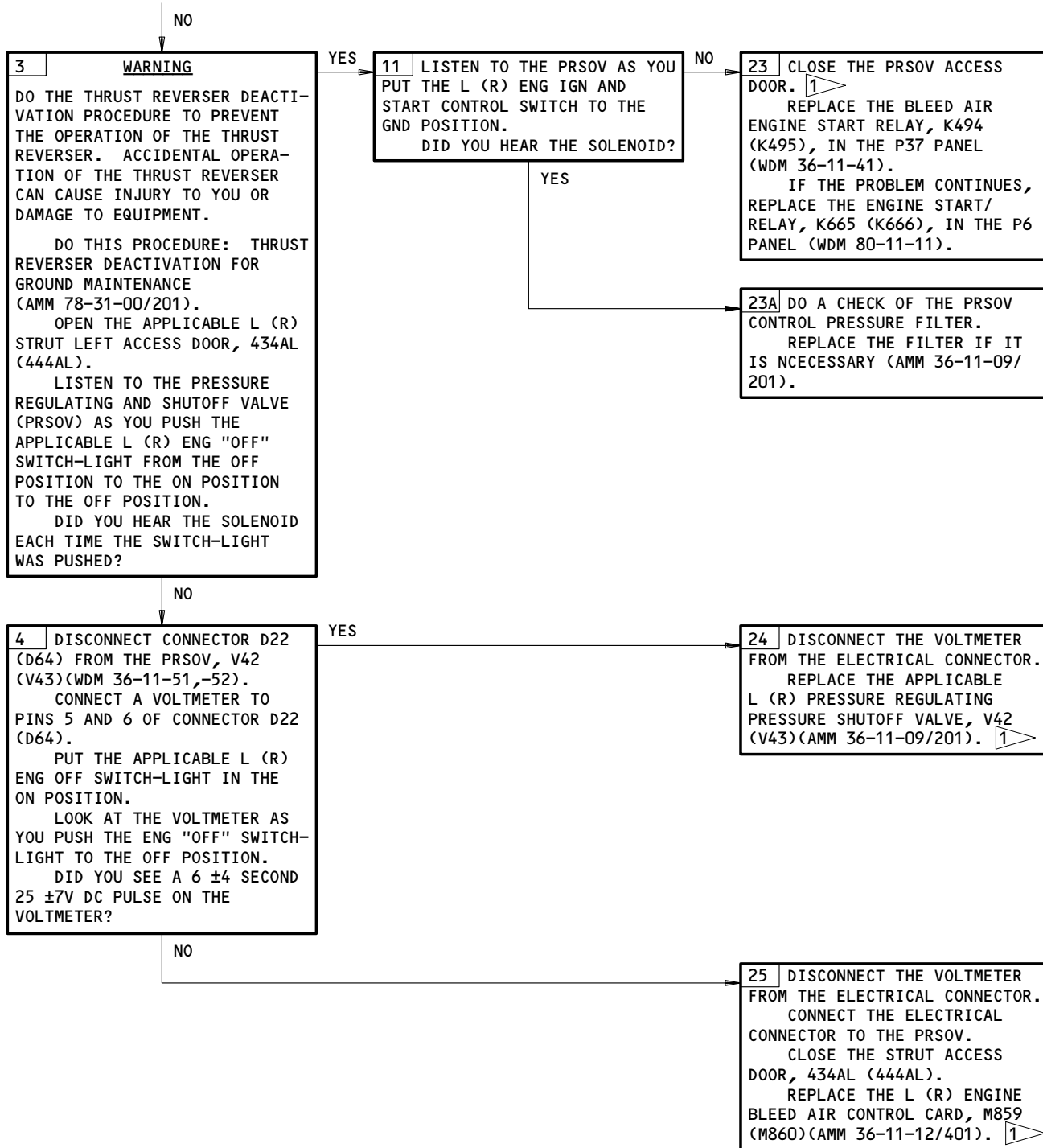
01B

Page 147
May 10/96

A29490

BOEING
767
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1
(BLOCK 2)



Pneumatic Pressure Drop Excessive When Using APU Bleed Air for Engine Starting
Figure 118 (Sheet 2)

EFFECTIVITY

ALL

36-10-00

01B

Page 148
May 10/96

824662

PNEUMATIC PRESSURE DROPS EXCESSIVE/ FLUCTUATES WHEN USING APU BLEED AIR FOR ANY AIR LOAD.



PREREQUISITES

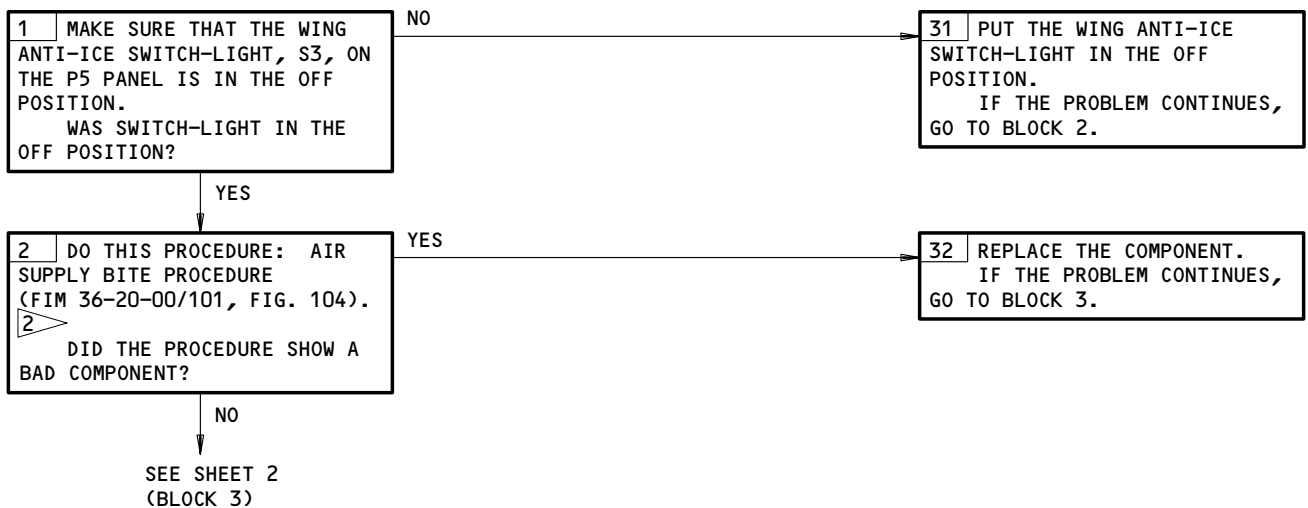
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10,11S11,36L7

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

POSSIBLE CAUSES:

1. WING ANTI-ICE IS ON
2. PRSOV
3. APU PROBLEMS.

FAULT ISOLATION:

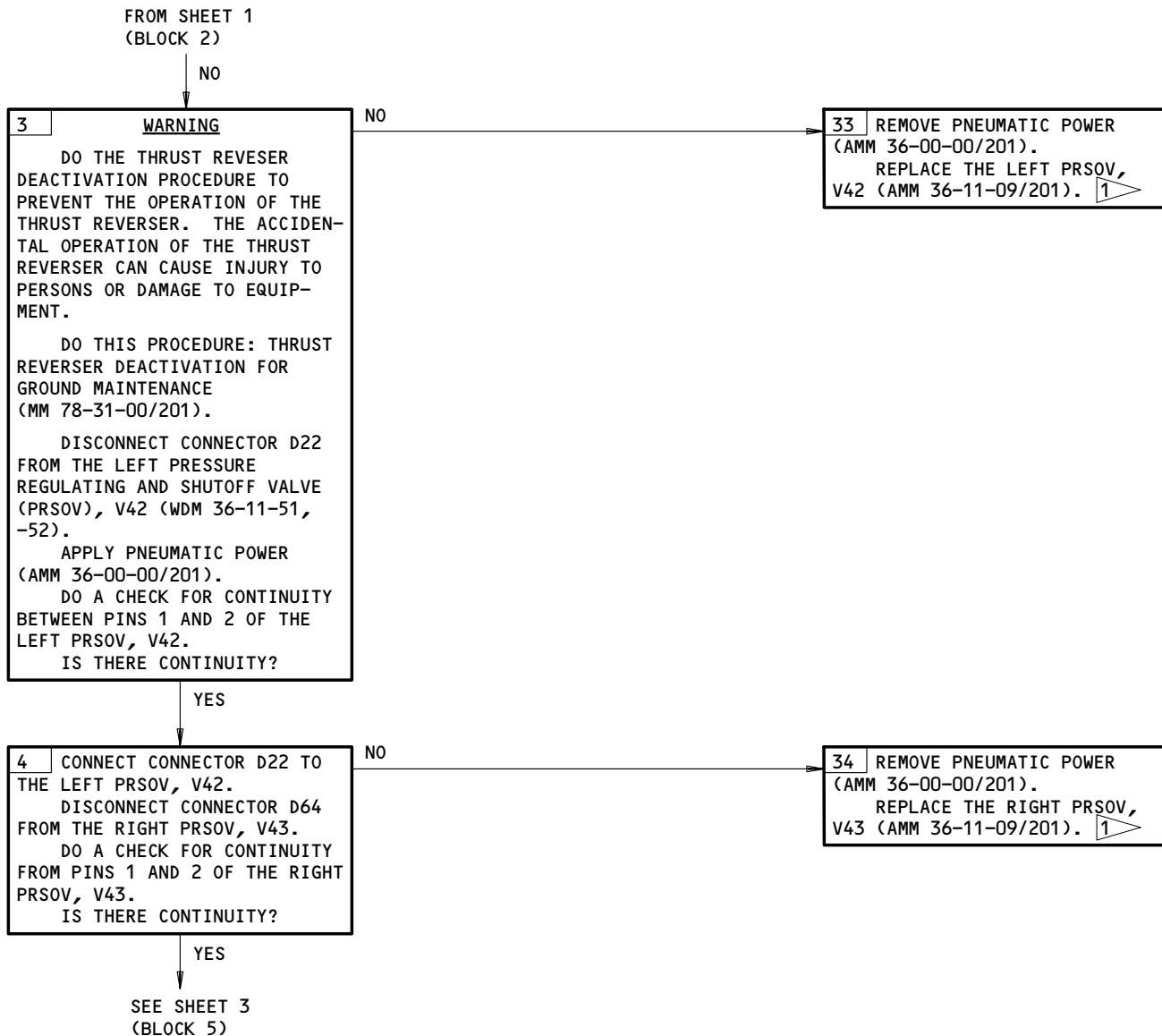


- 1 DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201)
- 2 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS, GO TO BLOCK 3. IF THE BITE MODULE PART NUMBER IS S210T120-67 (H/S 804401-2) OR ABOVE, DO THE BITE PROCEDURE.

Pneumatic Pressure Drops Excessive/Fluctuates When Using APU Bleed Air For Any Air Load.
Figure 119 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

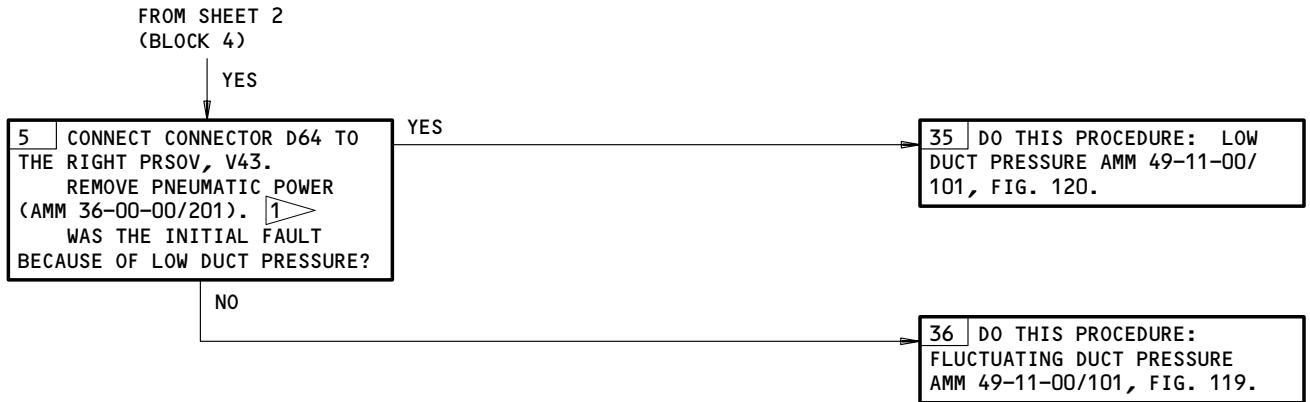
36-10-00



Pneumatic Pressure Drops Excessive/Fluctuates When Using APU
Bleed Air For Any Air Load.
Figure 119 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00



Pneumatic Pressure Drops Excessive/Fluctuates When Using APU
 Bleed Air For Any Air Load.
 Figure 119 (Sheet 3)

EFFECTIVITY	ALL
-------------	-----

36-10-00

BLEED "OFF"
LIGHT EXTINGUISHES
WHEN THE BLEED
SWITCH IS "ON".
ENGINES ARE NOT
RUNNING. NO BLEED
DEMAND SELECTED
ON THE ENGINE-SIDE
OF THE PRSOV.



POSSIBLE CAUSES:

THIS CONDITION IS NORMAL.

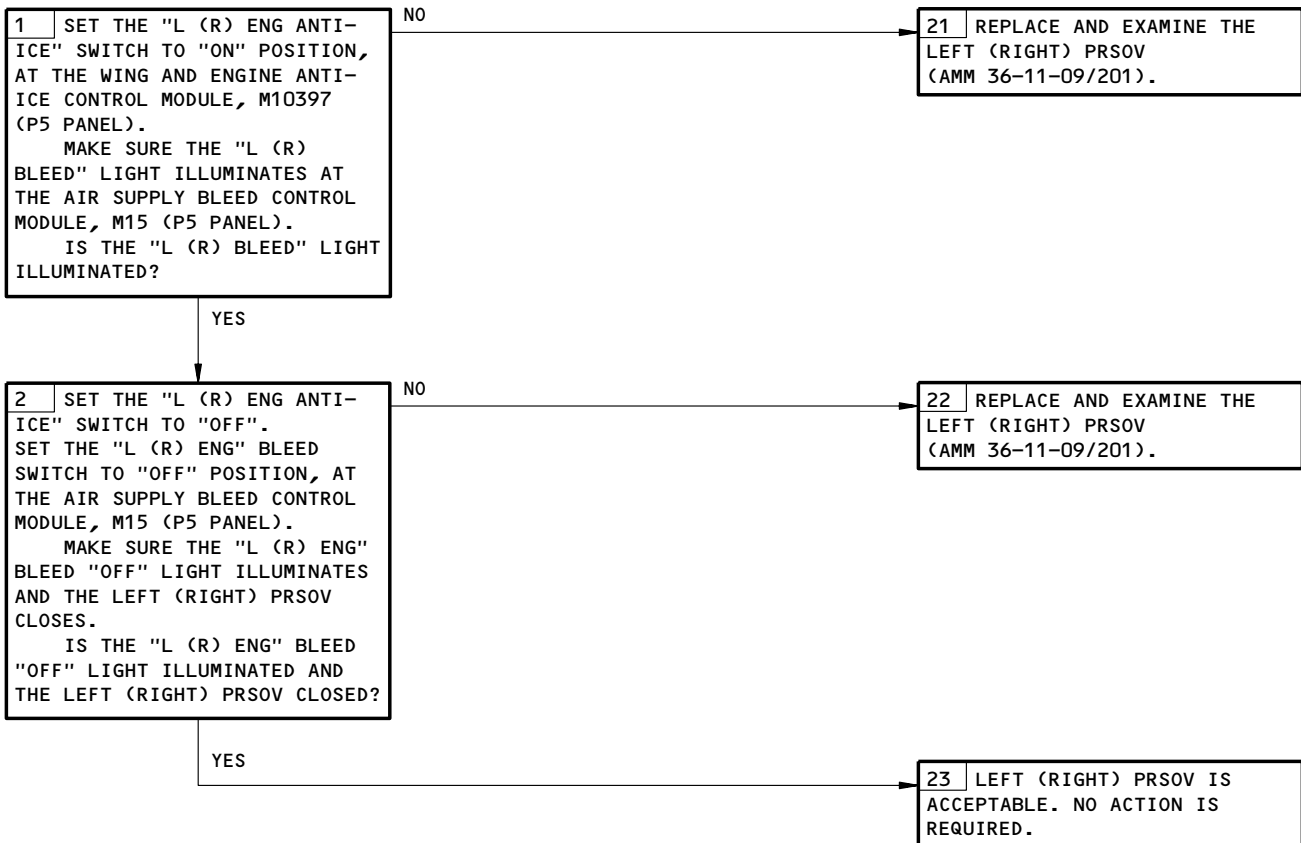
FAULT ISOLATION:

PREREQUISITES

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

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

NOTE: THIS CONDITION CAN OCCUR DUE TO A PRESSURE DIFFERENTIAL ACROSS THE PRSOV WHILE PRESSURIZING WITH THE APU OR GROUND CART. IF THERE IS NO DEMAND FOR BLEED AIR ON THE ENGINE-SIDE OF THE PRSOV, THE PRESSURE MAY BEGIN TO BUILD UP. WHEN THE PRESSURE BUILDS UP ENOUGH, IT CAN SLIGHTLY OPEN THE PRSOV CAUSING THE "OFF" LIGHT TO EXTINGUISH.



Bleed OFF Light Extinguishes When The Bleed Switch Is ON. Engines Are Not Running. No Bleed Demand Selected On The Engine-Side of the PRSOV.

Figure 119A

EFFECTIVITY

ALL

36-10-00

01B

Page 152
Dec 22/06

L (R) HPSOV AND HPC PROBLEMS



PREREQUISITES

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

EQUIPMENT:

APU OR GROUND AIR SOURCE: LOW PRESSURE, 0-150 PSIG,
COMMERCIALY AVAILABLE

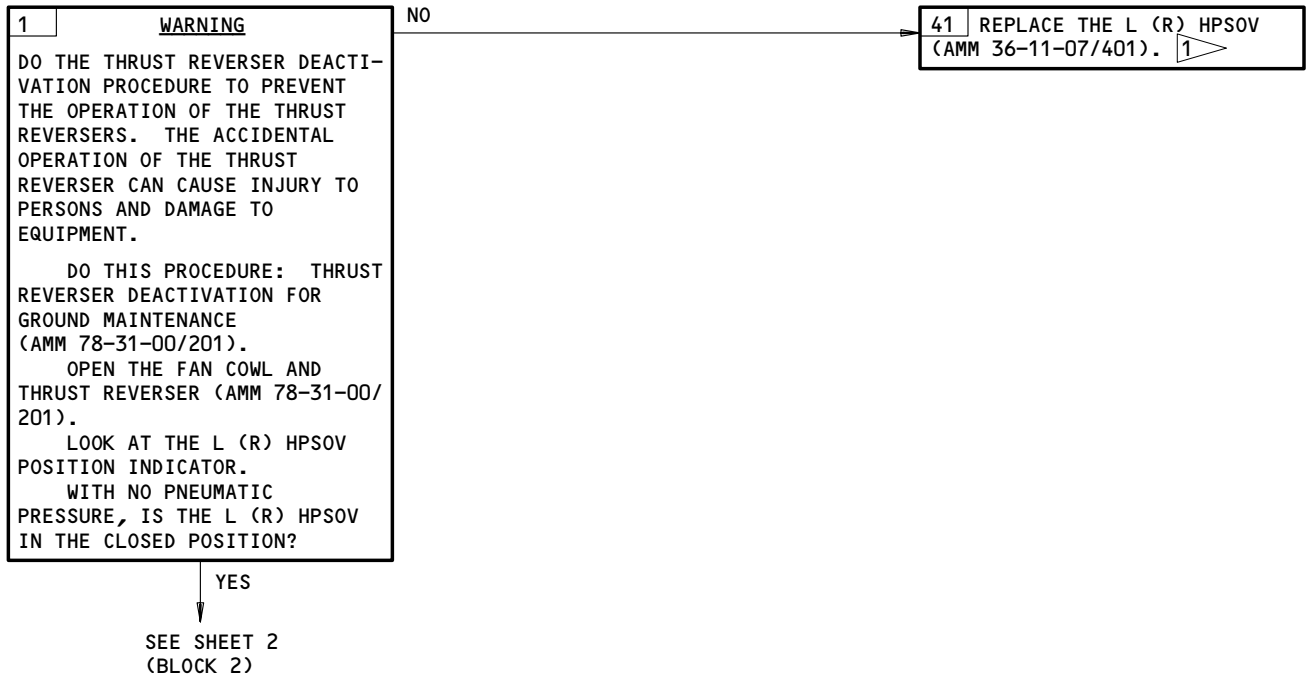
CONSUMABLE MATERIALS:

ANTISEIZE COMPOUND, BOSTIK NEVER-SEEZ

POSSIBLE CAUSES:

1. SENSE LINES
2. HIGH PRESSURE SHUTOFF VALVE (HPSOV)
3. BLEED AIR CONTROL CARD
4. Phh WIRING ON THE HPC
5. HIGH PRESSURE CONTROLLER (HPC)
6. ELECTRICAL CIRCUIT.

FAULT ISOLATION:



1 **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

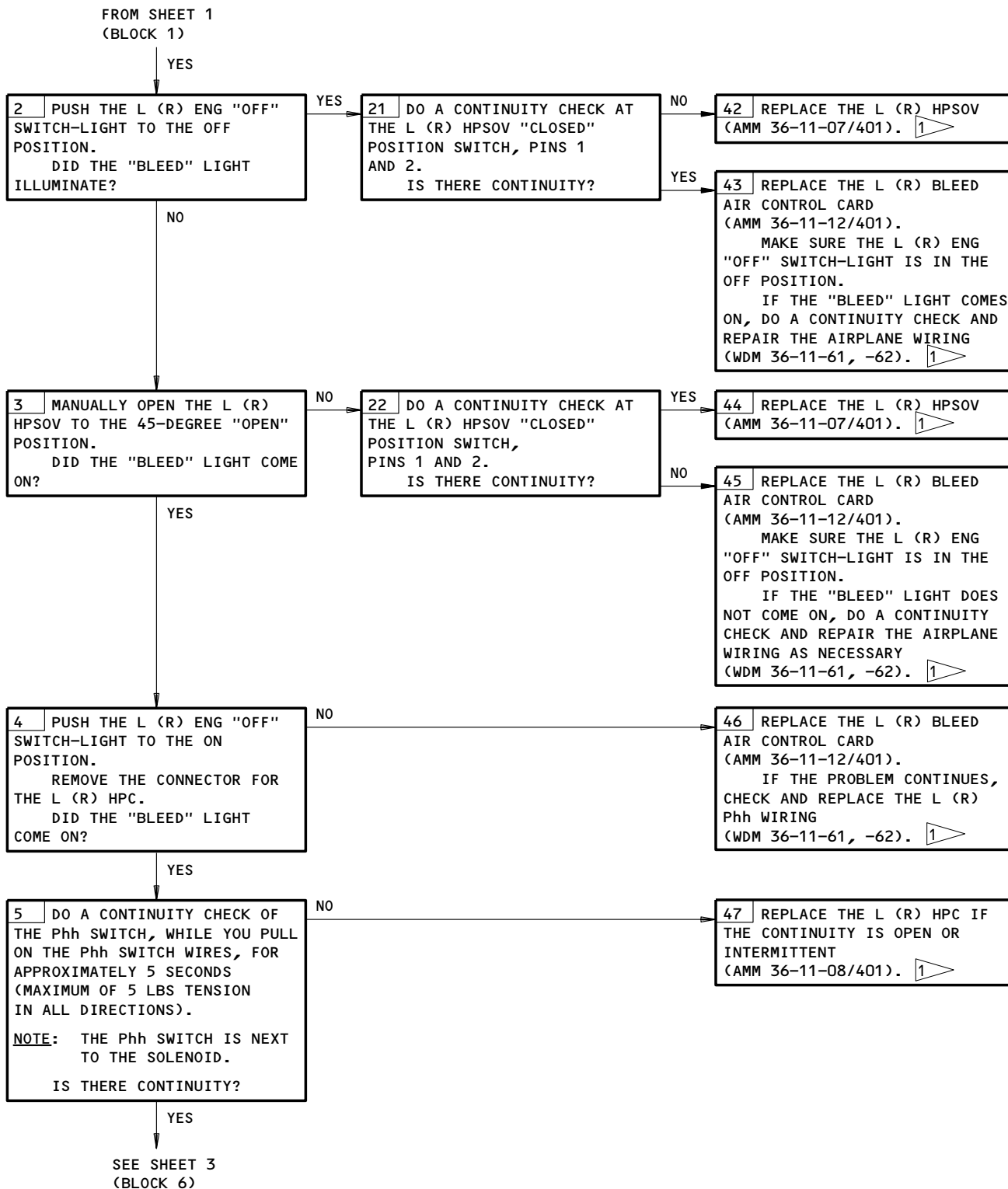
CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

ACTIVATE THE THRUST REVERSERS (AMM 78-31-00/201).

L (R) HPSOV and HPC Problems
Figure 120 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

36-10-00

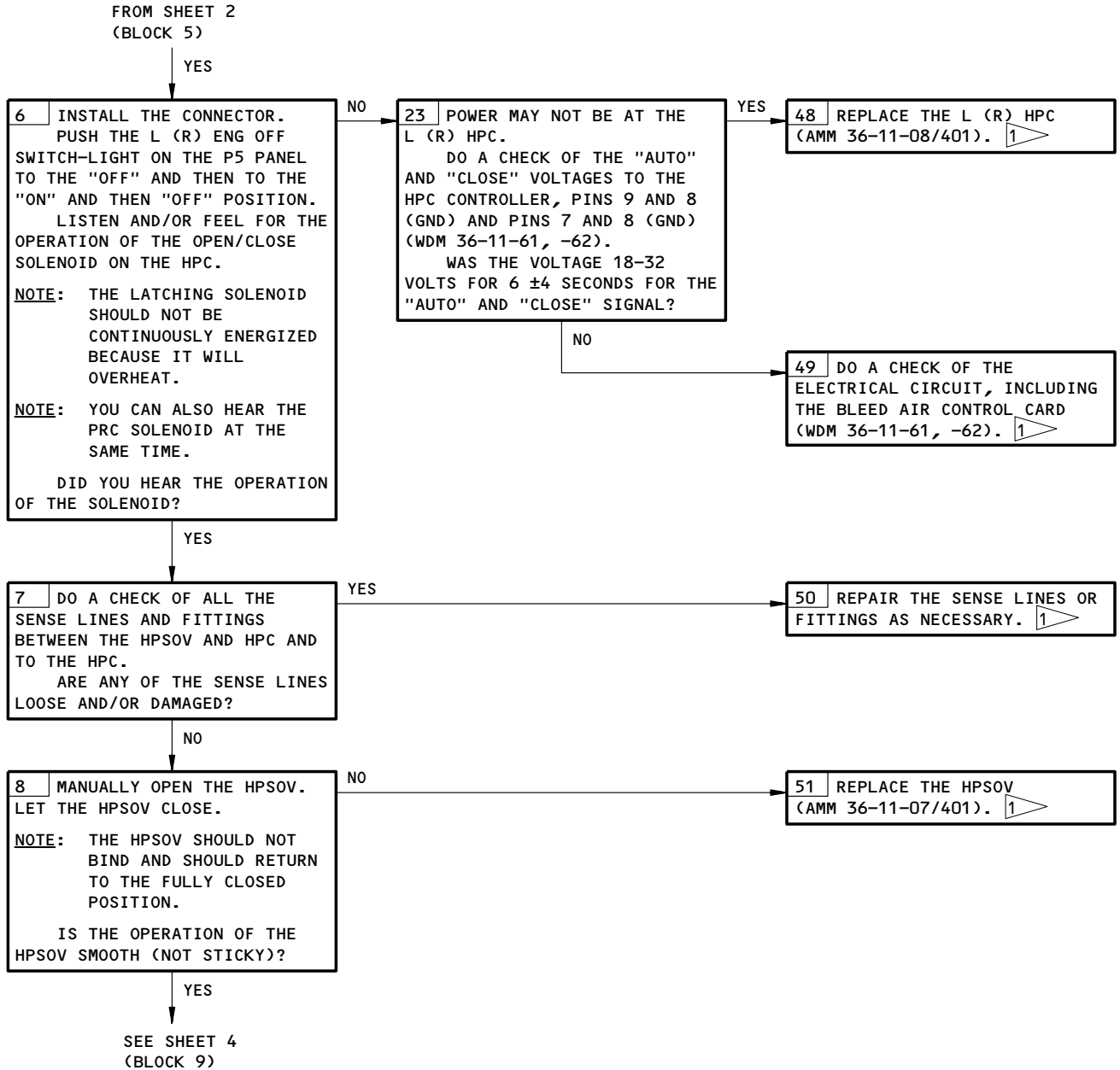


L (R) HPSOV and HPC Problems
Figure 120 (Sheet 2)

EFFECTIVITY

ALL

36-10-00



L (R) HPSOV and HPC Problems
Figure 120 (Sheet 3)

EFFECTIVITY

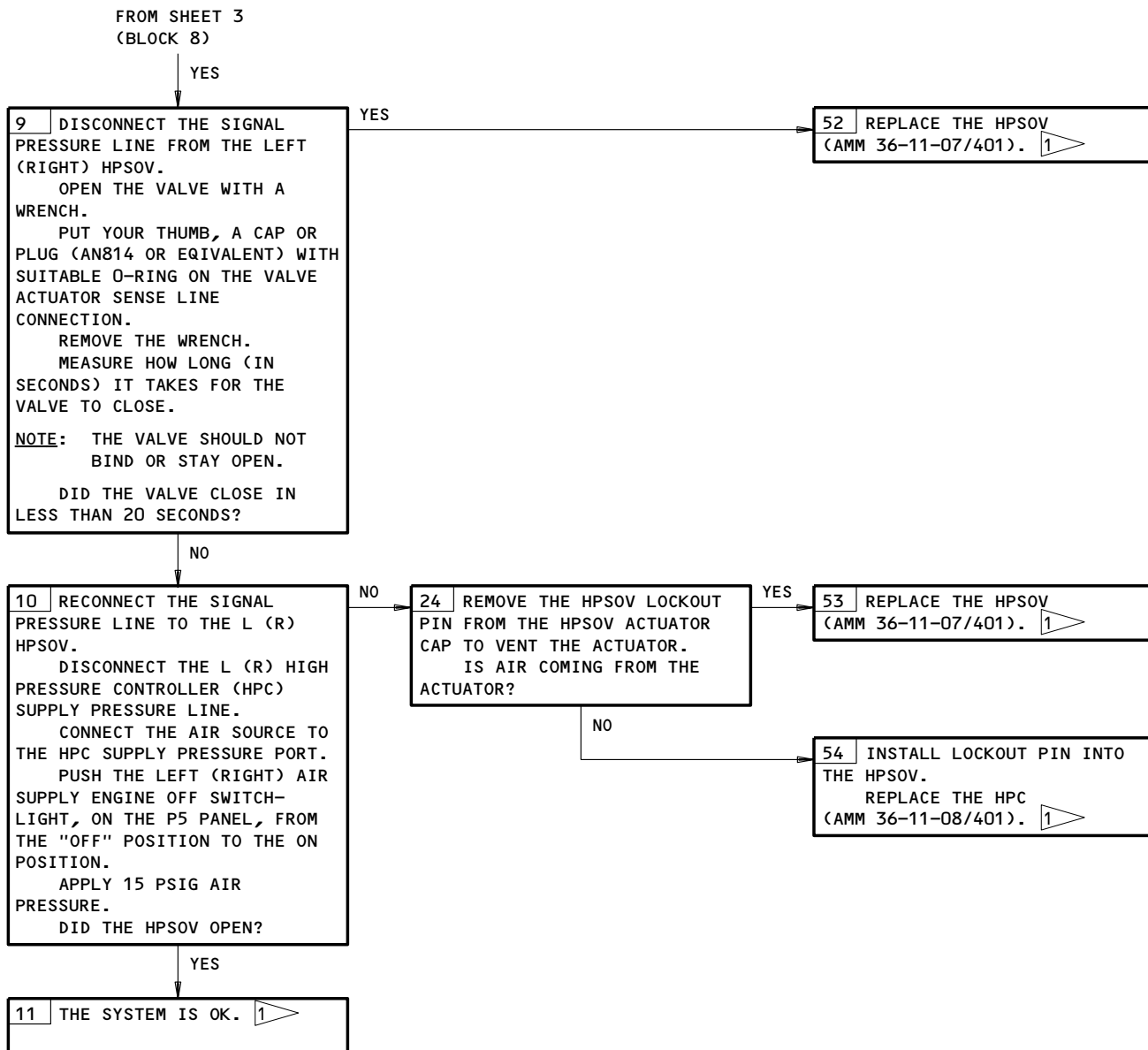
ALL

36-10-00

01B

Page 155
Apr 22/03

B56431



L (R) HPSOV and HPC Problems
Figure 120 (Sheet 4)

EFFECTIVITY	ALL
-------------	-----

36-10-00

L (R) PRESSURE
REGULATING AND
SHUTOFF VALVE
PROBLEMS



PREREQUISITES

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

EQUIPMENT:

LOW PRESSURE, 0-15 PSI, COMMERCIALY AVAILABLE

CONSUMABLE MATERIALS:

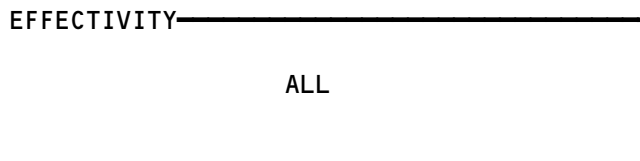
ANTISEIZE COMPOUND, HIGH TEMPERATURE - COMMERCIALY
AVAILABLE

POSSIBLE CAUSES:

1. SENSE LINES
2. PRESSURE REGULATING AND SHUTOFF VALVE (PRSOV)
3. PRESSURE REGULATING VALVE (PRV)
4. PRESSURE REGULATING VALVE CONTROLLER (PRC)
5. BLEED AIR CONTROL CARD
6. ELECTRICAL CIRCUIT.

FAULT ISOLATION:

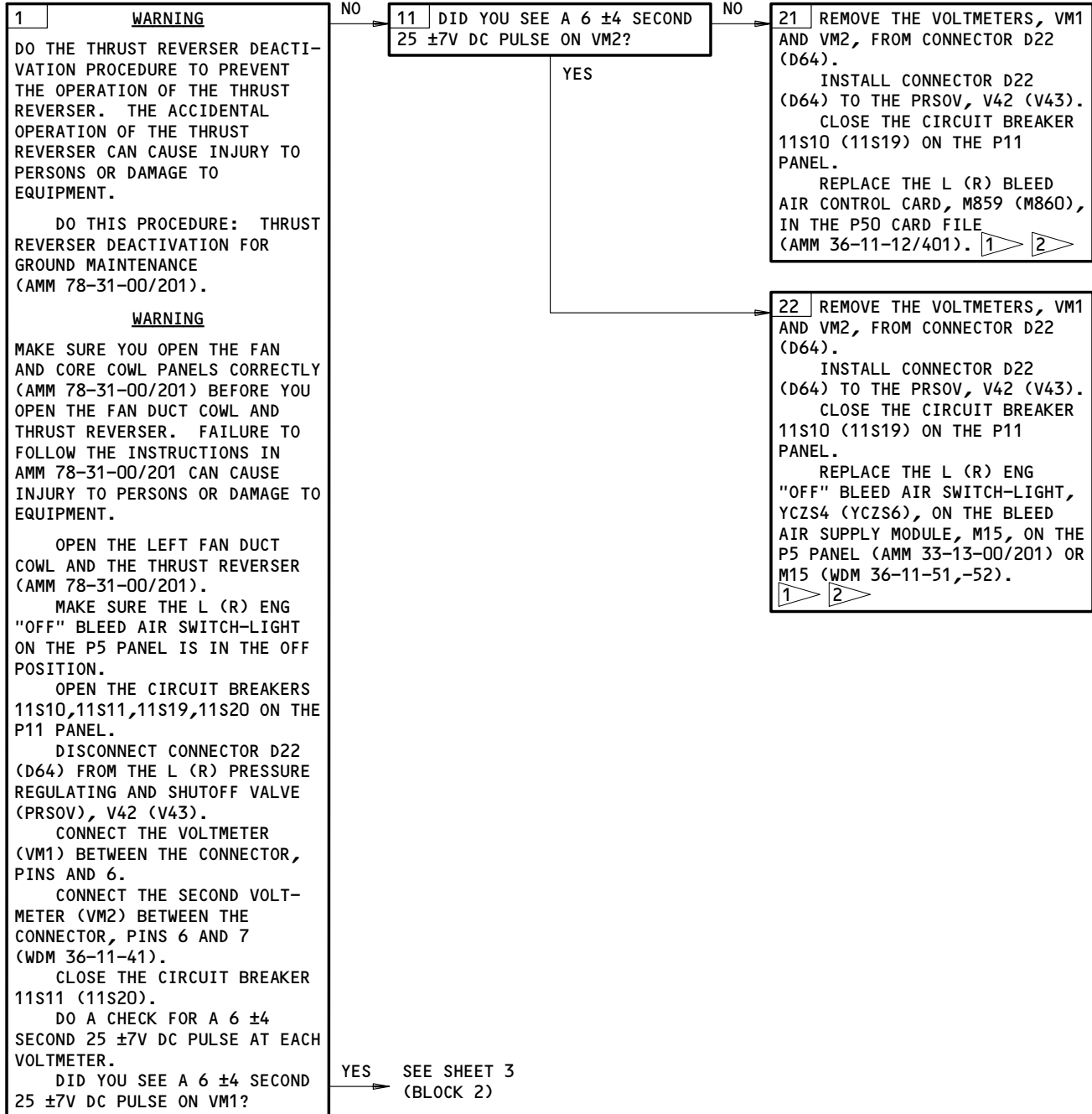
L (R) Pressure Regulating and Shutoff Valve Problems
Figure 121 (Sheet 1)



36-10-00

02B

Page 157
Aug 22/00



1 **WARNING:** MAKE SURE YOU CLOSE THE FAN AND CORE COWL PANELS CORRECTLY (AMM 78-31-00/201) BEFORE YOU CLOSE THE FAN DUCT COWL AND THRUST REVERSER. FAILURE TO FOLLOW THE INSTRUCTIONS IN AMM 78-31-00/201 CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

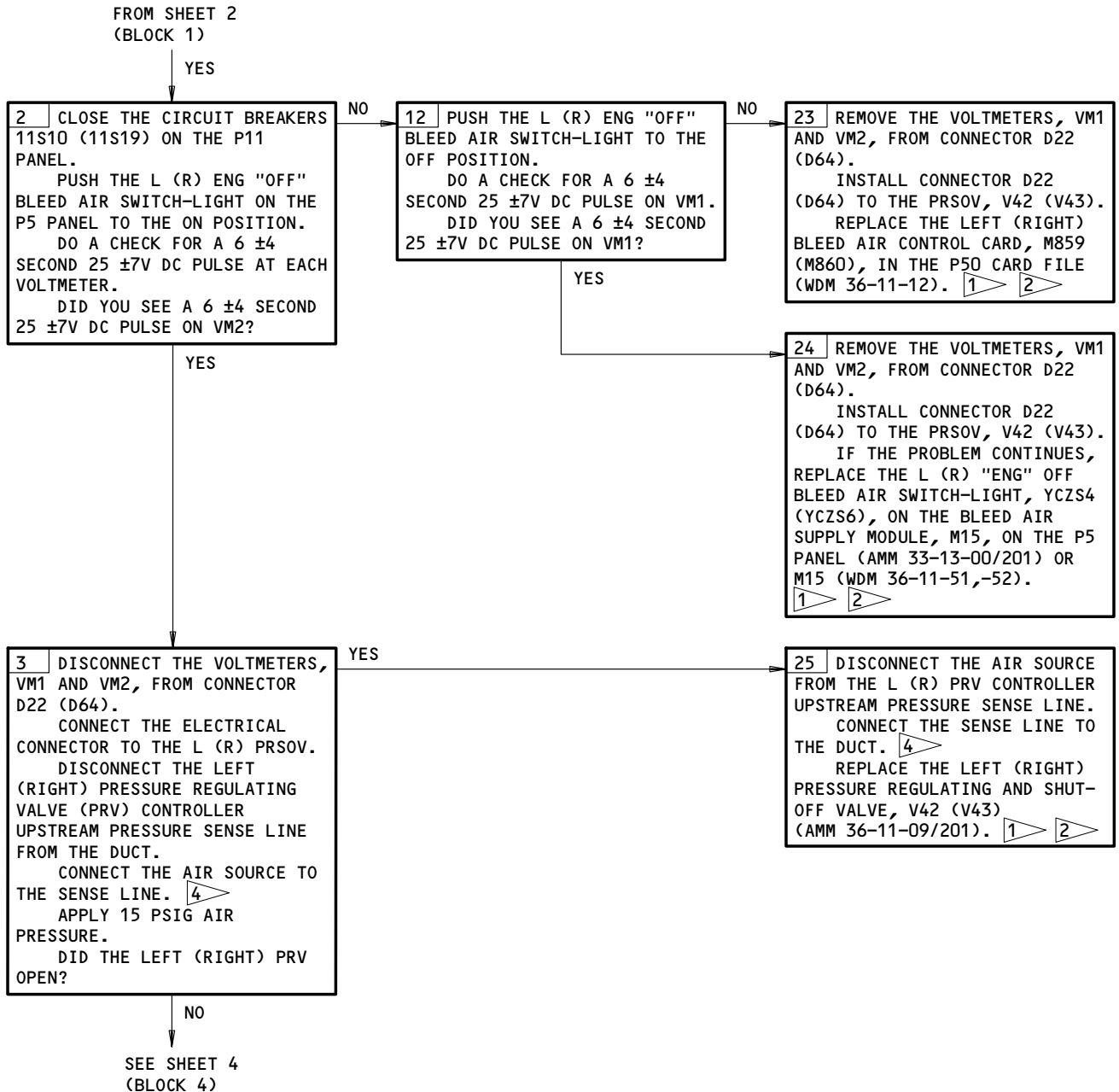
CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

2 DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201)

L (R) Pressure Regulating and Shutoff Valve Problems
Figure 121 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00



4 PUT THE ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

L (R) Pressure Regulating and Shutoff Valve Problems
Figure 121 (Sheet 3)

EFFECTIVITY

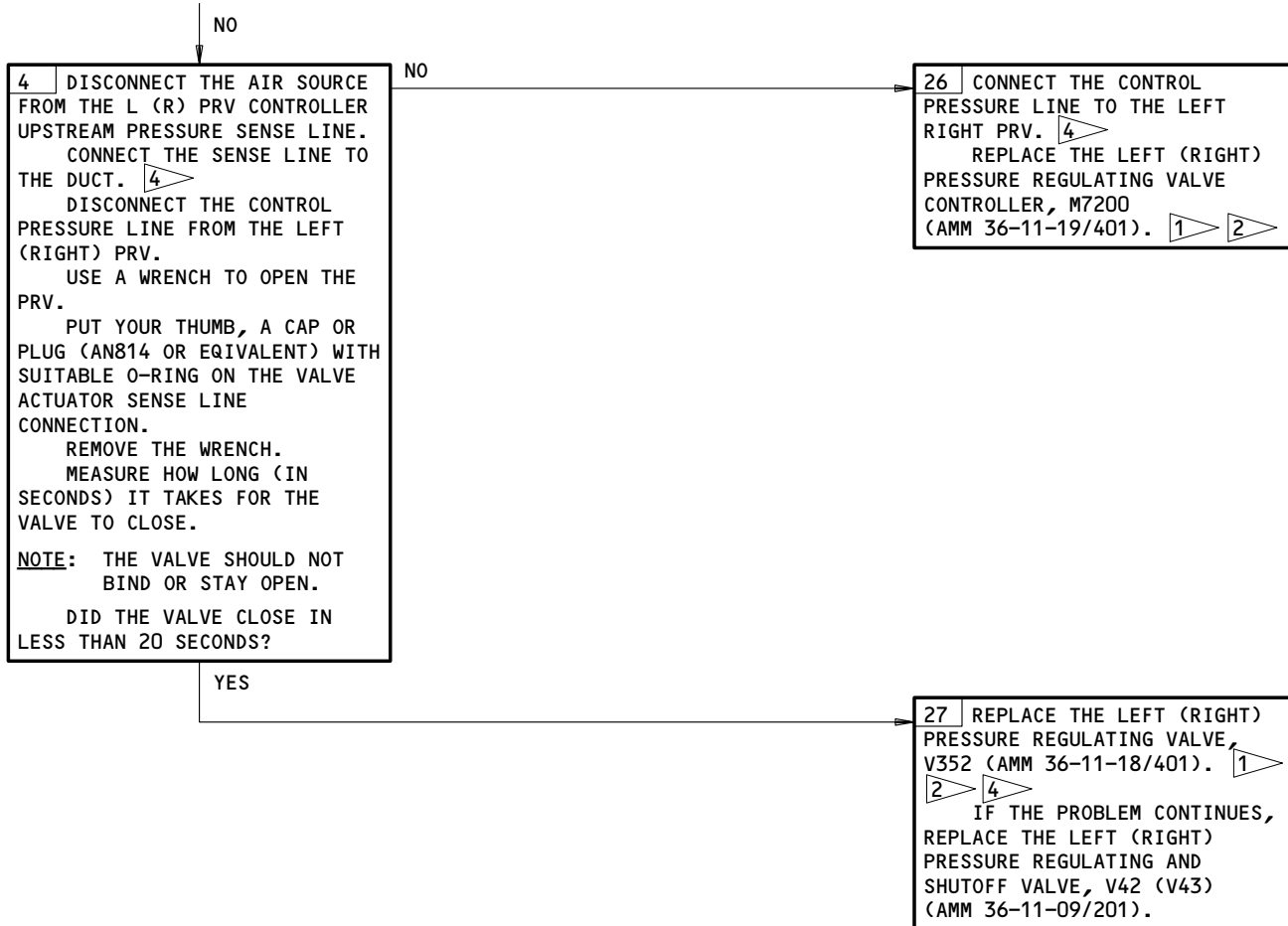
ALL

36-10-00

02B

Page 159
Aug 22/00

FROM SHEET 3
(BLOCK 3)



L (R) Pressure Regulating and Shutoff Valve Problems
Figure 121 (Sheet 4)

EFFECTIVITY

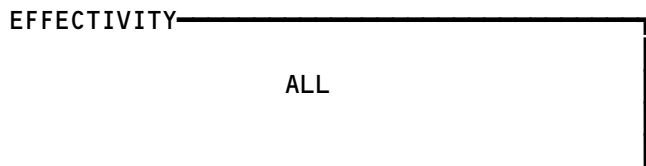
ALL

36-10-00

01B

Page 160
Aug 22/00

Not Used
Figure 122



36-10-00

01B

Page 161
Aug 22/00

E92376

EICAS MSG L (R)
 "ENG PRV" DISPLAYED.
 L (R) ENG "BLEED"
 LIGHT ILLUMINATED.
 POSSIBLE DUCT
 PRESSURE
 FLUCTUATIONS.



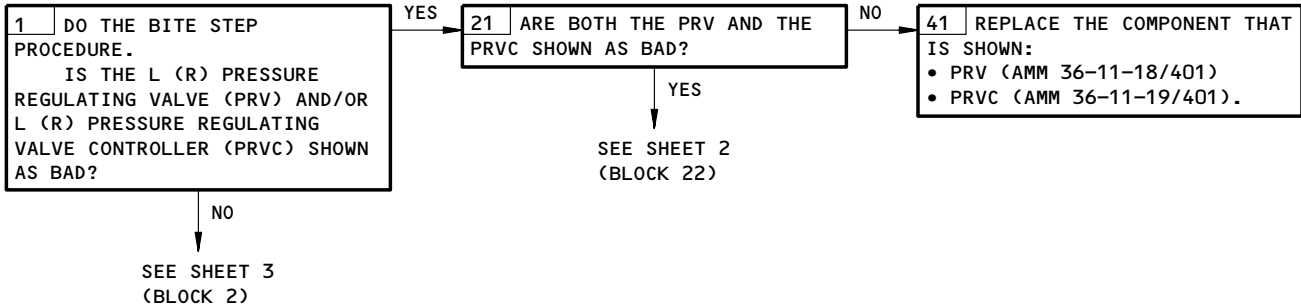
DESCRIPTION:

THE PRV IS NOT CLOSED WHEN IT HAS BEEN COMMANDED CLOSED OR A PRV FAILURE HAS OCCURRED, WHICH CAUSES AN OVERPRESSURE CONDITION.

POSSIBLE CAUSES:

1. LOOSE PRVC SENSE LINE B-NUT AT THE PRECOOLER, OR PRVC
2. BAD PRVC (THE PRVC IS NOT REGULATING CORRECTLY)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
3. BAD PRV (THE PRV POSITION SWITCH CALIBRATION, THE PRV IS STUCK OPEN)(PRV/PRVC ADJUSTMENT, AMM 36-11-18/501)
4. TOO MUCH LEAKAGE PAST THE PRV BUTTERFLY DURING A NO PACKS TAKEOFF
5. BAD OVERPRESSURE SWITCH (PART NO. 211C117-197 OVERPRESSURE SWITCHES MAY CAUSE NUISANCE "ENG PRV" MESSAGES. THEY SHOULD BE REPLACED WITH THE NEWER PART NO. 21SN41-83, -83A OVERPRESSURE SWITCHES)
6. OPEN WIRE TO THE PRV POSITION SWITCH OR TO THE OVERPRESSURE SWITCH
7. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



EICAS Msg L (R) ENG PRV Displayed. L (R) Eng BLEED Light Illuminated. Possible Duct Pressure Fluctuations.
 Figure 123 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

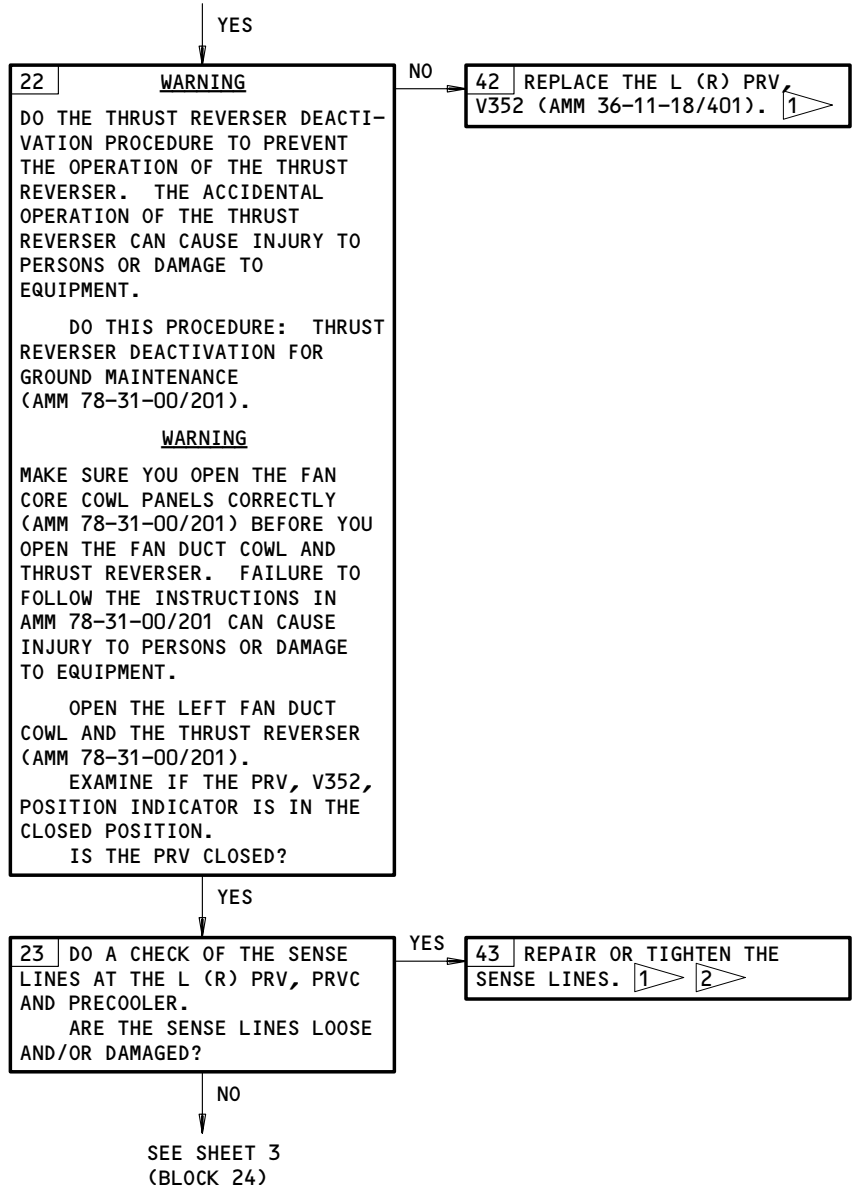
36-10-00

BOEING

767

FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1
(BLOCK 21)



1 **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).

2 PUT ANTI-SEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

EICAS Msg L (R) Eng PRV Displayed. L (R) Eng BLEED Light Illuminated. Possible Duct Pressure Fluctuations.
Figure 123 (Sheet 2)

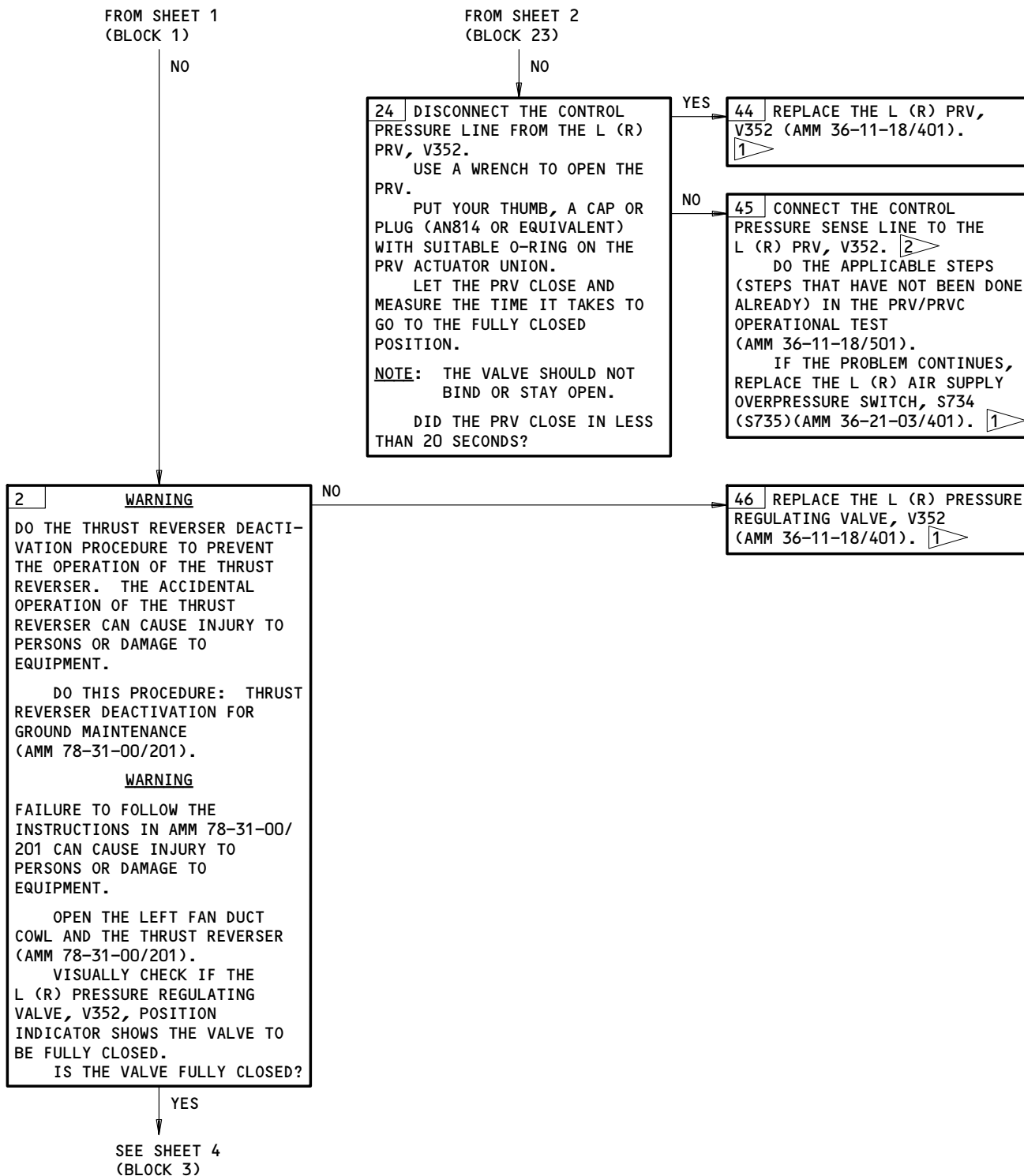
EFFECTIVITY	
ALL	

36-10-00

02B

Page 163
Aug 22/00

BOEING
767
FAULT ISOLATION/MAINT MANUAL



EICAS Msg L (R) ENG PRV Displayed. L (R) Eng BLEED Light Illuminated. Possible Duct Pressure Fluctuations.
Figure 123 (Sheet 3)

EFFECTIVITY

ALL

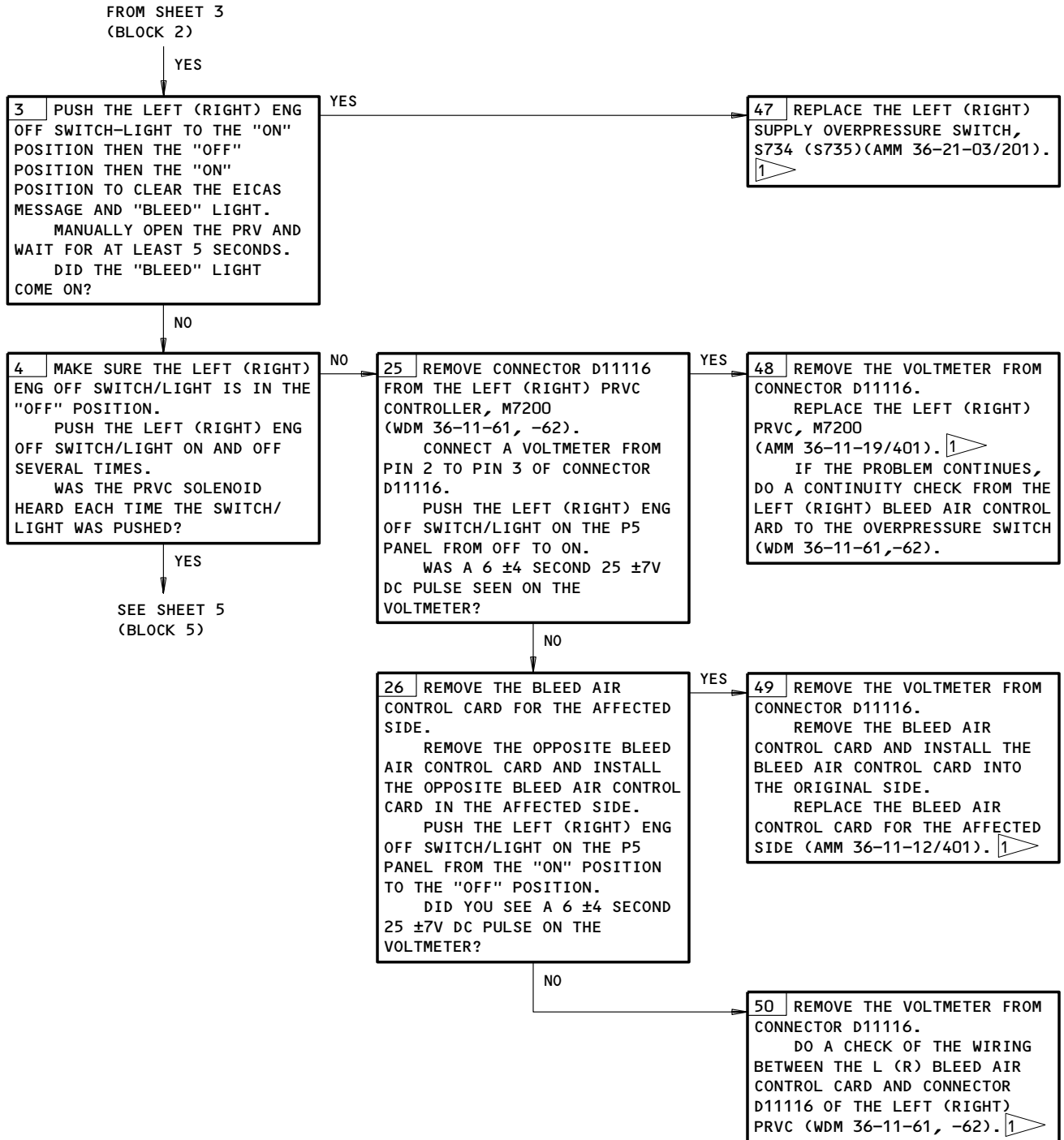
36-10-00

02B

Page 164
Aug 22/00

F78296


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL



EICAS Msg L (R) ENG PRV Displayed. L (R) Eng BLEED Light Illuminated. Possible
 Duct Pressure Fluctuations.
 Figure 123 (Sheet 4)

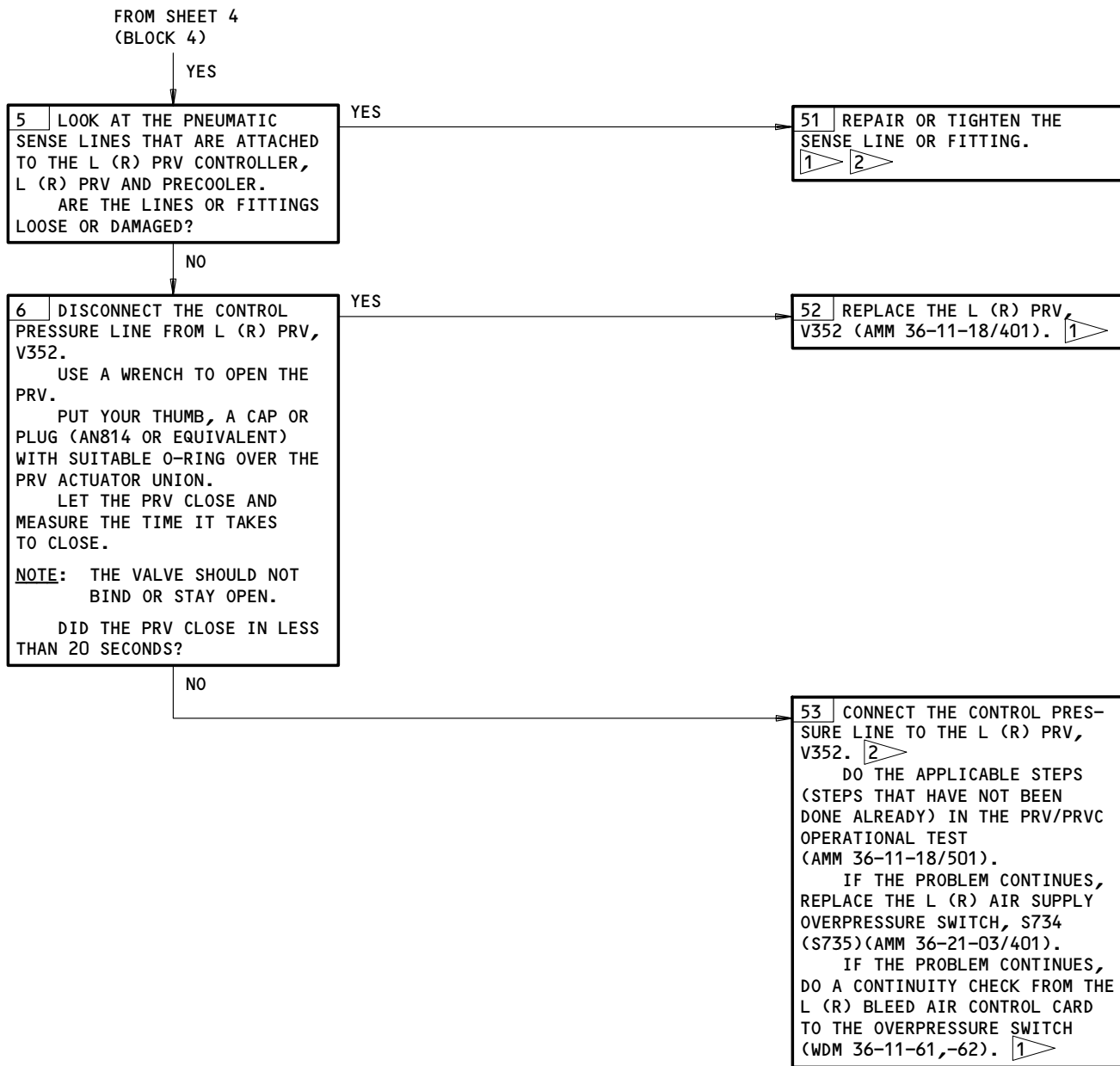
EFFECTIVITY

ALL

36-10-00

01B

Page 165
Apr 22/01



EICAS Msg L (R) ENG PRV Displayed. L (R) Eng BLEED Light Illuminated. Possible Duct Pressure Fluctuations.
Figure 123 (Sheet 5)

EFFECTIVITY

ALL

36-10-00

02B

Page 166
Aug 22/00

PREREQUISITES

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

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

EQUIPMENT:
AIR SOURCE - LOW PRESSURE, 0-15 PSIG, COMMERCIALY AVAILABLE

CONSUMABLE MATERIALS:
ANTISEIZE COMPOUND, HIGH TEMPERATURE - BOSTIK,
NEVER-SEEZ

NOTE: IF THE "L/R ENG PRV" EICAS MESSAGE IS REPORTED TO HAVE DISPLAYED MOMENTARILY DURING ENGINE START, THE START CAN BE CONTINUED AS NORMAL. AFTER START, WITH THE ASSOCIATED ENGINE STABILIZED AT IDLE, SET THE ENGINE BLEED SWITCH TO OFF AND MONITOR THE EICAS DISPLAY FOR 15 SECONDS. IF THE "L/R ENG PRV" EICAS MESSAGE DOES NOT REAPPEAR, SET THE ENGINE BLEED SWITCH TO ON. NO FURTHER ACTION IS NECESSARY PRIOR TO DISPATCH. THE PRV ON THE ASSOCIATED ENGINE SHOULD BE SCHEDULED FOR REPLACEMENT AT THE NEXT MAINTENANCE OPPORTUNITY. (REFERENCE 767 MT 36-014R2).

EICAS MSG "L (R)
ENG PRV" DISPLAYED
DURING ENGINE START.
L (R) ENG "BLEED"
LIGHT ILLUMINATED.




DESCRIPTION:

THE PRV IS NOT CLOSED WHEN IT HAS BEEN COMMANDED CLOSED CLOSED OR A PRV FAILURE HAS OCCURRED, WHICH CAUSES AN OVERPRESSURE CONDITION.

POSSIBLE CAUSES:


1. LOOSE PRVC SENSE LINE B-NUT AT THE PRECOOLER, OR PRVC
2. BAD PRVC (THE PRVC IS NOT REGULATING CORRECTLY)(PRV/PRVC ADJUSTMENT/TEST, AMM 36-11-18/501)
3. BAD PRV (THE PRV POSITION SWITCH CALIBRATION, THE PRV IS STUCK OPEN)(PRV/PRVC ADJUSTMENT, AMM 36-11-18/501)
4. TOO MUCH LEAKAGE PAST THE PRV BUTTERFLY DURING A NO PACKS TAKEOFF
5. BAD OVERPRESSURE SWITCH
6. OPEN WIRE TO THE PRV POSITION SWITCH OR TO THE OVERPRESSURE SWITCH
7. BLEED AIR CONTROL CARD OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:

1  **WARNING:** FAILURE TO FOLLOW AMM 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

CLOSE THE FAN DUCT COWL AND THE THRUST REVERSERS (AMM 78-31-00/201).

ACTIVATE THE THRUST REVERSERS (AMM 78-31-00/201).

2  NOT USED

3  PUT ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

EICAS Msg L (R) ENG PRV Displayed During Engine Start.
L (R) Eng BLEED Light Illuminated.
Figure 124 (Sheet 1)

EFFECTIVITY

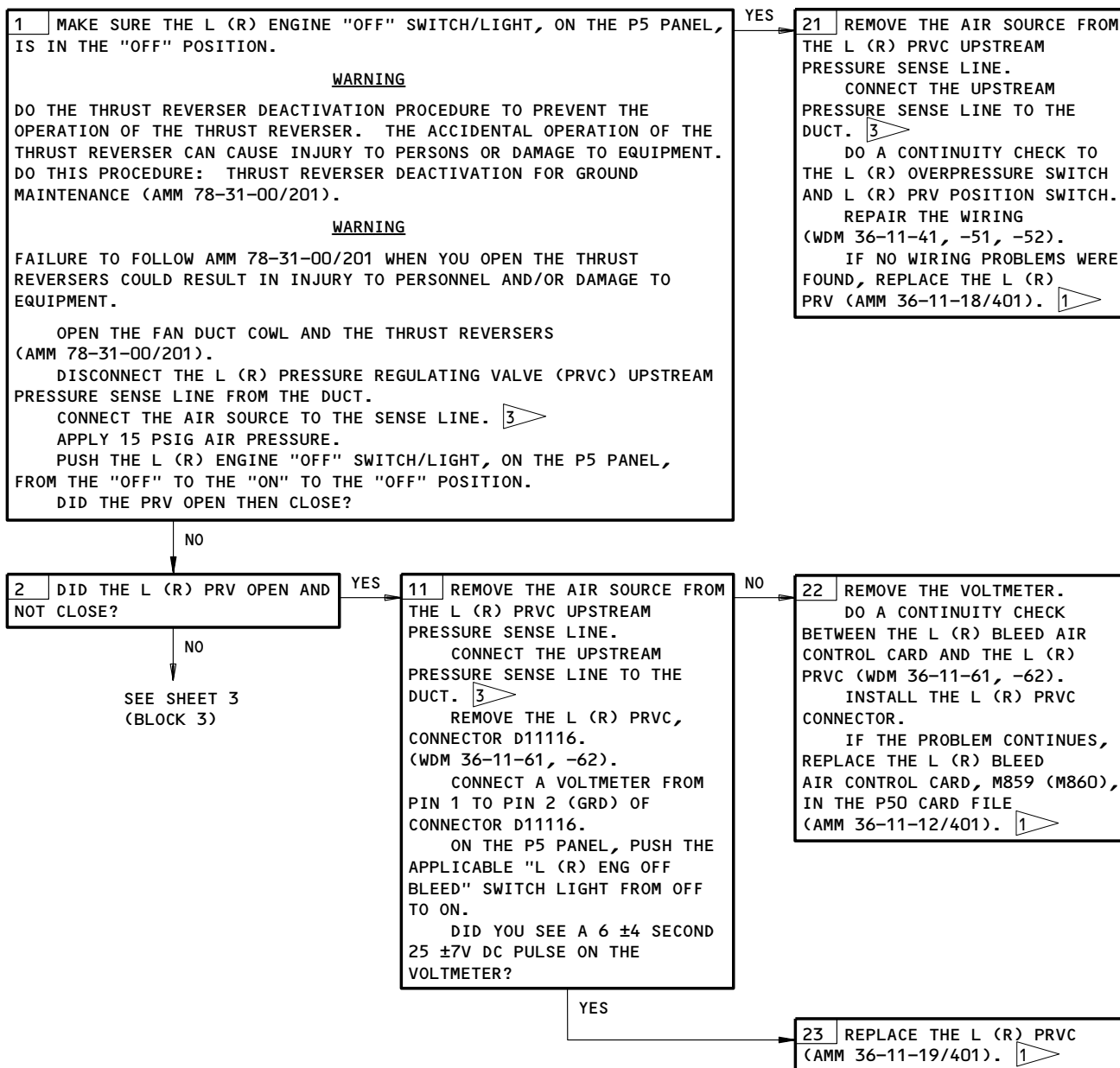
ALL

36-10-00

02B

Page 167
Aug 22/00

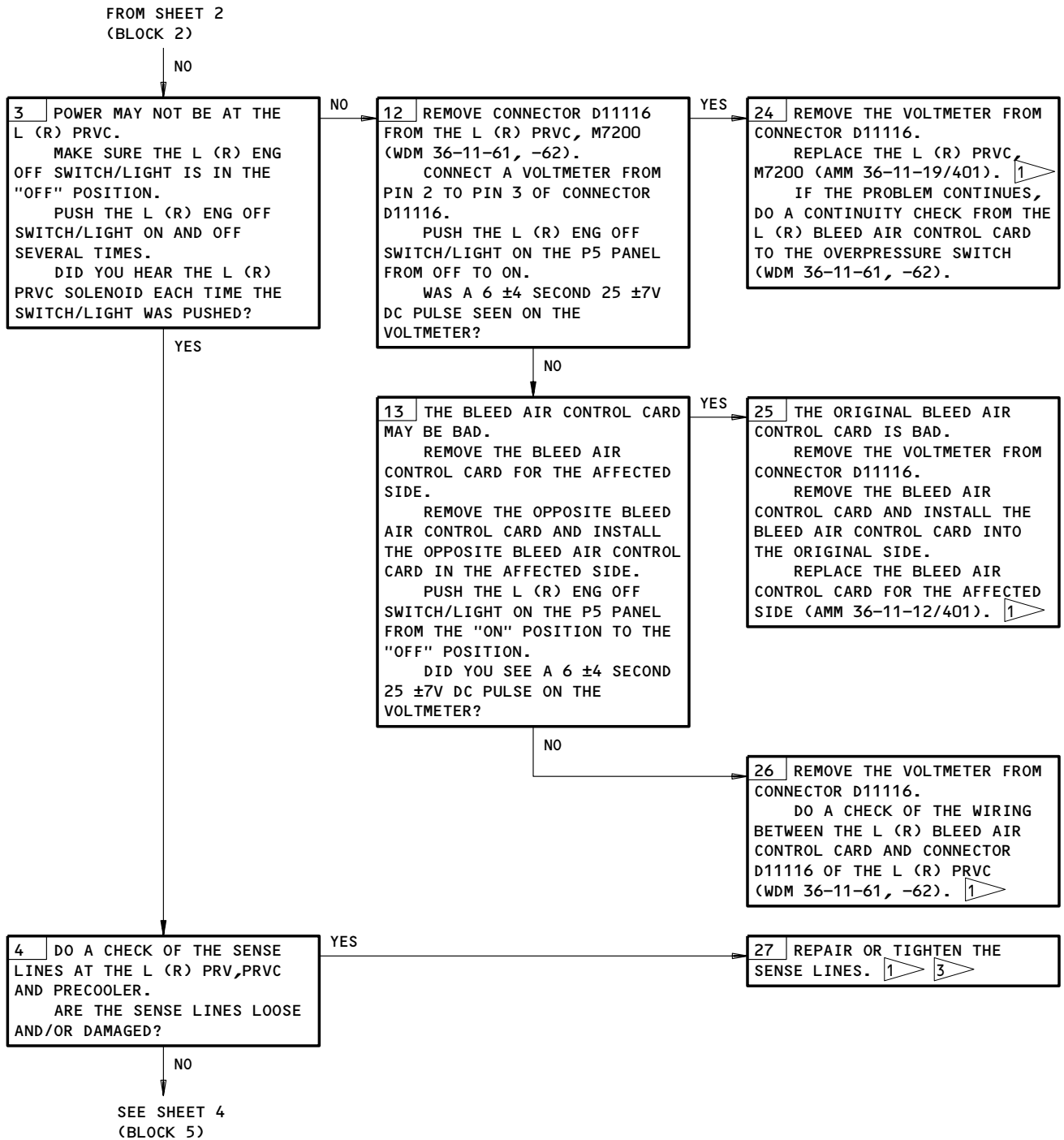
BOEING
767
FAULT ISOLATION/MAINT MANUAL



EICAS Msg L (R) ENG PRV Displayed During Engine Start.
L (R) Eng BLEED Light Illuminated.
Figure 124 (Sheet 2)

EFFECTIVITY	
	ALL

36-10-00



EICAS Msg L (R) ENG PRV Displayed During Engine Start.
L (R) Eng BLEED Light Illuminated
Figure 124 (Sheet 3)

EFFECTIVITY

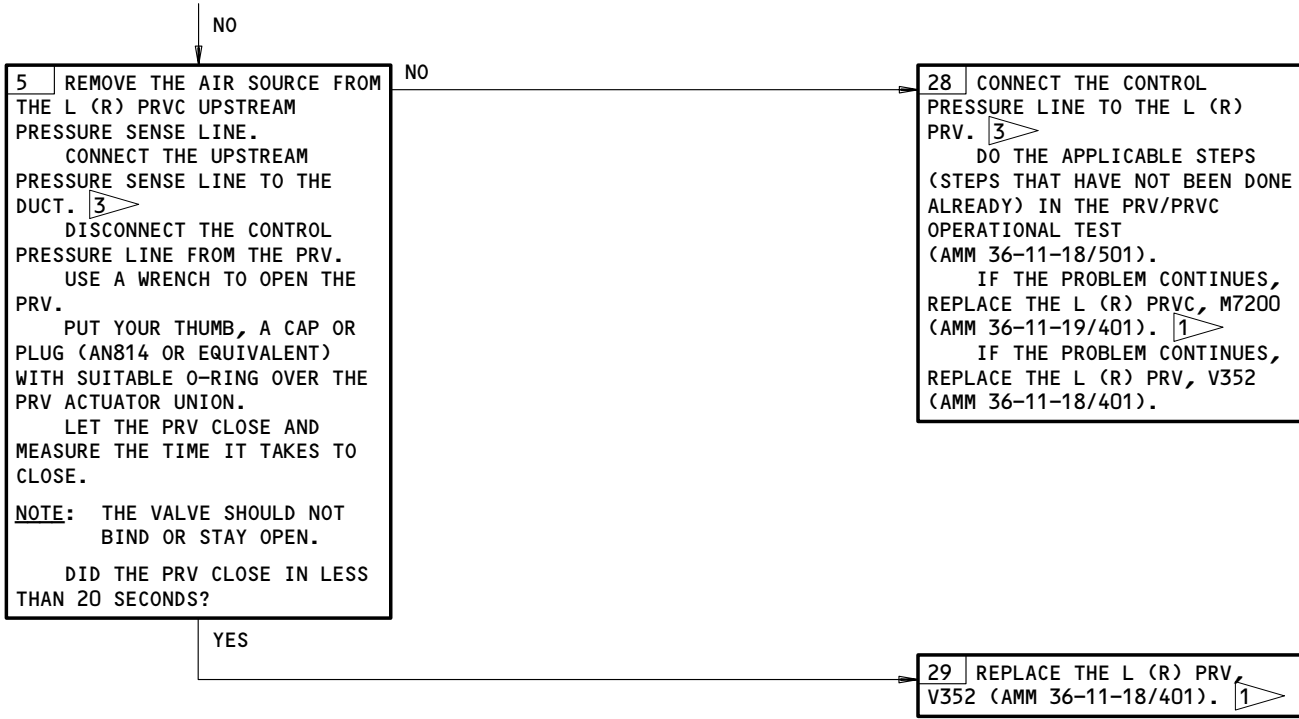
ALL

36-10-00

01B

Page 169
Aug 22/00

FROM SHEET 3
(BLOCK 4)



EICAS Msg L (R) ENG PRV Displayed During Engine Start.
L (R) Eng BLEED Light Illuminated.
Figure 124 (Sheet 4)

EFFECTIVITY

ALL

36-10-00

EICAS MSGS "L (R)
ENG PRV" AND "L (R)
ENG BLD OVHT"
DISPLAYED. L (R)
ENG "BLEED" AND
"OVHT" LIGHTS
ILLUMINATED.



DESCRIPTION:

1. "L (R) ENG PRV" AND "BLEED" (THE PRV IS NOT CLOSED WHEN IT HAS BEEN COMMANDED CLOSED OR A PRV FAILURE RESULTING IN AN OVERPRESSURE CONDITION).
2. "L (R) ENG BLD OVHT" AND "OVHT" (THIS IS AN OVERHEAT CONDITION [$>490^{\circ}\text{F}$] AND THE PRV IS CLOSED).

POSSIBLE CAUSES:

1. "L (R) ENG PRV" AND "BLEED"
 - A. LOOSE PRVC SENSE LINE B-NUT AT THE PRECOOLER OR PRVC
 - B. BAD PRVC (THE PRVC IS NOT REGULATING CORRECTLY) PRV/PRVC ADJUSTMENT/TEST (AMM 36-11-18/501)
 - C. BAD PRV (POSITION SWITCH CALIBRATION, THE PRV IS STUCK OPEN) PRV/PRVC ADJUSTMENT/TEST (AMM 36-11-18/501)
 - D. DURING A NO PACKS TAKEOFF. TOO MUCH LEAKAGE PAST THE PRV BUTTERFLY
 - E. BAD OVERPRESSURE SWITCH
 - F. OPEN WIRE TO THE PRV POSITION SWITCH OR TO THE OVERPRESSURE SWITCH
 - G. BLEED AIR CONTROL CARD AND/OR ELECTRICAL CIRCUIT PROBLEMS.
2. "L (R) ENG BLD OVHT" AND "OVHT"
 - A. BAD FATS OR FAMV, ADJUSTMENT/TEST (AMM 36-11-16/501)
 - B. HPC SWITCHOVER OCCURS HIGH, JUST BELOW THE 127 PSI "BLEED" LIGHT INDICATION
 - C. BAD OVERTEMPERATURE SWITCH
 - D. STUCK OPEN CAI VALVE (ALLOWS HIGHER BLEED FLOW)
 - E. STUCK OPEN PRSOV (ALLOWS HIGHER BLEED FLOW), ADJUSTMENT/TEST (AMM 36-11-09/501)
 - F. OPEN WIRE TO THE OVERTEMPERATURE SWITCH
 - G. BLEED AIR CONTROL CARD AND/OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated.
Figure 125 (Sheet 1)

EFFECTIVITY

ALL

36-10-00

02B

Page 171
Aug 22/00

FROM SHEET 1
(BLOCK 1)

NO

2 WARNING

DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

DO THIS PROCEDURE: THRUST REVERSER DEACTIVATION FOR GROUND MAINTENANCE (AMM 78-31-00/201).

WARNING


MAKE SURE YOU OPEN THE FAN AND CORE COWL PANELS CORRECTLY AMM 78-31-00/201 BEFORE YOU OPEN THE FAN DUCT COWL AND THRUST REVERSER. FAILURE TO FOLLOW THE INSTRUCTIONS IN AMM 78-31-00/201 CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

OPEN THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

MAKE SURE THE VISUAL POSITION INDICATOR ON THE L (R) PRESSURE REGULATING VALVE (PRV), V352, SHOWS THE PRV IS CLOSED.

WAS THE PRV CLOSED?

NO

22 REPLACE THE L (R) PRV V352 (AMM 36-11-18/401). 


YES

2A LOOK AT THE POSITION OF THE L (R) COWL ANTI-ICE VALVE, L (R) HPSOV AND L (R) PRSOV. IS THE L (R) COWL ANTI-ICE VALVE, L (R) HPSOV AND/OR L (R) PRSOV CLOSED?

NO


22A REPLACE THE APPLICABLE VALVE:

- COWL ANTI-ICE VALVE (AMM 30-21-03/401)
- PRSOV (AMM 36-11-09/201)
- HPSOV (AMM 36-11-07/401)



YES

SEE SHEET 3
(BLOCK 3)

 WARNING: MAKE SURE YOU CLOSE THE FAN AND CORE COWL PANELS CORRECTLY (AMM 78-31-00/201) BEFORE YOU CLOSE THE FAN DUCT COWL AND THE THRUST REVERSER. FAILURE TO FOLLOW THE INSTRUCTIONS IN AMM 78-31-00/201 CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

CLOSE THE FAN DUCT COWL AND THE THRUST REVERSERS (AMM 78-31-00/201).

DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).

EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated.
Figure 125 (Sheet 2)

EFFECTIVITY

ALL

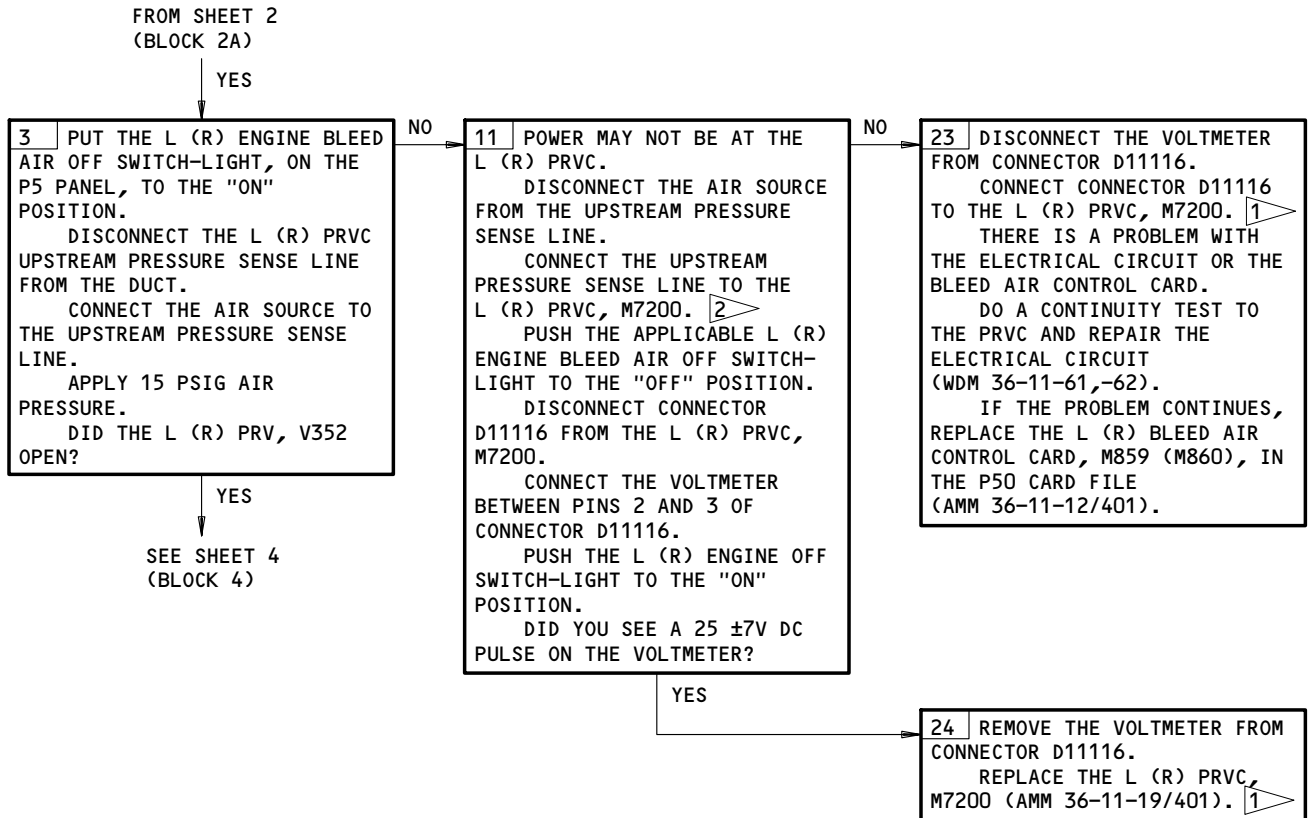
36-10-00

02B

Page 172
Aug 22/00

F78320

BOEING
767
FAULT ISOLATION/MAINT MANUAL



2 PUT ANTI-SEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED
and OVHT Lights Illuminated.
Figure 125 (Sheet 3)

EFFECTIVITY

ALL

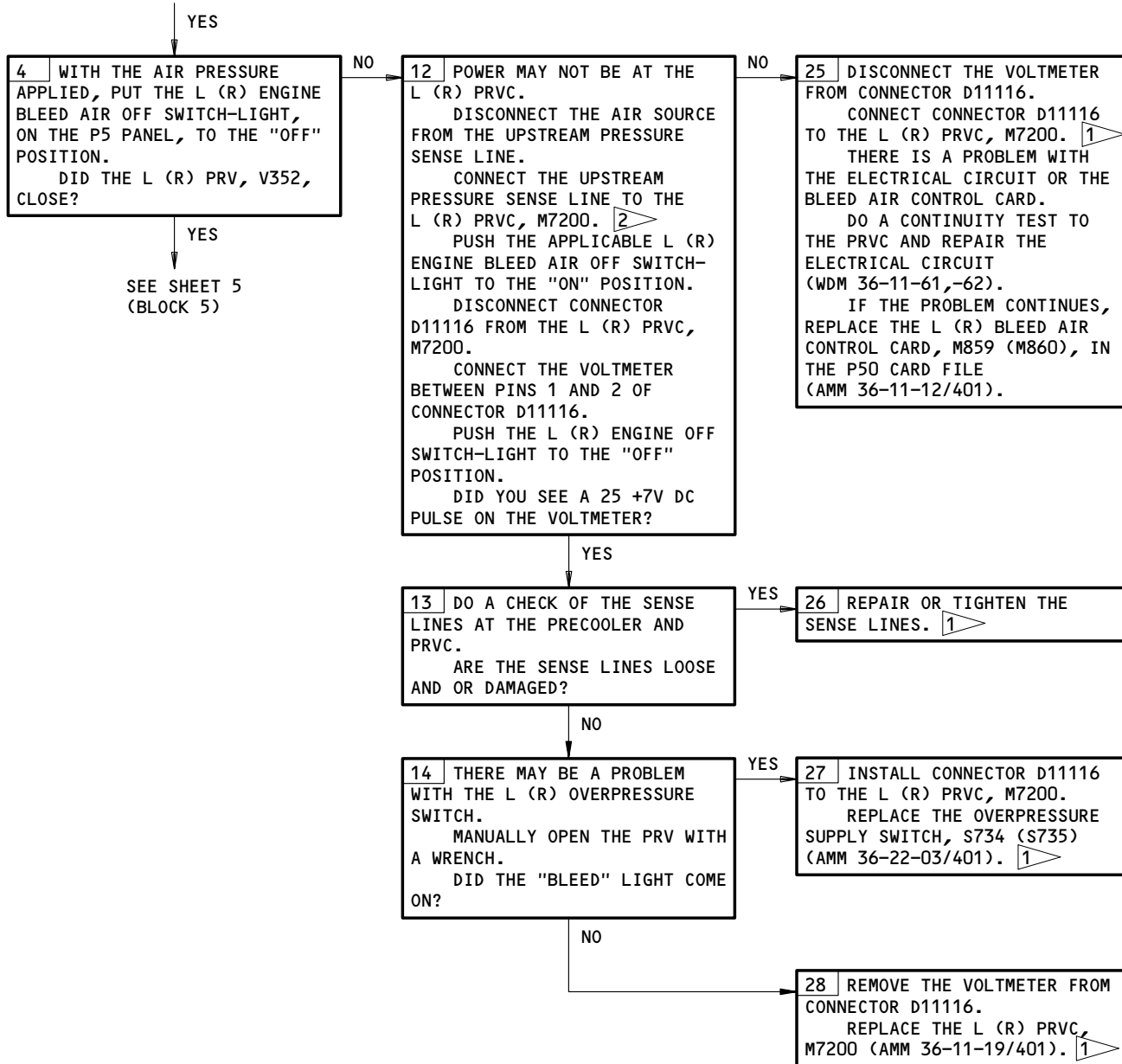
36-10-00

02B

Page 173
Aug 22/00

BOEING
767
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3
(BLOCK 3)



EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated.
Figure 125 (Sheet 4)

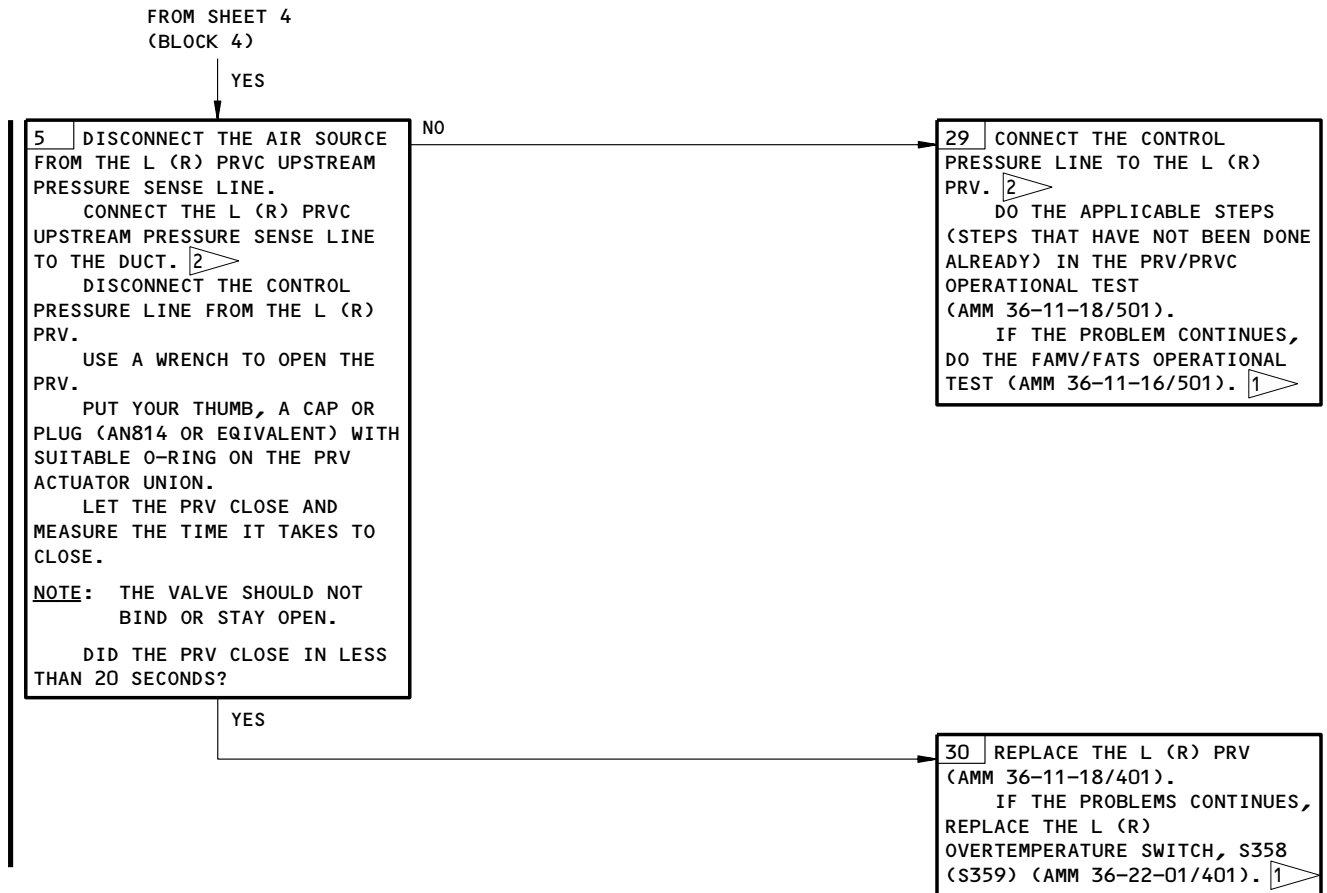
EFFECTIVITY

ALL

36-10-00

02B

Page 174
Aug 22/00



EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated.

Figure 125 (Sheet 5)

EFFECTIVITY	ALL
-------------	-----

36-10-00

EICAS MSGS "L (R) ENG PRV" AND "L (R) ENG BLD OVHT" DISPLAYED. L (R) ENG "BLEED" AND "OVHT" LIGHTS ILLUMINATED. DUCT PRESSURE (HIGH, LOW).



DESCRIPTION:

1. "L (R) ENG PRV" AND "BLEED" (THE PRV IS NOT CLOSED WHEN IT HAS BEEN COMMANDED CLOSED OR A PRV FAILURE RESULTING IN AN OVERPRESSURE CONDITION).
2. "L (R) ENG BLD OVHT" AND "OVHT" (THIS IS AN OVERHEAT CONDITION [$>490^{\circ}\text{F}$] AND THE PRV IS CLOSED).

POSSIBLE CAUSES:

1. "L (R) ENG PRV" AND "BLEED"
 - A. LOOSE PRVC SENSE LINE B-NUT AT THE PRECOOLER OR PRVC
 - B. BAD PRVC (THE PRVC IS NOT REGULATING CORRECTLY) PRV/PRVC ADJUSTMENT/TEST (AMM 36-11-18/501)
 - C. BAD PRV (POSITION SWITCH CALIBRATION, THE PRV IS STUCK OPEN) PRV/PRVC ADJUSTMENT/TEST (AMM 36-11-18/501)
 - D. DURING A NO PACKS TAKEOFF. TOO MUCH LEAKAGE PAST THE PRV BUTTERFLY
 - E. BAD OVERPRESSURE SWITCH
 - F. OPEN WIRE TO THE PRV POSITION SWITCH OR TO THE OVERPRESSURE SWITCH
 - G. BLEED AIR CONTROL CARD AND/OR ELECTRICAL CIRCUIT PROBLEMS.
2. "L (R) ENG BLD OVHT" AND "OVHT"
 - A. BAD FATS OR FAMV, ADJUSTMENT/TEST (AMM 36-11-16/501)
 - B. HPC SWITCHOVER OCCURS HIGH, JUST BELOW THE 127 PSI "BLEED" LIGHT INDICATION
 - C. BAD OVERTEMPERATURE SWITCH
 - D. STUCK OPEN CAI VALVE (ALLOWS HIGHER BLEED FLOW)
 - E. STUCK OPEN PRSOV (ALLOWS HIGHER BLEED FLOW), ADJUSTMENT/TEST (AMM 36-11-09/501)
 - F. OPEN WIRE TO THE OVERTEMPERATURE SWITCH
 - G. BLEED AIR CONTROL CARD AND/OR ELECTRICAL CIRCUIT PROBLEMS.

FAULT ISOLATION:



EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated. Duct Pressure (High, Low).
Figure 126 (Sheet 1)

EFFECTIVITY

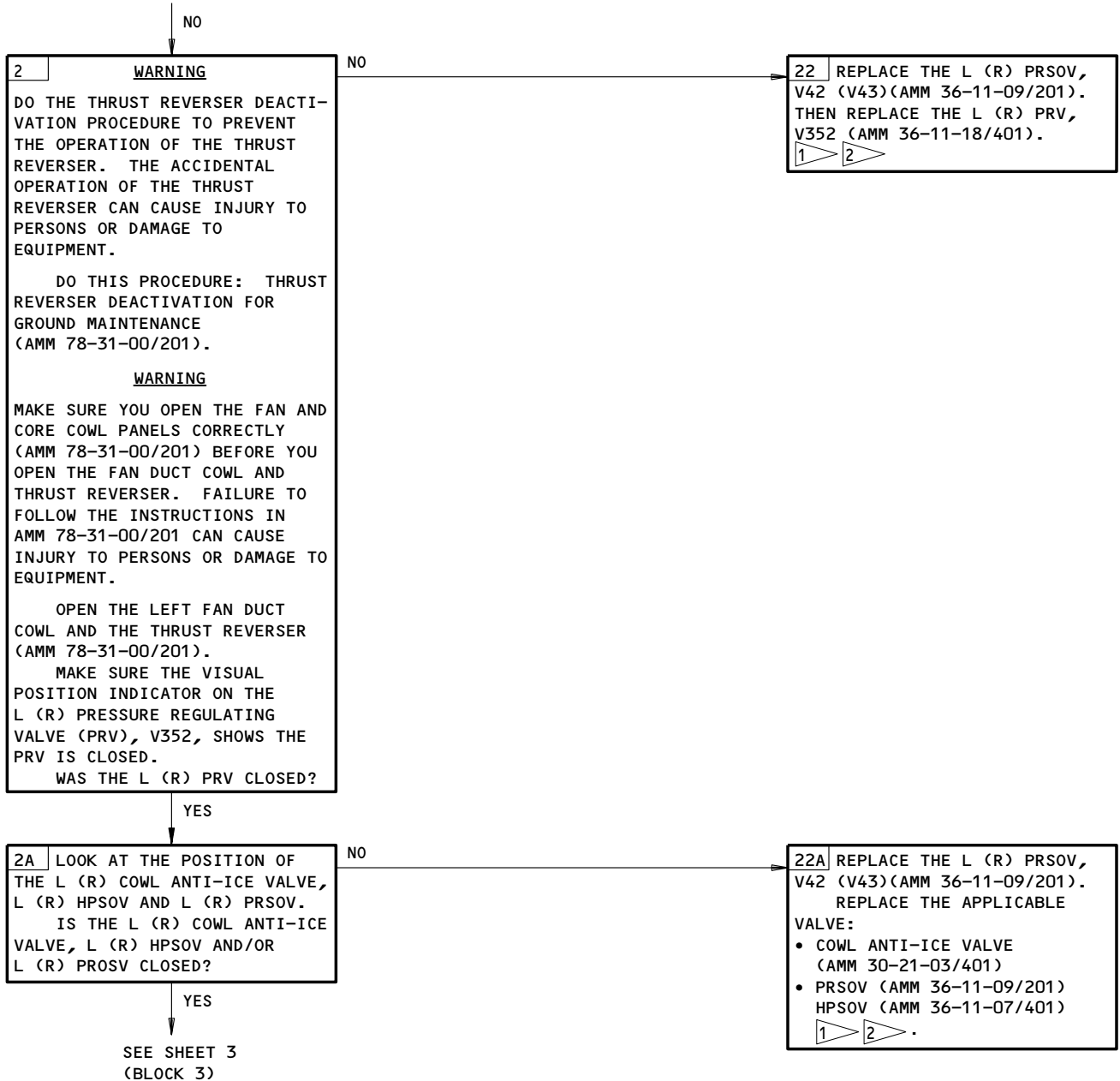
ALL

36-10-00

02B

Page 176
Aug 22/00

FROM SHEET 1
(BLOCK 1)



- 1 **WARNING:** MAKE SURE YOU CLOSE THE FAN AND CORE COWL PANELS CORRECTLY (AMM 78-31-00/201) BEFORE YOU CLOSE THE FAN DUCT COWL AND THRUST REVERSER. FAILURE TO FOLLOW THE INSTRUCTIONS IN AMM 78-31-00/201 CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.
- CLOSE THE LEFT (RIGHT) ENGINE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).
- 2 DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).

EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated. Duct Pressure (High, Low).
Figure 126 (Sheet 2)

EFFECTIVITY

ALL

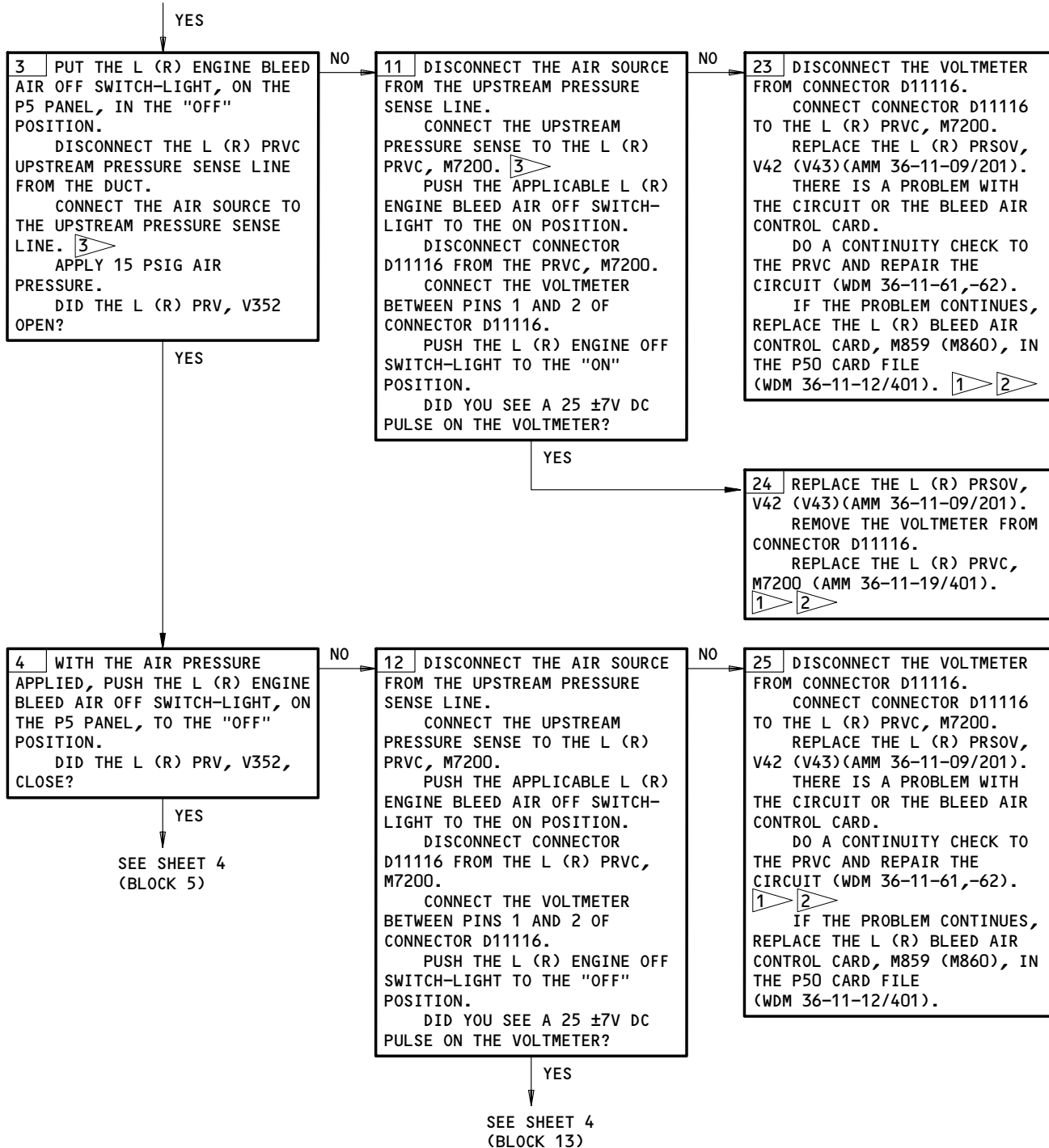
36-10-00

02B

Page 177
Aug 22/00

BOEING
767
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2
(BLOCK 2A)



3 PUT THE ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated. Duct Pressure (High, Low).
Figure 126 (Sheet 3)

EFFECTIVITY

ALL

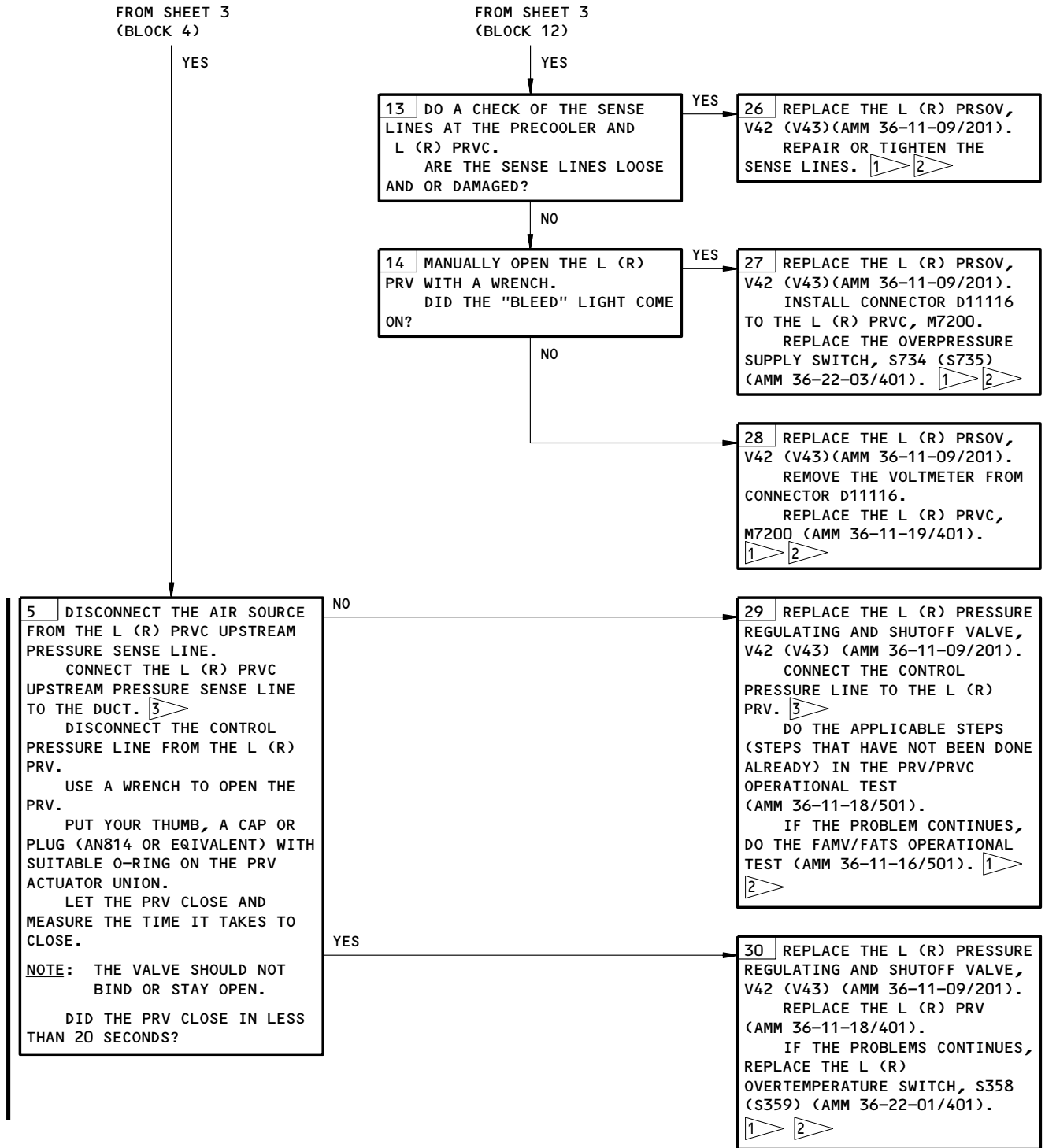
36-10-00

02B

Page 178
Aug 22/00

F78361

BOEING
767
FAULT ISOLATION/MAINT MANUAL



EICAS Msgs L (R) ENG PRV and L (R) ENG BLD OVHT Displayed. L (R) Eng BLEED and OVHT Lights Illuminated. Duct Pressure (High, Low).

Figure 126 (Sheet 4)

EFFECTIVITY

ALL

36-10-00

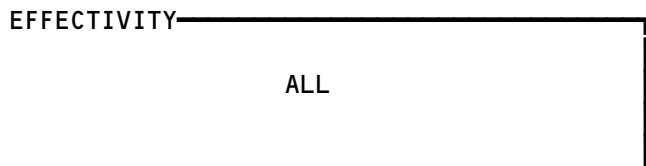
02B.1

Page 179

Aug 22/09

F78374

Not Used
Figure 127



36-10-00

03B

Page 180
Aug 22/00

C94916

**PRESSURE REGULATING
VALVE PROBLEMS WHEN
ENGINE COWL ANTI-ICE
IS SELECTED ON**



POSSIBLE CAUSES:

1. SENSE LINES
2. PRESSURE REGULATING VALVE (PRV)
3. PRESSURE REGULATING VALVE CONTROLLER (PRC)
4. BLEED AIR CONTROL CARD
5. ENGINE INLET TAI VALVE
6. ELECTRICAL CIRCUIT.

FAULT ISOLATION:

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

11S10,11S11,11S19,11S20,11T10,11T19

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

ELECTRICAL POWER IS ON (AMM 24-22-00/201)

PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

EQUIPMENT:

AIR SOURCE - 0-15 PSIG, COMMERCIALY AVAILABLE

CONSUMABLE MATERIALS:

ANTISEIZE COMPOUND, HIGH TEMPERATURE-COMMERCIALY
AVAILABLE

Pressure Regulating Valve Problems When Engine Cowl Anti-Ice is Selected On
Figure 128 (Sheet 1)

EFFECTIVITY	ALL
-------------	-----

36-10-00

03B

Page 180A
Aug 22/00

BOEING
767
FAULT ISOLATION/MAINT MANUAL

1 PUT THE L (R) ENG ANTI-ICE SWITCH-LIGHT, S1 (S2), ON THE P5 PANEL IN THE ON POSITION.
PUT THE L (R) ENG BLEED AIR "OFF" SWITCH-LIGHT ON THE P5 PANEL IN THE "OFF" POSITION.

WARNING

DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

DO THIS PROCEDURE: THRUST REVERSER DEACTIVATION FOR GROUND MAINTENANCE (AMM 78-31-00/201).

WARNING

MAKE SURE YOU OPEN THE FAN AND CORE COWL PANELS CORRECTLY (AMM 78-31-00/201) BEFORE YOU OPEN THE FAN DUCT COWL AND THRUST REVERSER. FAILURE TO FOLLOW THE INSTRUCTIONS IN (AMM 78-31-00/201) CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

OPEN THE APPLICABLE LEFT (RIGHT) ENGINE LEFT FAN DUCT COWL AND THE THRUST REVERSER 415AL (425AL)(AMM 78-31-00/201).
DISCONNECT CONNECTOR D11116 FROM THE LEFT (RIGHT) PRV CONTROLLER, M7200.
CONNECT THE VOLTMETER BETWEEN PINS 1 AND 4 OF CONNECTOR D11116.
PUT THE LEFT (RIGHT) ENG ANTI-ICE SWITCH-LIGHT, S1 (S2), ON THE P5 PANEL IN THE OFF POSITION THEN THE ON POSITION.
LOOK FOR A 6 ±4 SECOND 25 ±7V DC PULSE WHEN YOU PUT THE SWITCH-LIGHT IN THE ON POSITION.
DID YOU SEE A 6 ±4 SECOND 25 ±7V DC PULSE ON THE VOLTMETER?

NO → 41 REMOVE THE VOLTMETER FROM CONNECTOR D11116.
INSTALL CONNECTOR D11116 TO THE LEFT (RIGHT) PRV CONTROLLER, M7200. 1
DO THIS PROCEDURE: THRUST REVERSERS ACTIVATION (AMM 78-31-00/201).
REPLACE THE L (R) ENGINE BLEEN AIR CONTROL CARD, M859 (M860), IN THE P50 CARD FILE (AMM 36-11-12/401).
IF THE PROBLEM CONTINUES, REPLACE THE L (R) ENG BLEED AIR "OFF" SWITCH-LIGHT, S4 (S6), IN THE BLEED AIR SUPPLY PANEL ON THE P5 PANEL (WDM 36-11-61,-62).

YES
↓
SEE SHEET 3
(BLOCK 2)

1 WARNING: MAKE SURE YOU CLOSE THE FAN AND CORE COWL PANELS CORRECTLY (AMM 78-31-00/201) BEFORE YOU CLOSE THE FAN DUCT COWL AND THRUST REVERSER. FAILURE TO FOLLOW THE INSTRUCTIONS IN (AMM 78-31-00/201) CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

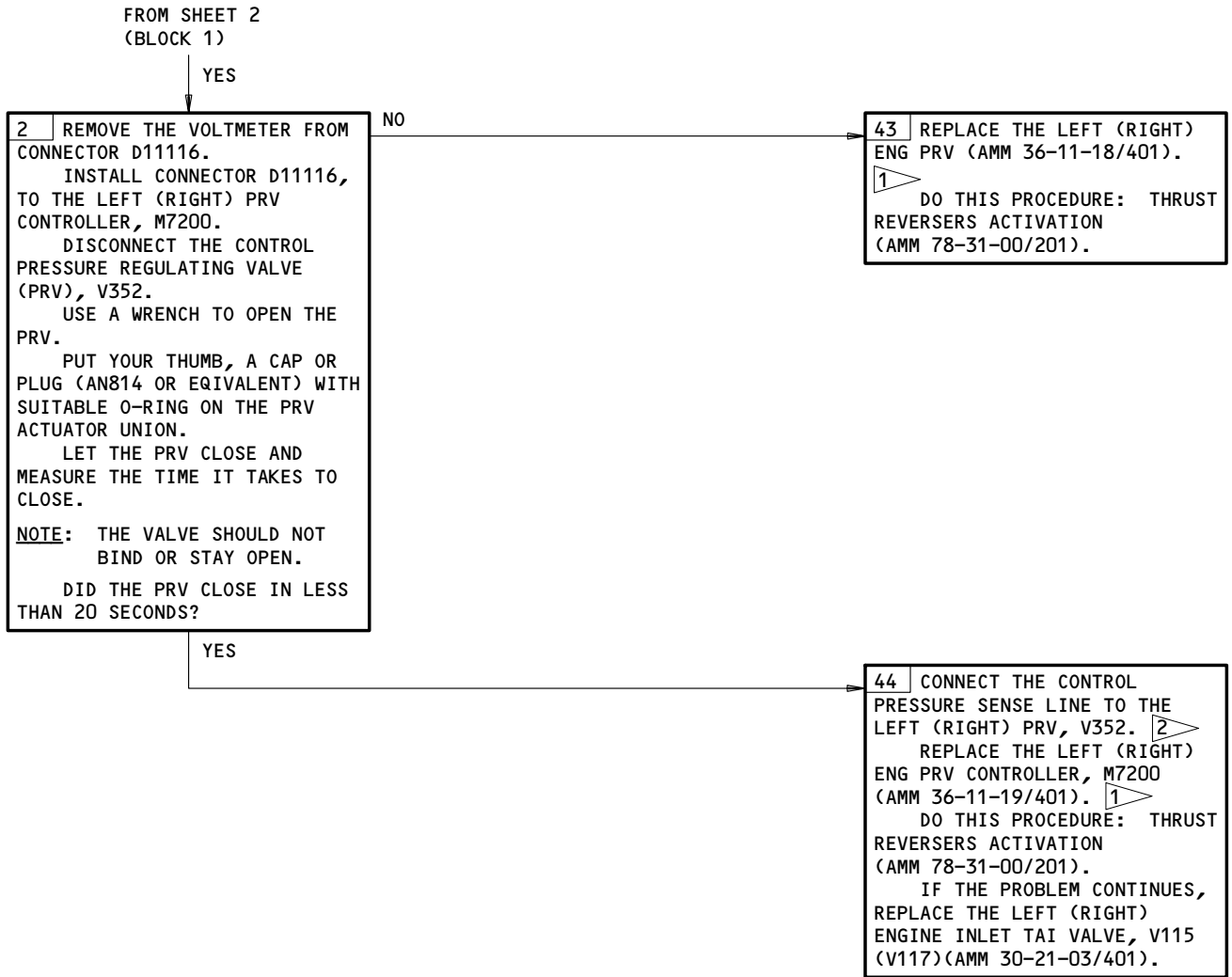
CLOSE THE LEFT FAN DUCT COWL AND THE THRUST REVERSER (AMM 78-31-00/201).

Pressure Regulating Valve Problems When Engine Cowl Anti-Ice is Selected On
Figure 128 (Sheet 2)

EFFECTIVITY	ALL
-------------	-----

36-10-00

E92463



2 PUT ANTISEIZE COMPOUND ON THE THREADS OF THE NUT AND THE NIPPLE.

Pressure Regulating Valve Problems When Engine Cowl Anti-Ice Is Selected On
Figure 128 (Sheet 3)

EFFECTIVITY	ALL
-------------	-----

36-10-00

03B Page 180C
Aug 22/00

BOEING
767
FAULT ISOLATION/MAINT MANUAL

PNEUMATIC INDICATING

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
BULB - LEFT PRECOOLER TEMPERATURE, TS350	2	1	434AL, L ENG STRUT	36-22-02
BULB - RIGHT PRECOOLER TEMPERATURE, TS351	2	1	444AL, R ENG STRUT	36-22-02
CIRCUIT BREAKER -	1		FLT COMPT, P11	
CONTROL, LEFT AIR SUPPLY ENG BLEED, C1339		1	11S11	*
CONTROL, RIGHT AIR SUPPLY ENG BLEED, C1340		1	11S20	*
IND, AIR SUPPLY DUCT PRESS PWR, C4221		1	11S17	*
IND, LEFT AIR SUPPLY DUCT PRESS, C1332		1	11S16	*
IND, LEFT AIR SUPPLY ENG BLEED, C1343		1	11S10	*
IND, RIGHT AIR SUPPLY DUCT PRESS, C1342		1	11S25	*
IND, RIGHT AIR SUPPLY ENG BLEED, C1344		1	11S19	*
PRESS DUCT				*
CIRCUIT BREAKER -	1		119AL, MAIN EQUIP CTR, P36	
BITE, AIR SUPPLY, C1341		1	36L7 OR 36K7	*
INDICATOR - DUCT PRESSURE, N122	1	1	FLT COMPT, P5	36-21-02
MODULE - AIR SUPPLY BITE, M129	1	1	119AL, MAIN EQUIP CTR, E3	36-23-01
SENSOR - LEFT PRV EXIT PRESSURE, M1842	3	1	511NB, WING ACCESS PANEL	36-21-08
SENSOR - RIGHT PRV EXIT PRESSURE, M1843	3	1	611NB, WING ACCESS PANEL	36-21-08
SWITCH - LEFT AIR SUPPLY THERMAL OVERTEMPERATURE, S358	2	1	434AL, L ENG STRUT	36-22-01
SWITCH - LEFT OVERPRESSURE, S734	2	1	511NB, WING ACCESS PANEL	36-21-03
SWITCH - RIGHT AIR SUPPLY THERMAL OVERTEMPERATURE, S359	2	1	444AL, R ENG STRUT	36-22-01
SWITCH - RIGHT OVERPRESSURE, S735	2	1	611NB, WING ACCESS PANEL	36-21-03
TRANSDUCER - LEFT DUCT PRESSURE, M1088	4	1	193KL, ECS BAY	36-21-01
TRANSDUCER - RIGHT DUCT PRESSURE, M1089	4	1	194KR, ECS BAY	36-21-01

* SEE THE WDM EQUIPMENT LIST

Pneumatic Indicating - Component Index
Figure 101

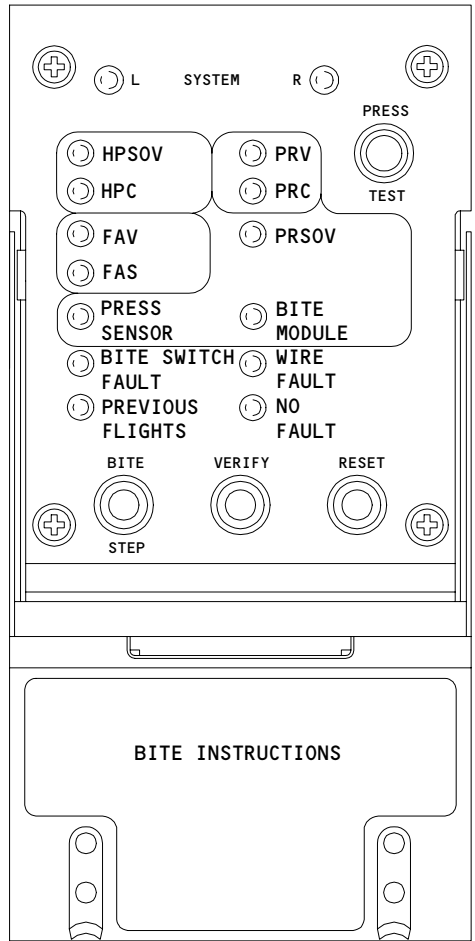
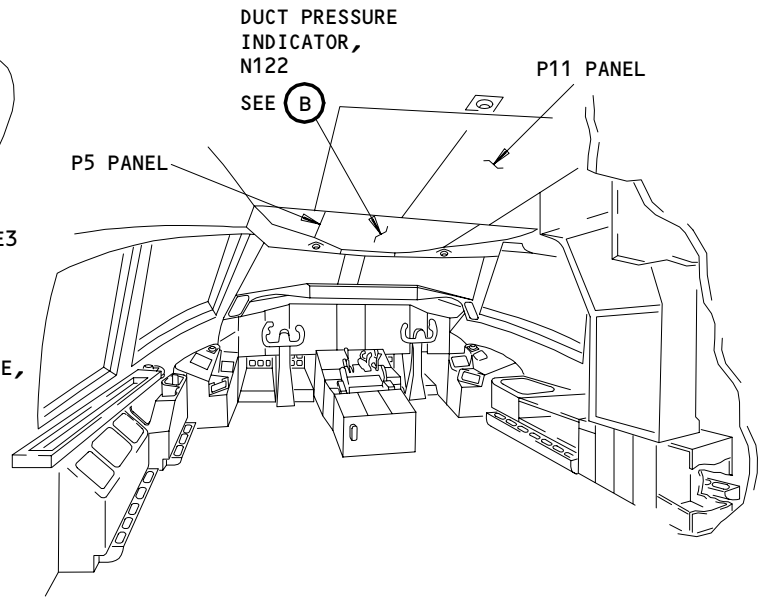
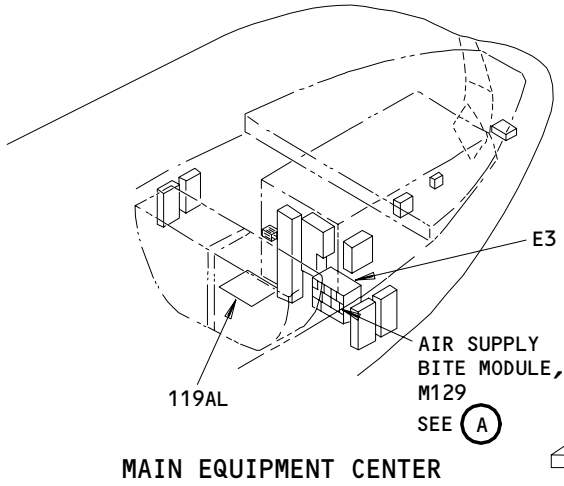
EFFECTIVITY

ALL

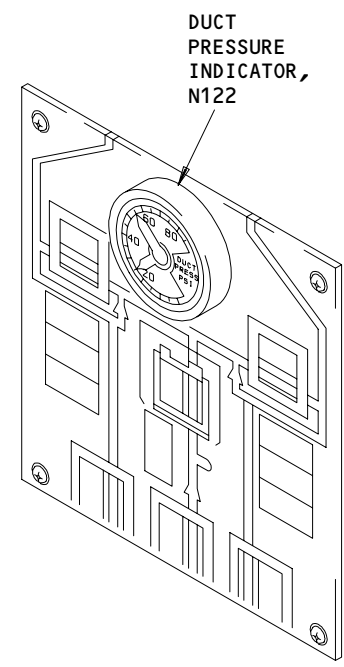
36-20-00

BOEING

767 FAULT ISOLATION/MAINT MANUAL



AIR SUPPLY BITE MODULE, M129
(A)



DUCT PRESSURE INDICATOR, N122
(B)

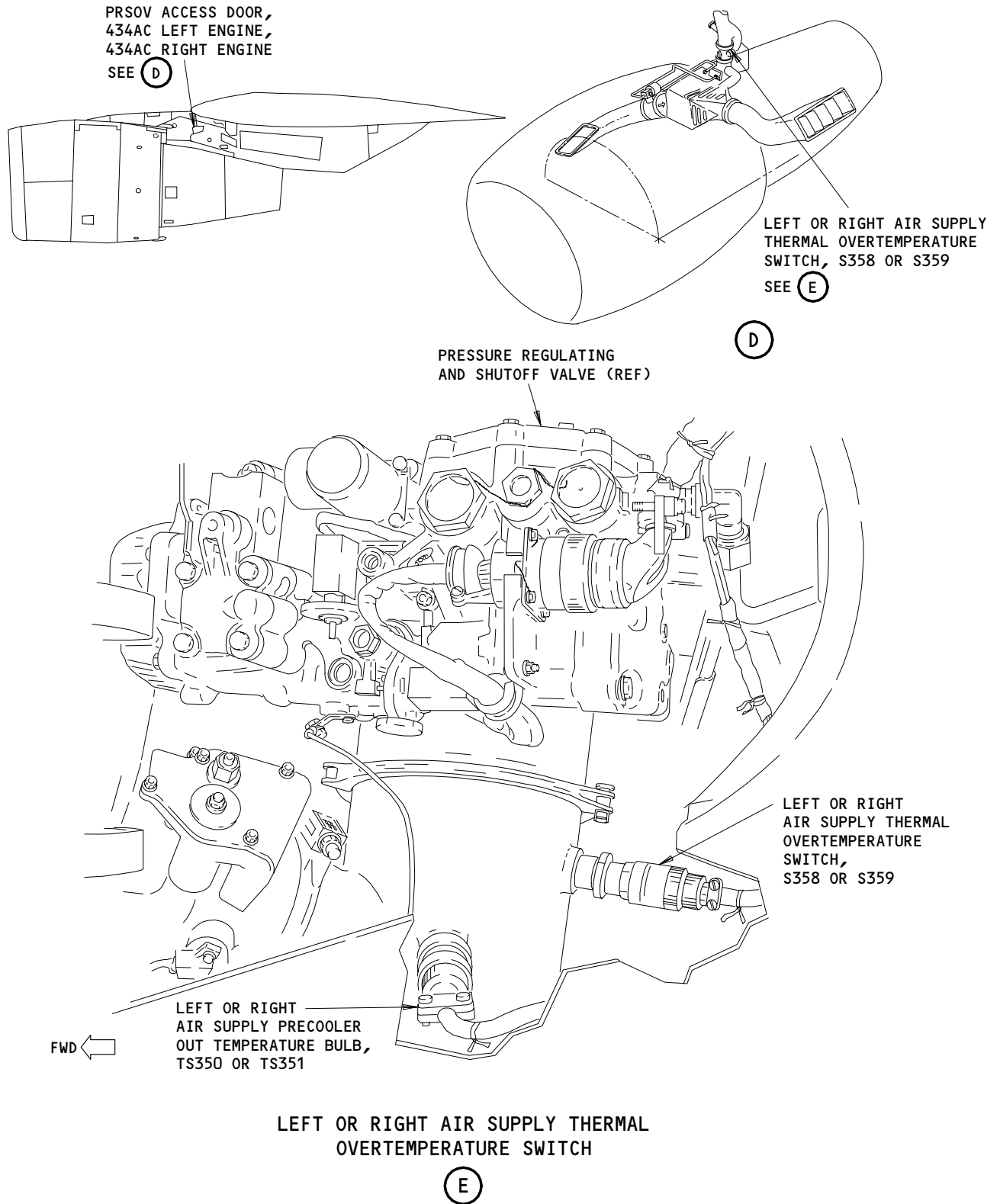
**Pneumatic Indicating - Component Location
Figure 102 (Sheet 1)**

EFFECTIVITY	ALL
--------------------	------------

36-20-00

946496

BOEING
767
FAULT ISOLATION/MAINT MANUAL



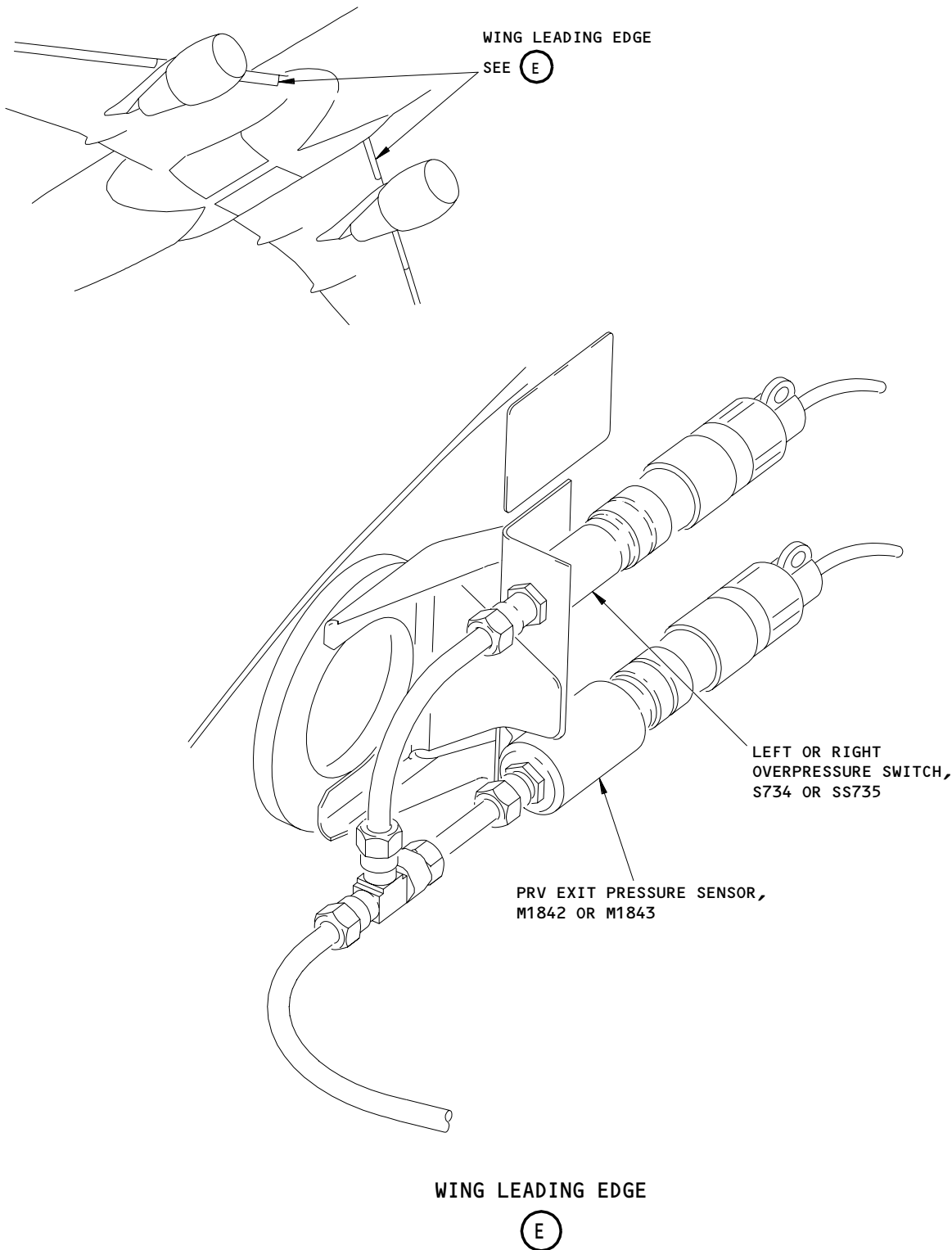
Pneumatic Indicating - Component Location
Figure 102 (Sheet 2)

EFFECTIVITY

ALL

36-20-00

BOEING
 767
 FAULT ISOLATION/MAINT MANUAL

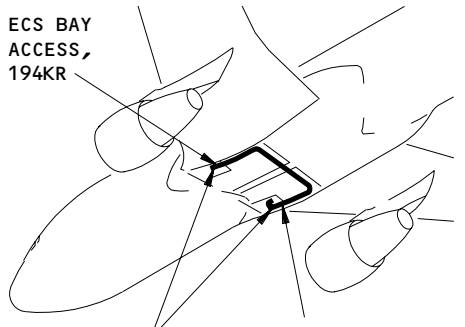


Pneumatic Indicating - Component Location
 Figure 102 (Sheet 3)

EFFECTIVITY	
	ALL

36-20-00

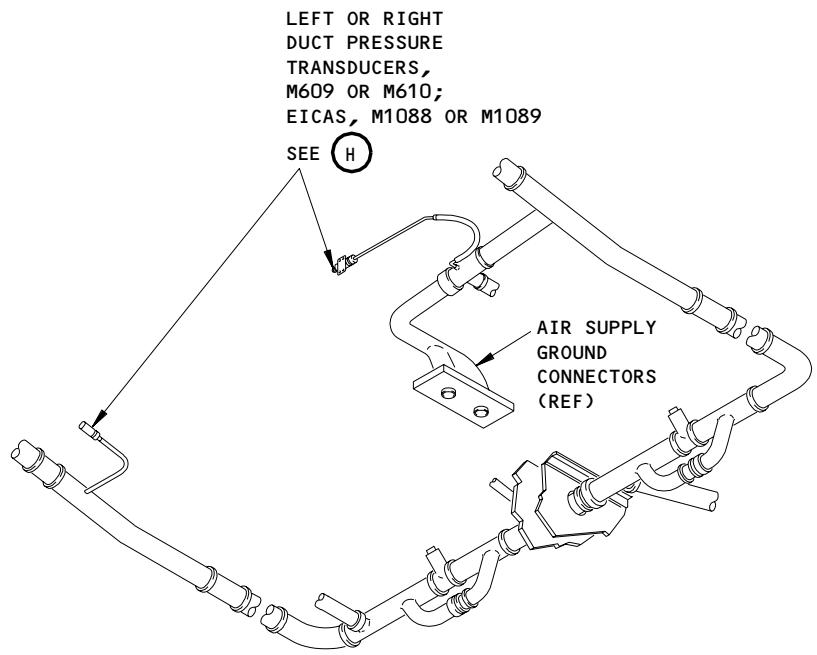
BOEING
767
FAULT ISOLATION/MAINT MANUAL



ECS BAY ACCESS,
194KR

LEFT OR RIGHT DUCT PRESSURE TRANSDUCERS,
M609 OR M610;
EICAS, M1088 OR M1089
SEE (G)

ECS BAY ACCESS,
193KL

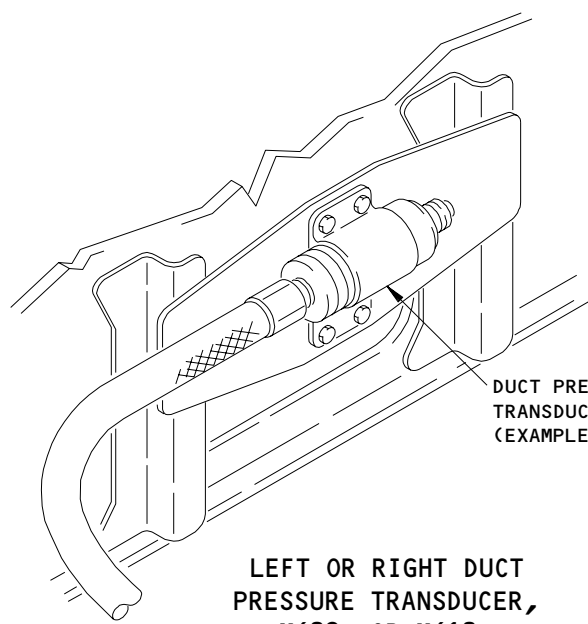


LEFT OR RIGHT DUCT PRESSURE TRANSDUCERS,
M609 OR M610;
EICAS, M1088 OR M1089

SEE (H)

AIR SUPPLY GROUND CONNECTORS (REF)

(G)



DUCT PRESSURE TRANSDUCER (EXAMPLE)

LEFT OR RIGHT DUCT PRESSURE TRANSDUCER,
M609, OR M610;
EICAS, M1088 OR M1089

(H)

Pneumatic Indicating - Component Location
Figure 102 (Sheet 4)

EFFECTIVITY	ALL
-------------	-----

36-20-00

05

Page 105
Aug 10/98

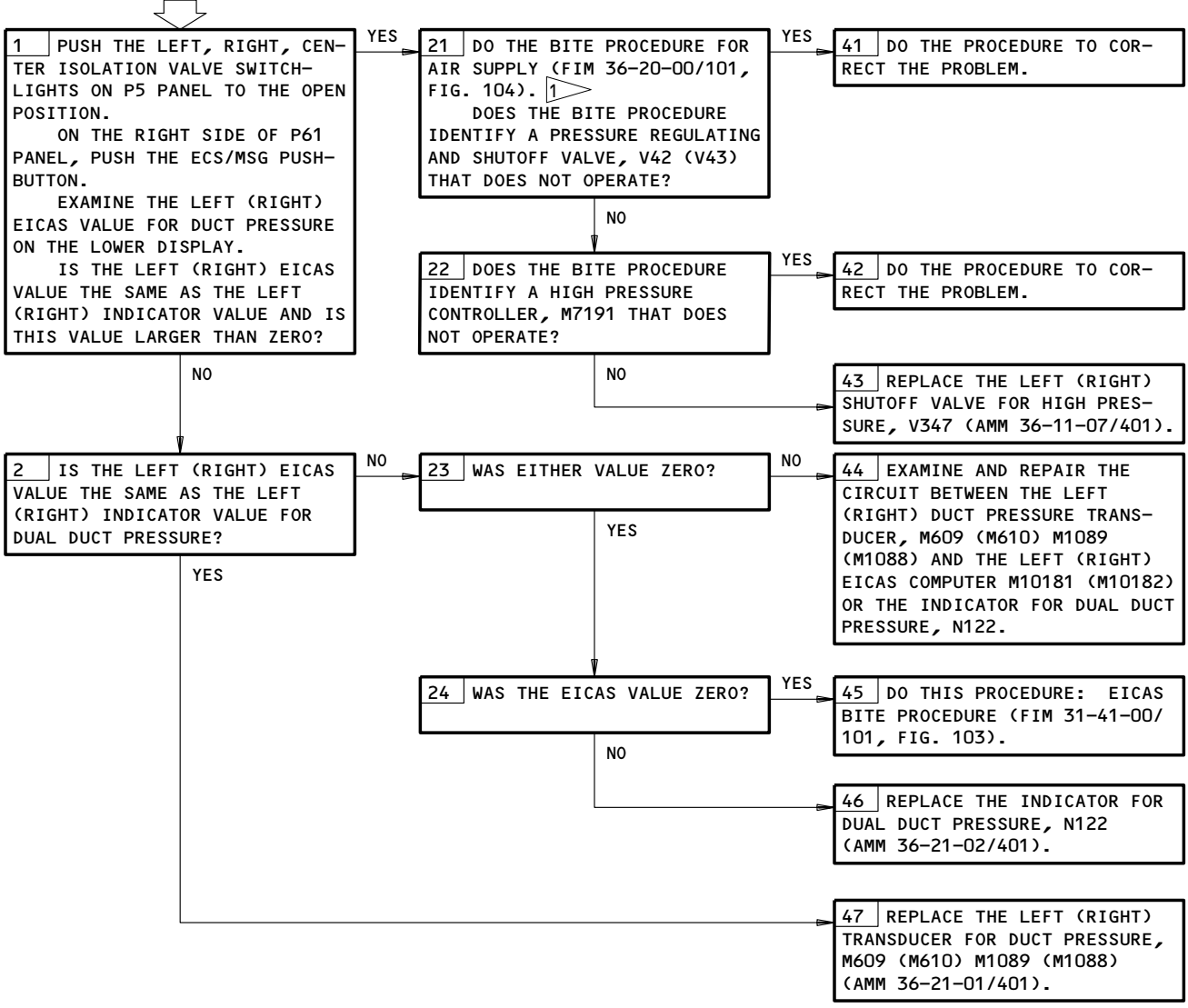
853745

**PNEUMATIC DUCT
PRESSURE INDICATING
PROBLEMS**

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S16,11S17,11S25

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC POWER IS ON (AMM 36-00-00/201)



1 DO NOT DO THE BITE PROCEDURE IF THE BITE MODULE IS PART NUMBER S210T120-47 (HAMILTON STANDARD [H/S] PART NUMBER 773461-9) OR LESS. REPLACE THE LEFT (RIGHT) PRESSURE REGULATING AND SHUTOFF VALVE, V42 (V43)(AMM 36-11-09).
IF THE BITE MODULE PART NUMBER IS S210T120-67 (H/S 804401-2) OR ABOVE, DO THE BITE PROCEDURE.

Pneumatic Duct Pressure Indicating Problems
Figure 103

EFFECTIVITY	ALL
-------------	-----

36-20-00

297139

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
11S10,11S11,11S16,11S19,11S20,11S25,36L7



MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON (AMM 24-22-00/201)
PNEUMATIC DUCT PRESSURE IS ZERO (AMM 36-00-00/201)

**AIR SUPPLY BITE
PROCEDURE**

NOTE: TO PREVENT INCORRECT FAULT INDICATIONS, DO THE BITE TEST WITHOUT SYSTEM PRESSURE AND WITH THE ENGINES STOPPED.



DESCRIPTION (FOR A MORE DETAILED DESCRIPTION OF THE BITE MODULE BUTTONS SEE THE ILLUSTRATION AT THE END OF THIS PROCEDURE):

- LRU FAULT - FAILURE OF SENSOR/SWITCH IN LRU WHICH IS USED FOR SYSTEM OPERATION OR FLIGHT DECK INDICATION
- LRU WIRE FAULT  - OPEN CIRCUIT CONDITION FROM A SENSOR/SWITCH IN THE LRU WHICH IS USED FOR CONTROL OR FLIGHT DECK INDICATION
- BITE SWITCH FAULT - FAILURE OF SENSOR/SWITCH WHICH IS ONLY USED FOR THE BITE MODULE
- BITE SWITCH WIRE FAULT  - OPEN CIRCUIT CONDITION FROM A SENSOR/SWITCH WHICH IS USED FOR THE BITE MODULE
- BITE/STEP - DISPLAYS RECORDED FAULTS
- VERIFY - REAL TIME CHECK TO MAKE SURE THE LRUs ARE CONNECTED CORRECTLY AND THE VALVES ARE IN THE CORRECT POSITION WITH THE ENGINES OFF
- RESET - CLEARS THE FAULTS.

POSSIBLE CAUSES:

BITE DOES A CHECK OF THESE SYSTEM COMPONENTS:


- HIGH PRESS SOV (HIGH PRESSURE SHUTOFF VALVE)(AMM 36-11-07/401)
- HIGH PRESS CONT (HIGH PRESSURE CONTROLLER)(AMM 36-11-08/401)
- FAN AIR VALVE (FAN AIR MODULATING VALVE)(AMM 36-11-16/401)
- FAN AIR SENSOR (FAN AIR TEMPERATURE SENSOR)(AMM 36-11-17/401)
- PRESS REG SOV (PRESSURE REGULATING AND SHUTOFF VALVE)(AMM 36-11-09/201)
- BITE MODULE (AMM 36-23-01/401)
- PRV (PRESSURE REGULATING VALVE)(AMM 36-11-18/401)
- PRC (PRESSURE REGULATING VALVE CONTROLLER)(AMM 36-11-19/401)
- PRES SENSOR (PRV EXIT PRESSURE SENSOR)(AMM 36-21-08/401). THIS IS USED ONLY BY THE BITE MODULE.

BITE DOES NOT DO A CHECK OF THESE SYSTEM COMPONENTS:

- SENSE LINE LEAKAGE TO AND FROM COMPONENTS
- OPERATIONALLY TEST THE BLEED SYSTEM OR COMPONENTS.

IF THERE IS NO BITE MODULE INDICATION DO ONE OF THESE STEPS IF APPLICABLE:

- IF THE "BLEED" LIGHT IS ILLUMINATED REPLACE THE OVERPRESSURE SWITCH (AMM 36-21-03/201)
- IF THE "OVHT" LIGHT IS ILLUMINATED REPLACE THE OVERTEMPERATURE SWITCH (AMM 36-22-01/401)
- IF THE "OFF" LIGHT IS ILLUMINATED OR LOW PRESSURE EXISTS REPLACE THE AIR SUPPLY CONTROL BLEED CARD (AMM 36-11-12/401).

 REPLACEMENT OF AN LRU FOR A WIRE FAULT WITHOUT DOING A CONTINUITY CHECK OF THE WIRING MAY RESULT IN AN UNJUSTIFIED COMPONENT REMOVAL.

Air Supply BITE Procedure
Figure 104 (Sheet 1)

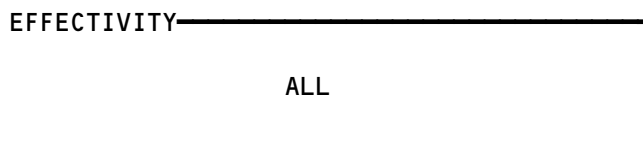
EFFECTIVITY

ALL

36-20-00

THIS PAGE INTENTIONALLY LEFT BLANK

Air Supply BITE Procedure
Figure 104 (Sheet 2)



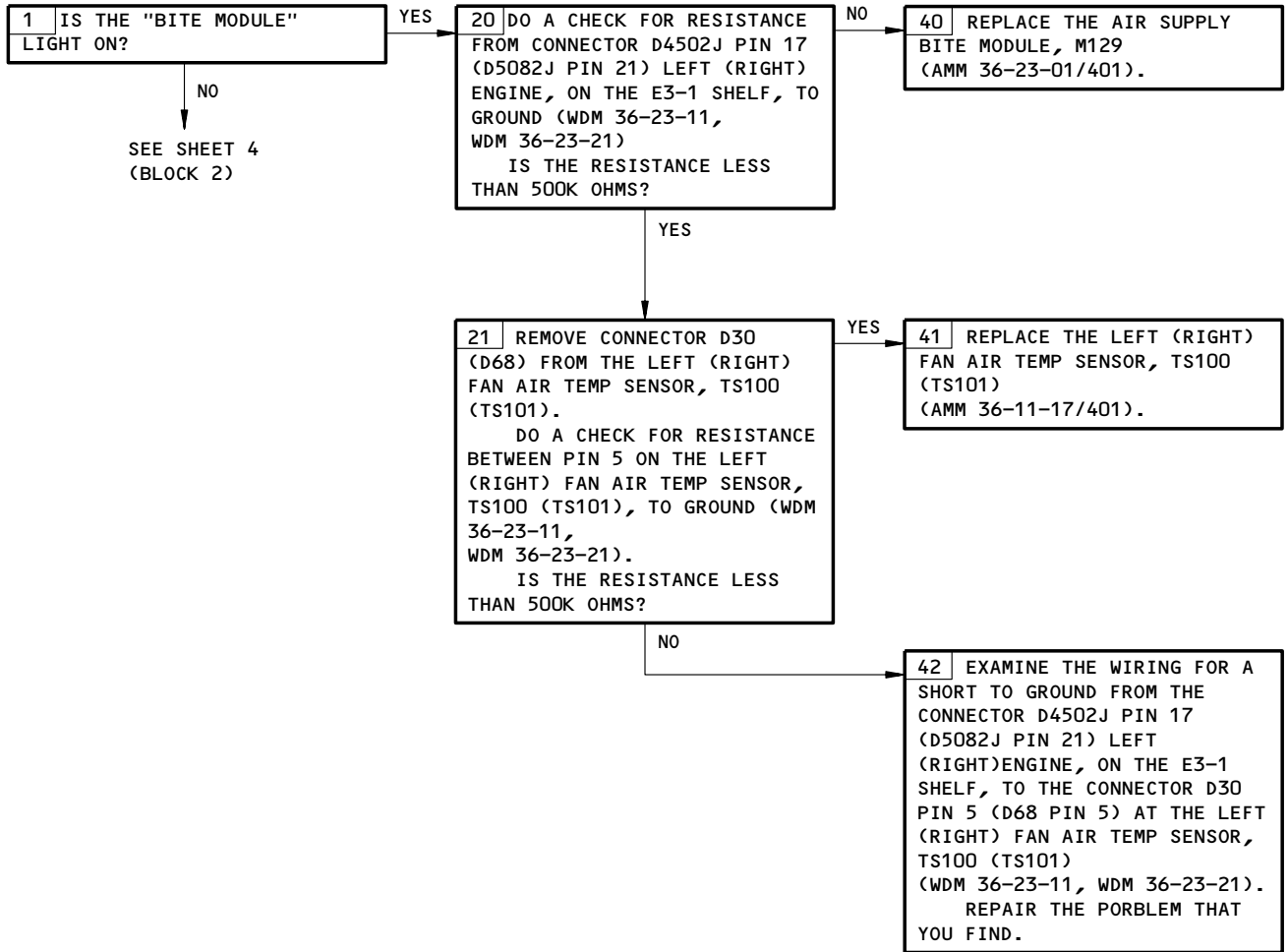
36-20-00

07

Page 108
Aug 22/06

087475


BOEING
 767
 FAULT ISOLATION/MAINT MANUAL



Air Supply BITE Procedure
Figure 104 (Sheet 3)

EFFECTIVITY

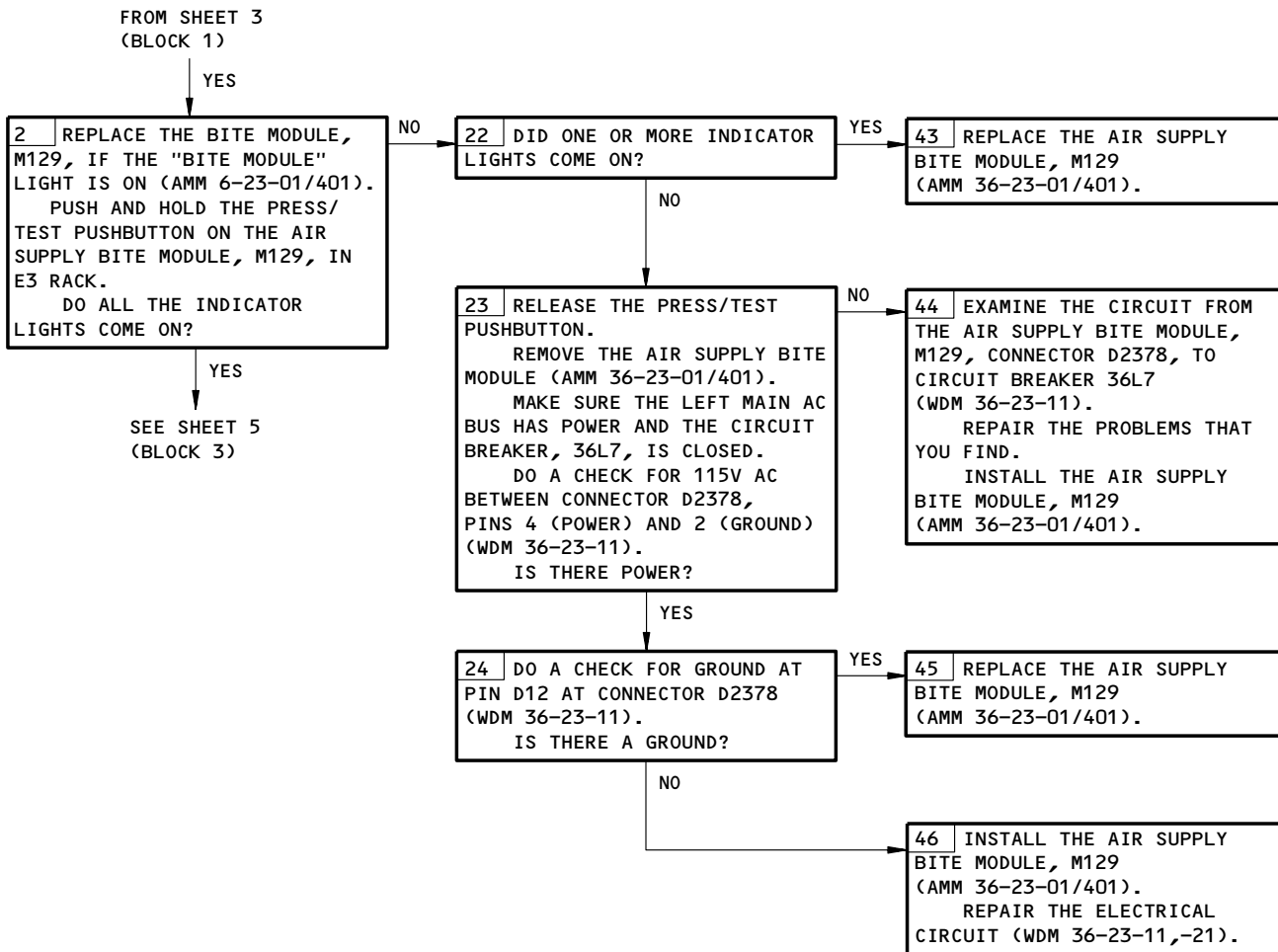
ALL

36-20-00

06

Page 109
Aug 22/06

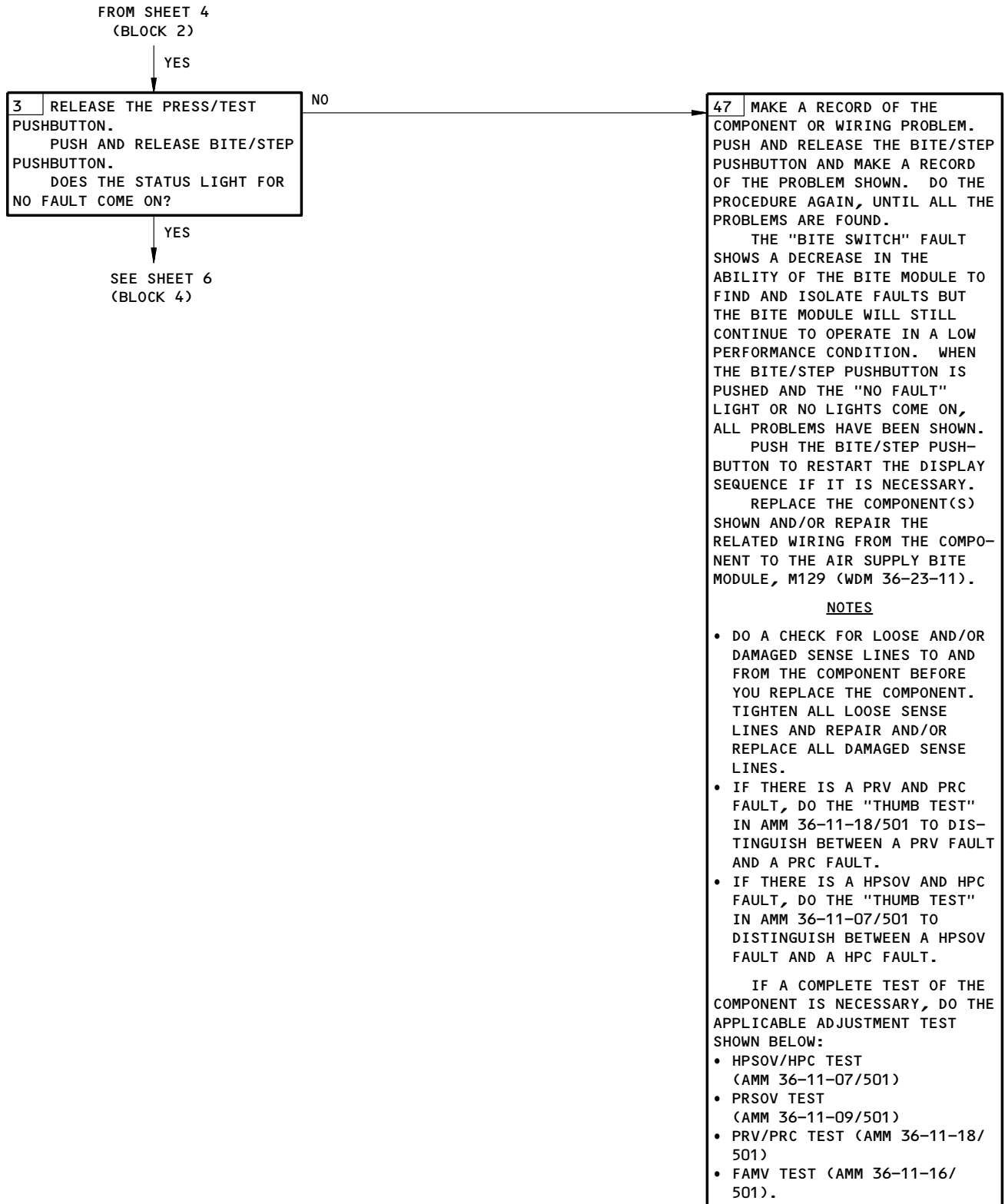
U87906



Air Supply BITE Procedure
Figure 104 (Sheet 4)

EFFECTIVITY	ALL
-------------	-----

36-20-00



Air Supply BITE Procedure
Figure 104 (Sheet 5)

EFFECTIVITY

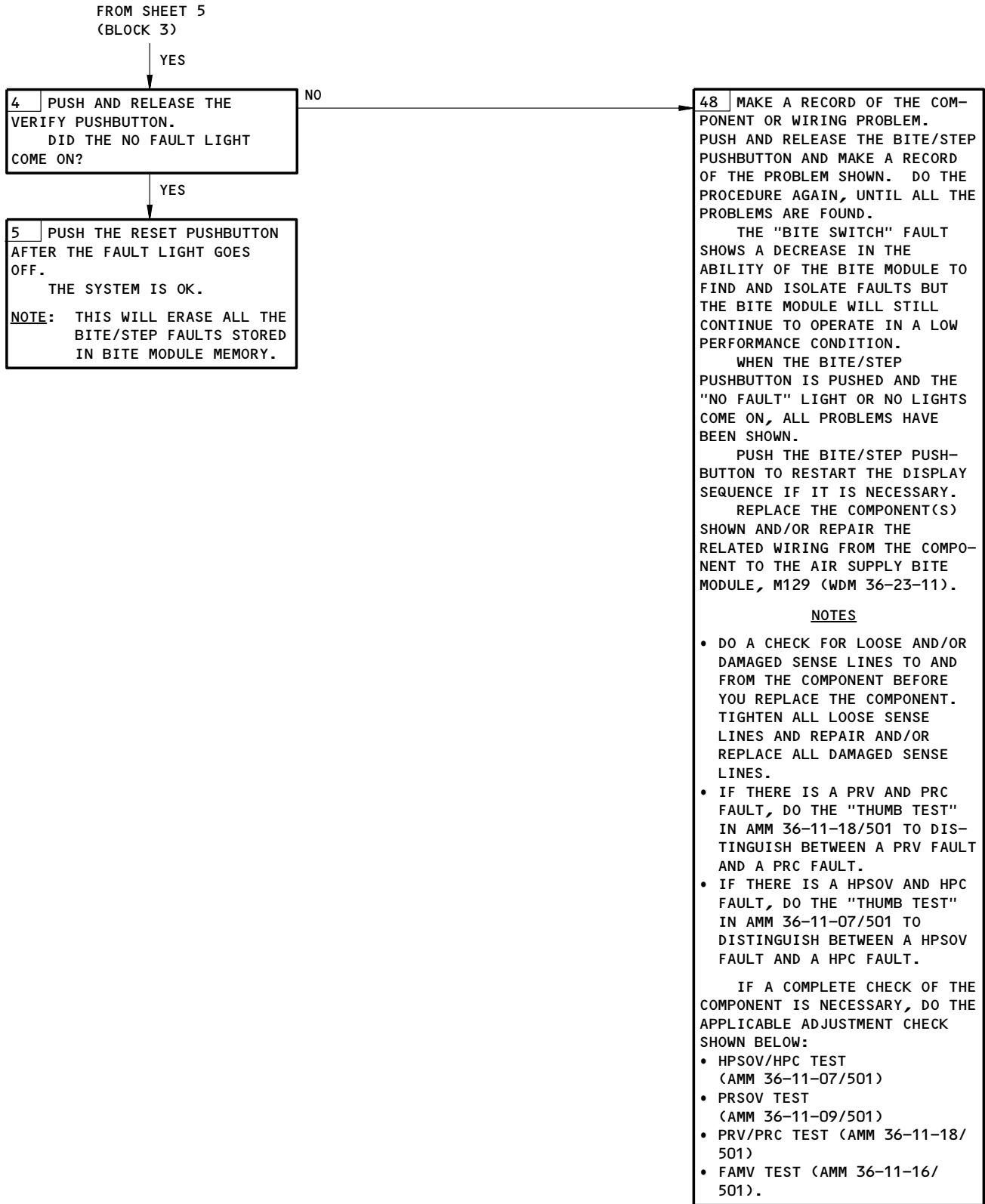
ALL

36-20-00

06

Page 111
Aug 22/06

E57209



Air Supply BITE Procedure
Figure 104 (Sheet 6)

EFFECTIVITY	ALL
-------------	-----

36-20-00

LRU FAULT:

- THE FAILURE OF A SENSOR/ SWITCH IN AN LRU WHICH IMPACTS SYSTEM OPERATION OR FLIGHT DECK INDICATIONS
- LRU FAULTS ARE SHOWN IF THE "BITE SWITCH FAULT" LIGHT IS NOT ILLUMINATED.

CORRECTIVE ACTION:

- REPLACE THE LRU.

BITE SWITCH FAULTS (WITH ASSOCIATED LRU LIGHT):

- SHOWS THE FAILURE OF SENSORS WHICH ARE USED ONLY BY THE BITE MODULE. THESE FAULTS DECREASE THE ABILITY OF THE BITE MODULE TO FIND OTHER SYSTEM FAILURES AND TO ISOLATE FAILURES TO A SINGLE LRU.
- BITE SWITCH FAULTS WILL NOT HAVE ASSOCIATED FLIGHT DECK EFFECTS BUT WILL CAUSE THE BITE MODULE TO OPERATE IN A DEGRADED PERFORMANCE MODE.

CORRECTIVE ACTION:

- REPLACE THE LRU.

PREVIOUS FLIGHT:

- ILLUMINATES WHEN A FAULT OCCURRED IN ANY FLIGHT BUT THE MOST RECENT.

BITE/STEP:

- USED TO SHOW FAULTS STORED IN A PRIOR FAULT MEMORY BASE
- CURRENT FLIGHT (THE TIME BEFORE THE LAST GROUND TO AIR TRANSITION) FAULTS ARE SHOWN WHEN BITE/STEP IS FIRST PRESSED
- SUBSEQUENT DEPRESSION SHOWS THE FAULTS FOR ALL PREVIOUS FLIGHTS.
- A "NO FAULT" LIGHT WILL ILLUMINATE IF NO FAULTS ARE STORED.

VERIFY:

- THIS TEST WILL CONFIRM THAT THE LRUs ARE ELECTRICALLY CONNECTED CORRECTLY
- THIS DOES A TEST FOR OPEN WIRES FROM THE LRU TO THE BITE MODULE AND MAKES SURE THE SENSORS/SWITCHES ARE IN THEIR UNPRESSURIZED STATE (E.G. THE HPSOV POSITION SWITCH IS CLOSED, THE PRESSURE SENSOR READS 0 PSIG ETC.)
- FAULTS WILL BE SHOWN IMMEDIATELY AND CONTINUE TO PUSH THE BUTTON UNTIL NO LIGHTS ARE ON
- PARTS OF THIS TEST WILL BE PREVENTED IF THE MANIFOLD IS PRESSURIZED.

PRESS/TEST:

- THIS DOES A TEST OF ALL THE INDICATOR LIGHTS ON THE BITE MODULE DISPLAY PANEL
- THE LIGHTS SHOULD REMAIN ILLUMINATED WHEN THE PRESS/TEST BUTTON IS PUSHED.

WIRE FAULT ¹:

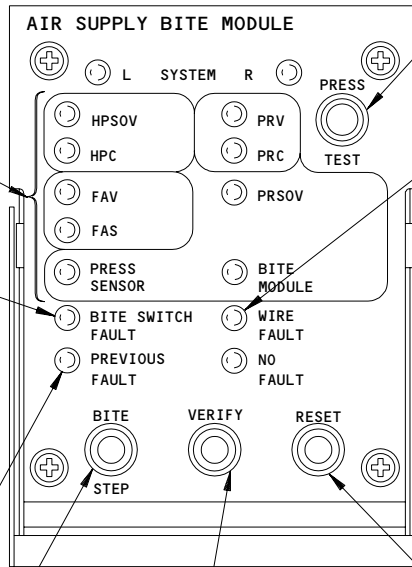
- AND LRU LIGHT - AN OPEN CIRCUIT CONDITION FROM A SENSOR/SWITCH USED FOR SYSTEM OPERATION AND/OR FLIGHT DECK INDICATION
- AND BITE SWITCH LIGHT - AN OPEN CIRCUIT CONDITION FROM A SENSOR USED ONLY BY THE BITE MODULE.

CORRECTIVE ACTION:

- AND LRU LIGHT - DO A CONTINUITY CHECK OF THE WIRING FROM THE LRU TO THE BLEED CARD
- AND BITE SWITCH LIGHT - DO A CONTINUITY CHECK OF THE WIRING FROM THE LRU TO THE BITE MODULE. REPAIR THE WIRING. IF THE WIRING IS OK, REPLACE THE LRU.

RESET:

- RESET WILL CLEAR ALL OR SOME OF THE FAULTS STORED IN THE PRIOR FAULT MEMORY, DEPENDING ON THE STATE OF THE BITE SWITCHES AND WIRES
- RESET IS ENABLED WHEN:
 - NO FAULTS ARE FOUND DURING VERIFY (NO FAULT LIGHT IS ON) OR
 - IF THE FAULTS ARE BITE SWITCH OR BITE SWITCH WIRE FAULTS.
- RESET IS DISABLED DURING BITE/STEP AND PRESS/TEST.



¹ REPLACEMENT OF AN LRU FOR A WIRE FAULT WITHOUT DOING A CONTINUITY CHECK OF THE WIRING MAY RESULT IN AN UNJUSTIFIED COMPONENT REMOVAL.

AIR SUPPLY BITE MODULE (E3-1)

Air Supply Bite Procedure
Figure 104 (Sheet 7)

EFFECTIVITY

ALL

36-20-00

06

Page 113
Aug 22/06