


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

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PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
CHAPTER 27 TAB			27-FAULT CODE INDEX			27-09-00		
FLIGHT CONTROLS			1	SEP 20/08	01	137	JAN 20/09	04
EFFECTIVE PAGES			2	SEP 20/08	01	138	JAN 20/09	04
SEE LAST PAGE OF LIST FOR			3	SEP 20/08	02	139	JAN 20/09	04
NUMBER OF PAGES			4	SEP 20/08	02	140	JAN 20/09	06
27-CONTENTS			5	SEP 20/08	02	141	JAN 20/09	01
1	JAN 20/09	GUI	6	SEP 20/08	02	142	JAN 20/09	01
2	MAY 28/06	GUI	7	SEP 20/08	03	143	JAN 20/09	04
3	SEP 28/00	GUI	8	SEP 20/08	05	144	JAN 20/09	04
4	MAY 28/06	GUI	9	SEP 20/08	05	145	JAN 20/09	05
5	MAY 28/06	GUI	10	SEP 20/08	05	146	JAN 20/09	04
6	MAY 28/03	GUI	11	SEP 20/08	05	147	JAN 20/09	04
7	SEP 28/06	GUI	12	SEP 20/08	05	148	JAN 20/09	04
8	JAN 28/00	GUI	13	SEP 20/08	05	149	JAN 20/09	01
9	JAN 28/00	GUI	14	BLANK		150	JAN 20/09	09
10	JAN 28/00	GUI	27-BITE INDEX			151	JAN 20/09	08
27-HOW TO USE THE FIM			1	SEP 28/99	01	152	JAN 20/09	06
1	SEP 20/98	01	2	SEP 28/99	01	153	JAN 20/09	05
2	SEP 20/98	01	3	SEP 28/99	01	154	JAN 20/09	06
3	SEP 28/99	01	4	BLANK		155	JAN 20/09	09
4	SEP 20/98	01	27-09-00			156	JAN 20/09	09
5	SEP 20/98	01	101	MAY 28/03	03	157	JAN 20/09	08
6	SEP 20/98	01	102	JAN 20/09	01	158	JAN 20/09	06
27-INDEX			103	MAY 28/03	04	159	JAN 20/09	05
1	JAN 20/99	01	104	MAY 28/03	07	160	JAN 20/09	09
2	SEP 20/94	04	105	MAY 28/03	04	161	JAN 20/09	07
27-EICAS MESSAGES			106	MAY 28/03	03	162	JAN 20/09	10
1	MAR 20/91	01	107	JAN 28/01	03	163	JAN 20/09	06
2	MAR 20/91	01	108	JAN 28/04	03	164	JAN 20/09	09
3	SEP 28/06	01	109	MAY 28/02	06	165	JAN 20/09	09
4	JAN 28/02	05	110	JAN 20/09	06	166	JAN 20/09	06
27-FAULT CODE DIAGRAM			111	JAN 20/09	01	167	JAN 20/09	08
1	DEC 20/96	01	112	JAN 28/01	03	168	JAN 20/09	09
2	DEC 20/96	01	113	JAN 28/01	03	169	JAN 20/09	02
3	JUN 20/90	01	114	JAN 20/09	04	170	JAN 20/09	07
4	DEC 20/96	01	115	JAN 28/01	05	171	JAN 20/09	09
5	DEC 20/96	01	116	JAN 28/06	06	172	JAN 20/09	07
6	DEC 20/96	01	117	JAN 28/06	03	27-11-00		
7	DEC 20/96	02	118	MAY 28/05	02	101	MAY 28/04	12
8	DEC 20/96	01	119	SEP 28/06	08	102	MAY 28/07	01
9	DEC 20/96	01	120	SEP 28/01	02	103	JUN 20/91	04
10	DEC 20/96	01	121	SEP 28/01	02	104	JUN 20/91	01
11	DEC 20/96	01	122	SEP 28/01	02	105	MAR 20/96	01
12	MAY 28/06	01	123	SEP 28/01	03	106	JUN 20/91	01
13	DEC 20/96	01	124	SEP 28/01	03	107	JUN 20/91	01
14	BLANK		125	SEP 28/01	04	108	JUN 20/91	01
			126	SEP 28/01	05	109	MAY 28/07	01
			127	SEP 28/01	04	110	MAY 28/05	01
			128	SEP 28/01	05	111	JUN 20/91	01
			129	SEP 28/01	04	112	JUN 20/91	01
			130	SEP 28/01	04	113	JUN 20/91	01
			131	SEP 28/01	04	114	JUN 20/91	01
			132	JAN 20/09	01	115	JUN 20/91	01
			133	JAN 20/09	01	116	BLANK	
			134	JAN 20/09	04			
			135	JAN 20/09	04			
			136	JAN 20/09	04			

R = REVISED, A = ADDED OR D = DELETED

F = FOLDOUT PAGE

32

MAY 20/09

# D633N632

CHAPTER 27

EFFECTIVE PAGES

PAGE 1

CONTINUED



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

GPA Group plc

PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
27-18-00			27-28-00			27-48-00		
101	SEP 20/94	01	101	SEP 20/94	01	101	MAR 20/91	03
102	SEP 20/94	01	102	SEP 20/94	01	102	MAR 20/91	03
103	SEP 20/94	01	103	SEP 20/94	01	103	MAR 20/91	03
104	MAR 20/96	01	104	SEP 20/94	01	104	MAR 20/91	03
105	SEP 20/94	01	105	SEP 20/94	01	105	MAR 20/91	03
106	SEP 20/94	02	106	BLANK		106	MAR 20/91	03
107	SEP 20/94	01				107	MAR 20/91	03
108	SEP 20/94	01	27-31-00			108	JAN 20/98	03
109	SEP 20/94	01	101	JUN 20/92	01	109	JAN 20/98	03
110	SEP 20/94	01	102	JUN 20/92	01	110	BLANK	
			103	JUN 20/92	01			
27-21-00			104	JUN 20/92	01	27-51-00		
101	MAR 20/94	03	105	JUN 20/92	01	101	SEP 20/98	01
102	JUN 20/92	06	106	JUN 20/92	01	102	SEP 20/98	20
103	MAR 20/94	01	107	JUN 20/92	01	103	SEP 20/98	01
104	JUN 20/92	01	108	MAR 20/96	01	104	SEP 20/98	01
105	JUN 20/92	06	109	JUN 20/92	01	105	SEP 20/98	01
106	JUN 20/92	01	110	MAY 28/07	01	106	SEP 20/98	01
107	JUN 20/92	04	111	JUN 20/92	03	107	SEP 20/98	01
108	MAR 20/96	01	112	SEP 20/98	01	108	JAN 20/99	02
109	MAR 20/96	01	113	JAN 28/01	01	109	JAN 20/99	02
110	MAR 20/94	01	114	JAN 28/01	01	110	SEP 20/98	01
111	MAR 20/94	01	115	JAN 28/01	01	111	SEP 20/98	04
112	JAN 20/08	01	116	JUN 20/92	01	112	SEP 20/98	04
113	SEP 20/94	01	117	SEP 28/99	01	113	SEP 20/98	03
114	SEP 20/98	01	118	SEP 28/99	01	114	SEP 20/98	15
115	SEP 20/98	01	119	JAN 28/06	02	115	SEP 28/07	07
116	JAN 20/08	01	120	JAN 28/02	03	116	JAN 28/06	05
117	SEP 28/04	01	121	JAN 28/03	02	117	MAY 28/05	04
118	SEP 28/04	01	122	JAN 28/03	01	118	SEP 20/98	05
119	SEP 28/04	01	123	JAN 20/99	01	119	SEP 20/98	04
120	MAR 20/93	01	124	JAN 28/06	01	120	SEP 20/98	04
121	MAR 20/94	01	125	JAN 20/98	02	121	SEP 20/98	04
122	JUN 20/93	04	126	MAY 28/05	02	122	SEP 20/98	04
123	JAN 28/07	02	127	SEP 28/01	01	123	SEP 20/98	04
124	JUN 20/95	01	128	BLANK		124	SEP 20/98	15
125	JUN 20/95	01				125	MAY 28/02	04
126	JUN 20/95	01	27-32-00			126	SEP 20/98	04
127	JAN 20/98	01	101	JUN 20/93	09A	127	SEP 20/98	07
128	JAN 20/98	01	102	DEC 20/88	01A	128	SEP 20/98	04
129	DEC 20/95	01	103	JUN 20/93	08A	129	SEP 20/98	06
130	SEP 28/00	01	104	JUN 20/93	08A	130	SEP 20/98	07
131	MAY 28/01	02	105	MAR 20/88	01A	131	SEP 20/98	04
132	BLANK		106	MAR 20/88	01A	132	SEP 28/00	04
			107	JUN 20/88	02A	133	SEP 20/98	04
27-23-00			108	SEP 28/05	02A	134	SEP 20/98	04
101	DEC 20/90	16				135	MAY 28/07	04
102	DEC 20/90	02	27-38-00			136	SEP 28/07	07
103	DEC 20/90	02	101	SEP 20/94	14	137	SEP 20/98	04
104	DEC 20/90	02	102	SEP 20/94	14	138	SEP 20/98	06
105	DEC 20/90	02				139	SEP 28/02	16
106	DEC 20/90	15	27-41-00			140	SEP 20/98	06
107	DEC 20/90	14	101	MAR 20/94	03	141	SEP 20/98	07
108	MAR 20/91	01	102	MAR 20/91	03	142	SEP 20/98	05
109	MAR 20/91	01	103	MAR 20/91	01	143	MAY 28/99	04
110	MAY 28/04	01	104	MAR 20/91	03	144	MAY 28/99	04
						145	SEP 20/98	04
						146	SEP 20/98	04

R = REVISED, A = ADDED OR D = DELETED

F = FOLDOUT PAGE

32

MAY 20/09

# D633N632

CHAPTER 27

EFFECTIVE PAGES

PAGE 2

CONTINUED



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

GPA Group plc

PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
27-51-00		CONT.	27-81-00		CONT.			
147	SEP 20/98	07	115	SEP 28/99	01			
148	JAN 20/99	04	116	SEP 28/06	06			
149	JAN 20/99	10	117	SEP 20/08	01			
150	JAN 20/99	17	118	SEP 20/08	01			
151	JAN 28/02	05	119	SEP 20/08	01			
152	JAN 20/99	08	120	SEP 28/99	01			
153	JAN 20/99	05	121	SEP 28/99	01			
154	BLANK		122	SEP 28/99	01			
			123	SEP 28/99	01			
27-61-00			124	JAN 28/03	01			
101	SEP 20/97	03	125	JAN 28/03	01			
102	DEC 20/90	01	126	JAN 28/03	01			
103	DEC 20/90	01	127	JAN 28/03	01			
104	DEC 20/90	01	128	SEP 28/99	01			
105	MAR 20/92	01	129	JAN 28/05	06			
106	JAN 28/02	01	130	JAN 28/05	01			
107	SEP 28/07	01	131	SEP 28/04	01			
108	SEP 28/99	01	132	SEP 28/02	01			
109	SEP 20/97	01	133	JAN 28/05	06			
110	BLANK		134	SEP 28/06	01			
			135	JAN 28/05	01			
27-62-00			136	SEP 28/99	01			
101	MAY 28/99	01	137	SEP 28/99	01			
102	JUN 20/91	01	138	SEP 28/99	13			
103	JUN 20/91	01	139	SEP 28/99	05			
104	JUN 20/91	01	140	BLANK				
105	MAR 20/96	01						
106	SEP 28/07	01	27-88-00					
107	SEP 28/07	01	101	MAR 20/91	13			
108	MAY 28/01	01	102	MAR 20/91	01			
109	JAN 28/00	02	103	DEC 20/96	01			
110	SEP 28/04	01	104	SEP 20/94	12			
111	JAN 28/00	01	105	SEP 20/94	12			
112	JAN 20/99	02	106	BLANK				
113	MAY 28/99	01						
114	MAY 28/01	01						
115	MAY 28/01	01						
116	JAN 20/99	02						
117	JUN 20/96	01						
118	JUN 20/96	01						
119	JUN 20/96	01						
120	BLANK							
27-81-00								
101	SEP 20/91	15						
102	MAY 20/98	01						
103	MAR 20/91	01						
104	MAR 20/91	01						
105	MAR 20/91	01						
106	MAR 20/91	01						
107	MAR 20/91	01						
108	MAY 28/01	02						
109	MAR 20/91	01						
110	SEP 28/99	01						
111	SEP 20/91	01						
112	SEP 20/91	02						
113	SEP 20/91	01						
114	SEP 28/99	01						

R = REVISED, A = ADDED OR D = DELETED  
 F = FOLDOUT PAGE  
 32  
 MAY 20/09

**D633N632**

CHAPTER 27  
 EFFECTIVE PAGES  
 PAGE 3  
 LAST PAGE



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
HOW TO USE THE FIM	27-HOW TO USE THE FIM	1	ALL
INDEX	27-INDEX	1	ALL
EICAS MESSAGES	27-EICAS MESSAGES	1	ALL
FAULT CODE DIAGRAMS	27-FAULT CODE DIAGRAM	1	ALL
FAULT CODE INDEX	27-FAULT CODE INDEX	1	ALL
BITE INDEX	27-BITE INDEX	1	ALL
<u>FLIGHT CONTROLS</u>	27-00-00		
FLIGHT CONTROL SYSTEM ELECTRONICS UNIT	27-09-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Control System Electronic Units EICAS Message(s) Displayed (Fig. 103)		107	
Power Supply Module BITE Procedure (Fig. 104)		116	
Rudder Ratio Changer Module BITE Procedure (Fig. 106B)		165	
Spoiler Control Module BITE Procedure (Fig. 105)		118	
Spoiler Control Module BITE Procedure (Fig. 105A)		139	
Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure (Fig. 106)		145	
UNSCHED STAB TRIM Problems (Fig. 106A)		162	

## 27-CONTENTS



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>AILERON AND TAB</u>	27-10-00		
AILERON AND AILERON TRIM CONTROL SYSTEM	27-11-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Aileron Trim Failed to Trim in Either Direction (Fig. 104)		106	
Aileron Trim Failed to Trim in Left (Right) Wing Down Direction (Fig. 105)		108	
Captain's (First Officer's) Aileron Control Wheel Binding (Fig. 106)		109	
Captain's (First Officer's) Aileron Control Wheel Jammed (Fig. 108)		114	
Captain's and First Officer's Aileron Control Wheels Binding (Fig. 107)		111	
Figure Not Used		105	
AILERON POSITION INDICATING SYSTEM	27-18-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Figure Not Used		104	
Left (Right) Aileron Indicator Pointer Failed to Indicate Aileron Movement (Fig. 104)		105	
Left (Right) Aileron Indicator Pointer Failed to Zero with Control Wheel Zero (Fig. 105)		108	
Left (Right) Aileron Indicator Pointer Indicates Less Than Full Travel (Fig. 106)		109	

**27-CONTENTS**



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>RUDDER &amp; TAB</u>	27-20-00		
RUDDER AND RUDDER TRIM CONTROL SYSTEM	27-21-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Airplane Has the Rudder Trim Compensating Linkage but Trim Adjustment Is Still Necessary During a Climb or Descent (Fig. 112)		130	
EICAS Message RUDDER PCU Displayed (Fig. 109)		121	
Figure Not Used		108	
Figure Not Used		109	
Oscillation of the RRCA or Rudder Trailing Edge (Fig. 111)		129	
Rudder Controls Binding or Jammed (Fig. 107)		117	
Rudder Pedal Adjustment Problems (Fig. 108)		120	
Rudder Pedal Force Low (Fig. 113)		131	
Rudder Trim Indication Problems (Fig. 105)		110	
Rudder Trim Problems (Fig. 106)		113	
RUDDER RATIO Light Illuminated on Ground/In Flight EICAS Message RUDDER RATIO Displayed (Fig. 110)		127	

## 27-CONTENTS



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
RUDDER AND ELEVATOR HYDRAULIC SYSTEMS	27-23-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
EICAS Message FLT CONT VALS Displayed (Fig. 103)		108	
EICAS Message PCU MONITOR Displayed (Fig. 104)		110	
RUDDER POSITION INDICATING SYSTEM	27-28-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Rudder Position Indication Problems (Fig. 103)		103	
<u>ELEVATOR &amp; TAB</u>	27-30-00		
ELEVATOR CONTROL SYSTEM	27-31-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Elevator Controls Binding or Jammed (Fig. 105)		112	
Elevator Position Indication Problems (Fig. 104)		109	
Excessive Elevator Freeplay (Fig. 110)		127	
EICAS Message (L,R) ELEV PCU Displayed (Fig. 108)		119	
EICAS Message (L,R,C) ELEV HYD PRESS Displayed (Fig. 109)		123	
EICAS Message ELEV FEEL Displayed (Fig. 106)		116	
Figure Not Used		118	

## 27-CONTENTS

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
Figure Not Used		108	
STALL WARNING SYSTEM	27-32-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Stall Warning Computer (SWC)		104	
BITE Procedure (Fig. 103)			
ELEVATOR POSITION INDICATING SYSTEM	27-38-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>HORIZONTAL STABILIZER</u>	27-40-00		
HORIZONTAL STABILIZER TRIM CONTROL SYSTEM	27-41-00		
Component Location		101	ALL
Component Index			
Component Location			
STABILIZER TRIM POSITION INDICATING SYSTEM	27-48-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Stabilizer Position Indicator OFF Flag in View (Fig. 103)		105	
Stabilizer Position Indicators Differ (Fig. 104)		106	
Stabilizer Position Module (SPM) BITE Procedure (Fig. 105)		108	

## 27-CONTENTS



CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>FLAPS</u>	27-50-00		
TRAILING EDGE FLAP SYSTEM	27-51-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Airplane Rolls When Flap Position 25 or Greater is Selected		150	
EICAS Message FLAP ISLN VAL or FLAP LOAD RELIEF or TE FLAP DISAGREE or LE SLAT DISAGREE Displayed (Fig. 115)		142	
EICAS Message FLAP LD RELIEF Displayed. Flaps 30 Selected. Flaps Failed to Retract to Pos 25 with A/S More Than 170K (Fig. 107)		132	
EICAS Message FLAP/SLAT ELEC or FLAP/SLAT BITE Displayed (Fig. 111)		137	
EICAS Message TE Flap DISAGREE Displayed with ALTN FLAPS Rotary Switch in a Commanded Position and TE Arming Switch in ALTN (Fig. 112)		138	
EICAS Message TE FLAP DISAGREE Displayed. Flaps 30 Selected. Flaps Failed to Extend to Pos 30 with A/S Less Than 165K (Fig. 108)		134	
EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever in any Detent During Normal Operation (Fig. 105)		124	
Figure Not Used		112	
Figure Not Used		140	
Figure Not Used		141	
Figure Not Used		148	
Figure Not Used		149	

**27-CONTENTS**



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
Flap Control Lever is in One Unit or More Position, TE FLAP ASYM Displayed on EICAS, No Flap Movement (Fig. 106)		130	
Flap Lever Jams, Binds or is Rough When Selecting Any Flap Position (Fig. 110)		136	
Flap Position Indicator Needle(s) Inoperative During TE Flaps Operation (Fig. 109)		135	
Flaps Retract at the Wrong Airspeed or Flaps Extend at the Wrong Airspeed (Fig. 117)		147	
Flaps Set to 30 Detent. Flaps do not Retract to Pos 25 with A/S more than 170K (Fig. 116)		145	
FLAP/SLAT ELECTRONIC UNIT BITE Procedure (Fig. 104)		113	
<u>SPOILERS AND DRAG DEVICES</u>	27-60-00		
<u>SPOILER/SPEEDBRAKE CONTROL SYSTEM</u>	27-61-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Speedbrake Lever is Binding (Fig. 104)		107	
SPOILER Caution Light or SPOILER EICAS Message Showed With Flaps at 25 or 30 (Fig. 103)		106	

## 27-CONTENTS



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
AUTO-SPEEDBRAKE CONTROL SYSTEM	27-62-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
AUTO SPD BRK Lgt Illum with Speedbrake Lever Armed. EICAS Message: AUTO SPEEDBRAKE Displayed (Fig. 106)		112	
AUTO SPD BRK Lgt Illum with Speedbrake Lever Down. EICAS Message: AUTO SPEEDBRAKE Displayed (Fig. 105)		109	
AUTO SPD BRK Lgt Illum with Speedbrake Lever Up. EICAS Message: AUTO SPEEDBRAKE Displayed (Fig. 107)		116	
Figure Not Used		105	
Speedbrake Lever Failed to Extend Automatically on Landing (Fig. 104)		106	

## 27-CONTENTS



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>LIFT AUGMENTING</u>	27-80-00		
LEADING EDGE SLAT SYSTEM	27-81-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
EICAS Message LE SLAT ASYM Displayed (Fig. 105)		122	
EICAS Message LE SLAT DISAGREE Displayed when Slat Extension to Pos 15 or when Slat Retraction to UP (Both Flap Pointers Indicate UP) is Selected with Altn Slat Drive System (Fig. 108)		133	
EICAS Message LE SLAT DISAGREE Displayed with the Flap Lever in any Detent During Normal Operation (Fig. 104)		116	
EICAS Message LE SLAT DISAGREE Displayed with Rotary Switch in a Commanded Position and LE Arming Switch in ALTN (Fig. 107)		129	
Figure Not Used		128	
Figure Not Used		115	
Slats Failed To Extend Or Retract When Tested (Stall Warning) (Fig. 109)		138	

## 27-CONTENTS



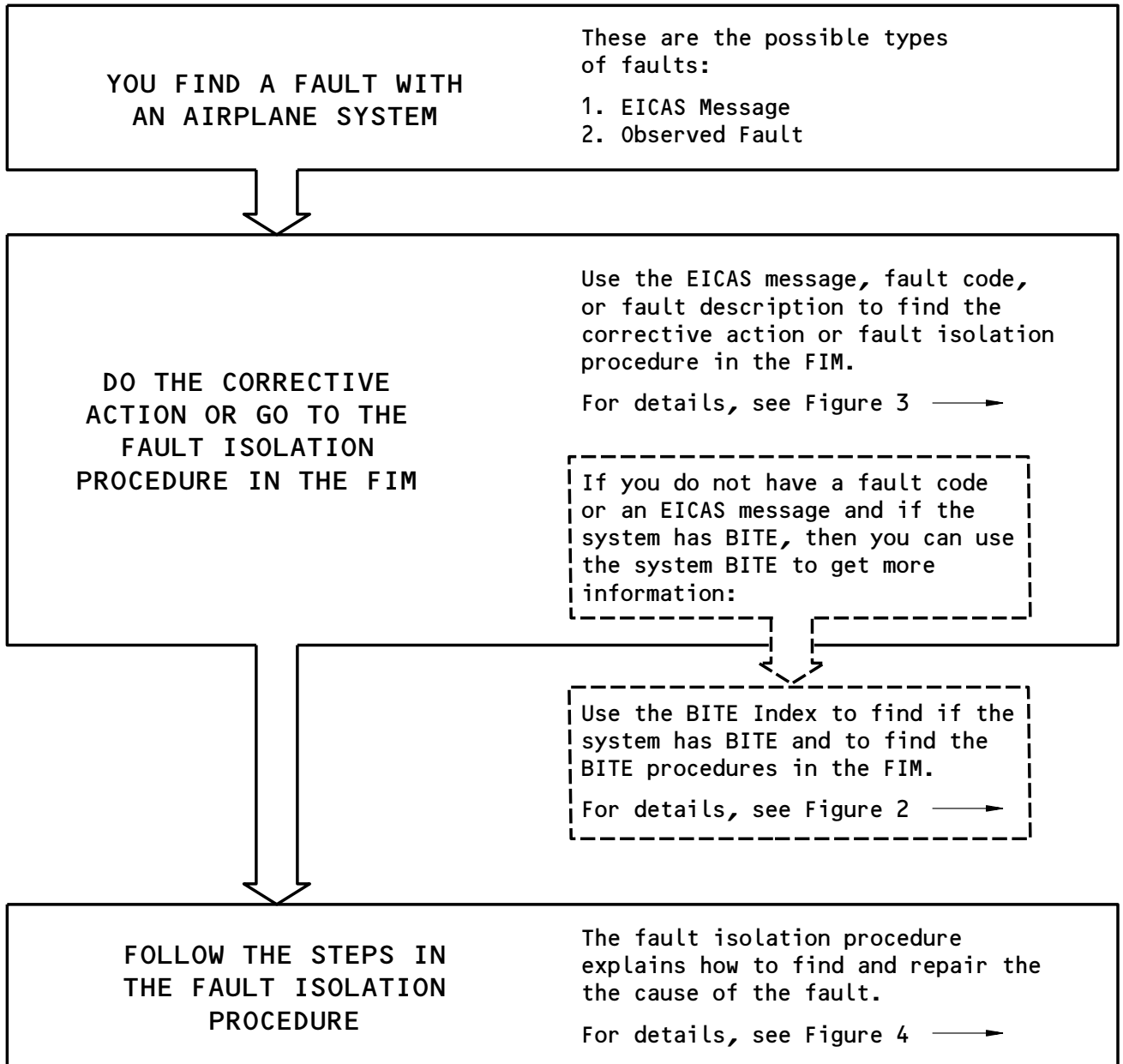
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 27 - FLIGHT CONTROLS

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
LEADING EDGE SLAT POSITION INDICATING SYSTEM	27-88-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Both Flap Pointer Indicate 1/2 with the Flap Lever in 1. No Leading Edge EICAS Messages Are Displayed (Fig. 105)		105	
Both Flap Pointers Are on 1/2 with the Flap Lever in UP. No Leading Edge EICAS Messages Are Displayed (Fig. 104)		104	
Figure Not Used (Fig. 103)		103	

## 27-CONTENTS



Basic Fault Isolation Process  
Figure 1

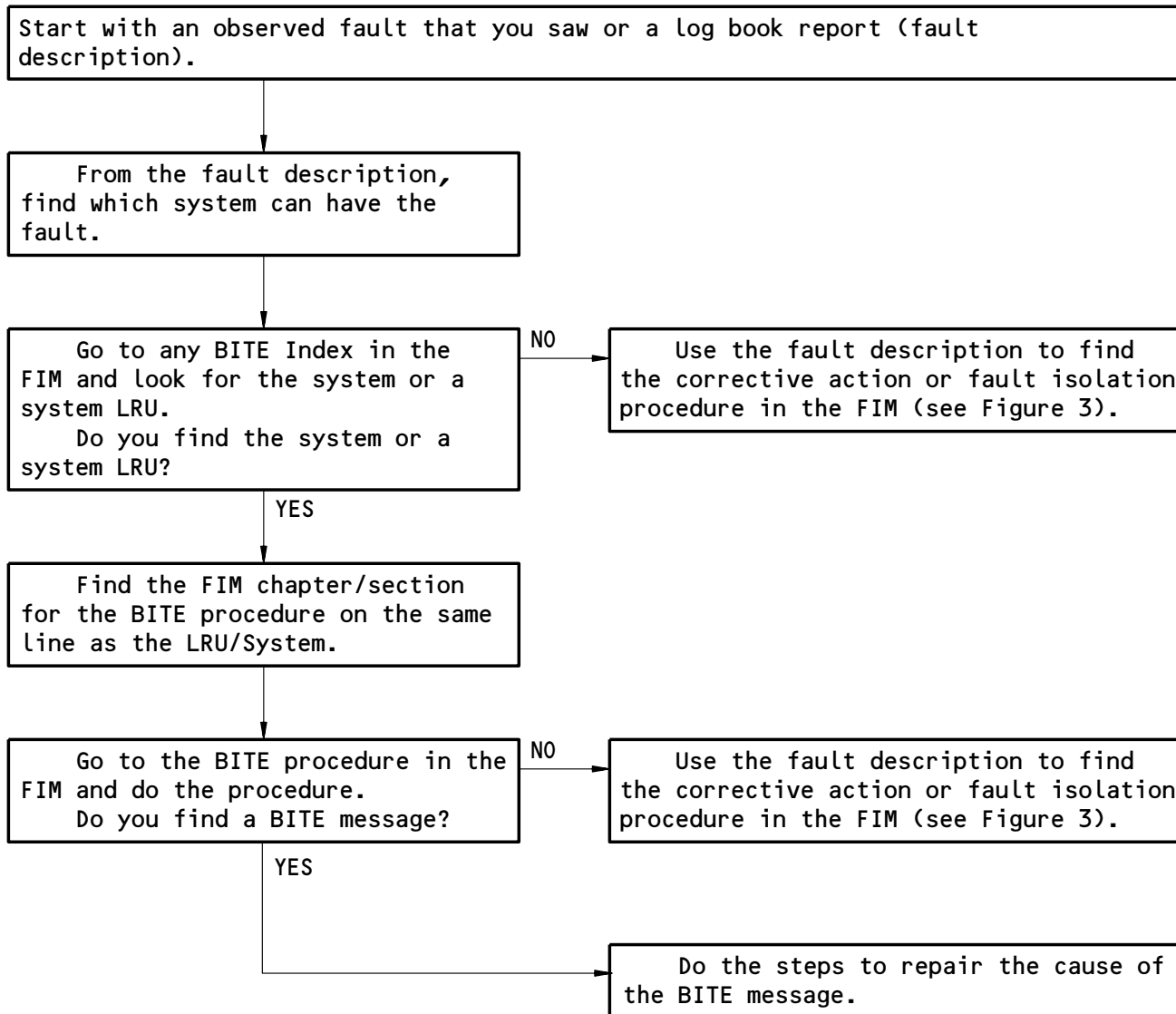
EFFECTIVITY

ALL

## 27-HOW TO USE THE FIM

01

Page 1  
Sep 20/98



How to Get Fault Information from BITE  
Figure 2

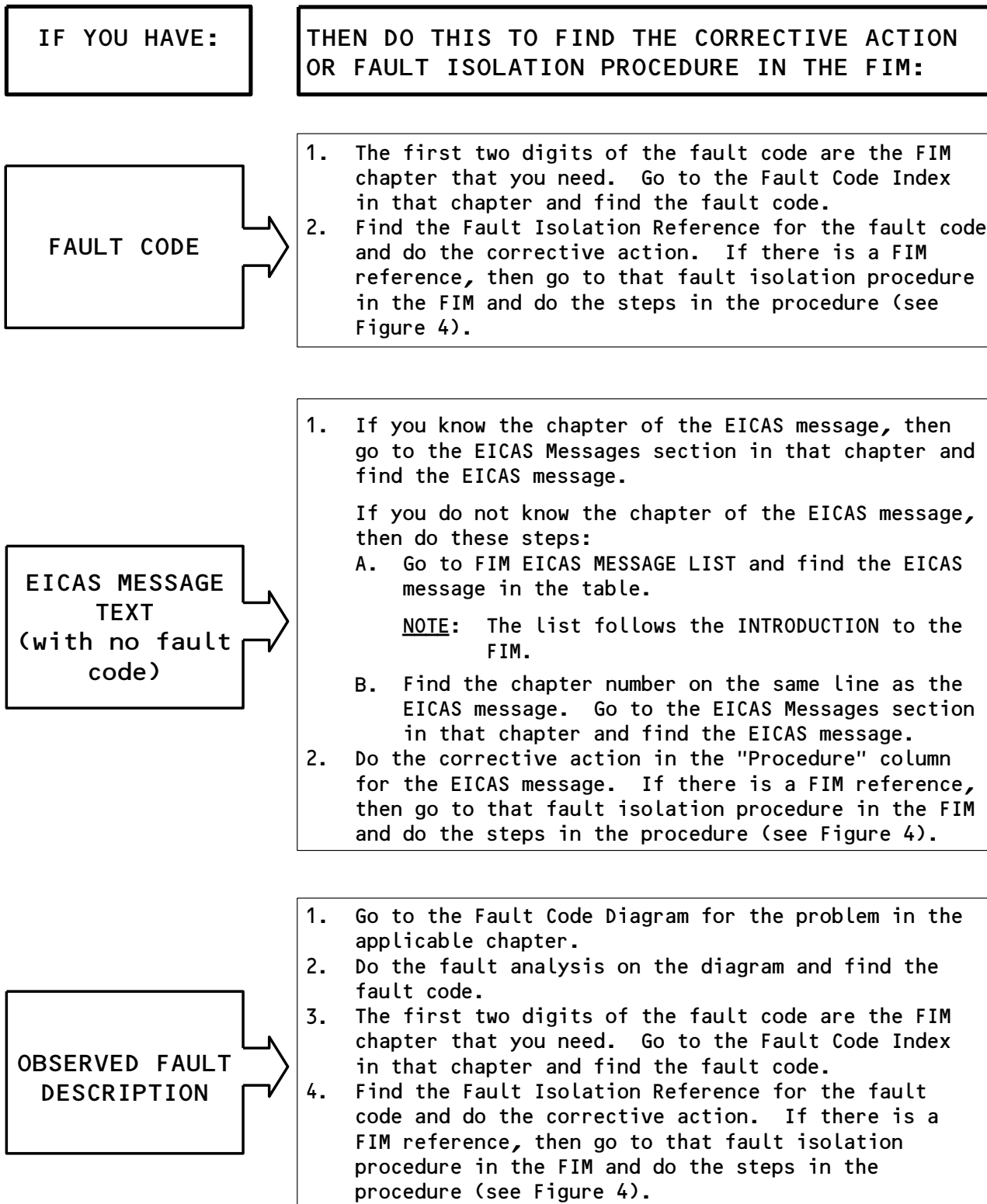
EFFECTIVITY

ALL

## 27-HOW TO USE THE FIM

01

Page 2  
Sep 20/98



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

Figure 3

EFFECTIVITY

ALL

## 27-HOW TO USE THE FIM

01

Page 3  
Sep 28/99



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

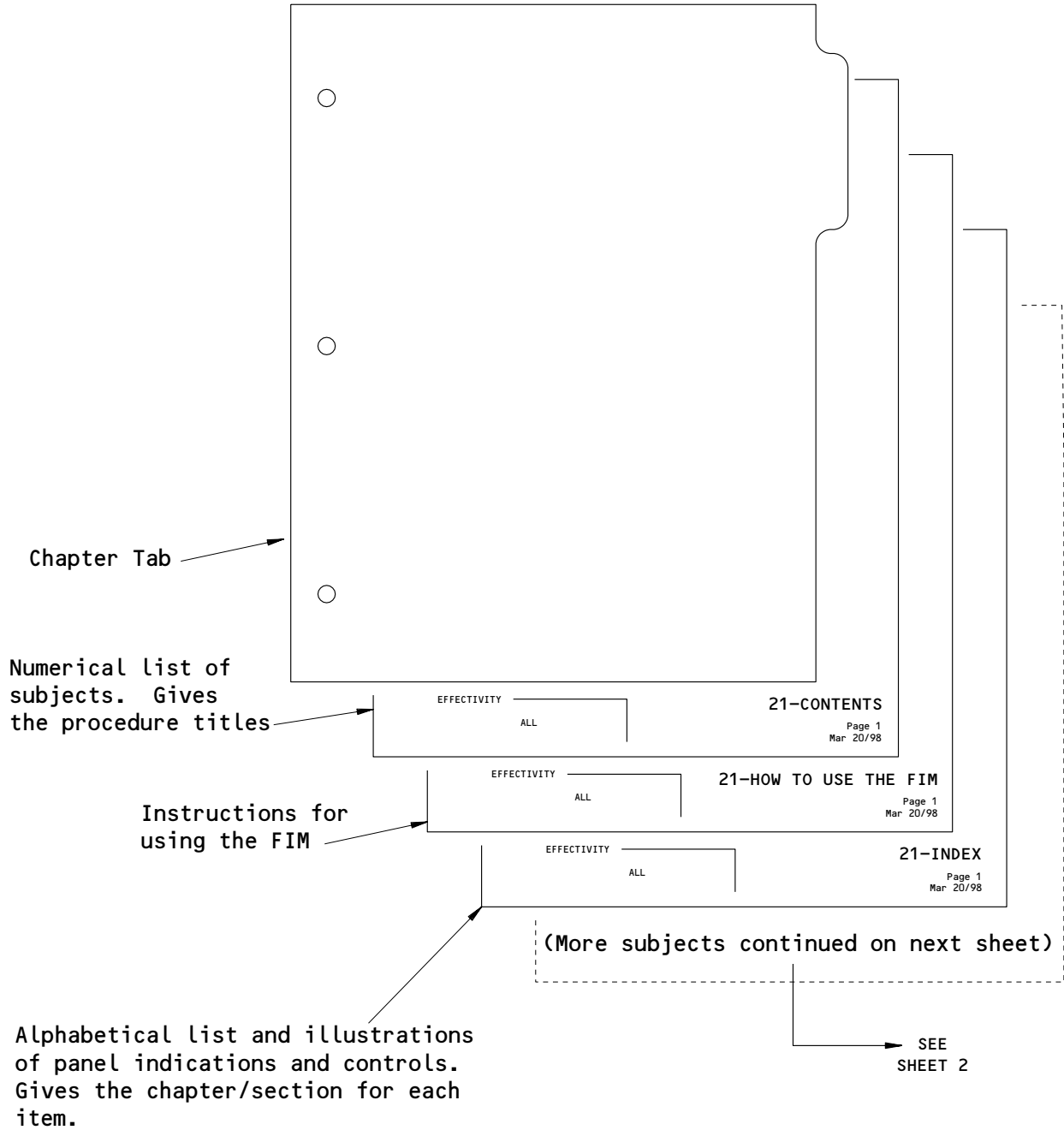
EFFECTIVITY

ALL

**27-HOW TO USE THE FIM**

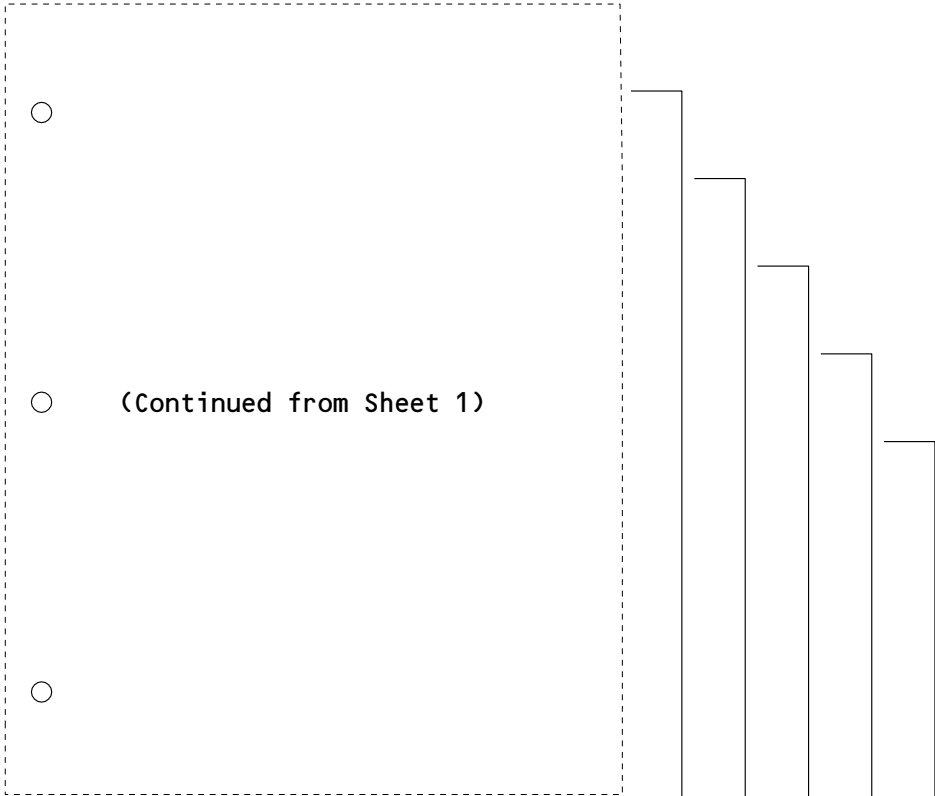
01

Page 4  
Sep 20/98



Subjects in Each FIM Chapter  
Figure 5 (Sheet 1)

EFFECTIVITY	ALL	<b>27-HOW TO USE THE FIM</b>	01	Page 5 Sep 20/98
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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 Mar 20/98
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EFFECTIVITY	ALL	21-FAULT CODE DIAGRAMS	Page 1 Mar 20/98
-------------	-----	------------------------	---------------------

EFFECTIVITY	ALL	21-FAULT CODE INDEX	Page 1 Mar 20/98
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EFFECTIVITY	ALL	21-BITE INDEX	Page 1 Mar 20/98
-------------	-----	---------------	---------------------

EFFECTIVITY	ALL	21-11-00	Page 101 Mar 20/98
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Alphabetical list of all the LRUs/systems that have BITE. Gives the chapter/section for the BITE procedure.

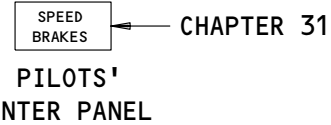
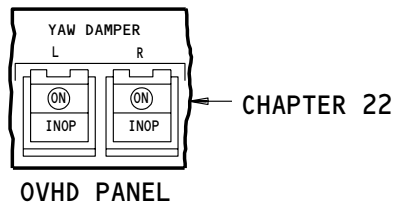
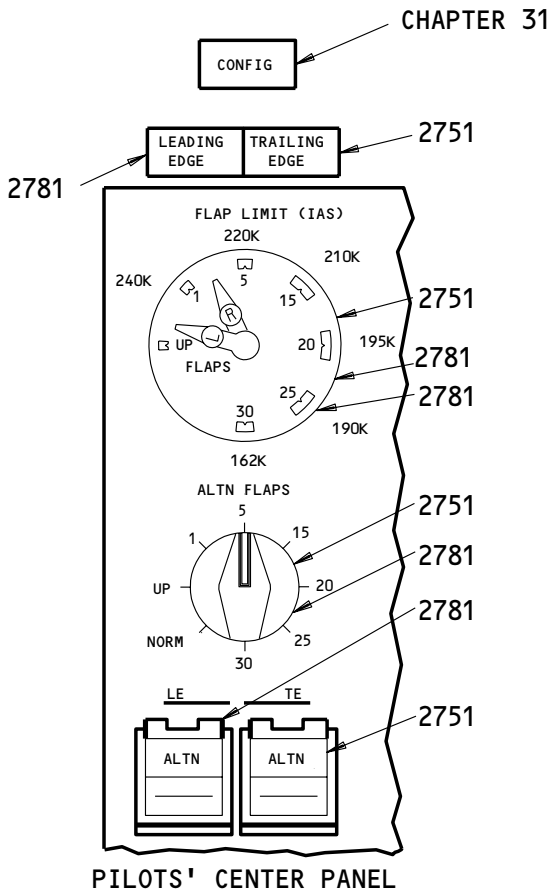
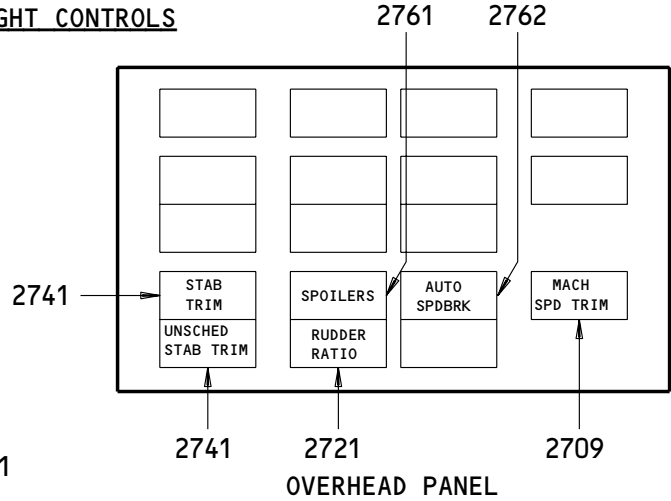
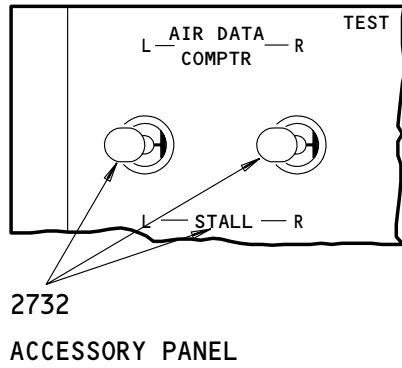
Component index, component location, and fault isolation procedures for the systems in the chapter.

Subjects in Each FIM Chapter  
Figure 5 (Sheet 2)

EFFECTIVITY	ALL
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# 27-HOW TO USE THE FIM

FLIGHT CONTROLS

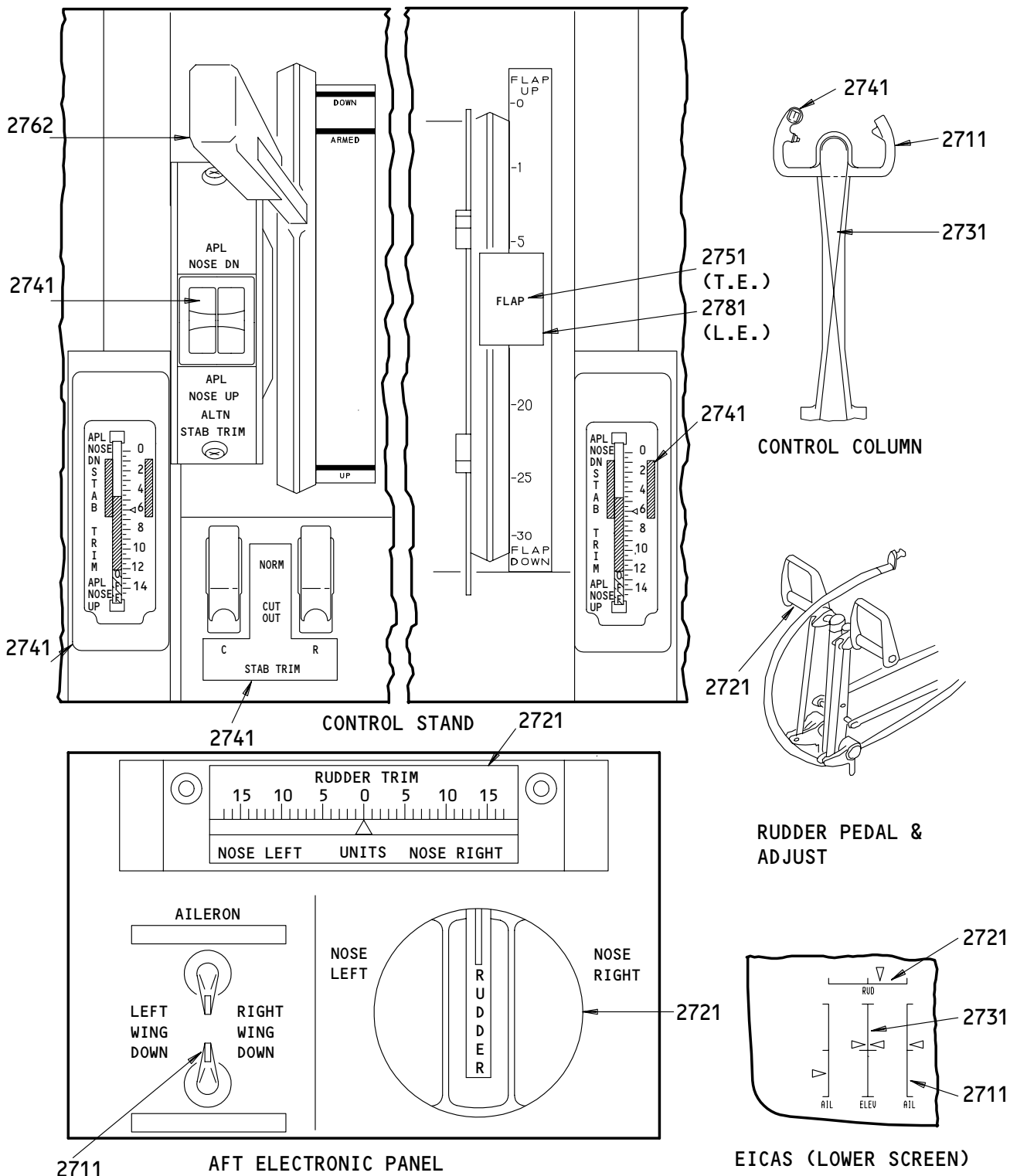


<u>TITLE</u>	<u>CHAP/SEC</u>
AILERONS .....	2711
ELEVATORS .....	2731
FLAP LOAD RELIEF.....	2751
FLAPS -	
ALTERNATE TRAILING EDGE ...	2751
TRAILING EDGE .....	2751
FLIGHT CONTROL EICAS	
MESSAGES .....	2723
MACH SPD TRIM LIGHT.....	2709
RUDDER .....	2721
RUDDER RATIO.....	2721
SLATS	
ALTERNATE LEADING EDGE ....	2781
LEADING EDGE .....	2781
SPEEDBRAKE LANDING	
CONFIGURATION	
WARNING .....	CHAPTER 31
SPEEDBRAKES.....	2762
SPOILERS .....	2761
STABILIZER TRIM .....	2741
STALL WARNING .....	2732
AUTOSLATS.....	2732
STICK SHAKER.....	2732
UNCHED STAB TRIM.....	2741
YAW DAMPER .....	CHAPTER 22

FLIGHT CONTROLS - INDEX  
Figure 1 (Sheet 1)

EFFECTIVITY	ALL
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**27-INDEX**



**FLIGHT CONTROLS - INDEX**  
Figure 1 (Sheet 2)

EFFECTIVITY	
	ALL

**27-INDEX**

FLIGHT CONTROLS – 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

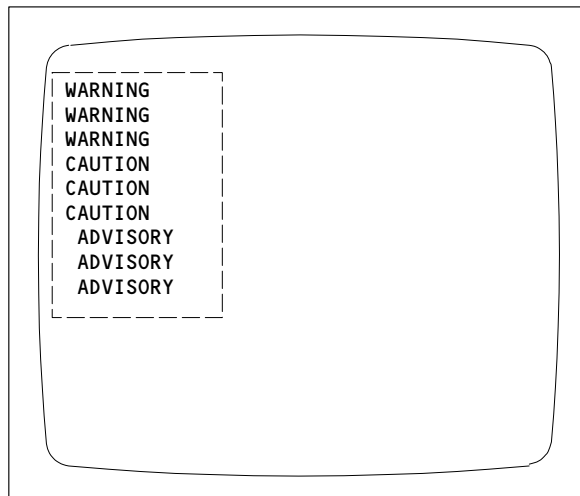
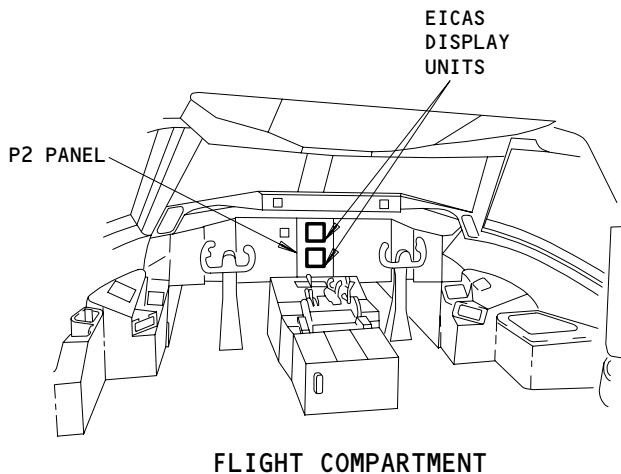
ALL

## 27-EICAS MESSAGES

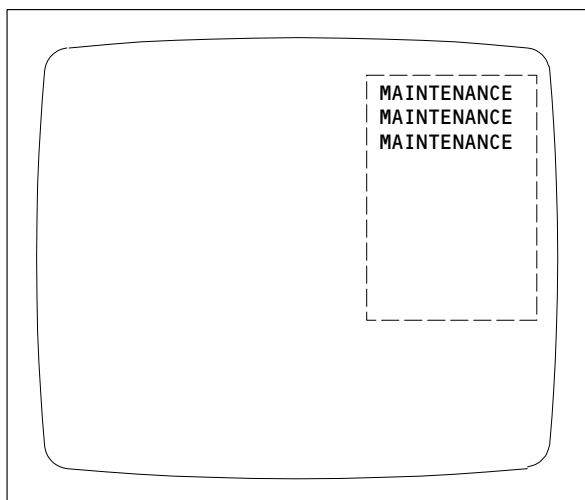
01

Page 1  
Mar 20/91

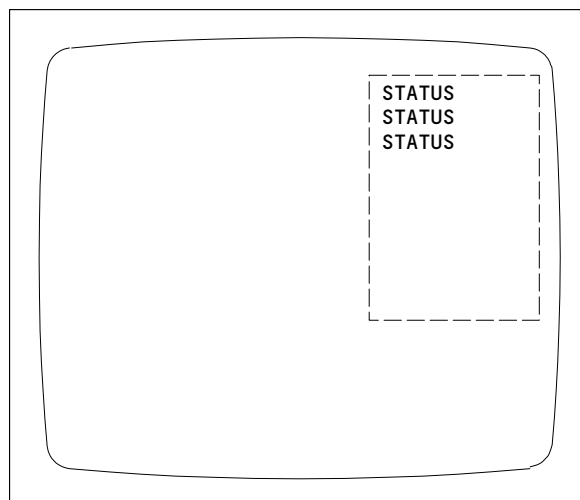
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FAULT ISOLATION/MAINT MANUAL



ENGINE PRIMARY PAGE OR COMPACTED PAGE  
(TOP DISPLAY UNIT)



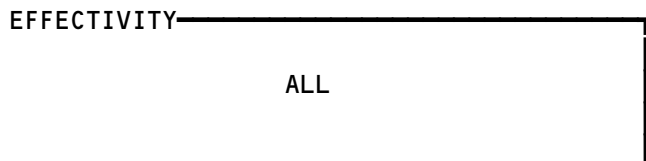
ECS/MSG PAGE  
(BOTTOM DISPLAY UNIT)



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



# 27-EICAS MESSAGES



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EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
AUTO SPEEDBRAKE	C	FIM 27-62-00/101, Fig. 105 FIM 27-62-00/101, Fig. 106 FIM 27-62-00/101, Fig. 107
ELEV ASYM	S, M	FIM 27-09-00/101, Fig. 106
ELEV FEEL	S, M	FIM 27-31-00/101, Fig. 106
ELEV (L, R, C) HYD PRESS	S, M	FIM 27-31-00/101, Fig. 109
FLAP ISLN VAL	S, M	FIM 27-51-00/101, Fig. 115
FLAP LD RELIEF	C,	FIM 27-51-00/101, Fig. 107
FLAP/SLAT BITE	M,	FIM 27-51-00/101, Fig. 111
FLAP/SLAT ELEC	S, M	FIM 27-51-00/101, Fig. 111
FLT CONT VALS	C	FIM 27-23-00/101, Fig. 103
LE SLAT ASYM	B	FIM 27-81-00/101, Fig. 105
(L, R) ELEV PCU	S, M	FIM 27-31-00/101, Fig. 108
(L, R) FLT CONT ELEC	M	FIM 27-09-00/101, Fig. 103
L FLT CONT HYD	C	Replace the rudder/elevator hydraulic shutoff valve, V103.
C FLT CONT HYD	C	Replace the rudder/elevator hydraulic shutoff valve, V102.
R FLT CONT HYD	C	Replace the rudder/elevator hydraulic shutoff valve, V101.
LE SLAT DISAGREE	B	FIM 27-81-00/101, Fig. 104 FIM 27-81-00/101, Fig. 107 FIM 27-81-00/101, Fig. 108

EFFECTIVITY

ALL

## 27-EICAS MESSAGES

01

Page 3  
Sep 28/06





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757  
FAULT ISOLATION/MAINT MANUAL

EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
MACH/SPD TRIM	B	FIM 27-09-00/101, Fig. 106
PCU MONITOR	M	FIM 27-23-00/101, Fig. 104
RUDDER PCU	S, M	FIM 27-21-00/101, Fig. 109
RUDDER RATIO	C, M	FIM 27-21-00/101, Fig. 110
SPOILERS	C, M	FIM 27-09-00/101, Fig. 103
STAB TRIM	C, M	FIM 27-09-00/101, Fig. 103
TE FLAP ASYM	B	FIM 27-51-00/101, Fig. 106
TE FLAP DISAGREE	B	FIM 27-51-00/101, Fig. 105 FIM 27-51-00/101, Fig. 108 FIM 27-51-00/101, Fig. 112
UNSCHED STAB TRIM	B	FIM 27-09-00/101, Fig. 106A
WARN ELEX	S, M	Energize the IRUs (AMM 34-21-00/501). Do the Stall Warning System Operational Test (AMM 27-32-00/501). If the message stays, go to 31-EICAS MESSAGES.

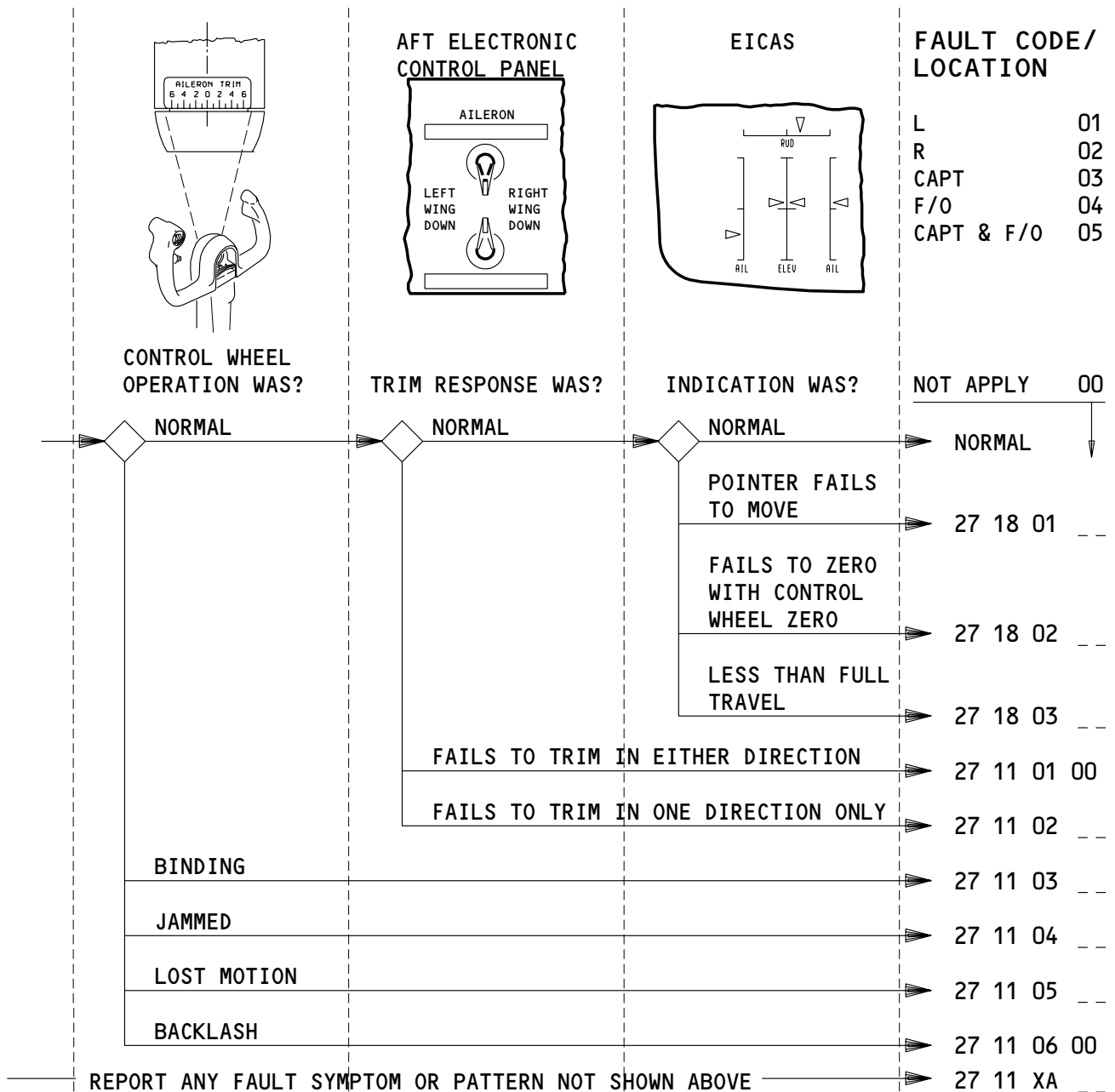
EFFECTIVITY

ALL

## 27-EICAS MESSAGES

05

Page 4  
Jan 28/02



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

- 11J14 AILERON POS (L, LEFT)
- 11J15 AILERON TRIM
- 11J22 AILERON POS RIGHT
- 11J23 AILERON POS (R, RIGHT)

**AILERON - FAULT CODES**

EFFECTIVITY

ALL

**27-FAULT CODE DIAGRAM**

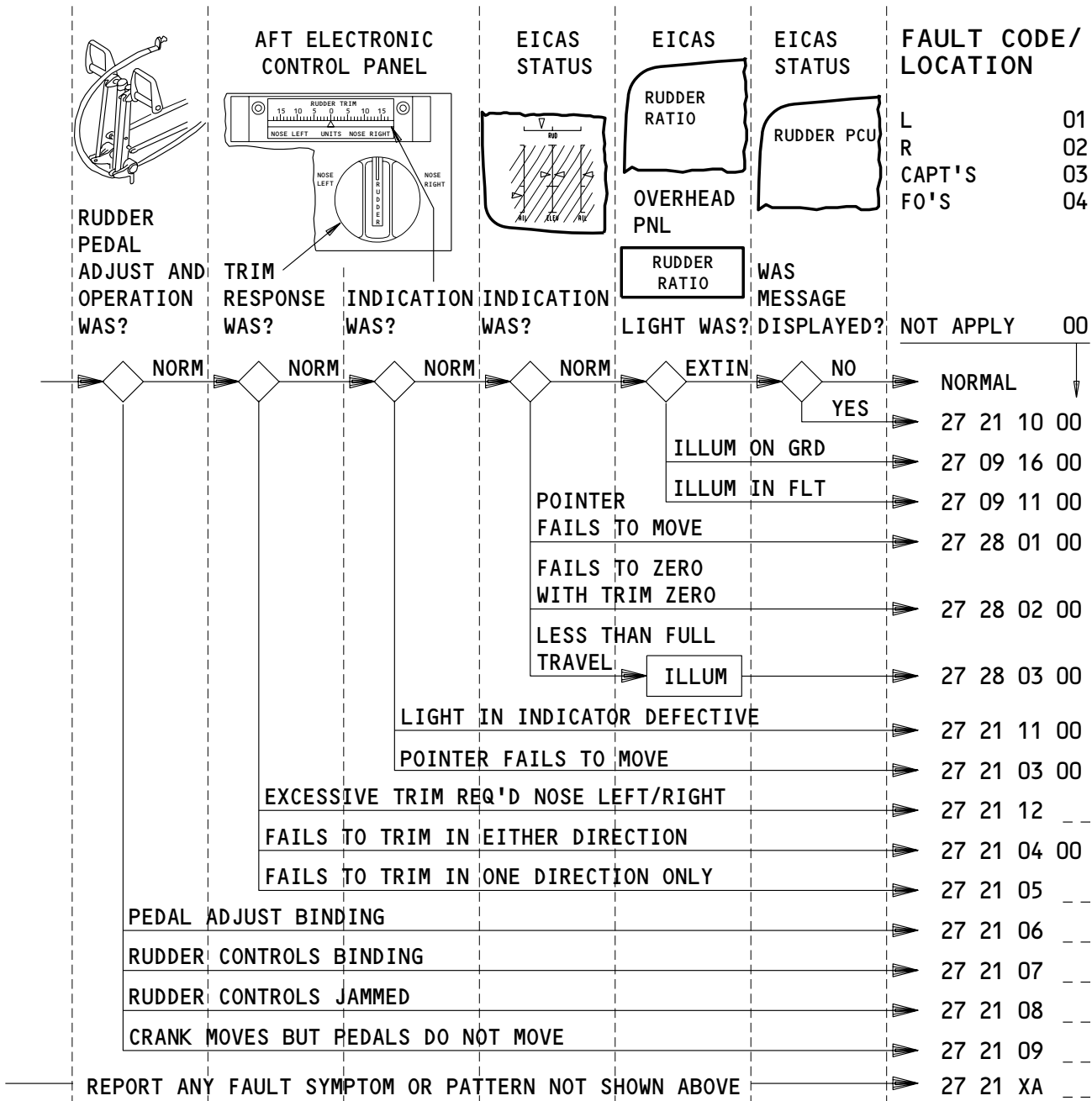
01

Page 1  
Dec 20/96

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11C10	RUD TRIM	11J11	PCU MON MOD
11D18	RUD RATIO	11J16	RUDDER POS
11G10	RUD RATIO	11J17	RUDDER TRIM POS
11J10	PCU MON SENSOR		

### RUDDER - FAULT CODES

EFFECTIVITY

ALL

## 27-FAULT CODE DIAGRAM

01

Page 2  
Dec 20/96

EICAS STATUS

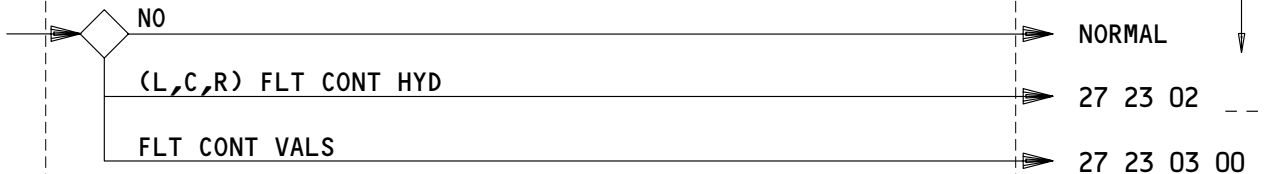
FAULT CODE/  
LOCATION

(L,C,R)  
FLT CONT HYD  
FLT CONT VALS

L	01
C	02
R	03

WAS EICAS MSG DISPLAYED?

NOT APPLY    00



APPLICABLE CIRCUIT BREAKERS

NONE

FLIGHT CONTROL EICAS MESSAGES – FAULT CODES

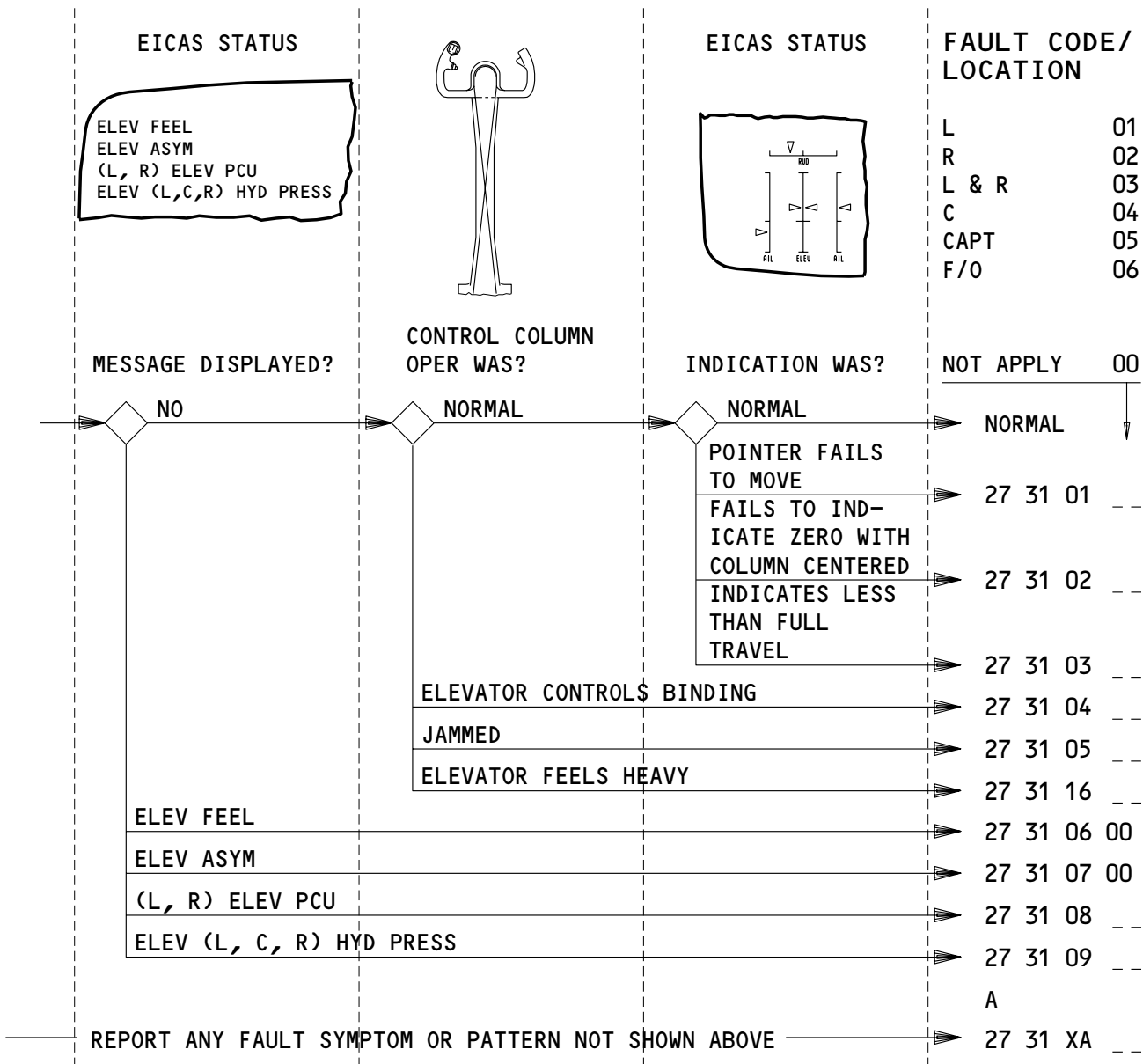
EFFECTIVITY

ALL

## 27-FAULT CODE DIAGRAM

01

Page 3  
Jun 20/90



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

- 11J12 ELEVATOR LIMIT
- 11J13 ELEVATOR POS (L, LEFT)
- 11J22 ELEVATOR POS (R, RIGHT)

**ELEVATOR - FAULT CODES**

EFFECTIVITY

ALL

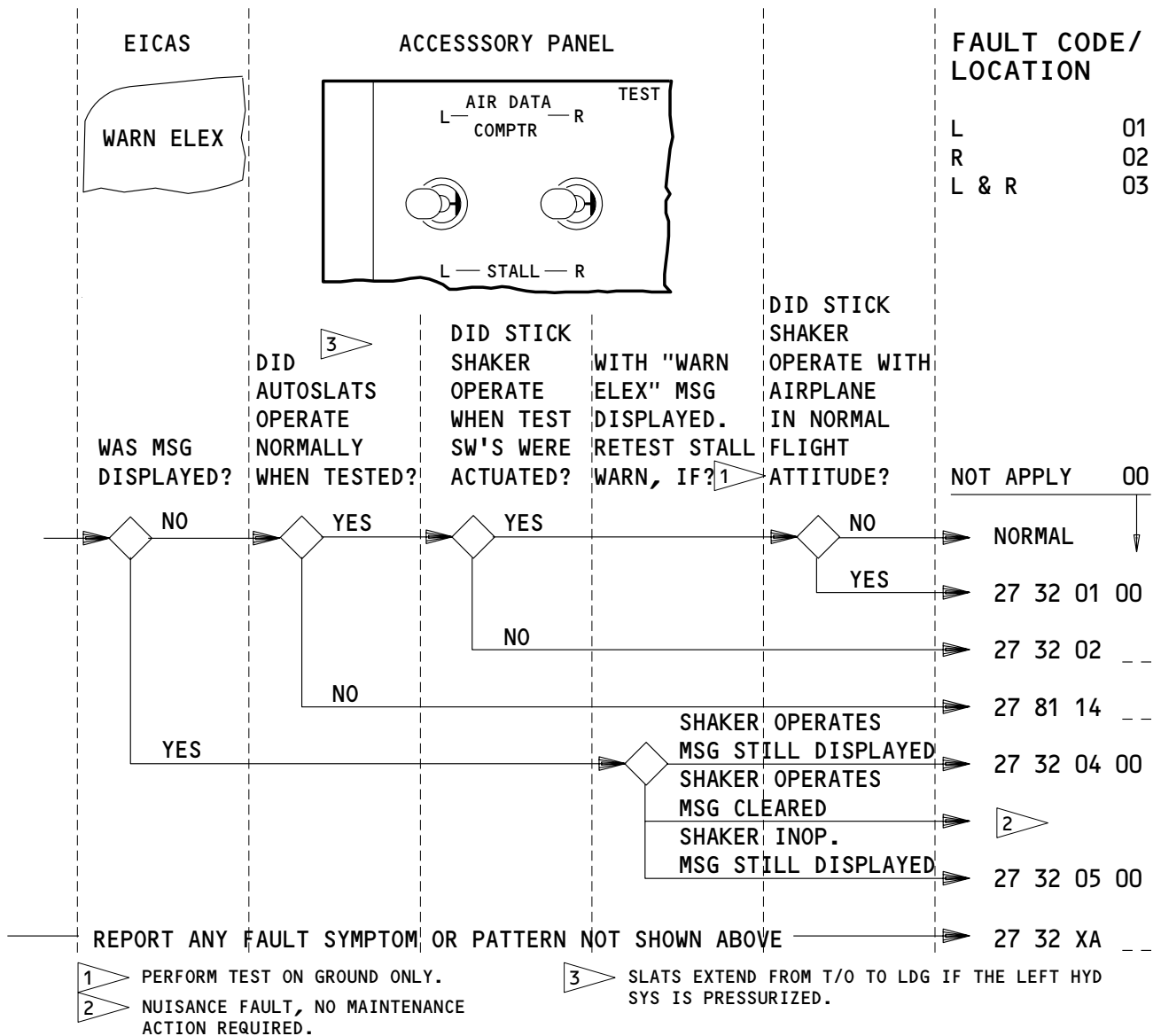
# 27-FAULT CODE DIAGRAM

56135

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



#### APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11B18	WARN ELEX B	11G12	FLAP/SLAT ELEC UNIT 1 POWER
11C11	STICK SHAKER (L, LEFT)	11G12	FSEU - 1 PWR
11C14	FLAP/SLAT ELEC UNIT 2 POWER	11G13	FLAP/SLAT ELEC UNIT 1 CONT
11C14	FSEU - 2 PWR	11G13	FSEU - 1 CONT
11C15	FLAP/SLAT ELEC UNIT 2 CONT	11G14	FLAP/SLAT ELEC UNIT 1 SENSOR
11C15	FSEU - 2 CONT	11G14	FSEU - 1 SENSOR
11C16	FLAP/SLAT ELEC UNIT 2 SENSOR	11J21	STICK SHAKER (R, RIGHT)
11C16	FSEU - 2 SENSOR	11J33	WARN ELEX A

#### STALL WARNING - FAULT CODES

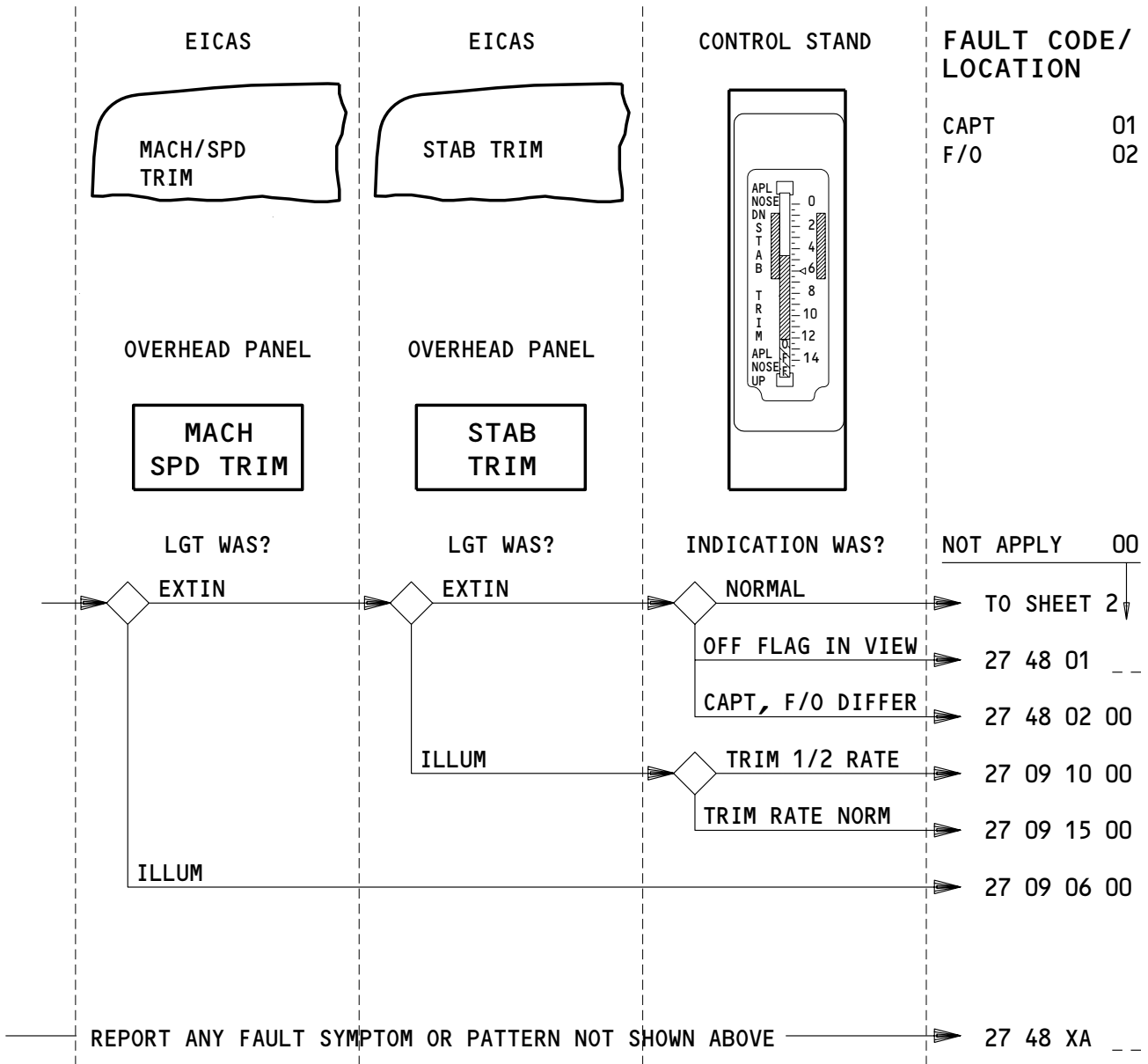
EFFECTIVITY

ALL

## 27-FAULT CODE DIAGRAM

01

Page 5  
Dec 20/96



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11C5	STAB TRIM CONT LEFT	11H10	STAB TRIM POS IND (L, LEFT)
11C12	STAB TRIM SHUTOFF (L, LEFT)	11H10	STAB TRIM LEFT POS IND
11C13	STAB TRIM SHUTOFF (R, RIGHT)	11H11	STAB TRIM LEFT CONT
11F19	STAB POS MOD (C, CENTER)	11H11	STAB TRIM CONT L
11G15	STAB POS MOD (L, LEFT)	11H19	STAB TRIM POS IND (R, RIGHT)
11G24	STAB POS MOD (R, RIGHT)	11H20	STAB TRIM CONT (R, RIGHT)

STABILIZER TRIM (SHEET 1) - FAULT CODES

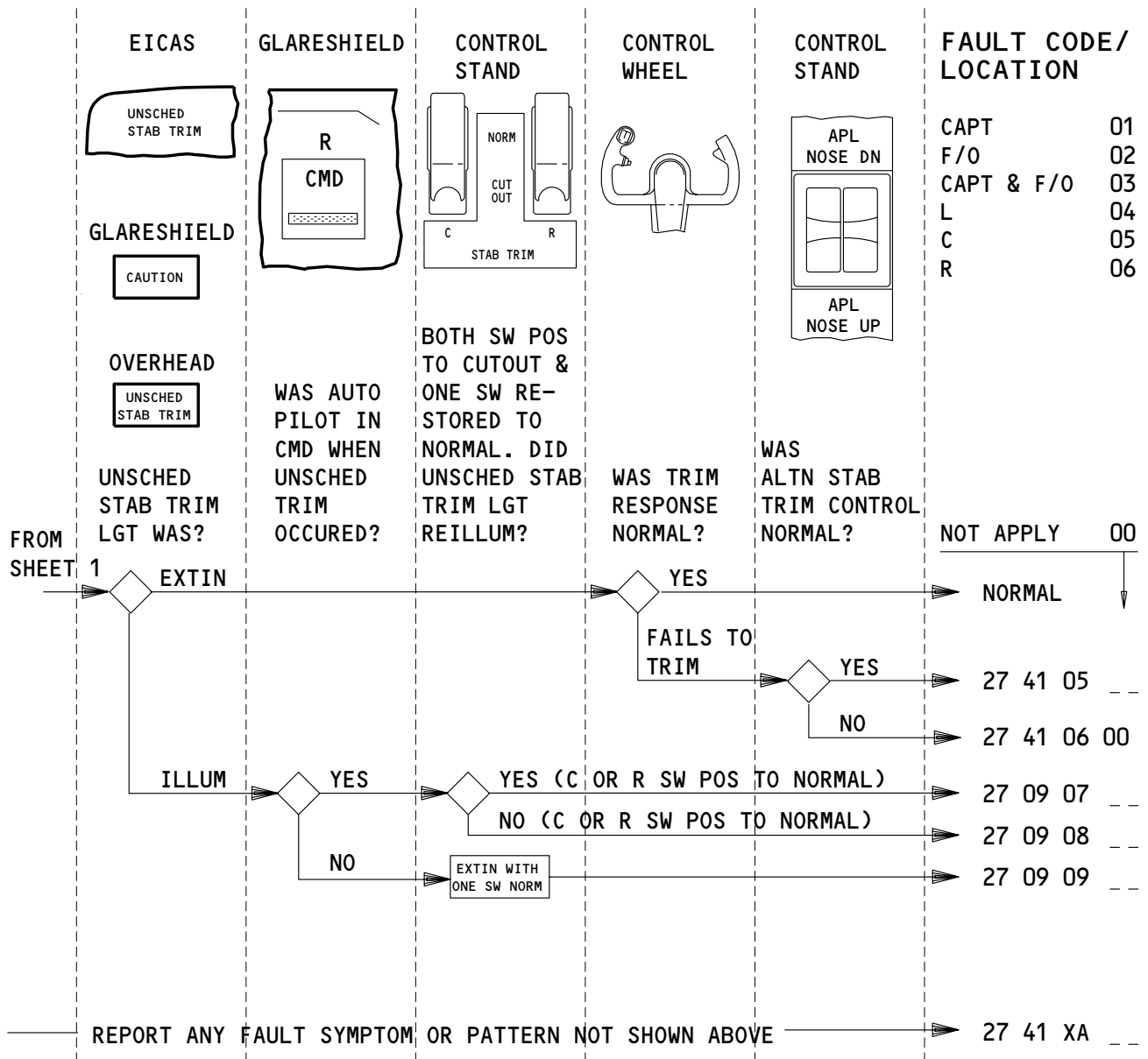
EFFECTIVITY

ALL

# 27-FAULT CODE DIAGRAM

01

Page 6  
Dec 20/96



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11B19	ALTN STAB TRIM	11H10	STAB TRIM LEFT POS IND
11C5	STAB TRIM CONT LEFT	11H10	STAB TRIM POS IND LEFT
11C12	STAB TRIM SHUTOFF LEFT	11H11	STAB TRIM CONT LEFT
11C13	STAB TRIM SHUTOFF RIGHT	11H11	STAB TRIM LEFT CONT
11F19	STAB POS MOD CENTER	11H19	STAB TRIM POS IND RIGHT
11G15	STAB POS MOD LEFT	11H20	STAB TRIM CONT RIGHT
11G24	STAB POS MOD RIGHT		

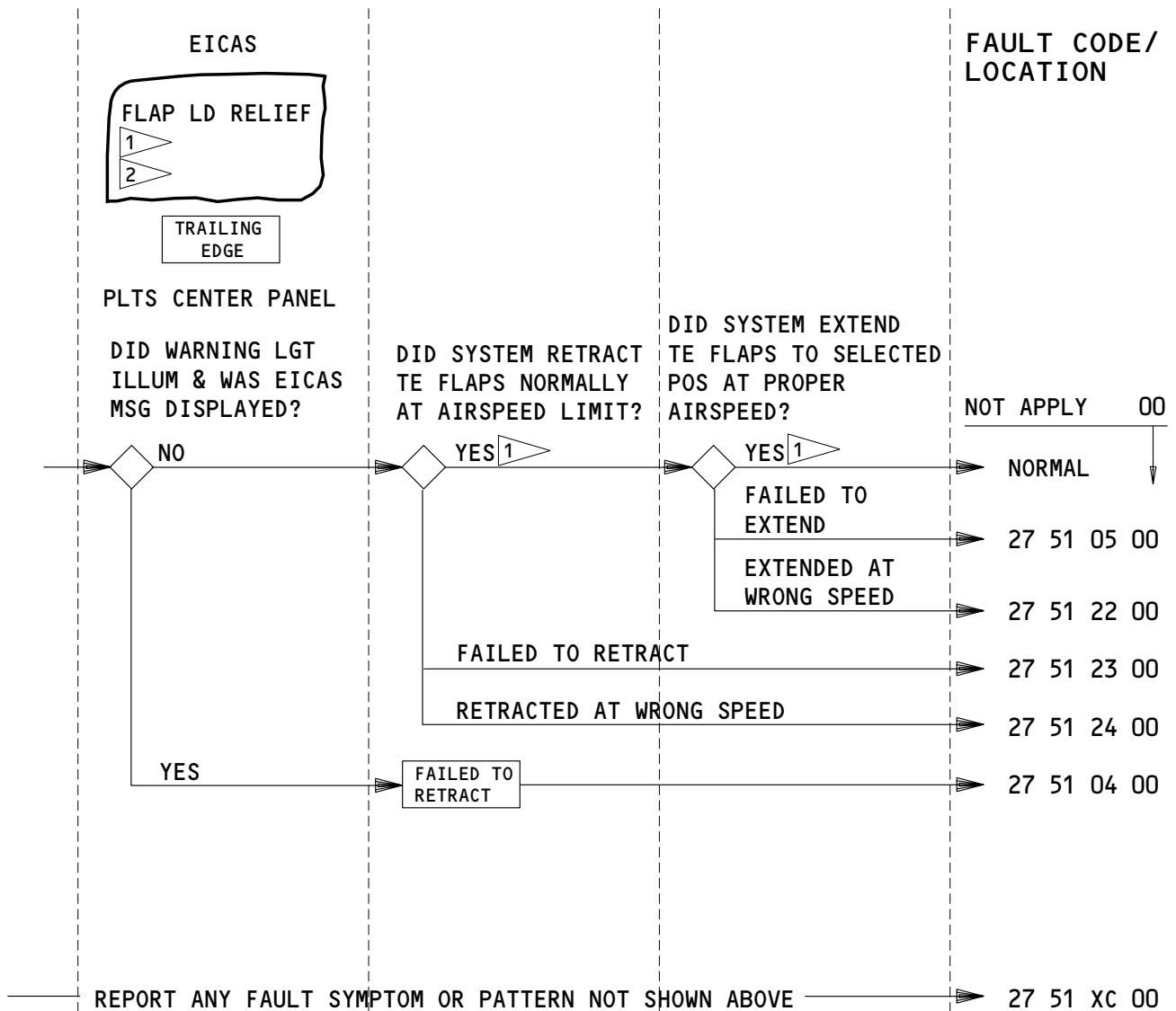
**STABILIZER TRIM (SHEET 2) - FAULT CODES**

EFFECTIVITY  
WITH ALTN STAB TRIM SWITCHES.

**27-FAULT CODE DIAGRAM**







- 1 FLAP LOAD RELIEF OCCURS 2 TO 5 KNOTS ABOVE FLAP PLACARD SPEED AND FLAPS RESET TO SELECTED POSITION WHEN AIRSPEED DECREASES 4 KNOTS BELOW LOAD RELIEF SPEED.
- 2 FLAP LOAD RELIEF PROTECTION IS NOT AVAILABLE WHEN USING ALTERNATE FLAPS.

APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11C14	FLAP/SLAT ELEC UNIT 2 (POWER, PWR)	11G12	FLAP/SLAT ELEC UNIT 1 (POWER, PWR)
11C14	FSEU - 2 PWR	11G12	FSEU - 1 PWR
11C15	FLAP/SLAT ELEC UNIT 2 CONT	11G13	FLAP/SLAT ELEC UNIT 1 CONT
11C15	FSEU - 2 CONT	11G13	FSEU - 1 CONT
11C16	FLAP/SLAT ELEC UNIT 2 SENSOR	11G14	FLAP/SLAT ELEC UNIT 1 SENSOR
11C16	FSEU - 2 SENSOR	11G14	FSEU - 1 SENSOR
		11J18	FLAP LOAD RELIEF

FLAP LOAD RELIEF - FAULT CODES

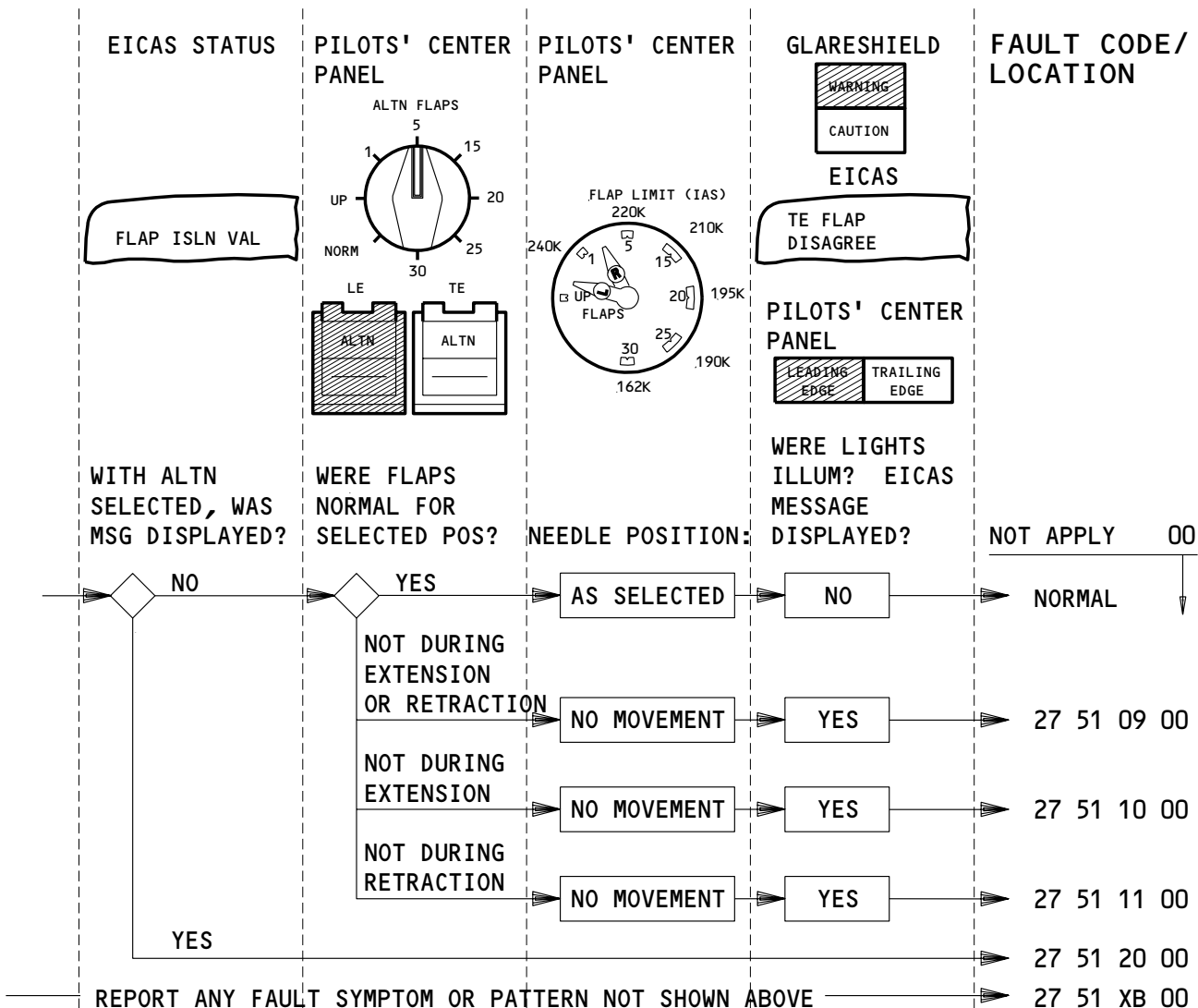
EFFECTIVITY

ALL

# 27-FAULT CODE DIAGRAM

01

Page 9  
Dec 20/96



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

6D23	ALTN FLAP PWR	11G23	FLAP/SLAT ELEC UNIT 3 SENSOR
11C17	FLAP/SLAT SHUTOFF 1	11G23	FSEU-3 SENSOR
11C18	FLAP/SLAT SHUTOFF 1	11H12	FLAP POS IND (L, LEFT)
11G21	FLAP/SLAT ELEC UNIT 3 (POWER, PWR)	11H13	FLAP POS IND (R, RIGHT)
11G21	FSEU-3 PWR	11H14	FLAP SLAT SHUTOFF 1
11G22	FLAP/SLAT ELEC UNIT 3 CONT	11H23	FLAP/SLAT ALTN DR ARM
11G22	FSEU-3 CONT	11H24	FLAP/SLAT SHUTOFF 2

ALTERNATE TRAILING EDGE FLAPS - FAULT CODES

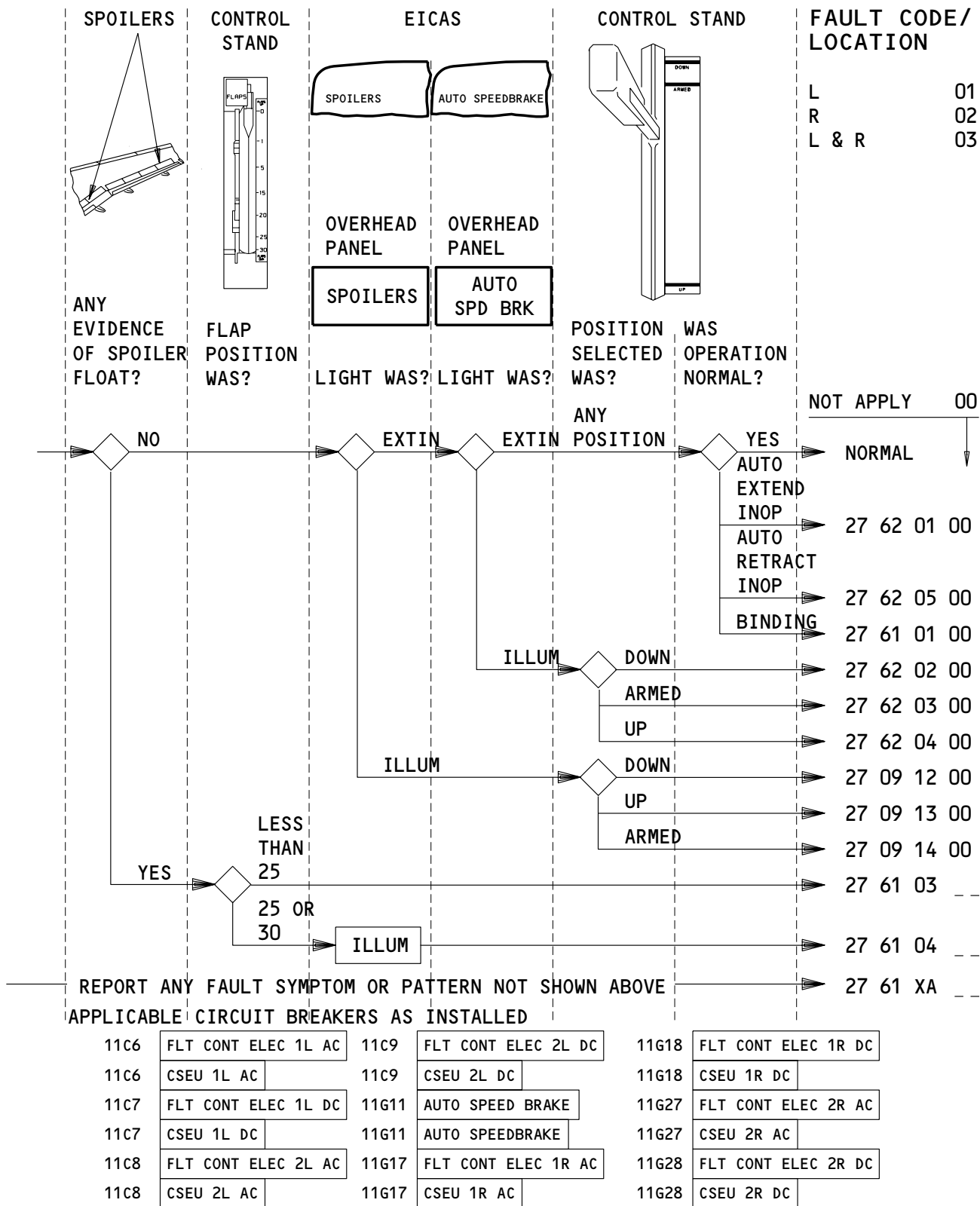
EFFECTIVITY

ALL

# 27-FAULT CODE DIAGRAM

01

Page 10  
Dec 20/96



### SPOILERS/SPEEDBRAKE - FAULT CODES

EFFECTIVITY

ALL

## 27-FAULT CODE DIAGRAM

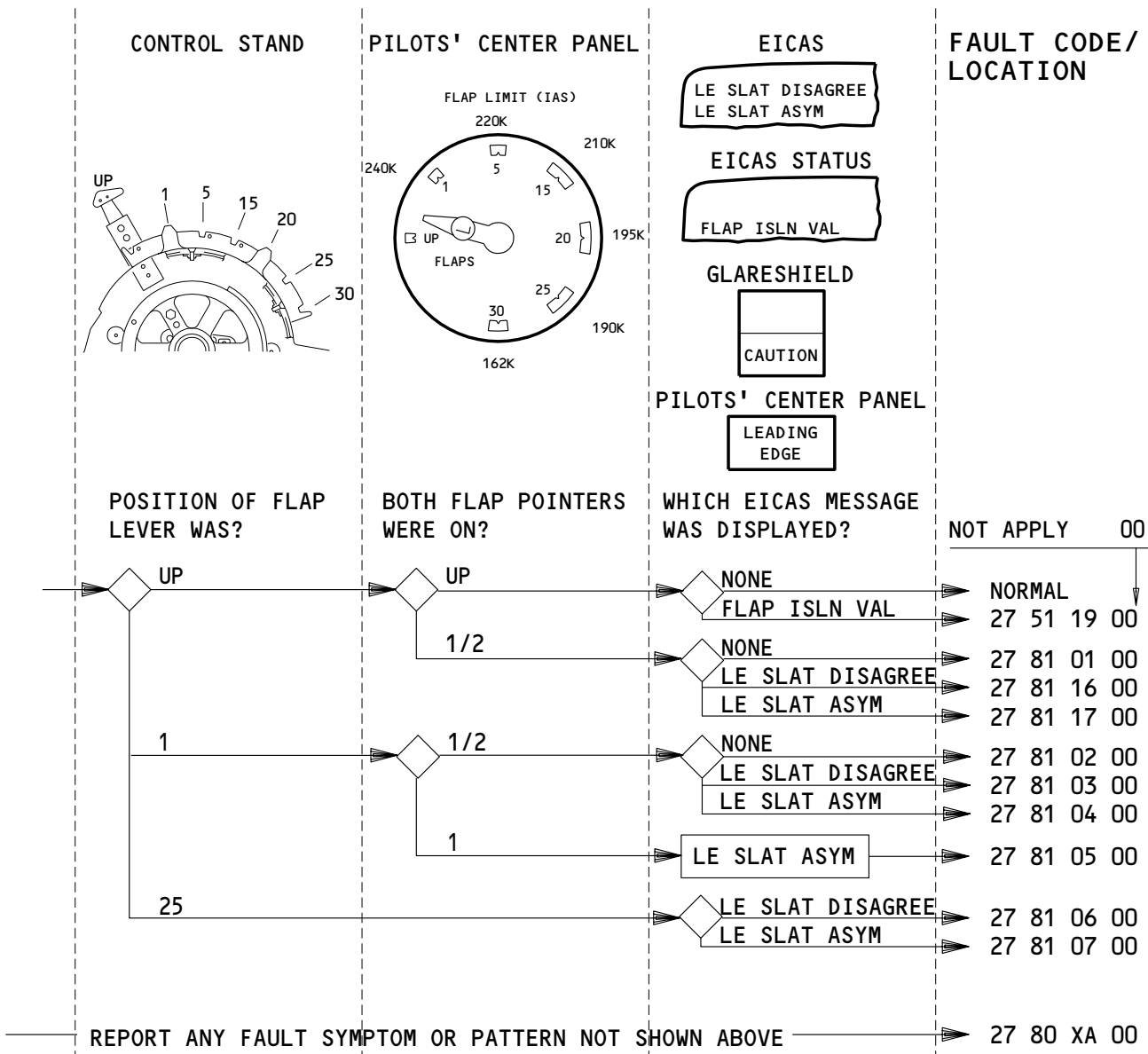
01

Page 11  
Dec 20/96

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



**APPLICABLE CIRCUIT BREAKERS AS INSTALLED**

11C14	FLAP/SLAT ELEC UNIT 2 (POWER, PWR)	11C18	FLAP/SLAT SHUTOFF 1	11G22	FLAP/SLAT ELEC UNIT 3 CONT
11C14	FSEU-2 PWR	11G12	FLAP/SLAT ELEC UNIT 1 (POWER, PWR)	11G22	FSEU-3 CONT
11C15	FLAP/SLAT ELEC UNIT 2 CONT	11G12	FSEU-1 PWR	11G23	FLAP/SLAT ELEC UNIT 3 SENSOR
11C15	FSEU-2 CONT	11G13	FLAP/SLAT ELEC UNIT 1 CONT	11G23	FSEU-3 SENSOR
11C16	FLAP/SLAT ELEC UNIT 2 SENSOR	11G13	FSEU-1 CONT	11H12	FLAP POS IND (L, LEFT)
11C16	FSEU-2 SENSOR	11G14	FLAP/SLAT ELEC UNIT 1 SENSOR	11H13	FLAP POS IND (R, RIGHT)
11C17	FLAP/SLAT ELEC UNIT 1 CONT	11G14	FSEU-1 SENSOR	11H14	FLAP SLAT SHUTOFF 1
11C17	FSEU-1 CONT	11G21	FLAP/SLAT ELEC UNIT 3 (POWER, PWR)	11H23	FLAP/SLAT ALTN DR ARM
11C17	FLAP/SLAT SHUTOFF 1	11G21	FSEU-3 PWR	11H24	FLAP/SLAT SHUTOFF 2

### LEADING EDGE SLATS - FAULT CODES

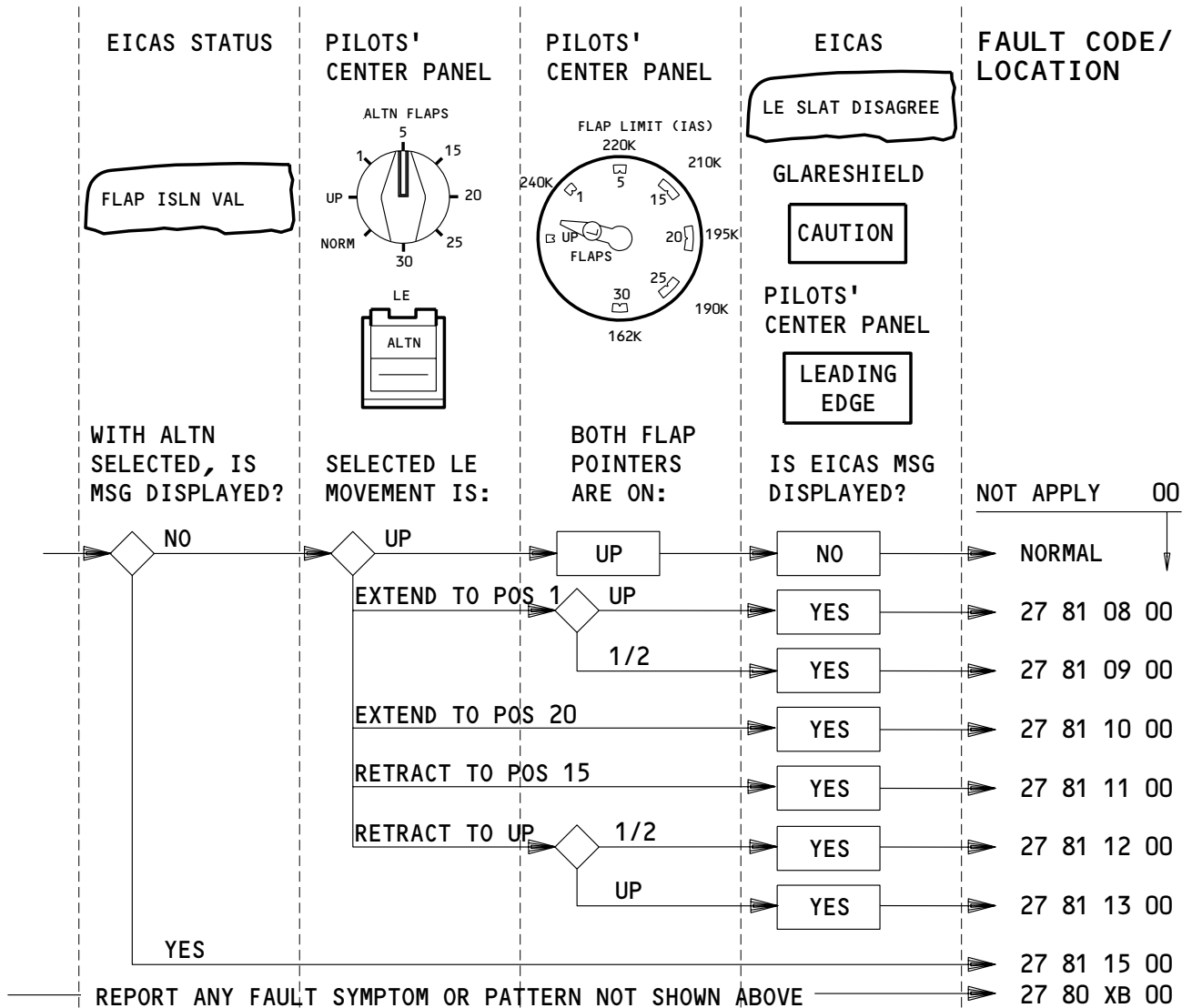
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ALL

## 27-FAULT CODE DIAGRAM

56144

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757  
FAULT ISOLATION/MAINT MANUAL



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

6D20	ALTN SLAT PWR	11G23	FLAP/SLAT ELEC UNIT 3 SENSOR
6D23	ALTN FLAP PWR	11G23	FSEU-3 SENSOR
11C17	FLAP/SLAT SHUTOFF 1	11H12	FLAP POS IND (L, LEFT)
11C18	FLAP/SLAT SHUTOFF 1	11H13	FLAP POS IND (R, RIGHT)
11G21	FLAP/SLAT ELEC UNIT 3 (POWER, PWR)	11H14	FLAP SLAT SHUTOFF 1
11G21	FSEU-3 PWR	11H23	FLAP/SLAT ALT DR ARM
11G22	FLAP/SLAT ELEC UNIT 3 CONT	11H24	FLAP/SLAT SHUTOFF 2
11G22	FSEU-3 CONT		

ALTERNATE LEADING EDGE SLATS - FAULT CODES

EFFECTIVITY

ALL

27-FAULT CODE DIAGRAM

01

Page 13  
Dec 20/96



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 11 XA --	An (01=L,02=R,03=L&R) aileron problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-10-01
27 21 XA --	A (01=L,02=R) rudder or a (03=CAPT's,04=F/O's) rudder pedal problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-20-01, SSM 27-20-02
27 31 XA --	An (01=L,02=R,03=L&R) elevator, a (05=CAPT,06=F/O) control column, or an (01=L,02=R,04=C) elevator EICAS message problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-30-01
27 32 XA --	A (01=L,02=R,03=L&R) stall warning problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-32-01, SSM 27-32-02
27 41 XA --	A (01=CAPT,02=F/O,03=CAPT & F/O) stabilizer trim problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-41-01
27 48 XA --	A (01=CAPT,02=F/O,03=CAPT & F/O) stabilizer trim and indications problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-48-01

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

01

Page 1  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 51 XA --	A (01=LEFT,02=RIGHT,03=LEFT & RIGHT) trailing edge flaps problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-50-01, SSM 27-51-01 thru SSM 27-51-03, SSM 27-51-05, SSM 27-51-06, SSM 27-58-01
27 51 XB 00	An alternate trailing edge flaps problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-51-04
27 51 XC 00	A flap load relief problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-51-03
27 61 XA 00	A spoilers/speed brakes problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-61-01, SSM 27-62-01
27 80 XA 00	A leading edge slats problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-81-01, SSM 27-81-03 thru SSM 27-81-05
27 80 XB 00	An alternate leading edge slats problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 27-81-02
27 09 01 00	EICAS message: L FLT CONT ELEC displayed.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 02 00	EICAS message: R FLT CONT ELEC displayed.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 03 00	EICAS message: RUDDER RATIO displayed.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 04 00	EICAS message: SPOILERS displayed.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 05 00	EICAS message: STAB TRIM displayed.	FIM 27-09-00/101, Fig. 103, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

01

Page 2  
Sep 20/08





**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 09 06 00	EICAS message MACH/SPD TRIM displayed and MACH SPD TRIM light on.	FIM 27-09-00/101, Fig. 106, Block 1
27 09 07 __	UNSCHED STAB TRIM light on. Light off when both trim cutout switches positioned to CUTOUT. Light remained on when (05=C, 06=R) switch returned to NORM. Other switch in NORM operated normal. Autopilot (L, C or R) was in CMD when unscheduled trim occurred.	FIM 27-09-00/101, Fig. 106A, Block 1
27 09 08 __	UNSCHED STAB TRIM light on. Light off when both trim cutout switches positioned to CUTOUT. Light remained off when (05=C, 06=R) switch restored to NORM. Other switch was not positioned to NORM. Autopilot (L, C or R) was in CMD when unscheduled trim occurred.	FIM 27-09-00/101, Fig. 106A, Block 1
27 09 09 __	UNSCHED STAB TRIM light on. Light off when both trim cutout switches positioned to CUTOUT. Light remained off when (05=C, 06=R) switch restored to NORM. Autopilot was off when unscheduled trim occurred.	FIM 27-09-00/101, Fig. 106A, Block 1
27 09 10 00	EICAS message: STAB TRIM displayed & STAB TRIM light on. Stabilizer trim operates at 1/2 rate.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 11 00	RUDDER RATIO light on in flight. EICAS message: RUDDER RATIO displayed.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 12 00	SPOILERS light on. EICAS msg SPOILERS displayed with spoilers selected down. Airplane was (inflight, on the ground).	FIM 27-09-00/101, Fig. 103, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

02

Page 3  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 09 13 00	SPOILERS light on and EICAS msg SPOILERS displayed with speedbrakes selected up. Airplane was inflight, on the ground.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 14 00	SPOILERS light on and EICAS msg SPOILERS displayed with speedbrakes selected to the armed position. Airplane was inflight, on the ground.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 15 00	EICAS msg STAB TRIM displayed & STAB TRIM light on. Stabilizer trim rate was norm.	FIM 27-09-00/101, Fig. 103, Block 1
27 09 16 00	RUDDER RATIO light on, on the gnd. EICAS message: RUDDER RATIO displayed.	FIM 27-21-00/101, Fig. 110, Block 1
27 11 01 00	Aileron trim failed to trim in either direction.	FIM 27-11-00/101, Fig. 104, Block 1
27 11 02 --	Aileron trim failed to trim in (01=L,02=R) wing down direction.	FIM 27-11-00/101, Fig. 105, Block 1
27 11 03 --	(03=Capt,04=F/O,05=Capt & F/O) Aileron control wheel binding.	FIM 27-11-00/101, Fig. 106, Block 1
27 11 03 05	Captain's and F/O's aileron control wheel binding.	FIM 27-11-00/101, Fig. 107, Block 1
27 11 04 --	(03=Capt,04=F/O) Aileron control wheel jammed.	FIM 27-11-00/101, Fig. 108, Block 1
27 11 05 --	(03=Capt,04=F/O,05=Capt & F/O) Aileron control has lost motion.	Adjust the Aileron and Aileron Trim Control System (AMM 27-11-00/501).
27 11 06 00	Aileron control wheel has backlash.	Do the Lateral Control Wheel Inspection/Check (AMM 27-11-02/601).
27 18 01 --	(01=L,02=R) Ail ind pointer(s) failed to indicate aileron movement.	FIM 27-18-00/101, Fig. 104, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

02

Page 4  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 18 02 --	(01=L,02=R) Ail ind pointer(s) failed to zero with control wheel zero.	FIM 27-18-00/101, Fig. 105, Block 1
27 18 03 --	(01=L,02=R) Ail ind pointer(s) indicate less than full travel.	FIM 27-18-00/101, Fig. 106, Block 1
27 21 03 00	Rudder trim pointer fails to move.	FIM 27-21-00/101, Fig. 105, Block 1
27 21 04 00	Rudder trim failed to trim in either direction.	FIM 27-21-00/101, Fig. 106, Block 1
27 21 05 --	Rudder trim failed to trim in (01=L,02=R) direction.	FIM 27-21-00/101, Fig. 106, Block 1
27 21 06 --	(03=CAPT's,04=F/O's) Rudder pedal adjustment binding.	FIM 27-21-00/101, Fig. 108, Block 1
27 21 07 --	(03=CAPT's,04=F/O's) Rudder control binding.	FIM 27-21-00/101, Fig. 107, Block 1
27 21 08 --	(03=CAPT's,04=F/O's) Rudder control jammed.	FIM 27-21-00/101, Fig. 107, Block 1
27 21 09 --	(03=CAPT's,04=F/O's) Rudder adjustment crank moves but pedals do not move.	FIM 27-21-00/101, Fig. 108, Block 2
27 21 10 00	EICAS message: RUDDER PCU displayed.	FIM 27-21-00/101, Fig. 109, Block 1
27 21 11 00	Light in rudder trim position indicator defective (out, intermittent etc.).	Replace the lamp for the light (AMM 33-13-00/201). If the problem continues, examine the wires (WDM 33-13-52).
27 21 12 --	_____ units rudder trim required in nose (01=L,02=R) direction while in climb, cruise, or descent, explain condition.	FIM 27-21-00/101, Fig. 106, Block 1
27 23 01 00	EICAS message: PCU MONITOR displayed.	FIM 27-23-00/101, Fig. 104, Block 1
27 23 02 --	EICAS msg (01=L,02=C,03=R) FLT CONT HYD displayed.	Replace the shutoff valve for the (01=L,02=C,03=R) hydraulic system (AMM 27-23-01/201).

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

02

Page 5  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 23 03 00	EICAS msg FLT CONT VALS displayed.	FIM 27-23-00/101, Fig. 103, Block 1
27 28 01 00	RUD pos ind fails to ind rudder movement.	FIM 27-28-00/101, Fig. 103, Block 1
27 28 02 00	RUD pos ind fails to ind zero with RUDDER TRIM zero.	FIM 27-28-00/101, Fig. 103, Block 1
27 28 03 00	RUD ind indicates less than full travel.	FIM 27-28-00/101, Fig. 103, Block 1
27 31 01 --	(01=L,02=R,03=L & R) Elevator position ind fails to move with control column movement.	FIM 27-31-00/101, Fig. 104, Block 2
27 31 02 --	(01=L,02=R,03=L & R) Elevator position ind fails to indicate zero with control column centered.	FIM 27-31-00/101, Fig. 104, Block 3
27 31 03 --	(01=L,02=R,03=L & R) Elevator position indicates less than full travel.	FIM 27-31-00/101, Fig. 104, Block 4
27 31 04 --	(05=Capt,06=F/O) Elevator control is binding.	FIM 27-31-00/101, Fig. 105, Block 1
27 31 05 --	(05=Capt,06=F/O) Elevator control is jammed.	FIM 27-31-00/101, Fig. 105, Block 1
27 31 06 00	EICAS message: ELEV FEEL DISPLAYED.	FIM 27-31-00/101, Fig. 106, Block 1
27 31 07 00	EICAS message: ELEV ASYM displayed.	FIM 27-09-00/101, Fig. 106, Block 1
27 31 08 --	EICAS message: (01=L,02=R) ELEV PCU displayed.	FIM 27-31-00/101, Fig. 108, Block 1
27 31 09 --	EICAS message: ELEV (01=L,04=C,02=R) HYD PRESS displayed.	FIM 27-31-00/101, Fig. 109, Block 1
27 31 10 00	EICAS message: ELEV C HYD PRESS displayed.	FIM 27-31-00/101, Fig. 109, Block 1
27 31 11 00	EICAS message: ELEV L HYD PRESS displayed.	FIM 27-31-00/101, Fig. 109, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

02

Page 6  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 31 12 00	EICAS message: ELEV R HYD PRESS displayed.	FIM 27-31-00/101, Fig. 109, Block 1
27 31 14 00	EICAS message: L ELEV PCU displayed.	FIM 27-31-00/101, Fig. 108, Block 1
27 31 14 00	EICAS message: L ELEV PCU displayed.	FIM 27-31-00/101, Fig. 108, Block 1
27 31 16 --	(05=Capt,06=F/O) Elevator feels heavy.	Adjust the Mechanical Linkage on the Feel and Centering Unit (AMM 27-31-00/501).
27 32 01 00	Stick shaker operates with airplane in normal flt attitude.	FIM 27-32-00/101, Fig. 103, Block 1
27 32 02 --	Stick shaker failed to operate when (01=L,02=R,03=L&R) stall warning test switch was actuated.	FIM 27-32-00/101, Fig. 103, Block 3
27 32 03 --	SPD LIM displayed on (01=Capt, 02=F/O) ADI.	FIM 27-32-00/101, Fig. 103
27 32 04 --	EICAS message: WARN ELEX displayed. Stick shaker operated when stall warning test switch was actuated, message did not clear.	FIM 27-32-00/101, Fig. 103, Block 1
27 32 05 --	EICAS message: WARN ELEX displayed. Stick shaker inoperative when stall warning test switch was actuated, message did not clear.	FIM 27-32-00/101, Fig. 103, Block 1
27 41 01 00	Stab trim manual control lever binding.	FIM 27-41-00/101, Fig. 104, Block 1
27 41 02 --	Stab trim failed to operate using (01=Capt,02=F/O,03=Capt & F/O) control wheel sw(s). Manual control was normal.	FIM 27-09-00/101, Fig. 106, Block 1
27 41 03 00	Stab trim fails to operate using electric trim SWS. Manual control is also inoperative.	Replace the stabilizer ballscrew actuator (AMM 27-41-10/401).

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

03

Page 7  
Sep 20/08


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 41 04 00	Stab trim manual control levers split.	Adjust the Control Lever Rod on the Stabilizer Trim Control Module (AMM 27-41-00/501). Do the Horizontal Stabilizer Trim Control System Adjustment - Body Cables (AMM 27-41-00/501).
27 41 05 --	Stab trim failed to operate using (01=Capt,02=F/O,03=Capt & F/O) control wheel sw(s). ALTN control was normal.	Do the BITE procedure on the SAM, FIM 27-09-00/101, Fig.106, Block 1.
27 41 06 00	Stab trim fails to operate using electric trim SWS. ALTN control was also inoperative.	
27 48 01 --	(01=CAPT's,02=F/O's) control stand stab trim indicator OFF flag in view.	FIM 27-48-00/101, Fig. 104, Block 1
27 48 02 00	Control stand stab trim indicators differ.	FIM 27-48-00/101, Fig. 105, Block 1
27 51 01 00	EICAS message: TE FLAP DISAGREE when TE flap position selected. Flaps failed to move to selected position.	FIM 27-51-00/101, Fig. 104, Block 1
27 51 02 --	(01=Left,02=Right,03=Left & Right) Flap position indicator needle(s) (inoperative, stick) during TE flaps operation.	FIM 27-51-00/101, Fig. 109, Block 1
27 51 03 00	EICAS message: TE FLAP ASYM. No flap movement.	FIM 27-51-00/101, Fig. 104, Block 1
27 51 04 00	EICAS msg FLAP LD RELIEF displayed and TRAILING EDGE lgt on pilots' center panel on. Flaps failed to retract when flap placard speed was exceeded. Airspeed was ___ knots.	FIM 27-51-00/101, Fig. 107, Block 1
27 51 05 00	EICAS message: TE FLAP DISAGREE displayed. Flaps 30 selected. Flaps failed to extend to pos 30 with A/S less than 165 k.	FIM 27-51-00/101, Fig. 104, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

05

Page 8  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 51 06 00	TE flaps very slow when moving to the selected position. EICAS message TE FLAP DISAGREE.	FIM 27-51-00/101, Fig. 104, Block 1
27 51 07 00	TE flaps move to selected position at a rate faster than normal.	Replace the flap/slat depressurization module (AMM 27-51-29/201).
27 51 08 00	Flap Lever jams, binds, or is rough when selecting any flap position.	FIM 27-51-00/101, Fig. 110, Block 1
27 51 09 00	TRAILING EDGE FLAPS will not extend or retract when using the alternate mode. EICAS msg TE FLAP DISAGREE displayed.	FIM 27-51-00/101, Fig. 112, Block 1
27 51 10 00	TRAILING EDGE FLAPS will not extend when using the alternate mode. EICAS msg TE FLAP DISAGREE displayed.	FIM 27-51-00/101, Fig. 112, Block 1
27 51 11 00	TRAILING EDGE FLAPS will not retract when using the alternate mode. EICAS msg TE FLAP DISAGREE displayed.	FIM 27-51-00/101, Fig. 112, Block 1
27 51 12 00	EICAS message: FLAP ISLN VAL displayed.	FIM 27-51-00/101, Fig. 115, Block 1
27 51 13 00	EICAS message: FLAP/SLAT ELEC displayed.	FIM 27-51-00/101, Fig. 111, Block 1
27 51 14 00	EICAS message: FLAP/SLAT BITE displayed.	FIM 27-51-00/101, Fig. 111, Block 1
27 51 15 00	Flaps failed to move. TRAILING EDGE light on and EICAS msgs TE FLAP DISAGREE and FLAP ISLN VAL displayed.	FIM 27-51-00/101, Fig. 104, Block 1
27 51 16 00	Flaps failed to move. TRAILING EDGE light on and EICAS msgs TE FLAP DISAGREE and FLAP ISLN VAL displayed. Flaps operate normal using TE ALTN system.	FIM 27-51-00/101, Fig. 104, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

05

Page 9  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 51 17 00	Flaps fail to move. TRAILING EDGE light on and EICAS msgs TE FLAP DISAGREE displayed. Flaps operate normal using TE ALTN system.	FIM 27-51-00/101, Fig. 104, Block 1
27 51 18 00	Flaps fail to move. TRAILING EDGE light on and EICAS msg TE FLAP DISAGREE displayed. Flaps also inoperative on TE ALTN system.	FIM 27-51-00/101, Fig. 104, Block 1
27 51 19 00	EICAS status msg FLAP ISLN VAL displayed with flaps up.	FIM 27-51-00/101, Fig. 115, Block 1
27 51 20 00	EICAS msg FLAP ISLN VAL displayed when altn TE flaps selected.	FIM 27-51-00/101, Fig. 115, Block 1
27 51 21 00	Flaps failed to move. TRAILING EDGE light on and EICAS msgs TE FLAP DISAGREE and FLAP ISLN VAL displayed. Flaps also inoperative using TE ALTN system.	FIM 27-51-00/101, Fig. 112, Block 1
27 51 22 00	Trailing edge flaps extended to selected setting at the wrong airspeed following load relief. Airspeed was ____ knots.	FIM 27-51-00/101, Fig. 117, Block 1
27 51 23 00	Trailing edge flaps failed to retract to lower flap setting when flap placard speed was exceeded. Flap setting was _____. Airspeed was ____ knots.	FIM 27-51-00/101, Fig. 116, Block 1
27 51 24 00	Trailing edge flaps retracted to lower flap setting at wrong airspeed. Airspeed was ____ knots.	FIM 27-51-00/101, Fig. 116, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

05

Page 10  
Sep 20/08





**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 51 25 --	(01=Left,02=Right,03=Left & Right) Flap position indicator needle(s) does not jump to a position halfway between flaps up and flaps 1 and does not jump from halfway position to flaps 1 position.	Replace LE/TE transfer relay K10244 in P36 (WDM 27-58-11).
27 61 01 00	Speedbrake Lever is binding.	FIM 27-61-00/101, Fig. 104, Block 1
27 61 03 --	(01=Left,02=Right,03=Left and Right) Wing spoiler(s) float (state panel(s) and amount of float if known).	FIM 27-61-00/101, Fig. 104A, Block 1
27 61 04 --	SPOILERS light on and EICAS msg SPOILERS displayed with flaps selected (25, 30). Uncommanded airplane roll (01=L,02=R) encountered (if roll was not encountered, state none)(state panel(s) and amount of float, if known).	FIM 27-61-00/101, Fig. 103, Block 1
27 62 01 00	Speedbrake Lever failed to extend automatically on ldg.	FIM 27-62-00/101, Fig. 104, Block 1
27 62 02 00	AUTO SPD BRK lgt on with speedbrake lever down. EICAS msg AUTO SPEEDBRAKE displayed. Airplane was inflight, on the ground.	FIM 27-62-00/101, Fig. 105, Block 1
27 62 03 00	AUTO SPD BRK lgt on with speedbrake lever armed. EICAS msg AUTO SPEEDBRAKE displayed. Airplane was inflight, on the ground.	FIM 27-62-00/101, Fig. 106, Block 1
27 62 04 00	AUTO SPD BRK lgt on with speedbrake lever armed. EICAS msg AUTO SPEEDBRAKE displayed. Airplane was inflight, on the ground.	FIM 27-62-00/101, Fig. 107, Block 1
27 62 05 00	Speedbrakes failed to auto retract during touch and go.	FIM 27-62-00/101, Fig. 104, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

05

Page 11  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 81 01 00	Both flap pointers are on 1/2 with the flap lever in up. No leading edge EICAS messages are displayed.	FIM 27-88-00/101, Fig. 104, Block 1
27 81 02 00	Both flap pointers indicate 1/2 with the flap lever 1. No leading edge EICAS messages are displayed.	FIM 27-88-00/101, Fig. 105, Block 1
27 81 03 00	EICAS message: LE SLAT DISAGREE displayed with the flap lever in 1. Both flap pointers indicate 1/2.	FIM 27-81-00/101, Fig. 104, Block 1
27 81 04 00	EICAS message: LE SLAT ASYM displayed with the flap lever in 1. Both flap pointers indicate 1/2.	FIM 27-81-00/101, Fig. 105, Block 1
27 81 05 00	EICAS message: LE SLAT ASYM displayed with the flap lever 1. Both flap pointers indicate 1.	FIM 27-81-00/101, Fig. 105, Block 1
27 81 06 00	EICAS message: LE SLAT DISAGREE displayed with the flap lever in 25.	FIM 27-81-00/101, Fig. 104, Block 1
27 81 07 00	EICAS message: LE SLAT ASYM displayed with the flap lever in 25.	FIM 27-81-00/101, Fig. 105, Block 1
27 81 08 00	EICAS message: LE SLAT DISAGREE displayed when slat extension to pos 1 is selected with ALTN slat drive system. Both flap pointers stayed on UP.	FIM 27-81-00/101, Fig. 107, Block 1
27 81 09 00	EICAS message: LE SLAT DISAGREE displayed when slat extension to pos 1 is selected with ALTN slat drive system. Both flap pointers stayed halfway between UP and 1.	FIM 27-81-00/101, Fig. 107, Block 1

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

05

Page 12  
Sep 20/08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
27 81 10 00	EICAS message: LE SLAT DISAGREE displayed when slat extension to pos 20 is selected with ALTN slat drive system.	FIM 27-81-00/101, Fig. 107, Block 1
27 81 11 00	EICAS message: LE SLAT DISAGREE displayed when slat retraction to pos 15 is selected with ALTN slat drive system.	FIM 27-81-00/101, Fig. 108, Block 1
27 81 12 00	EICAS message: LE SLAT DISAGREE displayed when slat retraction to UP is selected with ALTN slat drive system. Both flap pointers stayed halfway between UP and 1.	FIM 27-81-00/101, Fig. 108, Block 1
27 81 13 00	EICAS message: LE SLAT DISAGREE displayed when slat retraction to UP is selected with ALTN slat drive system. Both flap pointers indicate UP.	FIM 27-81-00/101, Fig. 108, Block 1
27 81 14 --	(01=L,02=R,03=L & R) Autoslats failed to extend, retract when tested.	FIM 27-81-00/101, Fig. 109, Block 1
27 81 15 00	EICAS msg FLAP ISLN VAL displayed when altn LE slats armed.	FIM 27-51-00/101, Fig. 115, Block 1
27 81 16 00	Both flap pointers are on 1/2 with the flap lever in UP. LE SLAT DISAGREE displayed.	FIM 27-88-00/101
27 81 17 00	Both flap pointers are on 1/2 with the flap lever in UP. LE SLAT ASYM displayed.	FIM 27-88-00/101

EFFECTIVITY

ALL

## 27-FAULT CODE INDEX

05

Page 13  
Sep 20/08

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

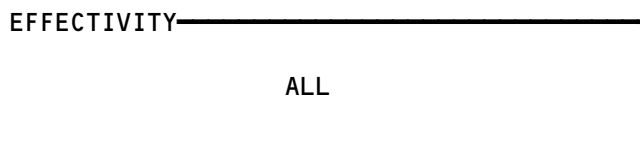
**BITE Index**

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>
Air Data Computer	ADC	34-12
Air Data Inertial Reference Unit	ADIRU	34-26
Air Traffic Control Transponder	ATC	34-53
Airborne Vibration Monitor Signal Conditioner	AVM	77-31
Antiskid/Autobrake Control Unit		32-42
APU Fire Detection System		26-15
Automatic Direction Finder Receiver	ADF	34-57
APU Control Unit	ECU	49-11
Brake Temperature Monitor Unit		32-46
Bus Power Control Unit	BPCU	24-20
Cabin Pressure Controller		21-30
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 Engine Control (RR Engines)	EEC	73-21
Electronic Engine Control Monitor Unit (PW Engines)	EECM	71-EPCS Message Index
Electronic Flight Instrument System	EFIS	34-22
Electronic Propulsion Control System (PW Engines)	EPCS	71-EPCS Message Index
Engine Fire/Overheat Detection System		26-11
Engine Indication and Crew Alerting System Computer	EICAS	31-41

Bite Index  
Figure 1 (Sheet 1)

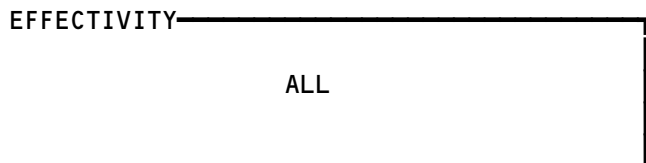


## 27-BITE INDEX


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
Engine Turbine Cooling Overheat Detection System (RR Engines)		26-13
Enhanced Ground Proximity Warning Computer	EGPWC	34-46
Flap/Slat Accessory Module	FSAM	27-51
Flap/Slat Electronic Unit	FSEU	27-51
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
Inertial Reference Unit	IRU	34-21
Instrument Comparator Unit	ICU	34-25
Instrument Landing System Receiver	ILS	34-31
Lower Cargo Compartment Smoke Detection System		26-16
Maintenance Control Display Panel	MCDP	22-00
PA (Passenger Address) Amplifier		23-31
Pack Standby Temperature Controller		21-51
Pack Temperature Controller		21-51
Passenger Entertainment System	PES	23-34
Power Supply Module (Control System Electronics Units)	PSM	27-09
Propulsion Discrete Interface Unit (PW Engines)	PDIU	73-21
Proximity Switch Electronics Unit	PSEU	32-09
Radio Altimeter Transmitter/Receiver	RA	34-33
Rudder Ratio Changer Module	RRCM	27-09
Spoiler Control Module	SCM	27-09
Stabilizer Position Module	SPM	27-48
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

Bite Index  
Figure 1 (Sheet 2)

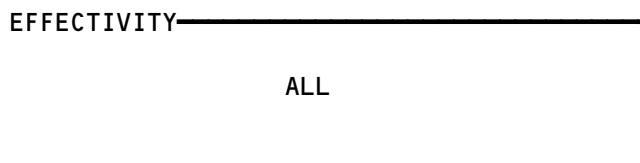


## 27-BITE INDEX


  
**757**
  
**FAULT ISOLATION/MAINT MANUAL**

<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
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		21-60

Bite Index  
Figure 1 (Sheet 3)



## 27-BITE INDEX

01

Page 3  
Sep 28/99

FLIGHT CONTROL SYSTEM ELECTRONICS UNIT

1. Flight Control System Electronics Unit

A. General

- (1) This section contains EICAS message troubleshooting and BITE procedures for the Control System Electronics Units.

EFFECTIVITY

ALL

27-09-00

03

Page 101  
May 28/03

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CONTROL SYSTEM ELECTRONICS UNIT

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER -	--		FLT COMPT, P11	*
FLT CONT ELEC 1L AC, C1538		1	11C6	*
FLT CONT ELEC 1L DC, C1534		1	11C7	*
FLT CONT ELEC 1R AC, C1536		1	11G17	*
FLT CONT ELEC 1R DC, C1531		1	11G18	*
FLT CONT ELEC 2L AC, C1537		1	11C8	*
FLT CONT ELEC 2L DC, C1533		1	11C9	*
FLT CONT ELEC 2R AC, C1535		1	11G27	*
FLT CONT ELEC 2R DC, C1532		1	11G28	*
MODULE - POWER SUPPLY NO. 1 LEFT, M536	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - POWER SUPPLY NO. 1 RIGHT, M538	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - POWER SUPPLY NO. 2 LEFT, M537	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - POWER SUPPLY NO. 2 RIGHT, M539	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - RUDDER RATIO CHANGER LEFT, M528	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - RUDDER RATIO CHANGER RIGHT, M529	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - SPOILER CONTROL NO. 1 LEFT, M530	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - SPOILER CONTROL NO. 1 RIGHT, M533	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - SPOILER CONTROL NO. 2 LEFT, M531	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - SPOILER CONTROL NO. 2 RIGHT, M534	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - SPOILER CONTROL NO. 3 LEFT, M532	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - SPOILER CONTROL NO. 3 RIGHT, M535	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - STABILIZER TRIM/ELEV ASYM LIMIT LEFT, M524	1	1	119BL, MAIN EQUIP CTR E3-1	27-09-00
MODULE - STABILIZER TRIM/ELEV ASYM LIMIT RIGHT, M525	1	1	119BL, MAIN EQUIP CTR E4-1	27-09-00
MODULE - YAW DAMPER LEFT, M522 (FIM 22-21-00/101)				
MODULE - YAW DAMPER RIGHT, M523 (FIM 22-21-00/101)				

\* SEE THE WDM EQUIPMENT LIST

Control System Electronics Unit - Component Index  
Figure 101

EFFECTIVITY

ALL

27-09-00

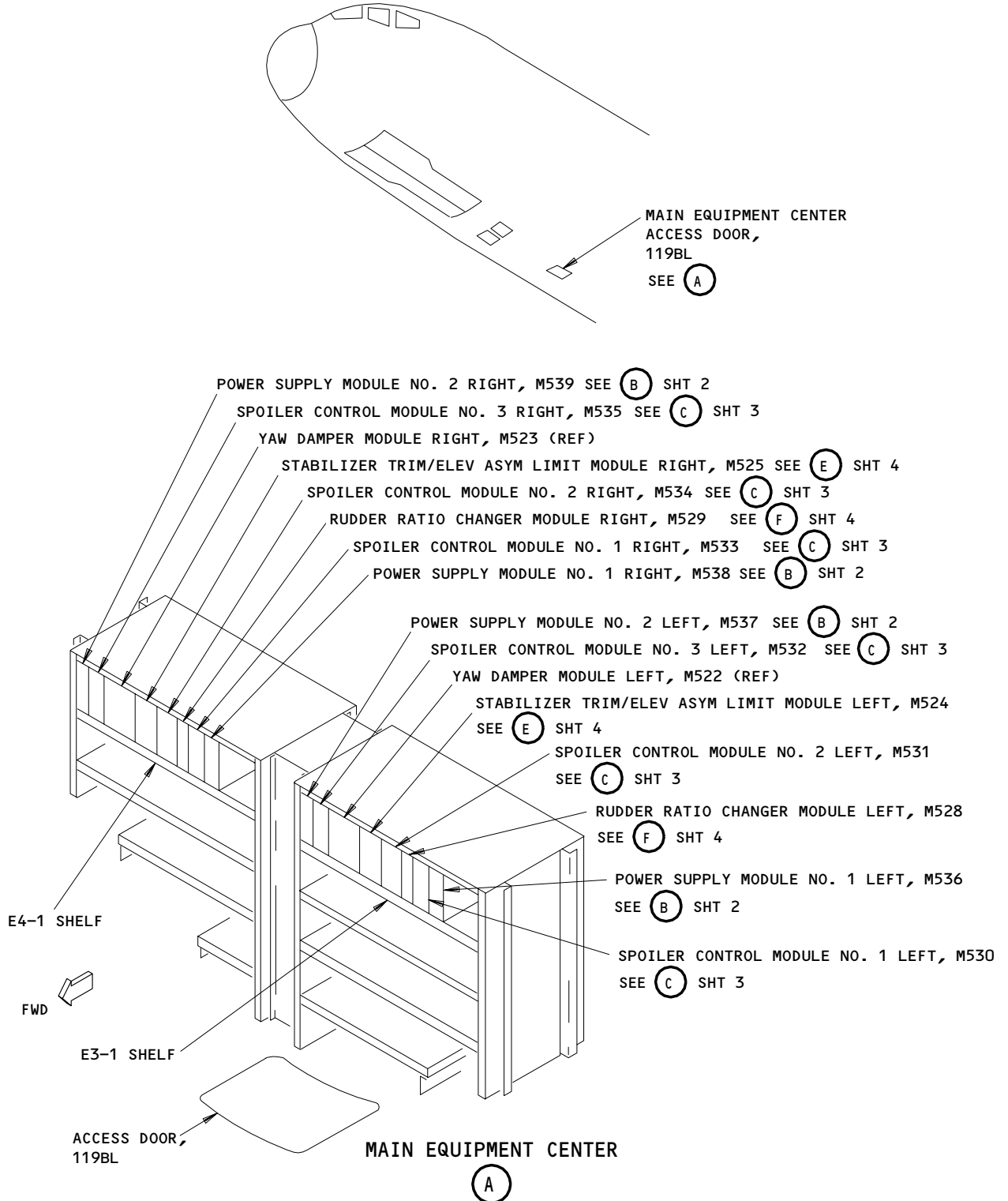
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Page 102  
Jan 20/09

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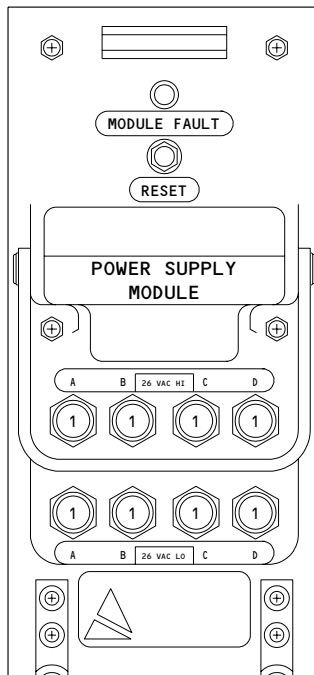
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Control System Electronics Unit - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	ALL
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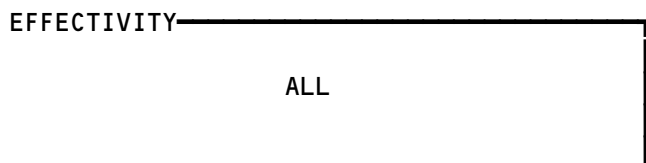
27-09-00



POWER SUPPLY MODULE

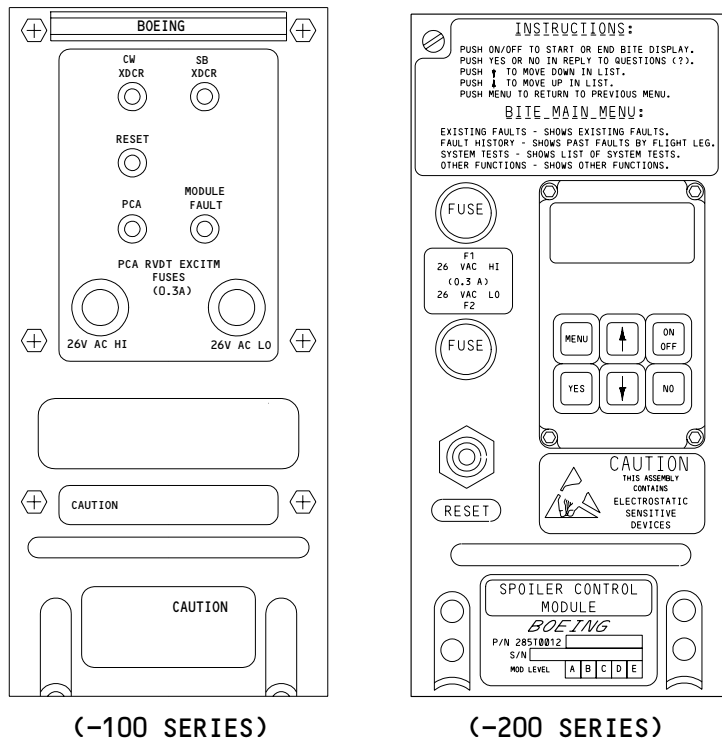
(B)

Control System Electronics Unit - Component Location (Detail from Sht 1)  
 Figure 102 (Sheet 2)



27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



(-100 SERIES)

(-200 SERIES)

SPOILER CONTROL MODULE

(C)

Control System Electronics Unit - Component Location (Detail from Sht 1)  
Figure 102 (Sheet 3)

EFFECTIVITY

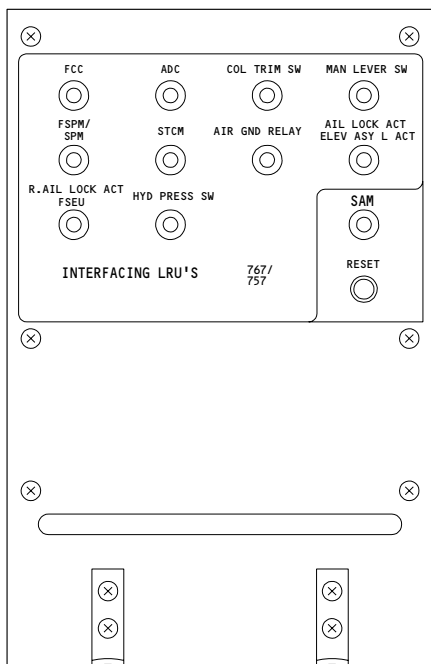
ALL

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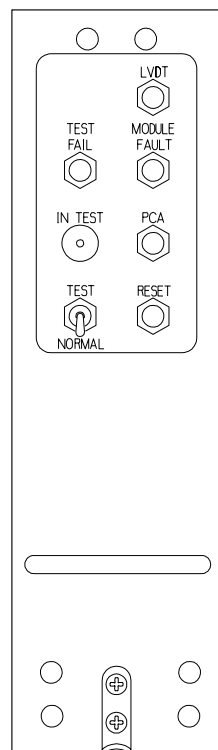
Page 105  
May 28/03

698110



STABILIZER TRIM/ELEVATOR ASYMMETRY MODULE

E



RUDDER RATIO CHANGER MODULE  
(EXAMPLE)

F

Control System Electronics Unit - Component Location (Details from Sht 1)  
Figure 102 (Sheet 4)

EFFECTIVITY

ALL

27-09-00

03

Page 106  
May 28/03

117993

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:

- AUTOPILOT (FLIGHT CONTROL)(AMM 22-10-00/501)
- FLAP SYSTEM (AMM 27-51-00/201)
- SLAT SYSTEM (AMM 27-81-00/201)
- EICAS (AMM 31-41-00/201)
- AIR/GROUND SYSTEM (AMM 32-09-02/201)
- MASTER DIM AND TEST SYSTEM (AMM 33-16-00/501)
- AIR DATA COMPUTING SYSTEM (AMM 34-12-00/501)
- INERTIAL REFERENCE SYSTEM (AMM 34-21-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

- 11A18,11C5,11C6,11C7,11C8,11C9,11C12,11C13,11D10,
- 11F19,11F34,11G10,11G15,11G17,11G18,11G24,11G27,
- 11G28,11H10,11H11,11H19,11H20,11J12

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

- ELECTRICAL POWER IS ON (AMM 24-22-00/201)
- HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

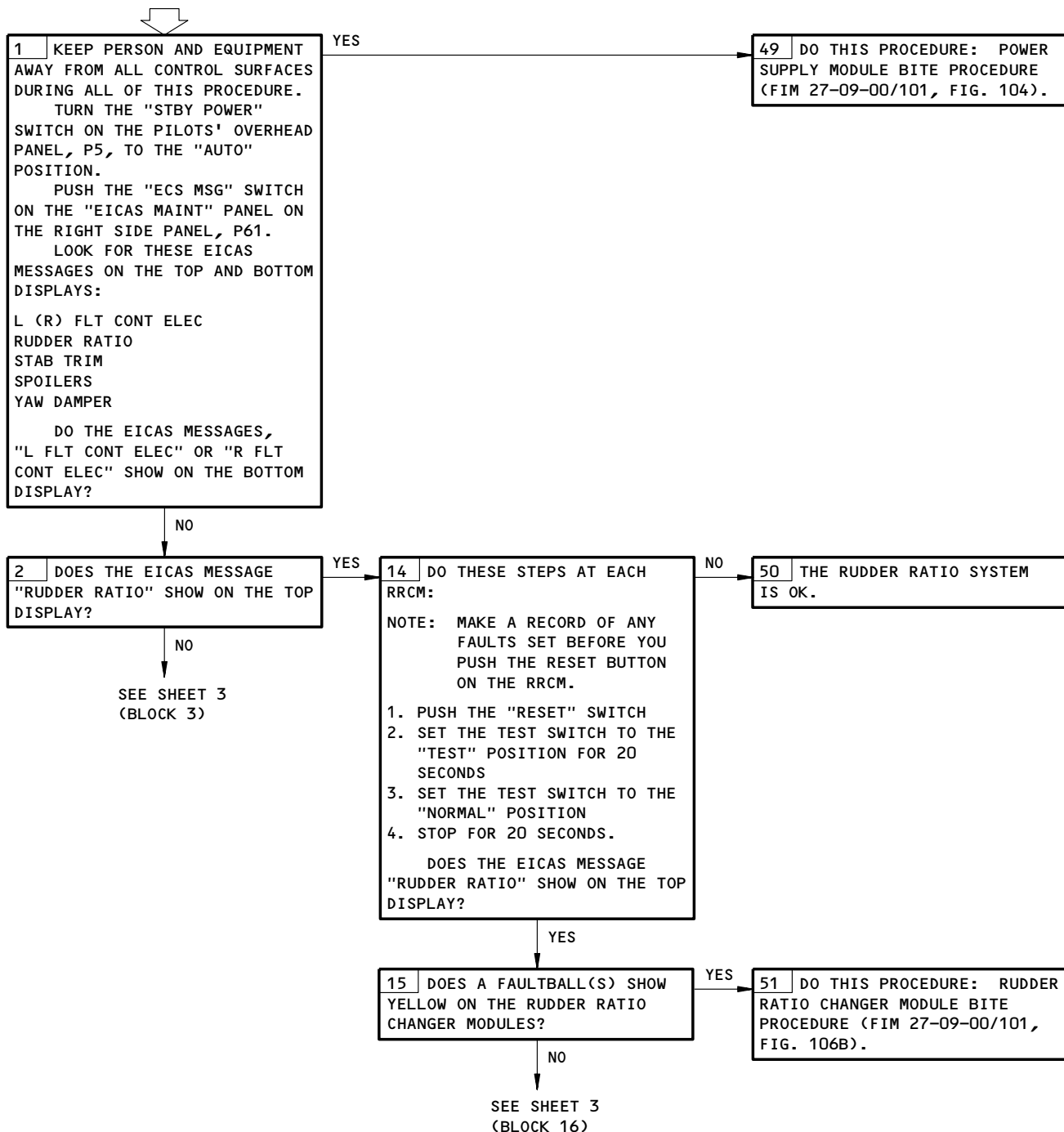
**NOTE:** THE CONTROL SYSTEM ELECTRONIC UNITS (CSEU) ARE THE POWER SUPPLY MODULES (PSM), SPOILER CONTROL MODULES (SCM), YAW DAMPER STABILIZER TRIM MODULE (YSM) OR YAW DAMPER MODULES (YDM), STABILIZER TRIM/ELEVATOR ASYMMETRY LIMIT MODULES (SAM), AND RUDDER RATIO CHANGER MODULES (RRCM).

Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 1)

EFFECTIVITY	ALL
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27-09-00

**CONTROL SYSTEM  
ELECTRONIC UNITS  
EICAS MESSAGE(S)  
DISPLAYED**

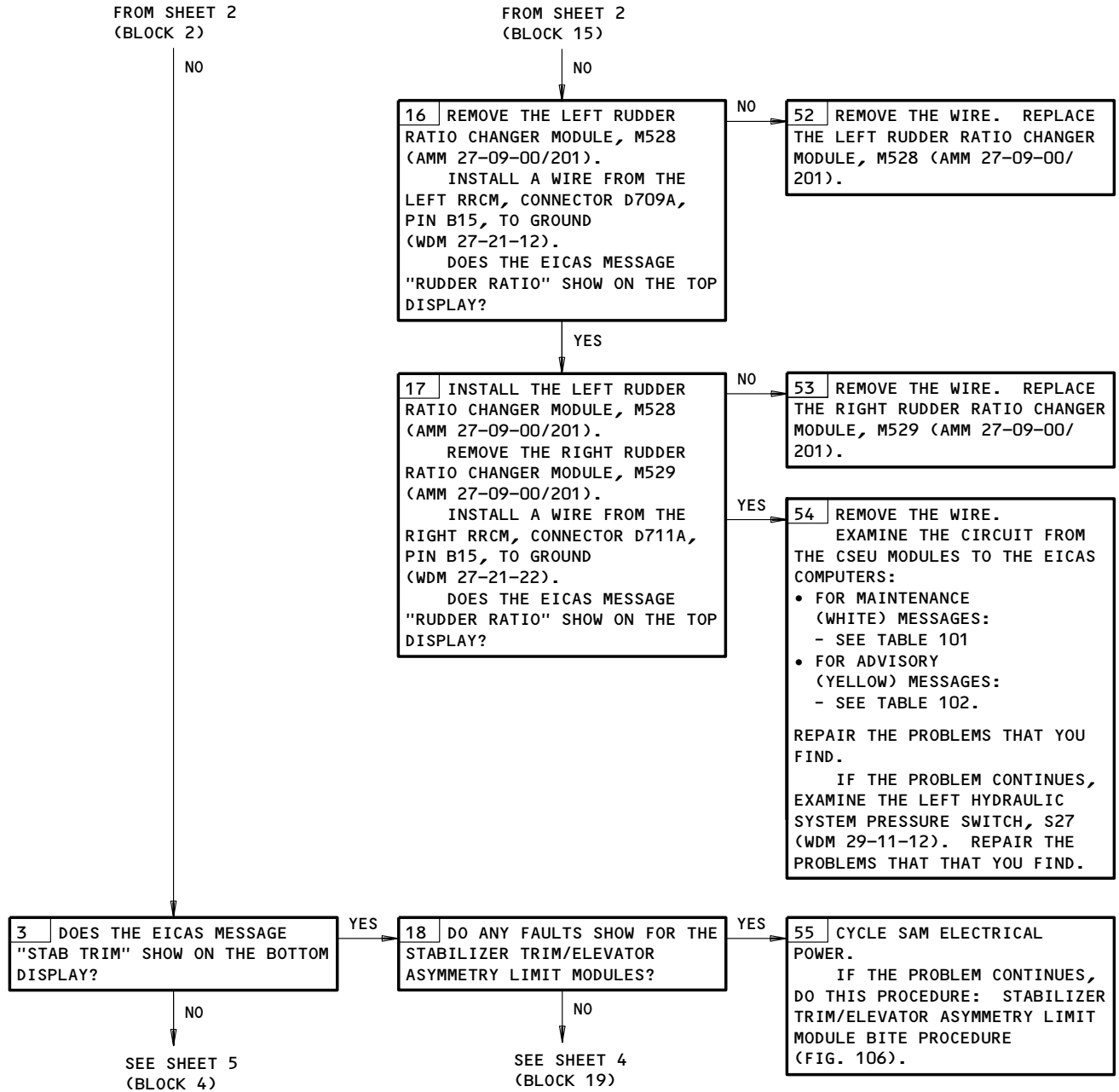


Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 2)

EFFECTIVITY	
	ALL

27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



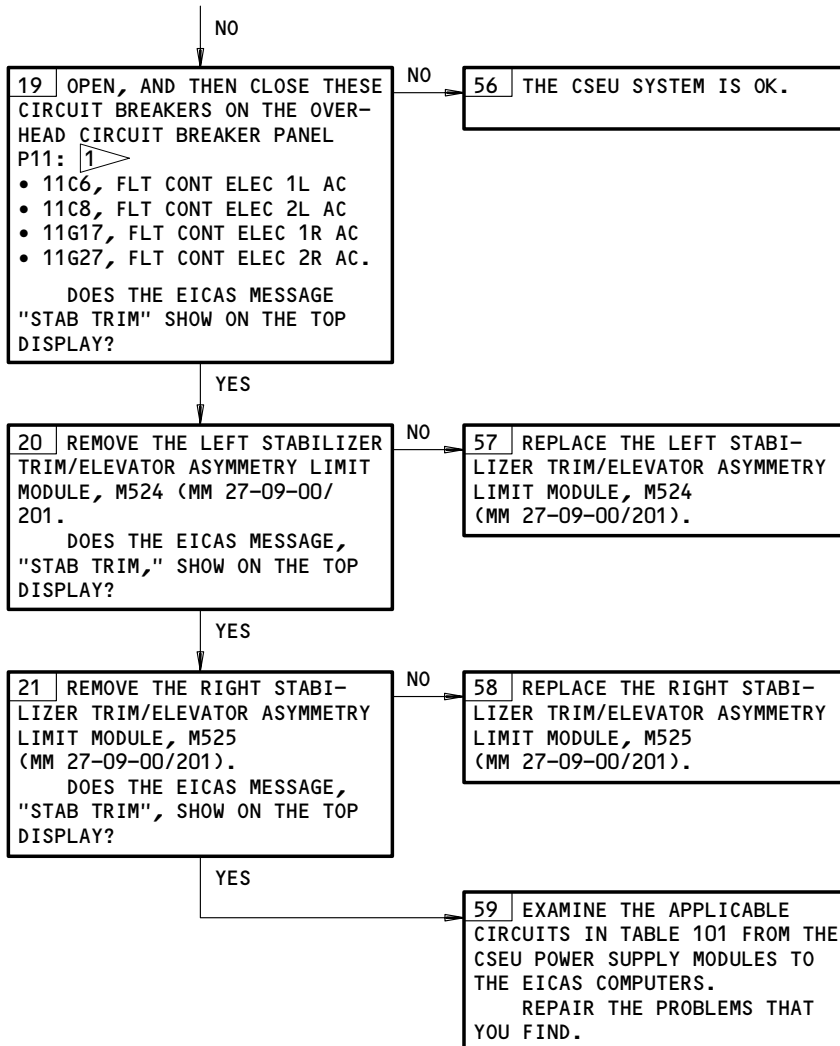
Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 3)

EFFECTIVITY	ALL
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**27-09-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 18)



1 IF THE "ELEV ASY L ACT" FAULTBALL SHOWS YELLOW ON ONE OF THE SAMs, AND THE EICAS MESSAGE "ELEV ASYM" SHOWS ON THE TOP DISPLAY AFTER YOU OPEN THESE CIRCUIT BREAKERS, DO THIS STEP:  
1. RESET THE FAULTBALL ON THE SAM (27-09-00/101, FIG. 106, BLOCK 2).

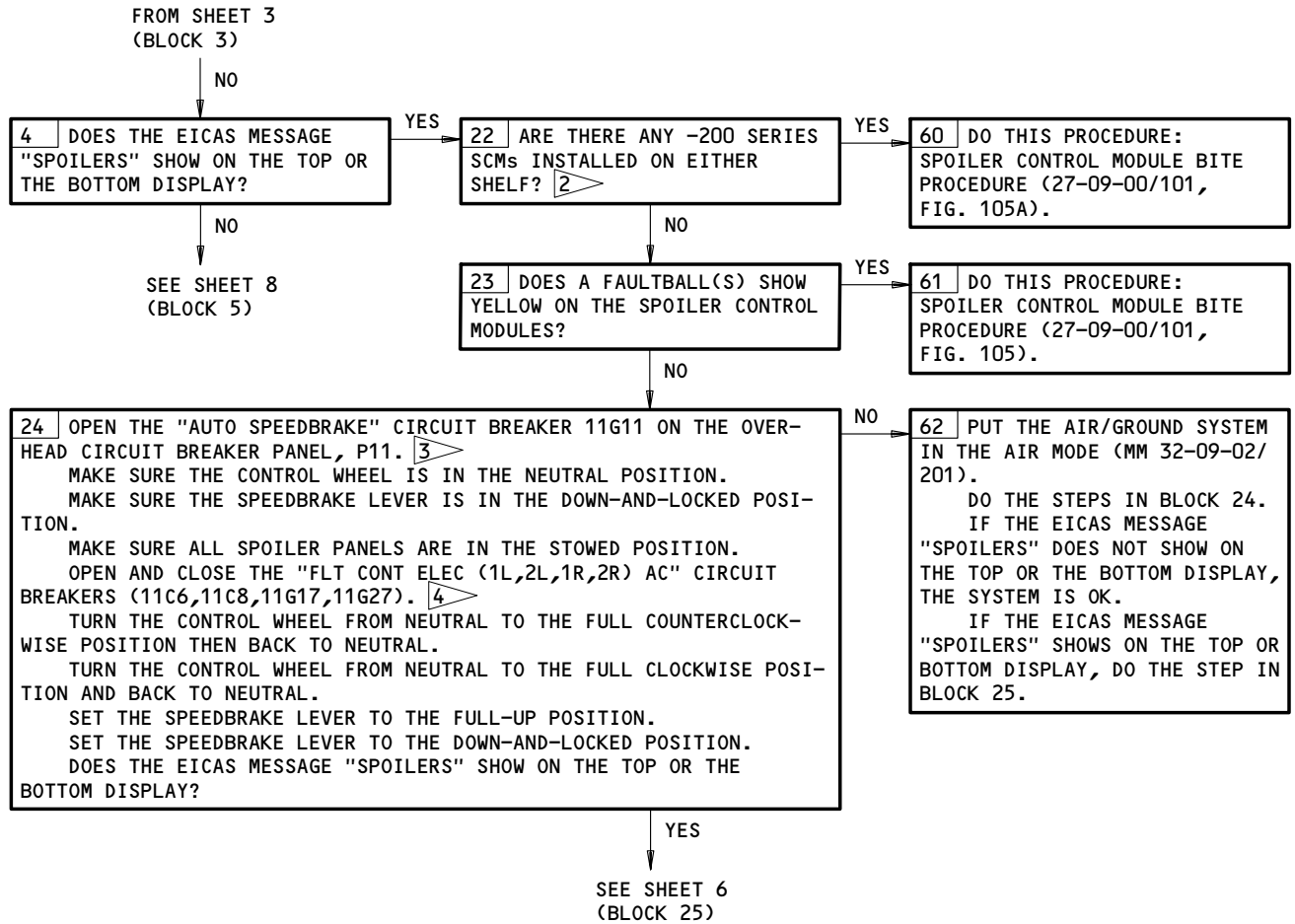
Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 4)

EFFECTIVITY	ALL
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27-09-00



 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



- 2 WHEN A -200 SERIES SCM IS AVAILABLE, IT IS RECOMMENDED FOR INSTALLATION AT A SHELF POSITION WHERE INTERMITTENT PROBLEMS OCCUR, OR WHEN IT IS NECESSARY TO REPLACE A SCM DURING THE PROCEDURE, TO MAKE USE OF ITS EXPANDED CAPACITY FOR FAULT DETECTION AND FAULT ISOLATION.
- 3 IF YOU DO NOT OPEN THE "AUTO SPEEDBRAKE" CIRCUIT BREAKER, IT CAN CAUSE AN INCORRECT "MODULE FAULT" WHEN THERE IS A "PCA" FAULT.
- 4 IN THE STEPS THAT FOLLOW, USE AT LEAST 10 SECONDS TO COMPLETE EACH MOVEMENT OF THE FLIGHT CONTROLS. BEFORE YOU BEGIN THE NEXT MOVEMENT, HOLD THE FLIGHT CONTROL IN ITS POSITION FOR 4 SECONDS.

Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 5)

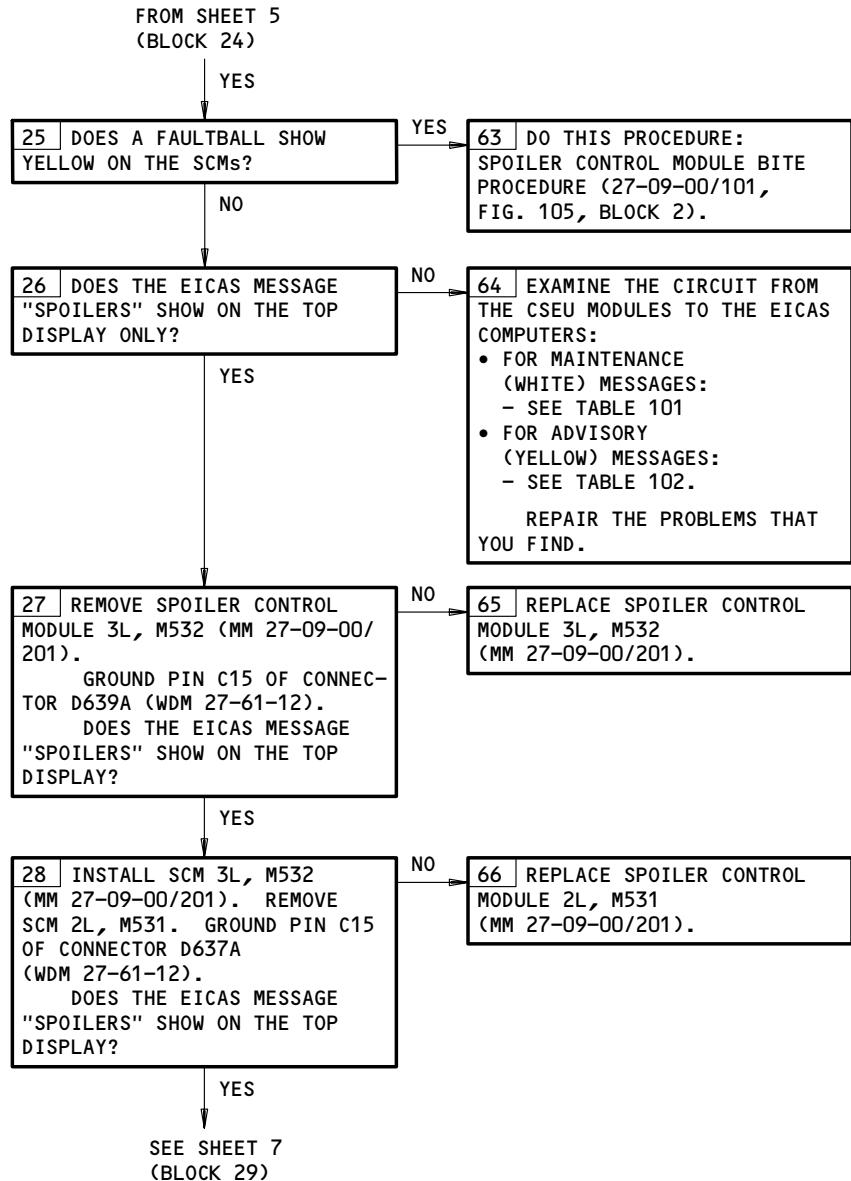
EFFECTIVITY	ALL
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27-09-00

01

Page 111  
Jan 20/09


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



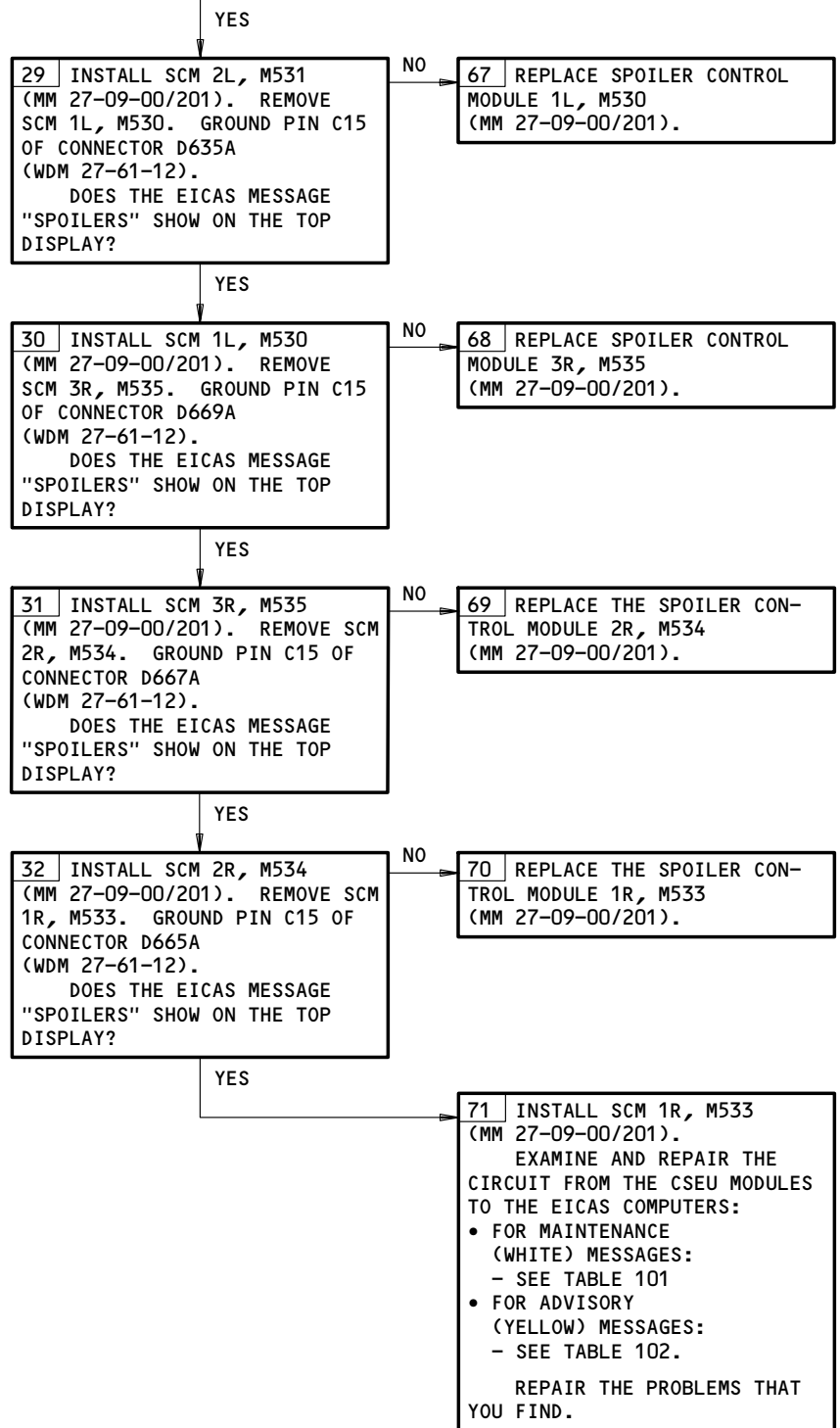
Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 6)

EFFECTIVITY	ALL
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**27-09-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 6  
(BLOCK 28)

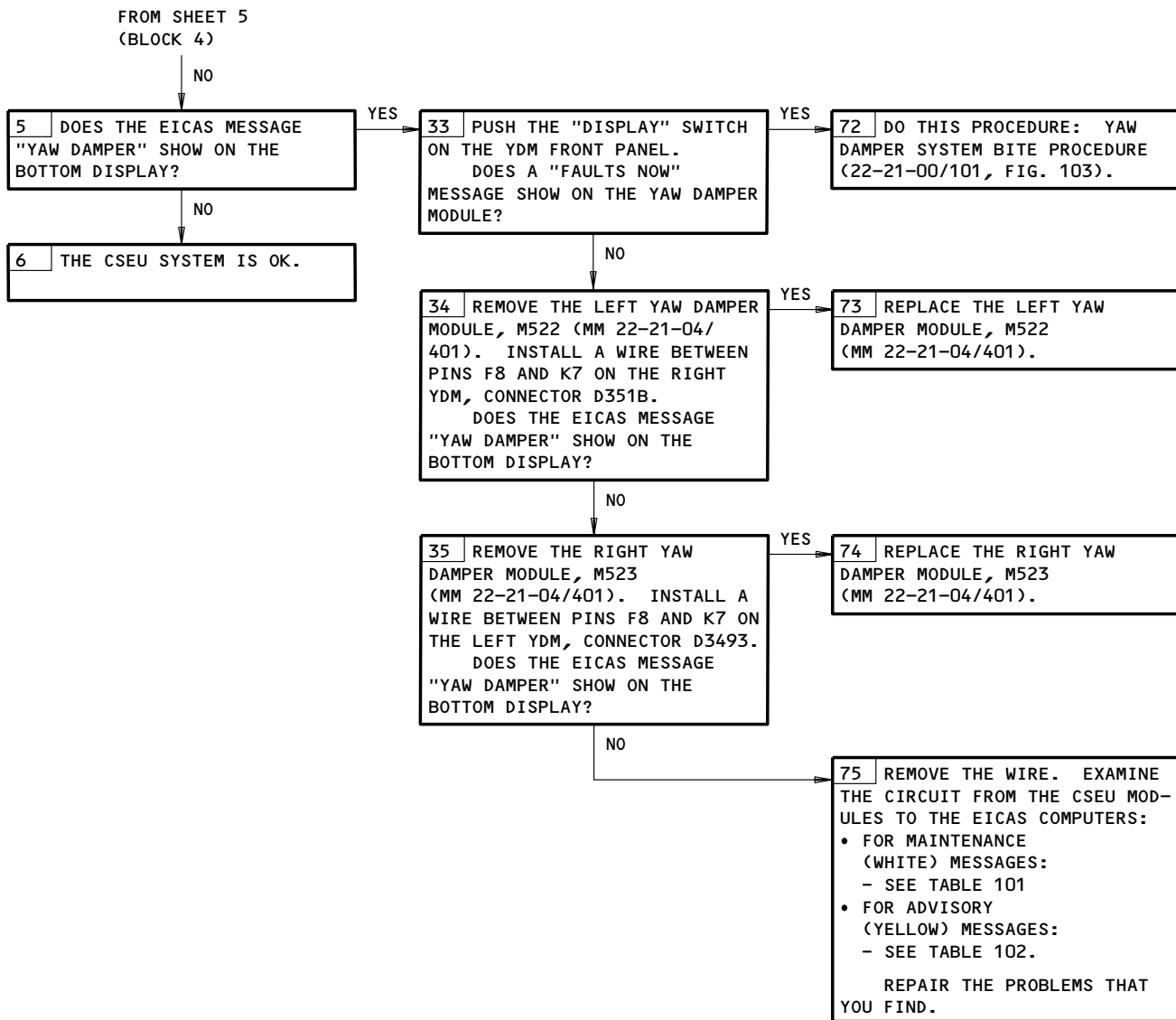


Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 7)

EFFECTIVITY	ALL
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**27-09-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 8)

EFFECTIVITY

ALL
-----

27-09-00

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

TABLE 101					
CSEU TO EICAS MAINTENANCE MESSAGE INTERFACES – MAINTENANCE LEVEL (WHITE)					
MODULE	CONNECTORS, PINS		MODULE	CONNECTORS, PINS	
	CSEU	EICAS		CSEU	EICAS
PSM M536 1L	D701B,A13 D701B,K13	D319F,D3 D321F,D3	PSM M538 1R	D671B,A13 D671B,K13	D319E,A10 D321E,A10
PSM M537 2L	D703B,A13 D703B,K13	D319F,D3 D321F,D3	PSM M539 2R	D673B,A13 D673B,K13	D319E,A10 D321E,A10
SCM M530 1L	D635A,H14 D635A,C13	D321A,H14 D319A,H14	SCM M533 1R	D665A,H14 D665A,C13	D319A,H14 D321A,H14
SCM M531 2L	D637A,H14 D637A,C13	D321A,H14 D319A,H14	SCM M534 2R	D667A,H14 D667A,C13	D319A,H14 D321A,H14
SCM M532 3L	D639A,H14 D639A,C13	D319A,H14 D319A,H14	SCM M535 3R	D669A,H14 D669A,C13	D319A,H14 D321A,H14
SAM M524	D705B,A15 D705B,F4	D319E,J11 D319E,J11	SAM M525	D675B,A15 D675B,F4	D319E,J11 D321E,J11
RRCM M528	D709B,D14 D709A,C15	D319E,K9 D321E,K9	RRCM M529	D711B,D14 D711A,C15	D319E,K9 D321E,K9
YDM M522	D349B,G10 D349B,F4	D319E,K13 D321E,K13	YDM M523	D351B,G10 D351B,F4	D319E,K13 D321E,K13

TABLE 102					
CSEU TO EICAS MAINTENANCE MESSAGE INTERFACES – ADVISORY LEVEL (YELLOW)					
MODULE	CONNECTORS, PINS		MODULE	CONNECTORS, PINS	
	CSEU	EICAS		CSEU	EICAS
SCM M530 1L (WDM 27-61-12)	D635A,B13 D635A,H15	D321D,C11 D319D,C11	SCM M533 1R (WDM 27-61-12)	D665A,B13 D665A,H15	D321D,C11 D319D,C11
SCM M531 2L	D637A,B13 D637A,H15	D321D,C11 D319D,C11	SCM M534 2R	D667A,B13 D667A,H15	D321D,C11 D319D,C11
SCM M532 3L	D639A,B13 D639A,H15	D321D,C11 D319D,C11	SCM M535 3R	D669A,B13 D669A,H15	D321D,C11 D319D,C11
SAM M524 (WDM 27-41-11)	D705A,C11	D321A,D11	SAM M525 (WDM 27-41-21)	D675B,C11	D319A,D11
RRCM M528 (WDM 27-21-12)	D709B,A14	D319D,C13	RRCM M529 (WDM 27-21-12)	D711B,A14	D321D,C13
YDM M522 (WDM 22-21-11)	D3498B,F7 D3498B,F7	D321D,A6 D319D,A6	YDM M523 (WDM 22-21-2)	D351B,F7 D351B,F7	D321D,A6 D319D,A6

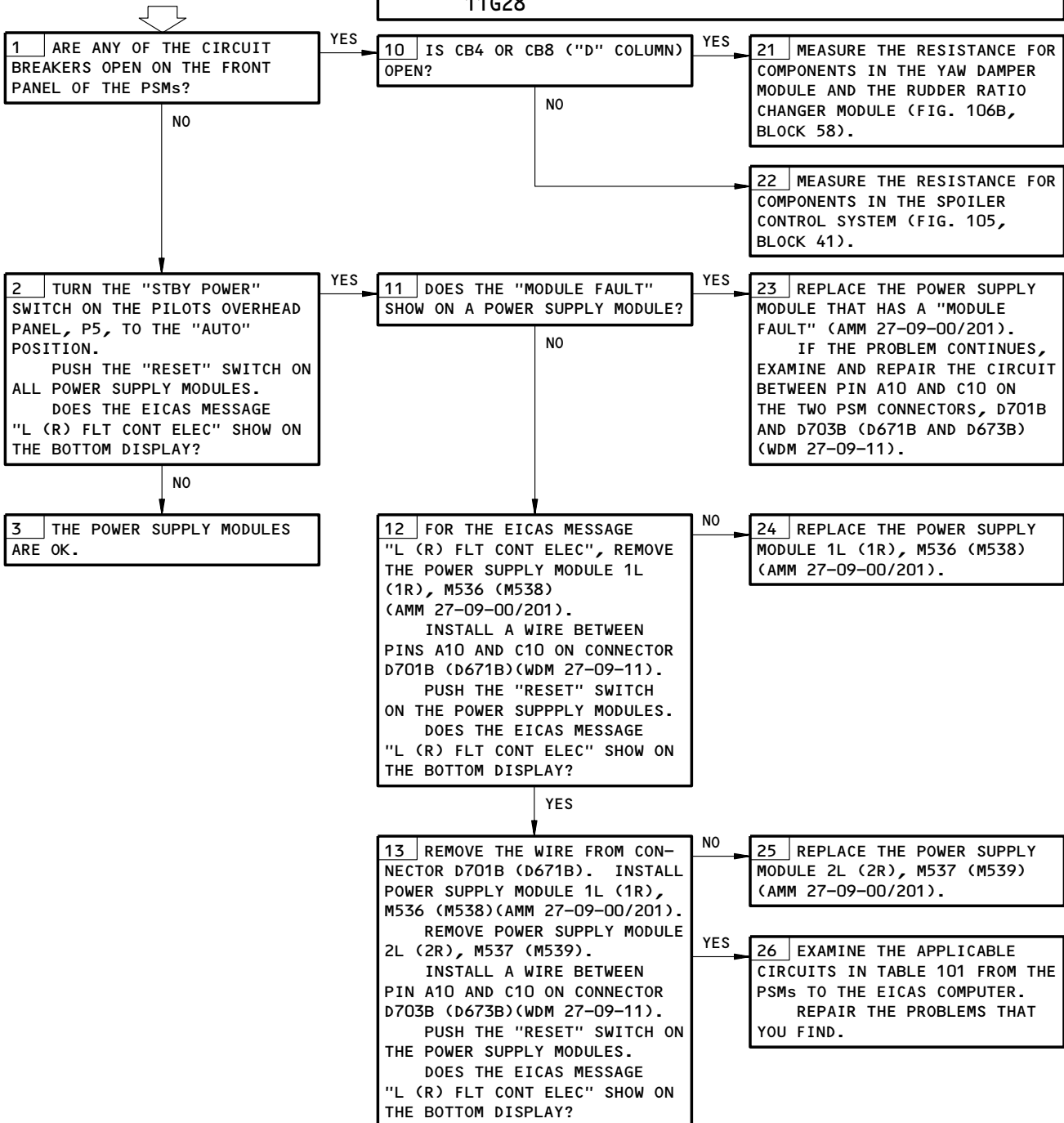
Control System Electronic Units EICAS Message(s) Displayed  
Figure 103 (Sheet 9)

EFFECTIVITY	ALL
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27-09-00

**POWER SUPPLY MODULE  
BITE PROCEDURE**

**PREREQUISITES**  
ELECTRICAL POWER (AMM 24-22-00/201)  
HYDRAULIC POWER (AMM 29-11-00/201)  
EICAS (AMM 31-41-00/201)  
CB'S: 11C6, 11C7, 11C8, 11C9, 11G17, 11G18, 11G27, 11G28



Power Supply Module BITE Procedure  
Figure 104 (Sheet 1)

EFFECTIVITY

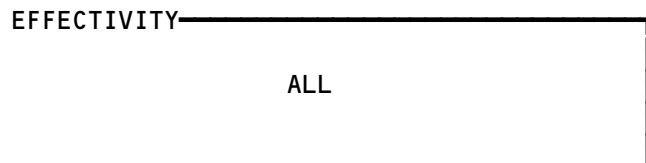
ALL

**27-09-00**


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

TABLE 101					
PSM	CONNECTOR	PIN	EICAS	CONNECTOR	PIN
M538	D671B	K13 A13	M10181 M10182	D319E D321E	A10 A10
M539	D673B	K13 A13	M10181 M10182	D319E D321E	A10 A10
M536	D701B	K13 A13	M10181 M10182	D319F D321F	D3 D3
M537	D703B	K13 A13	M10181 M10182	D319F D321F	D3 D3

Power Supply Module BITE Procedure  
Figure 104 (Sheet 2)



27-09-00

03

Page 117  
Jan 28/06

682508



757

FAULT ISOLATION/MAINT MANUAL

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:  
AIR/GROUND SYSTEM (AMM 32-09-02/201)  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6, 11C7, 11C8, 11C9, 11G17, 11G18, 11G27, 11G28

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** THE SPOILERS HAVE NUMBERS 1-12 FROM THE LEFT WING TIP TO THE RIGHT WING TIP.

FOR SCM MODULES WITH FUSES, LOOK FOR A BLOWN FUSE.

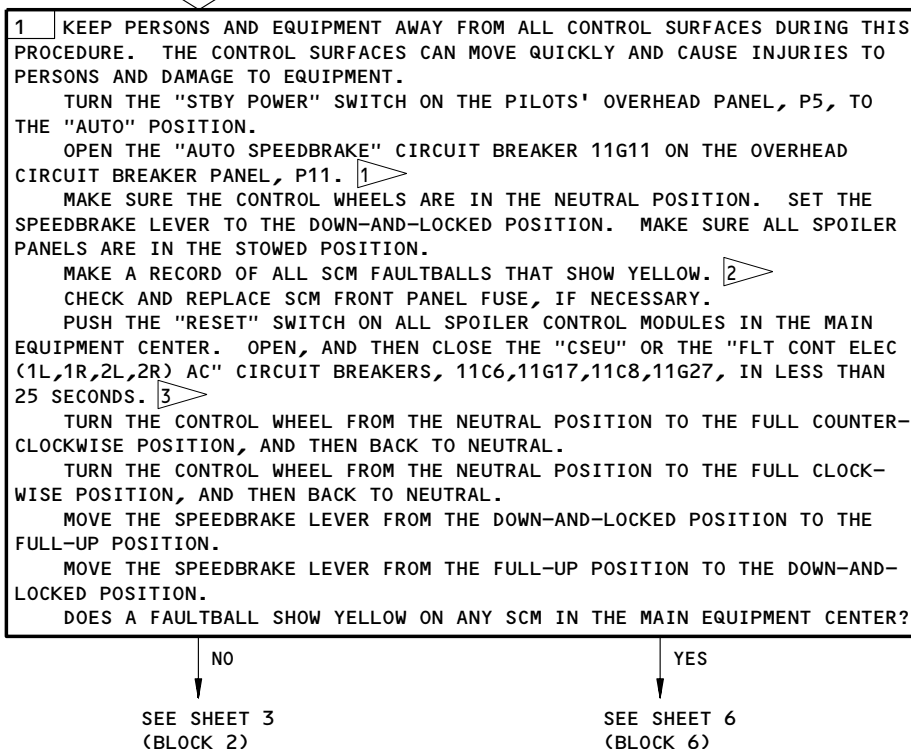
Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 1)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00



**SPOILER CONTROL  
MODULE BITE  
PROCEDURE**



- 1 IF YOU DO NOT OPEN THE "AUTO SPEEDBRAKE" CIRCUIT BREAKER, AN ACCIDENTAL OPERATION OF THE AUTO SPEEDBRAKE CAN OCCUR. IF THE AUTO SPEEDBRAKE OPERATES WHEN THE HYDRAULIC SYSTEMS ARE DEPRESSURIZED, AND THERE IS AN ACTIVE "PCA" FAULTBALL, A "MODULE FAULT" FAULTBALL WILL OCCUR.
- 2 IF THE FAULT IS NOT ACTIVE, THE PROBLEM IS INTERMITTENT. IN THE NEXT STEP, THE FAULTBALLS WILL SHOW BLACK AND YOU MUST USE THIS FAULT RECORD TO TROUBLESHOOT THE SYSTEM.  
IF THE FAULT IS ACTIVE, THE APPLICABLE FAULTBALLS WILL SHOW YELLOW AGAIN AFTER YOU RELEASE THE RESET SWITCH.
- 3 IN THE STEPS THAT FOLLOW, USE AT LEAST 10 SECONDS TO COMPLETE EACH MOVEMENT OF THE FLIGHT CONTROLS. BEFORE YOU BEGIN THE NEXT MOVEMENT, HOLD THE FLIGHT CONTROL IN ITS POSITION FOR 4 SECONDS.

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 2)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 1)

NO

2 WARNING

KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES DURING THIS PROCEDURE. THE CONTROL SURFACES CAN MOVE QUICKLY AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

WARNING

OBEY THE PROCEDURE THAT PUTS THE AIRPLANE IN THE AIR MODE. IF YOU DO THE PROCEDURE INCORRECTLY, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

PUT THE AIR/GROUND RELAY SYSTEM IN THE AIR MODE (AMM 32-09-02/201). 3

TURN THE CONTROL WHEEL FROM THE NEUTRAL POSITION TO THE FULL COUNTERCLOCKWISE POSITION, AND THEN BACK TO NEUTRAL.

TURN THE CONTROL WHEEL FROM THE NEUTRAL POSITION TO THE FULL CLOCKWISE POSITION, AND THEN BACK TO NEUTRAL.

MOVE THE SPEEDBRAKE LEVER FROM THE DOWN-AND-LOCKED POSITION TO THE FULL-UP POSITION.

MOVE THE SPEEDBRAKE LEVER FROM THE FULL-UP POSITION TO THE DOWN-AND-LOCKED POSITION.

DOES A FAULTBALL SHOW YELLOW ON ANY SCM IN THE MAIN EQUIPMENT CENTER?

YES → 61 GO TO BLOCK 6.

NO

3 PUT THE AIR/GROUND RELAY SYSTEM BACK TO THE GROUND MODE (AMM 32-09-02/201).  
DOES YOUR RECORD MADE IN STEP 1 SHOW A "MODULE FAULT" FAULT ON SCM 1R OR 2R?

YES →

31 ADJUST THESE LANDING GEAR AIR/GROUND PROXIMITY SENSORS (AMM 32-09-07/201):

- S10060 SYS 1 RIGHT
- S10062 SYS 1 LEFT
- S10059 SYS 2 RIGHT
- S10064 SYS 2 LEFT.
- S10697 SPOILER RIGHT.

IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUITS FROM THE SPOILER CONTROL MODULES TO THE AIR/GROUND RELAYS (WDM 27-09-12). SEE TABLE 101 FOR A LIST OF THE CIRCUITS. REPAIR THE PROBLEMS THAT YOU FIND.

DOES YOUR RECORD MADE IN STEP 1 SHOW MORE FAULTS?

NO →

62 DO THE SPOILER SYSTEM TEST (AMM 27-09-00/201).

NO

SEE SHEET 4  
(BLOCK 4)

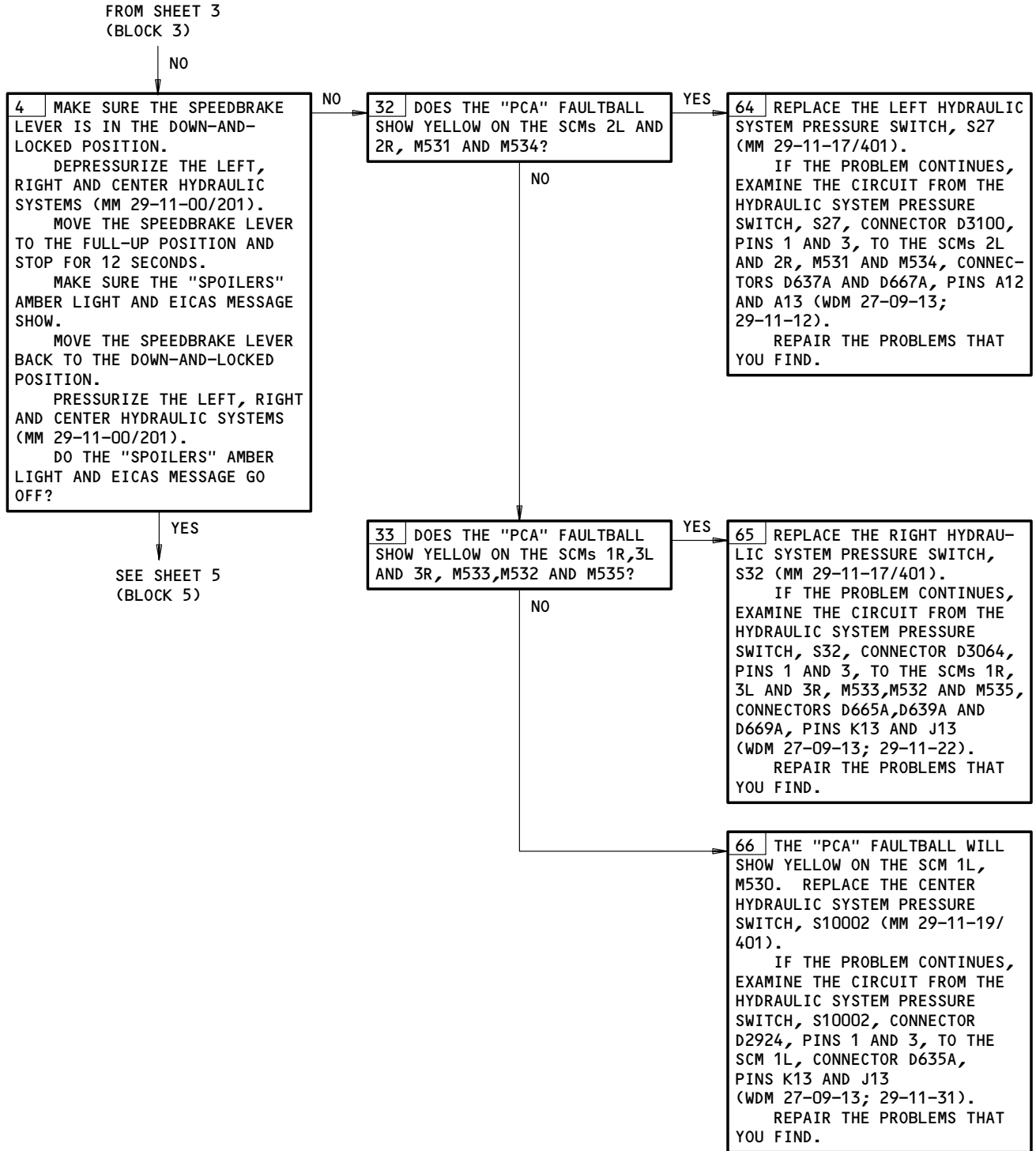
YES →

63 GO TO BLOCK 4.

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 3)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00



Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 4)

EFFECTIVITY  
-100 SERIES SCM'S

**27-09-00**

FROM SHEET 4  
(BLOCK 4)

YES

5 DID THE REPORTED "SPOILERS" LIGHT AND EICAS MESSAGE OCCUR ON FINAL APPROACH WHEN THE FLAPS WERE LOWERED TO 25 OR 30, AND DID A PCA FAULTBALL SHOW YELLOW BEFORE THE SCM RESET BUTTON WAS PUSHED?

YES

67 DO THE PROCEDURE IN 27-61-00/101, FIG. 103.

NO

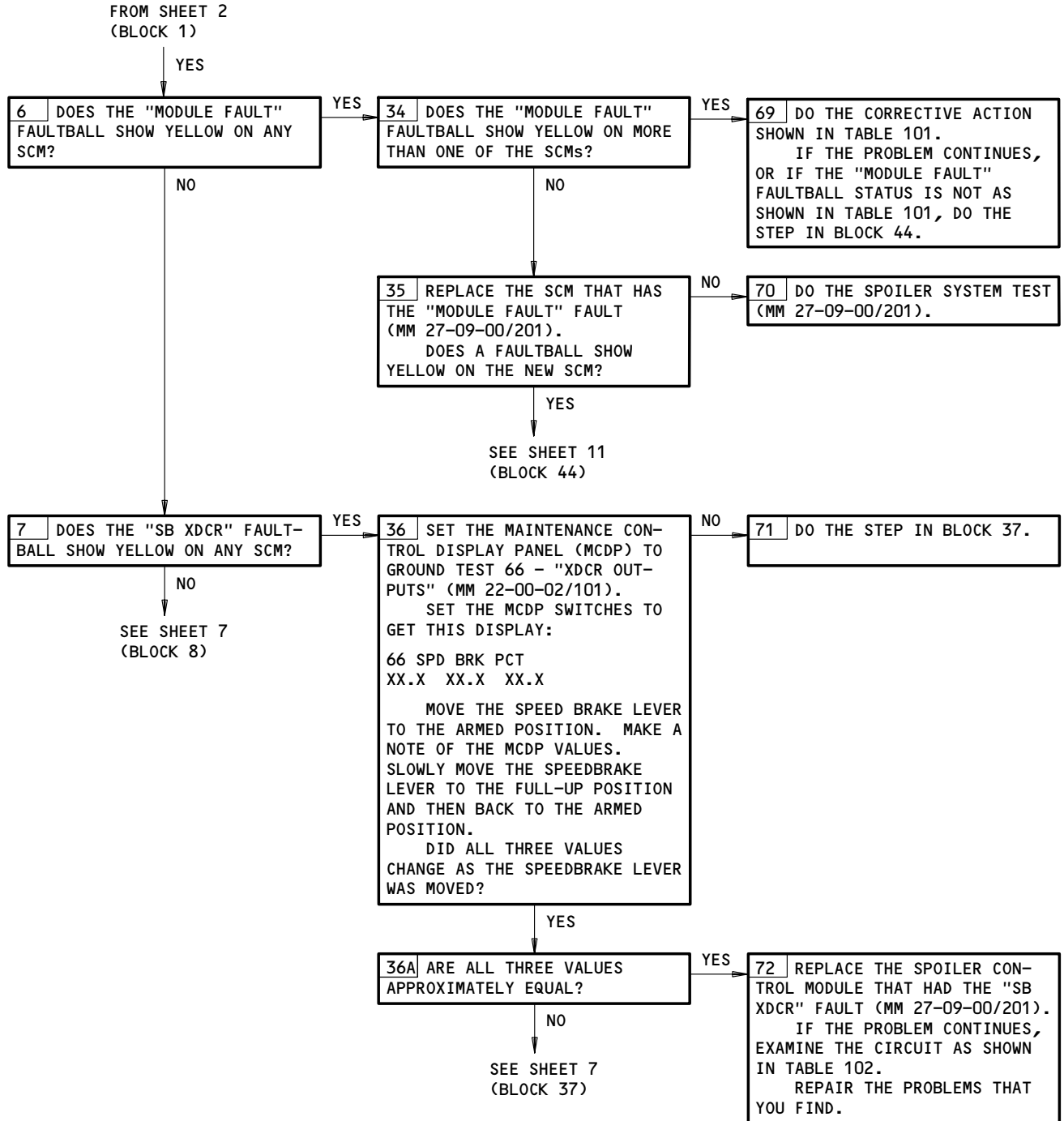
68 THE FAULT IS INTERMITTENT. USE THE AVAILABLE FAULTBALL DATA AND PILOT REPORTS TO TROUBLESHOOT THE SYSTEM AND ISOLATE THE PROBLEM.  
IF THE PROBLEM CONTINUES, MONITOR THE SUBSEQUENT FLIGHTS FOR FAULTS.

Spoiler Control Module BITE Procedure  
 Figure 105 (Sheet 5)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 6)

EFFECTIVITY  
-100 SERIES SCMs

27-09-00

03

Page 123  
Sep 28/01

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL

FROM SHEET 6  
(BLOCK 36A,71)

NO

37 REMOVE THE APPLICABLE CONNECTOR ON THE SPEEDBRAKE LEVER LVDT (FOUND BELOW THE CONTROL STAND, P10) FOR THE SCM THAT HAS THE "SB XDCR" FAULTBALL THAT SHOWS YELLOW.

SCM	CONNECTOR NO. (FROM SHELF TO LVDT)	LVDT POSITION	COLOR CODE
1L/1R	D871/D875	LEFT	BLACK
2L/2R	D873/D879	RIGHT	SILVER
3L/3R	D877/D881	CENTER	CLEAR

(LEFT SCMs: WDM 27-61-13,-17,-18  
RIGHT SCMs: WDM 27-61-14,-15,-16)

DO A TEST FOR CONTINUITY ON THE CONNECTOR FROM THE LVDT, BETWEEN THESE PINS:

- PINS 1 AND 2
- PINS 3 AND 4
- PINS 3 AND 5.

IS THERE CONTINUITY AT ALL OF THESE PIN PAIRS?

NO

73 REPLACE THE SB LVDT THAT DID NOT HAVE CONTINUITY (MM 27-62-02/201).

YES

74 DO A CHECK OF THE RIGGING FOR THE SPEEDBRAKE LEVER LVDTs (MM 27-62-02/201).

FROM SHEET 6  
(BLOCK 7)

NO

8 DOES THE "CW XDCR" FAULTBALL SHOW YELLOW ON ANY SCM ON THE E3-1 SHELF?

YES

38 REMOVE ELECTRICAL CONNECTORS D623, D625, AND D627 ON THE CONTROL WHEEL RVDT UNIT, TS5081, ON THE LEFT AILERON DRUM ON THE CAPTAIN'S FORWARD QUADRANT (WDM 27-61-13,-17,-18).

DO A TEST FOR CONTINUITY ON ALL CONNECTORS BETWEEN THESE PINS:

- PINS 1 AND 2
- PINS 3 AND 5
- PINS 3 AND 4.

IS THERE CONTINUITY AT ALL OF THESE PIN PAIRS?

NO

75 REPLACE THE CONTROL WHEEL RVDT UNIT, TS5081 (MM 27-61-04/201).

NO

SEE SHEET 8  
(BLOCK 9)

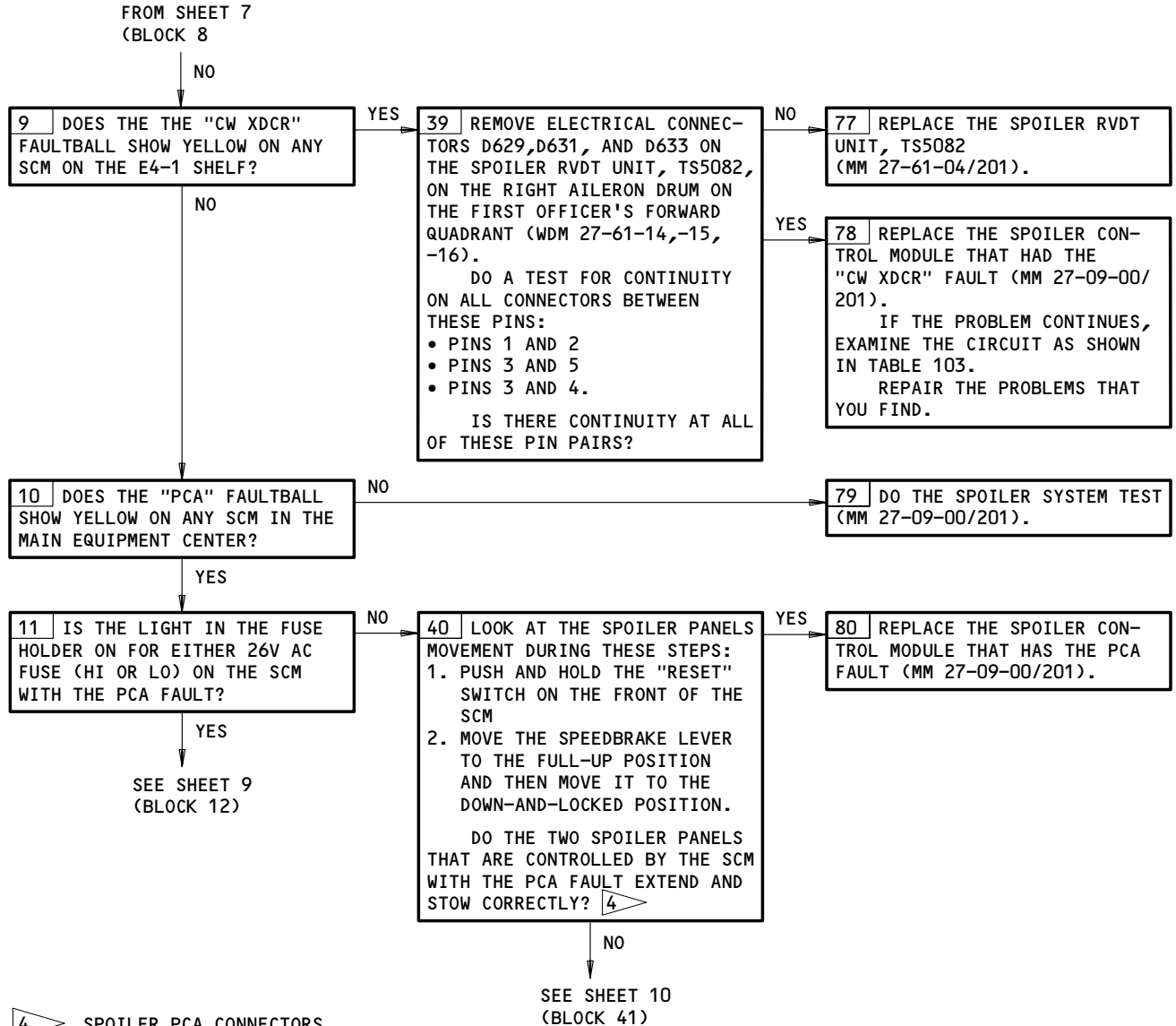
YES

76 REPLACE THE SPOILER CONTROL MODULE THAT HAD THE "CW XDCR" FAULT (MM 27-09-00/201).  
IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT AS SHOWN IN TABLE 103.  
REPAIR THE PROBLEMS THAT YOU FIND.

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 7)

EFFECTIVITY  
-100 SERIES SCMs

27-09-00



4 SPOILER PCA CONNECTORS

SCM NO.	SPOILER PANEL NO.	PCA CONN NO.	WDM REF NO.
1L	1/12	D641/D663	27-61-13
1R	2/11	D643/D661	27-61-14
2L	5/8	D649/D655	27-61-17
2R	3/10	D645/D659	27-61-15
3L	6/7	D651/D653	27-61-18
3R	4/9	D647/D657	27-61-16

5 IF THE PROBLEM HAS NOT BEEN CORRECTED, THE "PCA" FAULTBALL WILL SHOW YELLOW AGAIN WHEN THE "RESET" SWITCH IS RELEASED.

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 8)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

FROM SHEET 8  
(BLOCK 11)

YES

**12** **WARNING**  
DO THE DEACTIVATION PROCEDURE FOR THE SPOILERS. THE SPOILERS CAN RETRACT QUICKLY AND CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.  
  
DO THE DEACTIVATION PROCEDURE FOR THE SPOILERS (AMM 27-61-00/201).  
REMOVE THE CONNECTOR ON THE SPOILER POWER CONTROL ACTUATORS (PCA) THAT ARE CONTROLLED BY THE SCM WITH THE PCA FAULT. **4**  
MEASURE THE RESISTANCE BETWEEN THESE PINS ON EACH SPOILER PCA:  
• PINS 5 AND 7 259-387 OHMS  
• PINS 8 AND 9 60-90 OHMS.  
  
ARE THE RESISTANCE VALUES IN THE RANGE GIVEN ABOVE FOR EACH ACTUATOR?

NO

**81** REPLACE THE POWER CONTROL ACTUATOR RVDT WITH THE OUT OF RANGE RESISTANCE VALUE (AMM 27-61-02/201).  
REPLACE THE FUSE IN THE FUSE HOLDER WHICH HAS A LIGHT THAT IS ON AT THE FRONT PANEL OF THE SCM WITH THE PCA FAULT.

YES

**13** MEASURE THE RESISTANCE BETWEEN PINS 1 AND 3 ON EACH SPOILER PCA.  
IS THE RESISTANCE VALUE BETWEEN 440 AND 560 OHMS FOR EACH ACTUATOR?

NO

**82** REPLACE THE ELECTROHYDRAULIC SERVO VALVE ON THE SPOILER PCA WITH THE OUT OF RANGE RESISTANCE VALUE (AMM 27-61-02/201).

YES

**14** MEASURE THE RESISTANCE BETWEEN THESE PINS ON EACH SPOILER PCA:  
• PINS 5 AND 8  
• PINS 7 AND 9  
• PINS 5 AND 9  
• PINS 5 AND 10  
• PINS 7 AND 10  
• PINS 8 AND 10  
• PINS 9 AND 10  
• PINS 7 AND 8.  
  
DO ALL THE RESISTANCE VALUES SHOW AN OPEN CIRCUIT ON EACH PIN PAIR FOR EACH PCA?

NO

**83** REPLACE THE SPOILER PCA (AMM 27-61-02/201), THAT DID NOT SHOW AN OPEN RESISTANCE VALUE FOR EACH PIN PAIR.

YES

**84** EXAMINE THE CIRCUIT FROM THE SCM WITH THE PCA FAULT TO THE TWO APPLICABLE PCAs, AS SHOWN IN TABLE 104.  
REPAIR THE PROBLEMS THAT YOU FIND.

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 9)

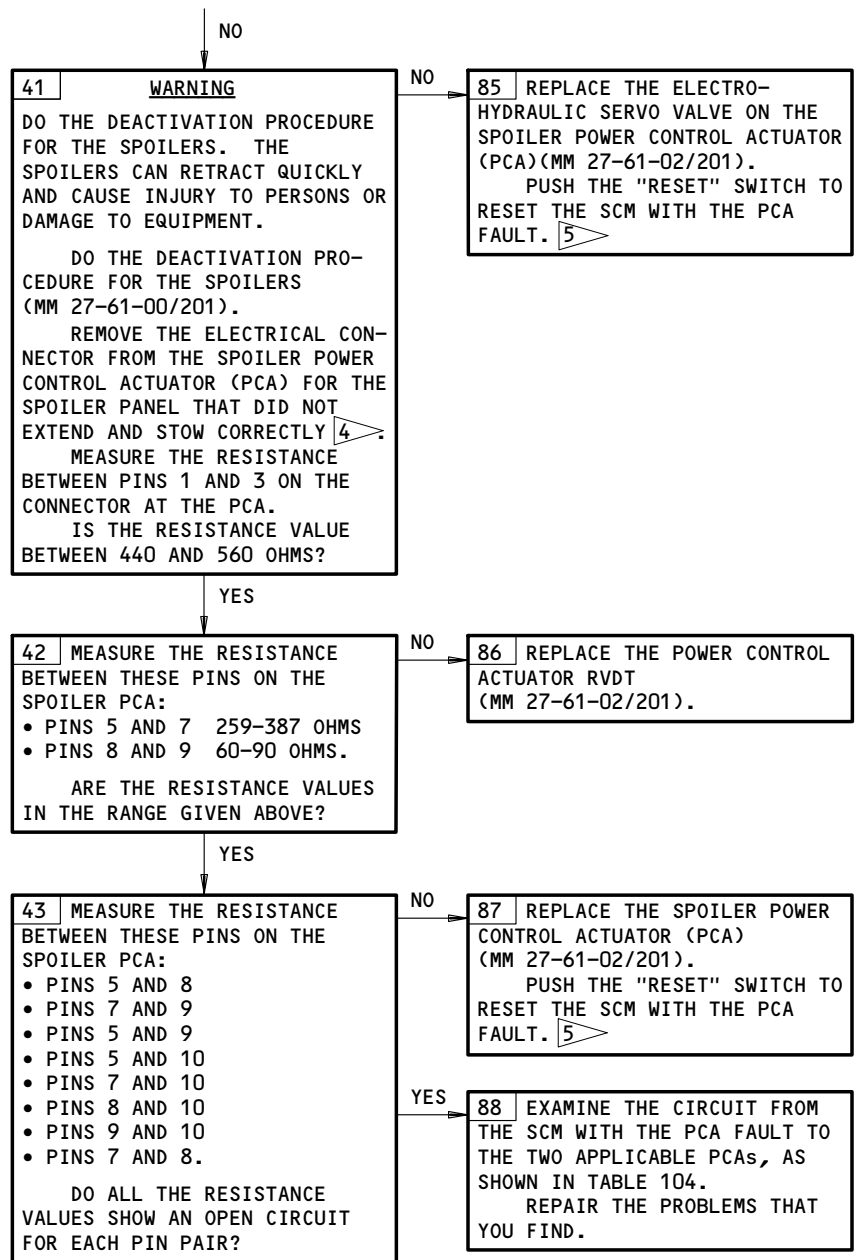
EFFECTIVITY  
-100 SERIES SCM'S

**27-09-00**



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 8  
(BLOCK 40)

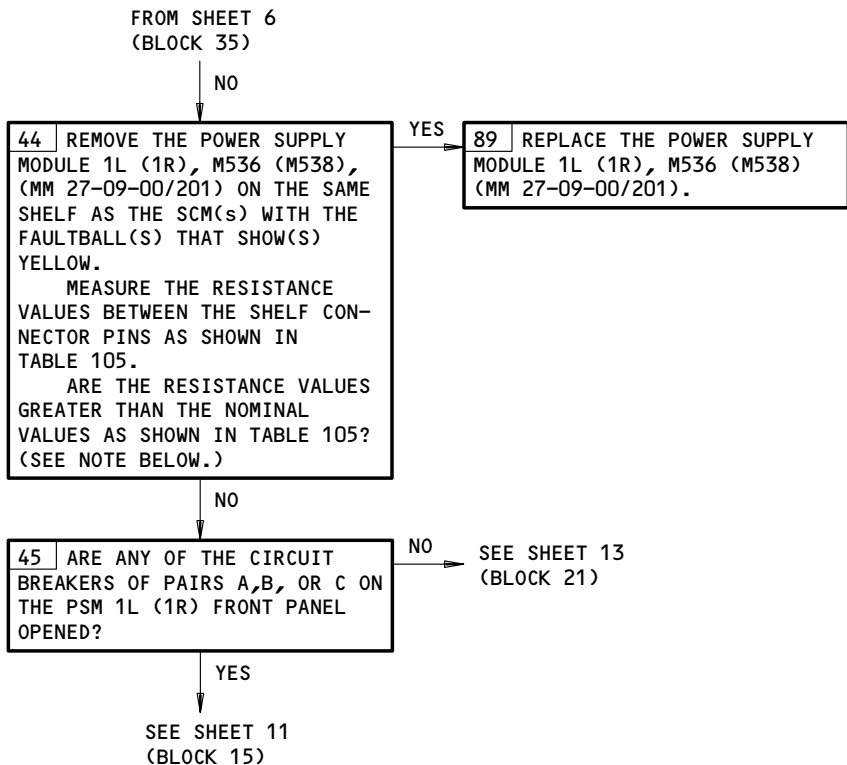


Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 10)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



**NOTE:** THE 26V AC EXCITATION VOLTAGE IS SUPPLIED TO THE THREE SCMs ON THE SAME SHELF BY THREE CIRCUITS FROM THE PRIMARY PSM 1L (1R). THIS VOLTAGE IS SUPPLIED THROUGH THREE CONNECTORS ON THE E3-1 (E4-1) SHELF. FOR A CIRCUIT WITH THE PRIMARY PSM REMOVED, THE NOMINAL RESISTANCE VALUES AT THE SHELF CONNECTOR ARE AS SHOWN IN TABLE 105.

THESE STEPS WILL ISOLATE A SHORTED OR A LOW RESISTANCE PSM WHICH WOULD CAUSE THE POWER SUPPLY CIRCUIT BREAKER TO OPEN:

1. THE PSMs ARE REMOVED, ONE AT A TIME, AND THE RESISTANCE IS MEASURED AT EACH SHELF CONNECTOR AND THE VALUES ARE WRITTEN DOWN
2. IF THE RESISTANCE VALUES BETWEEN THE PINS OR FROM EITHER PIN TO GROUND ARE GREATER THAN OR EQUAL TO THE NOMINAL VALUES AS SHOWN IN TABLE 105, THE CIRCUIT IS OK BUT THE REMOVED PSM CONTAINS A SHORT OR IS DEFECTIVE.

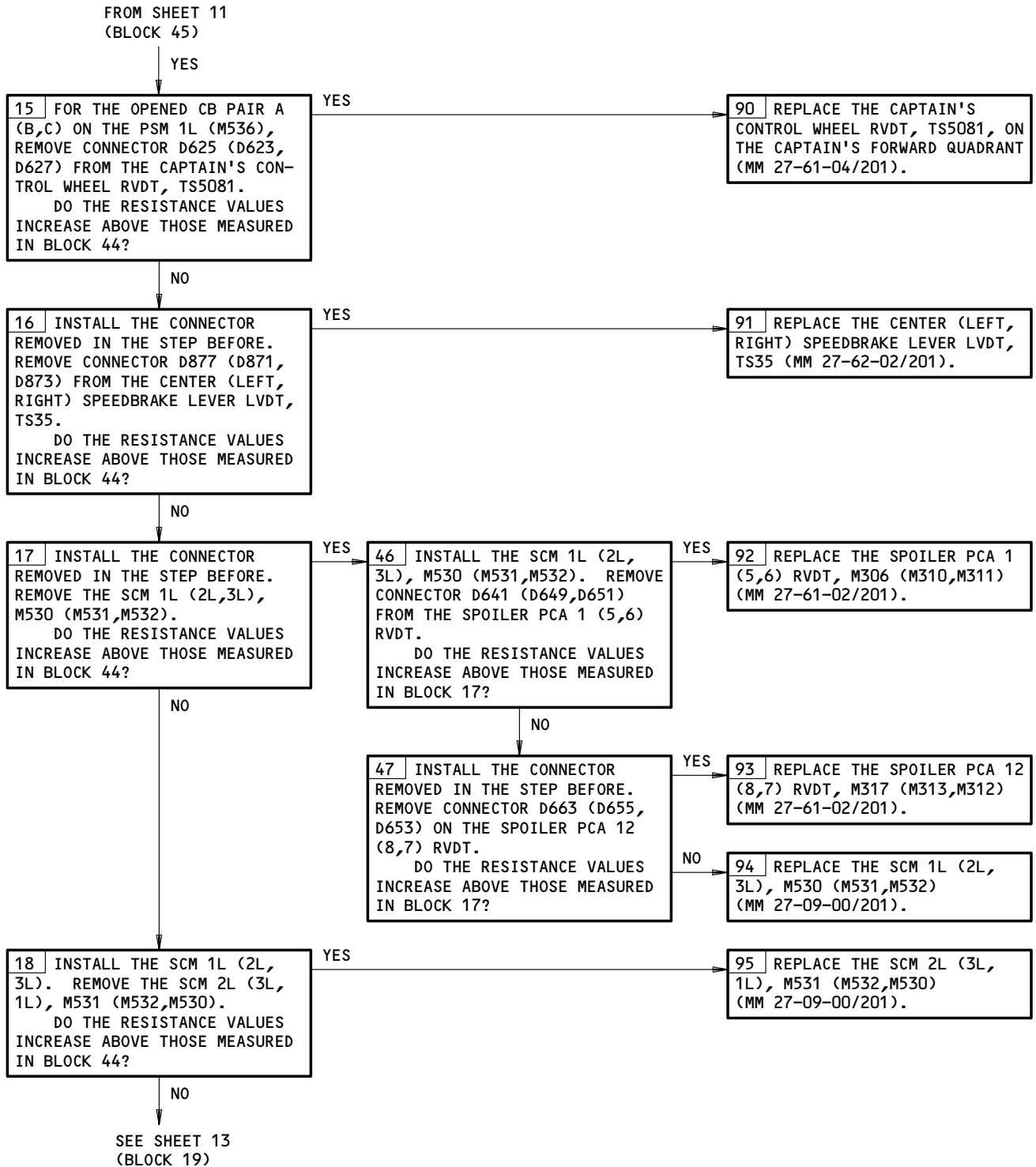
WITH BOTH PSM 1L AND PSM 1R REMOVED, IF THE RESISTANCE VALUES FROM EITHER PIN TO GROUND ON EACH SHELF CONNECTOR ARE NOT INFINITE, WIRING CONTINUITY CHECKS ARE REQUIRED AS SHOWN IN TABLE 106.

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 11)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

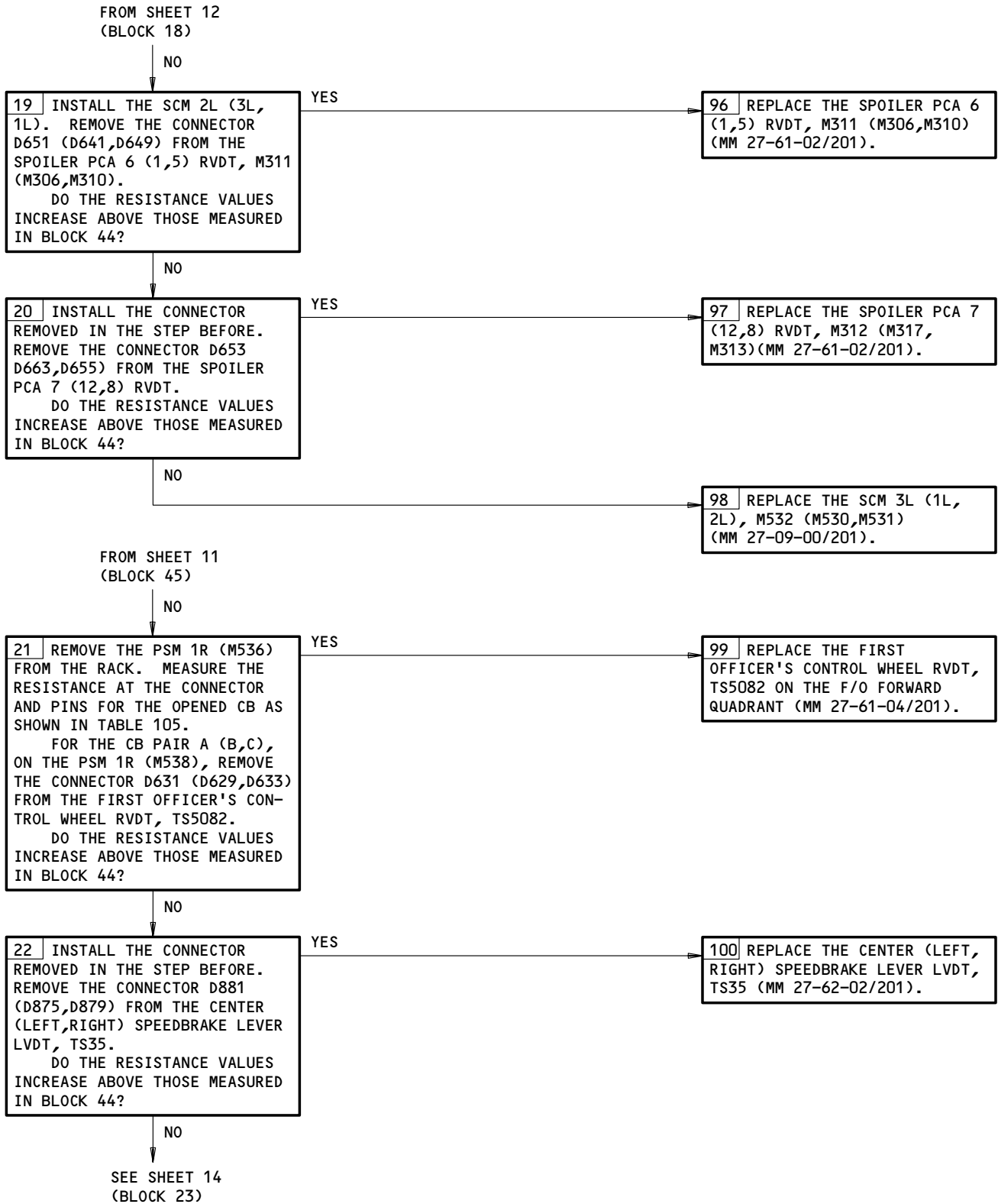
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Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 12)

EFFECTIVITY  
-100 SERIES SCM'S

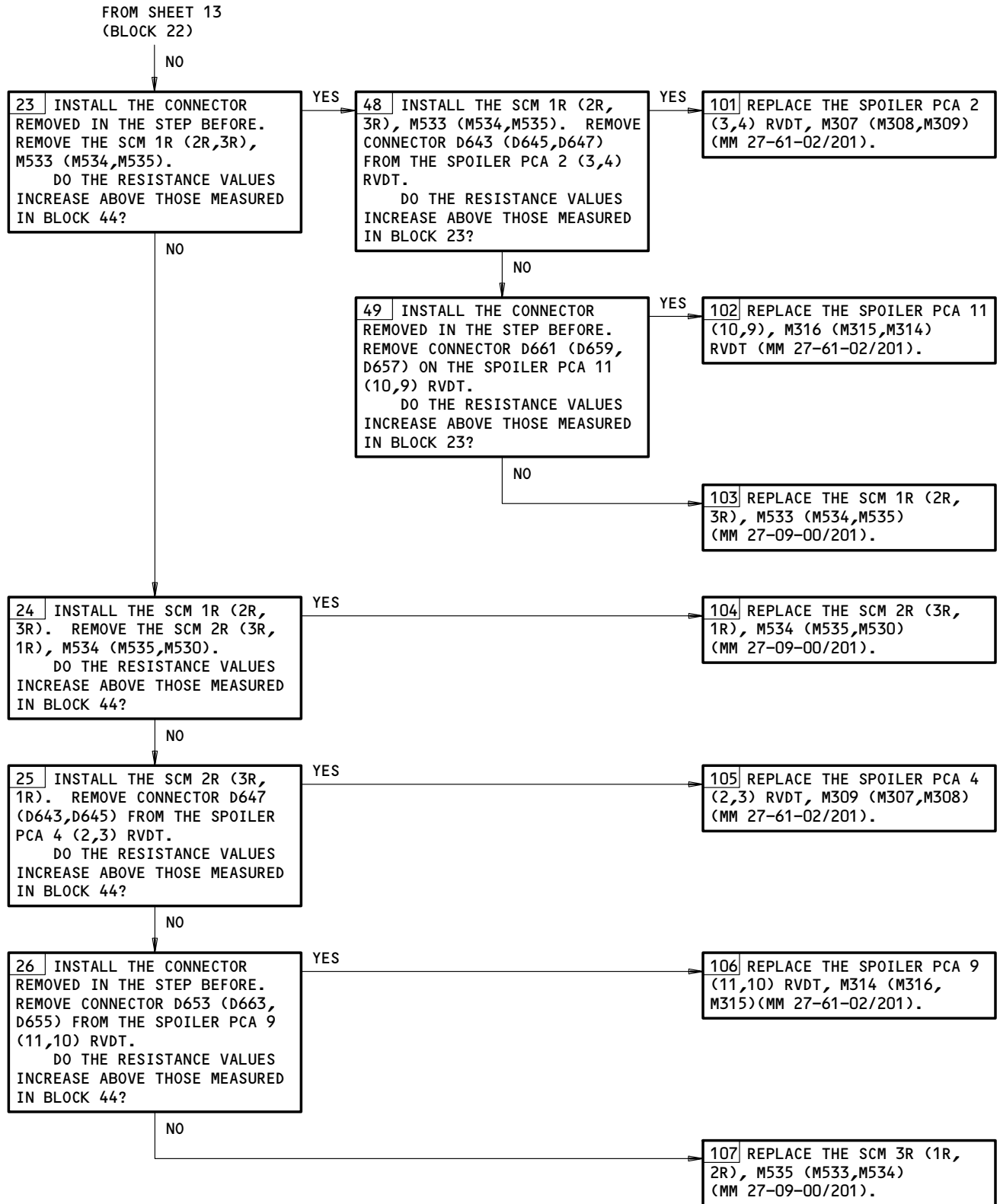
27-09-00



Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 13)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00



Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 14)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

SYSTEM COMMAND	DOES THE EICAS MAINT MSG "SPOILERS" SHOW?	AIRPLANE - ON THE GROUND								CORRECT SPOILER PANEL POSITION	FAULT CAUSE AND CORRECTION
		SCM "MODULE FAULT" BALL STATUS						SPOILER PNL POS			
		1L	2L	3L	1R	2R	3R	5&8	6&7		
CONTROL WHEEL FULL CW OR CCW	NO	---	---	---	---	---	---		15°	6 OR 7 SHOULD BE AT 30°	AIR/GND SYS 1 BAD. DO THIS PROCEDURE: EICAS MSG AIR/GND DISAGREE DISPLAYED ON GND PROCEDURE (FIM 32-09-00/101, FIG. 105).
SPEEDBRAKE LEVER FULL UP	YES	SET	SET	---	SET	SET	SET		15°	6 AND 7 SHOULD BE AT 30°	
CONTROL WHEEL FULL CW OR CCW	YES	---	---	SET	---	---	---		15°	6 OR 7 SHOULD BE AT 30°	AIR/GND SYS 2 BAD. DO THIS PROCEDURE: EICAS MSG AIR/GND DISAGREE DISPLAYED ON GND PROCEDURE (FIM 32-09-00/101, FIG. 105).
SPEEDBRAKE LEVER FULL UP	YES	SET	---	SET	SET	SET	SET	20°	15°	6 AND 7 SHOULD BE AT 30° 5 AND 8 SHOULD BE AT 45°	
CONTROL WHEEL FULL CW OR CCW	YES	---	---	SET	---	---	---				RELAY K10384 BAD. DO THIS PROCEDURE: AIR/GND RELAY PROBLEM PROCEDURE (FIM 32-09-00/101, FIG. 103).
SPEEDBRAKE LEVER FULL UP	YES	SET	---	SET	SET	SET	SET				
CONTROL WHEEL FULL CW OR CCW	NO	---	---	---	---	---	---				RELAY K10387 BAD. DO THIS PROCEDURE: AIR/GND RELAY PROBLEM PROCEDURE (FIM 32-09-00/101, FIG. 103).
SPEEDBRAKE LEVER FULL UP	YES	SET	SET	---	SET	SET	SET				
CONTROL WHEEL FULL CW OR CCW	YES	---	---	SET	---	---	---		15°	6 OR 7 SHOULD BE AT 30°	RELAY K10385 OR K10386 BAD. DO THIS PROCEDURE: THE AIR/GND RELAY PROBLEM PROCEDURE (FIM 32-09-00/101, FIG. 103).
SPEEDBRAKE LEVER FULL UP	YES	---	SET	SET	---	---	---	20°	15°	6 AND 7 SHOULD BE AT 30° 5 AND 8 SHOULD BE AT 45°	

EFFECTS OF AIR/GROUND FAULTS ON THE SPOILER/SPEEDBRAKE CONTROL SYSTEM  
TABLE 101

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 15)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

SYSTEM COMMAND	DOES THE EICAS MAINT MSG "SPOILERS" SHOW?	AIRPLANE - SIMULATED IN AIR								CORRECT SPOILER PANEL POSITION	FAULT CAUSE AND CORRECTION
		SCM "MODULE FAULT" BALL STATUS						SPOILER PNL POS			
		1L	2L	3L	1R	2R	3R	1&2 2&11 3&10	4&9		
CONTROL WHEEL FULL CW OR CCW	YES	---	---	SET	---	---	---		15°		AIR/GND SYS 1 BAD. DO THIS PROCEDURE: EICAS MSG AIR/GND DISAGREE DISPLAYED ON GND PROCEDURE (FIM 32-09-00/101, FIG. 105).
SPEEDBRAKE LEVER FULL UP	YES	SET	---	SET	SET	SET	SET	45°	45°	1&12,2&11,3&10 SHOULD BE AT 30° 4&9 SHOULD BE AT 0°	
CONTROL WHEEL FULL CW OR CCW	NO	---	---	---	---	---	---			6 OR 7 SHOULD BE AT 30°	AIR/GND SYS 2 BAD. DO THIS PROCEDURE: EICAS MSG AIR/GND DISAGREE DISPLAYED ON GND PROCEDURE (FIM 32-09-00/101, FIG. 105).
SPEEDBRAKE LEVER FULL UP	YES	SET	SET	---	SET	SET	SET	45°	55°	1&12,2&11,3&10 SHOULD BE AT 30° 4&9 SHOULD BE AT 0°	
CONTROL WHEEL FULL CW OR CCW	YES	---	---	SET	---	---	---				RELAY K10384 BAD. DO THIS PROCEDURE: AIR/GND RELAY PROBLEM PROCEDURE (FIM 32-09-00/101, FIG. 103).
SPEEDBRAKE LEVER FULL UP	YES	SET	---	SET	SET	SET	SET				
CONTROL WHEEL FULL CW OR CCW	NO	---	---	---	---	---	---				RELAY K10387 BAD. DO THIS PROCEDURE: AIR/GND RELAY PROBLEM PROCEDURE (FIM 32-09-00/101, FIG. 103).
SPEEDBRAKE LEVER FULL UP	YES	SET	SET	---	SET	SET	SET				
CONTROL WHEEL FULL CW OR CCW	NO	---	---	---	---	---	---				RELAY K10385 OR K10386 BAD. DO THIS PROCEDURE: THE AIR/GND RELAY PROBLEM PROCEDURE (FIM 32-09-00/101, FIG. 103).
SPEEDBRAKE LEVER FULL UP	YES	SET	---	---	SET	SET	SET				

EFFECTS OF AIR/GROUND FAULTS ON THE SPOILER/SPEEDBRAKE CONTROL SYSTEM  
TABLE 101

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 16)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

SPEEDBRAKE LVDT				TERMINAL BLOCK/PINS	SPOILER CONTROL MODULE				
POSITION	COLOR	CONNECTOR	PINS		NO.	MODULE	CHAN	CONNECTOR	PINS
LEFT	BLACK	D871	3 5	TB109 YA5 YC5	1L	M530 (WDM 27-61-13)	A	D635A	K3 K4
					2L	M531 (WDM 27-61-17)	B	D637B	K4 K5
					3L	M532 (WDM 27-61-18)	C	D639B	K12 K13
CENTER	CLEAR	D877	3 5	TB109 YA43 YC43	1L	M530 (WDM 27-61-13)	B	D635B	K4 K5
					2L	M531 (WDM 27-61-17)	C	D637B	K12 K13
					3L	M532 (WDM 27-61-18)	A	D639A	K3 K4
RIGHT	SILVER	D873	3 5	TB109 YA82 YC82	1L	M530 (WDM 27-61-13)	C	D635B	K12 K13
					2L	M531 (WDM 27-61-17)	A	D637A	K3 K4
					3L	M532 (WDM 27-61-18)	B	D639B	K4 K5
LEFT	BLACK	D875	3 5	TB108 YC3 YA4	1R	M533 (WDM 27-61-14)	A	D665A	K3 K4
					2R	M534 (WDM 27-61-15)	B	D667B	K4 K5
					3R	M535 (WDM 27-61-16)	C	D669B	K12 K13
CENTER	CLEAR	D881	3 5	TB108 YC43 YA44	1R	M533 (WDM 27-61-14)	B	D665B	K4 K5
					2R	M534 (WDM 27-61-15)	C	D667B	K12 K13
					3R	M535 (WDM 27-61-16)	A	D669A	K3 K4
RIGHT	SILVER	D879	3 5	TB108 YA84 YC84	1R	M533 (WDM 27-61-14)	C	D665B	K12 K13
					2R	M534 (WDM 27-61-15)	A	D667A	K3 K4
					3R	M535 (WDM 27-61-16)	B	D669B	K4 K5

SPOILER CONTROL MODULE TO SPEEDBRAKE LVDT  
TABLE 102

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 17)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00




**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

CONTROL WHEEL RVDT				TERMINAL		SPOILER CONTROL MODULE				
NO.	MODULE	CONNECTOR	PINS	BLOCK/PINS		NO.	MODULE	CHAN	CONNECTOR	PINS
1 CAPT	TS5081 (WDM 27-61-17)	D623	3 5	TB109	YA4 YC4	1L	M530 (WDM 27-61-13)	A	D635A	J3 J4
						2L	M531 (WDM 27-61-17)	B	D637B	J4 J5
						3L	M532 (WDM 27-61-18)	C	D639B	J12 J13
2 CAPT	TS5081 (WDM 27-61-13)	D625	3 5	TB109	YA41 YC41	1L	M530 (WDM 27-61-13)	B	D635B	J4 J5
						2L	M531 (WDM 27-61-17)	C	D637B	J12 J13
						3L	M532 (WDM 27-61-18)	A	D639A	J3 J4
3 CAPT	TS5081 (WDM 27-61-18)	D627	3 5	TB109	YA81 YC81	1L	M530 (WDM 27-61-13)	C	D635B	J12 J13
						2L	M531 (WDM 27-61-17)	A	D637A	J3 J4
						3L	M532 (WDM 27-61-18)	B	D639B	J4 J5
1 F/O	TS5082 (WDM 27-61-15)	D629	3 5	TB108	YC2 YA3	1R	M533 (WDM 27-61-14)	A	D665A	J3 J4
						2R	M534 (WDM 27-61-15)	B	D667B	J4 J5
						3R	M535 (WDM 27-61-16)	C	D669B	J12 J13
2 F/O	TS5082 (WDM 27-61-14)	D631	3 5	TB108	YC42 YA43	1R	M533 (WDM 27-61-14)	B	D665B	J4 J5
						2R	M534 (WDM 27-61-15)	C	D667B	J12 J13
						3R	M535 (WDM 27-61-16)	A	D669A	J3 J4
3 F/O	TS5082 (WDM 27-61-16)	D633	3 5	TB108	YA82 YC82	1R	M533 (WDM 27-61-14)	C	D665B	J12 J13
						2R	M534 (WDM 27-61-15)	A	D667A	J3 J4
						3R	M535 (WDM 27-61-16)	B	D669B	J4 J5

SPOILER CONTROL MODULE TO RVDT IN SPOILER RVDT UNIT  
TABLE 103

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 18)

EFFECTIVITY  
'100 SERIES SCM'S

27-09-00

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CONTINUITY BETWEEN		CONTINUITY BETWEEN	
SCM MODULE CONNECTOR, PIN	PCA MODULE CONNECTOR, PIN	SCM MODULE CONNECTOR, PIN	PCA MODULE CONNECTOR, PIN
SCM 1L M530 D635A, G9 (G10) D635A, G8 (G11) D635A, K8 (J8) D635A, K9 (J9) D635A, K11 D635A, J11 (WDM 27-61-13)	PCA 1 (12) M306 (M317) D641 (D663), 3 D641 (D663), 1 D641 (D663), 7 D641 (D663), 5 D641 (D663), 9 D641 (D663), 8	SCM 1R M533 D665A, G9 (G10) D665A, G8 (G11) D665A, K8 (J8) D665A, K9 (J9) D665A, K11 D665A, J11 (WDM 27-61-14)	PCA 2 (11) M307 (M316) D643 (D661), 3 D643 (D661), 1 D643 (D661), 7 D643 (D661), 5 D643 (D661), 9 D643 (D661), 8
SCM 2L M531 D637A, G9 (G10) D637A, G8 (G11) D637A, K8 (J8) D637A, K9 (J9) D637A, K11 D637A, J11 (WDM 27-61-17)	PCA 5 (8) M310 (M313) D649 (D655), 3 D649 (D655), 1 D649 (D655), 7 D649 (D655), 5 D649 (D655), 9 D649 (D655), 8	SCM 2R M534 D667A, G9 (G10) D667A, G8 (G11) D667A, K8 (J8) D667A, K9 (J9) D667A, K11 D667A, J11 (WDM 27-61-15)	PCA 3 (10) M308 (M315) D645 (D659), 3 D645 (D659), 1 D645 (D659), 7 D645 (D659), 5 D645 (D659), 9 D645 (D659), 8
SCM 3L M532 D639A, G9 (G10) D639A, G8 (G11) D639A, K8 (J8) D639A, K9 (J9) D639A, K11 D639A, J11 (WDM 27-61-18)	PCA 6 (7) M311 (M312) D651 (D653), 3 D651 (D653), 1 D651 (D653), 7 D651 (D653), 5 D651 (D653), 9 D651 (D653), 8	SCM 3R M535 D669A, G9 (G10) D669A, G8 (G11) D669A, K8 (J8) D669A, K9 (J9) D669A, K11 D669A, J11 (WDM 27-61-16)	PCA 4 (9) M309 (M314) D647 (D657), 3 D647 (D657), 1 D647 (D657), 7 D647 (D657), 5 D647 (D657), 9 D647 (D657), 8

SPOILER CONTROL MODULE TO POWER CONTROL ACTUATOR INTERFACES  
TABLE 104

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 19)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

MODULE	CB PAIR	CONNECTOR	RESISTANCE MEASUREMENT
PSM 1L M536	B	D701A (WDM 27-61-17)	A1, C1      20 OHMS NOMINAL
			A1, GROUND      900 OHMS NOMINAL
			C1, GROUND      900 OHMS NOMINAL
	A	D701B (WDM 27-61-13)	A1, C1      20 OHMS NOMINAL
			A1, GROUND      900 OHMS NOMINAL
			C1, GROUND      900 OHMS NOMINAL
C	D701B (WDM 27-61-18)	A5, C5      20 OHMS NOMINAL	
		A5, GROUND      900 OHMS NOMINAL	
		C5, GROUND      900 OHMS NOMINAL	
PSM 1R M538	B	D671A (WDM 27-61-15)	A1, C1      20 OHMS NOMINAL
			A1, GROUND      900 OHMS NOMINAL
			C1, GROUND      900 OHMS NOMINAL
	A	D671B (WDM 27-61-14)	A1, C1      20 OHMS NOMINAL
			A1, GROUND      900 OHMS NOMINAL
			C1, GROUND      900 OHMS NOMINAL
C	D671B (WDM 27-61-16)	A5, C5      20 OHMS NOMINAL	
		A5, GROUND      900 OHMS NOMINAL	
		C5, GROUND      900 OHMS NOMINAL	

POWER SUPPLY MODULE OUTPUTS  
TABLE 105

Spoiler Control Module BITE Procedure  
 Figure 105 (Sheet 20)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

CONTINUITY BETWEEN		CONTINUITY BETWEEN	
SCM MODULE CONNECTOR, PIN(S)	PSM, PCA MODULE CONNECTOR, PIN(S)	SCM MODULE CONNECTOR, PIN(S)	PSM, PCA MODULE CONNECTOR, PIN(S)
SCM 1L M530 D635B, K7 D635B, J7  D635B, J7	PSM 1L M536 D701B, A1 D701B, C1 PSM 2L M537 D703B, C1	SCM 1R M533 D665B, K7 D665B, J7  D665B, J7	PSM 1R M538 D671B, A1 D671B, C1 PSM 2R M539 D673B, C1
D635A, K11 (J11)	PCA 1 M306 D641, 9 (8)	D665A, K11 (J11)	PCA 2 M307 D643, 9 (8)
D635A, K11 (J11) (WDM 27-61-13)	PCA 12 M317 D663, 9 (8)	D665A, K11 (J11) (WDM 27-61-14)	PCA 11 M316 D661, 9 (8)
SCM 2L M531 D637B, K7 D637B, J7  D637B, J7	PSM 1L M536 D701A, A1 D701A, C1 PSM 2L M537 D703A, C1	SCM 2R M534 D667B, K7 D667B, J7  D667B, J7	PSM 1R M538 D671A, A1 D671A, C1 PSM 2R M539 D673A, C1
D637A, K11 (J11)	PCA 5 M310 D649, 9 (8)	D667A, K11 (J11)	PCA 3 M308 D645, 9 (8)
D637A, K11 (J11) (WDM 27-61-17)	PCA 8 M313 D655, 9 (8)	D667A, K11 (J11) (WDM 27-61-15)	PCA 10 M315 D659, 9 (8)
SCM 3L M532 D639B, K7 D639B, J7  D639B, J7	PSM 1L M536 D701B, A5 D701B, C5 PSM 2L M537 D703B, C5	SCM 3R M535 D669B, K7 D669B, J7  D669B, J7	PSM 1R M538 D671B, A5 D671B, C5 PSM 2R M539 D673B, C5
D639A, K11 (J11)	PCA 6 M311 D651, 9 (8)	D669A, K11 (J11)	PCA 4 M309 D647, 9 (8)
D639A, K11 (J11) (WDM 27-61-18)	PCA 7 M312 D653, 9 (8)	D669A, K11 (J11) (WDM 27-61-16)	PCA 9 M314 D657, 9 (8)

SPOILER CONTROL MODULE AC INTERFACES  
TABLE 106

Spoiler Control Module BITE Procedure  
Figure 105 (Sheet 21)

EFFECTIVITY  
-100 SERIES SCM'S

27-09-00

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:  
AIR/GROUND SYSTEM (AMM 32-09-02/201)  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6, 11C7, 11C8, 11C9, 11G17, 11G18, 11G27, 11G28

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

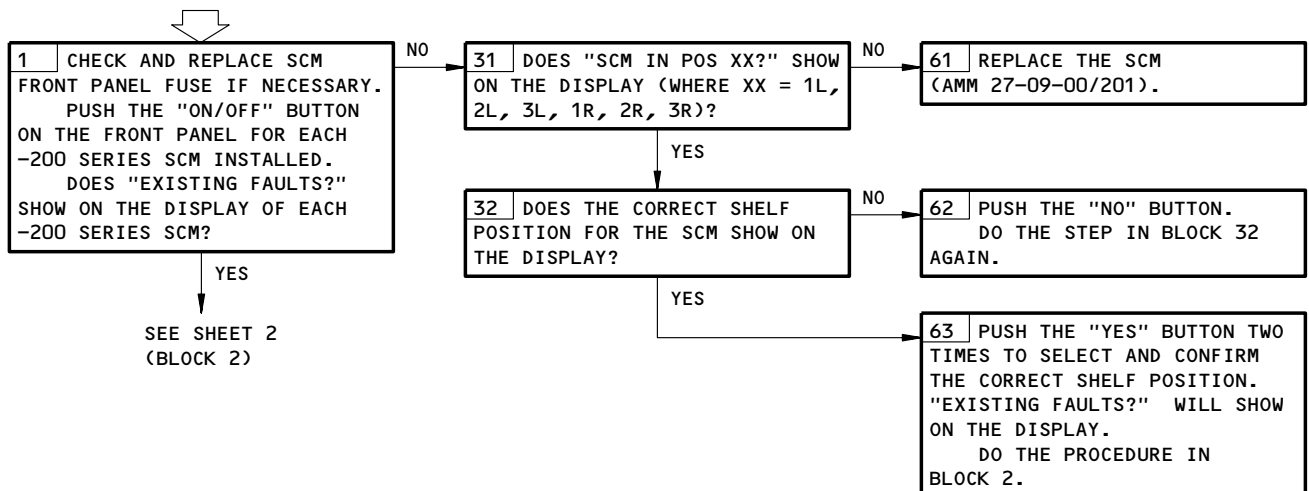
**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** THE SPOILERS HAVE NUMBERS 1-12 FROM THE LEFT WING TIP TO THE RIGHT WING TIP, AS YOU FACE IN THE FORWARD DIRECTION.

USE THE PROCEDURE BELOW TO EXAMINE THE EXISTING FAULTS FOR EACH -200 SERIES SPOILER CONTROL MODULE (SCM) INSTALLED ON THE AIRPLANE. THE -200 SERIES SCMs HAVE A BITE DISPLAY. THE -100 SERIES SCMs HAVE FAULTBALLS.

**SPOILER CONTROL  
MODULE BITE  
PROCEDURE**

FOR SCM MODULES WITH FUSES, LOOK FOR A BLOWN FUSE.

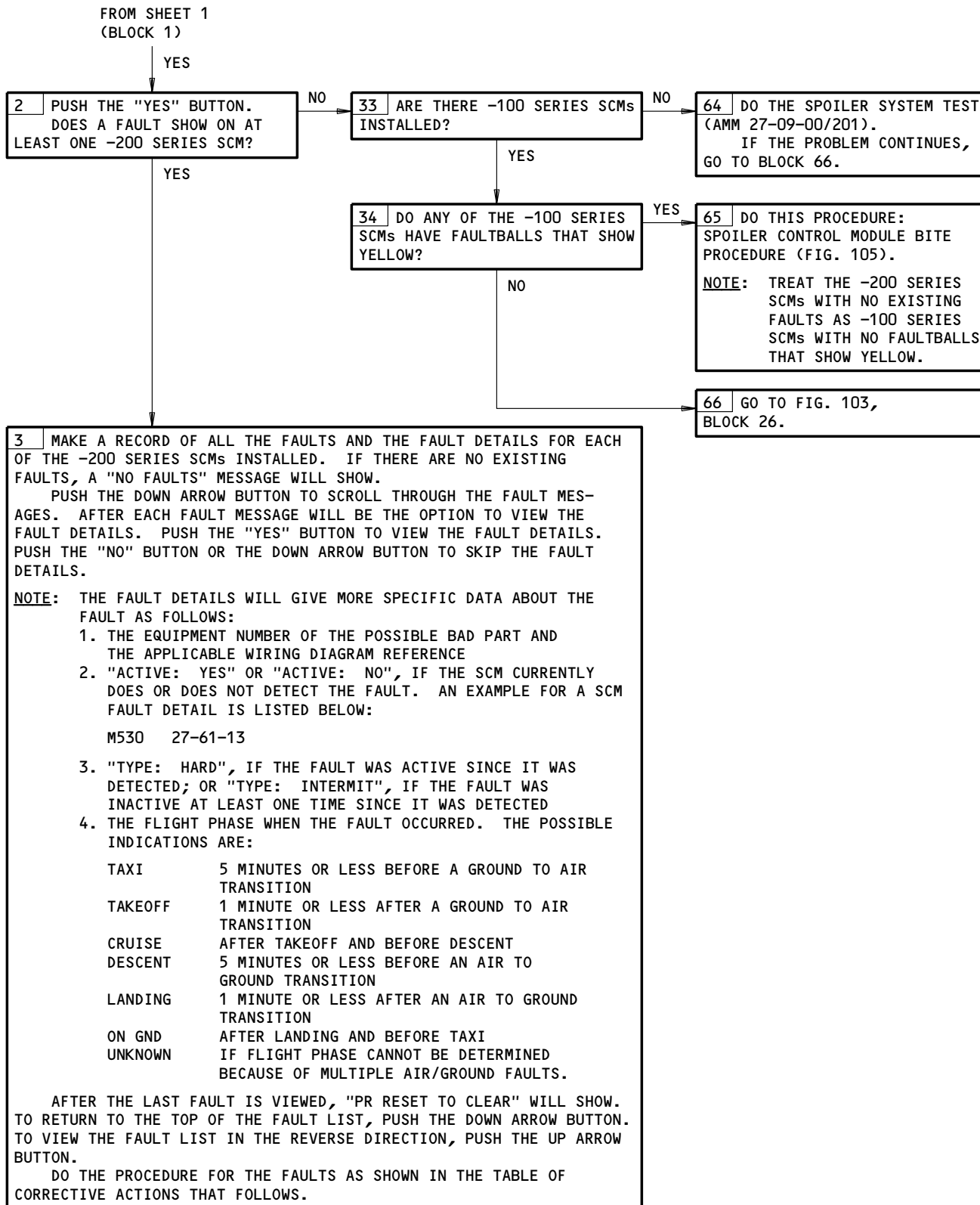


Spoiler Control Module BITE Procedure  
Figure 105A (Sheet 1)

EFFECTIVITY  
-200 SERIES SCMs

**27-09-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL











Spoiler Control Module BITE Procedure  
Figure 105A (Sheet 2)


EFFECTIVITY  
-200 SERIES SCM'S

27-09-00

A15392

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT MESSAGE	CORRECTIVE ACTION																												
SCM FAULT	REPLACE THE SCM THAT SHOWS THIS FAULT (AMM 27-09-00/201). 																												
SCM 1L    SCM 1R FAULT      FAULT  SCM 2L    SCM 2R FAULT      FAULT  SCM 3L    SCM 3R FAULT      FAULT	<p>1. MAKE SURE THE SCM SHOWN ON THE DISPLAY IS CORRECTLY INSTALLED IN THE EQUIPMENT RACK. PUSH THE RESET BUTTON ON THE SCM THAT SHOWS THIS FAULT.</p> <p>2. IF THE PROBLEM CONTINUES, REPLACE THE SCM AT THE SHELF POSITION SHOWN ON THE DISPLAY (AMM 27-09-00/201). </p> <p>3. IF THE PROBLEM CONTINUES, REMOVE THE SCM AT THE SHELF POSITION SHOWN ON THE DISPLAY, AND REMOVE THE SCM THAT SHOWS THIS FAULT (AMM 27-09-00/201). DO A CONTINUITY CHECK ON THE WIRE BETWEEN THE APPLICABLE SHELF CONNECTORS FROM PIN C15 OF THE SCM THAT WAS SHOWN ON THE DISPLAY, TO PIN C14 OF THE SCM THAT SHOWED THIS FAULT (WDM 27-61-12):</p> <table style="margin-left: 40px;"> <tr> <td>SCM:</td> <td>1L</td> <td>1R</td> <td>2L</td> <td>2R</td> <td>3L</td> <td>3R</td> </tr> <tr> <td>CONNECTOR:</td> <td>D635A</td> <td>D665A</td> <td>D637A</td> <td>D667A</td> <td>D639A</td> <td>D669A</td> </tr> <tr> <td>EQUIPMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NUMBER:</td> <td>M530</td> <td>M533</td> <td>M531</td> <td>M534</td> <td>M532</td> <td>M535</td> </tr> </table> <p>4. REPAIR THE WIRE IF IT IS NECESSARY. INSTALL THE SCMs REMOVED IN THIS STEP (AMM 27-09-00/201). </p> <p>5. IF THE PROBLEM CONTINUES, REPLACE THE SCM THAT SHOWS THIS FAULT (AMM 27-09-00/201). </p>	SCM:	1L	1R	2L	2R	3L	3R	CONNECTOR:	D635A	D665A	D637A	D667A	D639A	D669A	EQUIPMENT							NUMBER:	M530	M533	M531	M534	M532	M535
SCM:	1L	1R	2L	2R	3L	3R																							
CONNECTOR:	D635A	D665A	D637A	D667A	D639A	D669A																							
EQUIPMENT																													
NUMBER:	M530	M533	M531	M534	M532	M535																							
26 VAC    26 VAC 27-61-13    27-61-14  26 VAC    26 VAC 27-61-15    27-61-16  26 VAC    26 VAC 27-61-17    27-61-18	<p>GO TO BLOCK 10.</p> <p><u>NOTE:</u> USE THE WDM REFERENCE GIVEN IN THE FAULT MESSAGE TO FIND THE APPLICABLE CIRCUIT.</p> <p>THE EQUIPMENT NUMBERS ARE:</p> <table style="margin-left: 40px;"> <tr> <td>1L</td> <td>1R</td> <td>2L</td> <td>2R</td> </tr> <tr> <td>M536</td> <td>M538</td> <td>M537</td> <td>M539</td> </tr> </table>	1L	1R	2L	2R	M536	M538	M537	M539																				
1L	1R	2L	2R																										
M536	M538	M537	M539																										
A/G SYS1 FAULT  A/G SYS2 FAULT  AIR/GND FAULT	<p>1. PUSH THE RESET BUTTON ON THE SCM THAT SHOWS THIS FAULT. STOP FOR 25 SECONDS.</p> <p>2. IF THE PROBLEM CONTINUES, REPLACE THE RELAY SHOWN IN THE FAULT DETAILS (AMM 32-09-02/201)(WDM 27-09-12). </p> <p>3. IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE APPLICABLE WIRES ON THE CONNECTORS BETWEEN THE RELAY SHOWN IN THE FAULT DETAILS, AND THE SCM THAT SHOWS THIS FAULT (WDM 27-09-12)  :</p> <p style="margin-left: 40px;">K10384, K10385, K10386, K10387</p> <p><u>NOTE:</u> WHEN YOU CHANGE THE AIR/GROUND STATE OF THE AIRPLANE, AN AIR/GROUND SYSTEM FAULT WILL OCCUR IF THE AIR/GROUND SIGNALS DISAGREE FOR MORE THAN 25 SECONDS. WHEN YOU RESET THE SCMs, ALLOW 25 SECONDS TO MAKE SURE THE AIR/GROUND FAULT DOES NOT SHOW AGAIN.</p>																												
SB LVDT FAULT	<p>1. REPLACE THE SPEEDBRAKE LVDT ATTACHED TO THE CONNECTOR SHOWN IN THE FAULT DETAILS (AMM 27-62-02/201):</p> <table style="margin-left: 40px;"> <tr> <td>1R</td> <td>2R</td> <td>3R</td> </tr> <tr> <td>WDM 27-61-14, D881, TS35</td> <td>WDM 27-61-15, D875, TS35</td> <td>WDM 27-61-16, D879, TS35</td> </tr> <tr> <td>1L</td> <td>2L</td> <td>3L</td> </tr> <tr> <td>WDM 27-61-13, D877, TS35</td> <td>WDM 27-61-17, D871, TS35</td> <td>WDM 27-61-18, D873, TS35</td> </tr> </table> <p></p> <p>2. IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE WIRES BETWEEN THE CONNECTOR SHOWN IN THE FAULT DETAILS AND THE SCM THAT SHOWS THIS FAULT. </p>	1R	2R	3R	WDM 27-61-14, D881, TS35	WDM 27-61-15, D875, TS35	WDM 27-61-16, D879, TS35	1L	2L	3L	WDM 27-61-13, D877, TS35	WDM 27-61-17, D871, TS35	WDM 27-61-18, D873, TS35																
1R	2R	3R																											
WDM 27-61-14, D881, TS35	WDM 27-61-15, D875, TS35	WDM 27-61-16, D879, TS35																											
1L	2L	3L																											
WDM 27-61-13, D877, TS35	WDM 27-61-17, D871, TS35	WDM 27-61-18, D873, TS35																											








 DO THE SYSTEM TEST PROCEDURE FOR THE SPOILER CONTROL MODULES (AMM 27-09-00/201).

Spoiler Control Module BITE Procedure  
Figure 105A (Sheet 3)

EFFECTIVITY  
-200 SERIES SCMs

27-09-00

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FAULT MESSAGE	CORRECTIVE ACTION
CW RVDT FAULT	<ol style="list-style-type: none"> <li>1. REPLACE THE CONTROL WHEEL RVDT UNIT SHOWN IN THE FAULT DETAILS (AMM 27-61-04/401). </li> <li>2. IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE WIRES OF THE CONNECTORS BETWEEN THE CONTROL WHEEL RVDT UNIT SHOWN IN THE FAULT DETAILS, AND THE SCM THAT SHOWS THIS FAULT. </li> </ol>
PSM 1 FAULT      PSM 2 FAULT	<ol style="list-style-type: none"> <li>1. REPLACE THE PSM SHOWN IN THE FAULT DETAILS (AMM 27-09-00/201). </li> <li>2. IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE PSM VALID WIRES OF THE CONNECTORS BETWEEN THE PSM SHOWN IN THE FAULT DETAILS, AND THE SCM THAT SHOWS THIS FAULT. </li> <li>3. IF THE PROBLEM CONTINUES, REPLACE THE SCM THAT SHOWS THIS FAULT (AMM 27-09-00/201). </li> </ol>
PCA 1 FAULT      PCA 12 FAULT PCA 2 FAULT      PCA 11 FAULT PCA 3 FAULT      PCA 10 FAULT PCA 4 FAULT      PCA 9 FAULT PCA 5 FAULT      PCA 8 FAULT PCA 6 FAULT      PCA 7 FAULT	<ol style="list-style-type: none"> <li>1. IF A FUSE ON THE SCM FRONT PANEL IS OPEN, DO THE FAULT ISOLATION PROCEDURE IN FIG. 105, BLOCK 11, FOR THE LEFT PCA AND THE RIGHT PCA THAT THE SCM CONTROLS.  <b>NOTE:</b> WITH THE FRONT PANEL FUSE OPEN, THE SCM WILL ONLY SHOW THE LEFT WING PCA AS BAD EVEN IF THE RIGHT WING PCA IS THE PROBLEM. YOU MUST USE THE ABOVE PROCEDURE TO ISOLATE THE BAD LEFT OR RIGHT PCA OR ITS RELATED WIRING.</li> <li>2. PUSH THE SCM RESET BUTTON. STOP FOR 10 SECONDS.</li> <li>3. IF THE FAULT RETURNS, USE THE PCA NUMBER SHOWN TO IDENTIFY THE WING LOCATION, AND REPLACE THE BAD PCA SHOWN IN THE FAULT DETAILS (AMM 27-61-02/201).  <b>NOTE:</b> <ul style="list-style-type: none"> <li>• THE FAULTS "PCA 1" TO "PCA 6" CORRESPOND TO THE SPOILERS 1 (OUTBOARD) TO 6 (INBOARD) ON THE LEFT WING.</li> <li>• THE FAULTS "PCA 7" TO "PCA 12" CORRESPOND TO THE SPOILERS 7 (INBOARD) TO 12 (OUTBOARD) ON THE RIGHT WING.</li> </ul> </li> <li>4. IF THE PROBLEM CONTINUES, USE THE WDM REFERENCE SHOWN IN THE FAULT DETAILS TO EXAMINE THE WIRING FROM THE SCM THAT SHOWS THIS FAULT TO THE PCA THAT IT CONTROLS.</li> <li>5. REPAIR THE PROBLEMS THAT YOU FIND.</li> </ol>
L HYD PRESS SW  R HYD PRESS SW	<ol style="list-style-type: none"> <li>1. REPLACE THE HYDRAULIC SYSTEM PRESSURE SWITCH SHOWN IN THE FAULT DETAILS (AMM 29-11-17/401)(WDM 27-09-13). </li> <li>2. IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE WIRES OF THE CONNECTORS BETWEEN THE HYDRAULIC SYSTEM PRESSURE SWITCH SHOWN IN THE FAULT DETAILS, AND THE SCM THAT SHOWS THIS FAULT (WDM 27-09-13). </li> </ol>

Spoiler Control Module BITE Procedure  
Figure 105A (Sheet 4)








EFFECTIVITY  
-200 SERIES SCM'S

27-09-00

A15801




**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FAULT MESSAGE	CORRECTIVE ACTION
C HYD PRESS SW	REPLACE THE HYDRAULIC SYSTEM PRESSURE SWITCH, S10002, SHOWN IN THE FAULT DETAILS (WDM 29-11-31)(AMM 29-11-19/401). 
	IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE WIRES OF THE CONNECTORS BETWEEN THE HYDRAULIC SYSTEM PRESSURE SWITCH SHOWN IN THE FAULT DETAILS, AND THE SCM THAT SHOWS THIS FAULT. 
L HYD PRESS LO R HYD PRESS LO C HYD PRESS LO	LOOK FOR OTHER HYDRAULIC SYSTEM AMBER LIGHTS AND EICAS MESSAGES IN ADDITION TO THIS FAULT MESSAGE, AND DO THE PROCEDURE FOR LOW HYDRAULIC PRESSURE (FIM 29-11-00/101).
SPOILER SHUTDOWN	LOOK FOR OTHER EXISTING FAULTS IN ADDITION TO THIS FAULT MESSAGE. DO A CHECK OF THE WIRING BETWEEN THE SCM WITH A FAULT AND THE POWER CONTROL ACTUATOR (WDM 27-61-XX). DO THE APPLICABLE PROCEDURE AND RESET THE SCM.
AMBR DUE TO HYD	PUSH THE "RESET" BUTTON. IF THE PROBLEM CONTINUES, DO THE SYSTEM TEST FOR THE SPOILER CONTROL MODULES (AMM 27-09-00/201).
27-09-13 WIRING	REPLACE THE SCM THAT SHOWS THIS FAULT (AMM 27-09-00/201).   IF THE PROBLEM CONTINUES, DO A CONTINUITY CHECK ON THE WIRES OF THE CONNECTORS BETWEEN THE APPLICABLE HYDRAULIC SYSTEM PRESSURE SWITCH AND THE SCM THAT SHOWS THIS FAULT (WDM 27-09-13). 
SCM ERROR	MAKE SURE THE SCM SHOWS THE CORRECT SHELF POSITION: PUSH THE "MENU" BUTTON, AND THEN PUSH THE "NO" BUTTON UNTIL "OTHER FUNCTNS?" SHOWS. PUSH THE "YES" BUTTON TWO TIMES TO SELECT THE "SYSTEM CONFIG?" DISPLAY, AND THEN PUSH THE DOWN ARROW BUTTON TO SEE THE DISPLAY.  IF THE CORRECT SHELF POSITION DOES NOT SHOW, REPLACE THE SCM THAT SHOWS THIS FAULT (AMM 27-09-00/201). 
NO CSEU POWER	MAKE SURE ALL EIGHT OF THE FLT CONT ELEC (OR CSEU) CIRCUIT BREAKERS ON THE P11 PANEL ARE CLOSED (SEE PREREQUISITES BLOCK).   IF THE PROBLEM CONTINUES, DO THIS PROCEDURE: POWER SUPPLY MODULE BITE PROCEDURE (FIM 27-09-00/101, FIG. 104). 
NO FAULTS	NO ACTION NECESSARY. THE MESSAGE "NO FAULTS" APPEARS TO TELL YOU THAT THE BITE TEST HAS FOUND NO PROBLEMS WITH THE SCM OR OTHER SYSTEMS COMPONENTS.  <u>NOTE:</u> IF A SPOILERS EICAS MESSAGE APPEARS WITH NO EXISTING FAULTS ON REPEATED FLIGHTS, THERE MAY BE A PROBLEM WITH THE PCA THAT IS CAUSED BY COLD TEMPERATURES IN FLIGHT. REFER TO THE MANUFACTURER'S CMM TO PERFORM A COLD SOAK TEST ON THE PCA.
NVM DATA ERROR	RESET THE SCM (AMM 27-09-00/201). IF THE PROBLEM CONTINUES, REPLACE THE SCM (AMM 27-09-00/201).

Spoiler Control Module BITE Procedure  
 Figure 105A (Sheet 5)

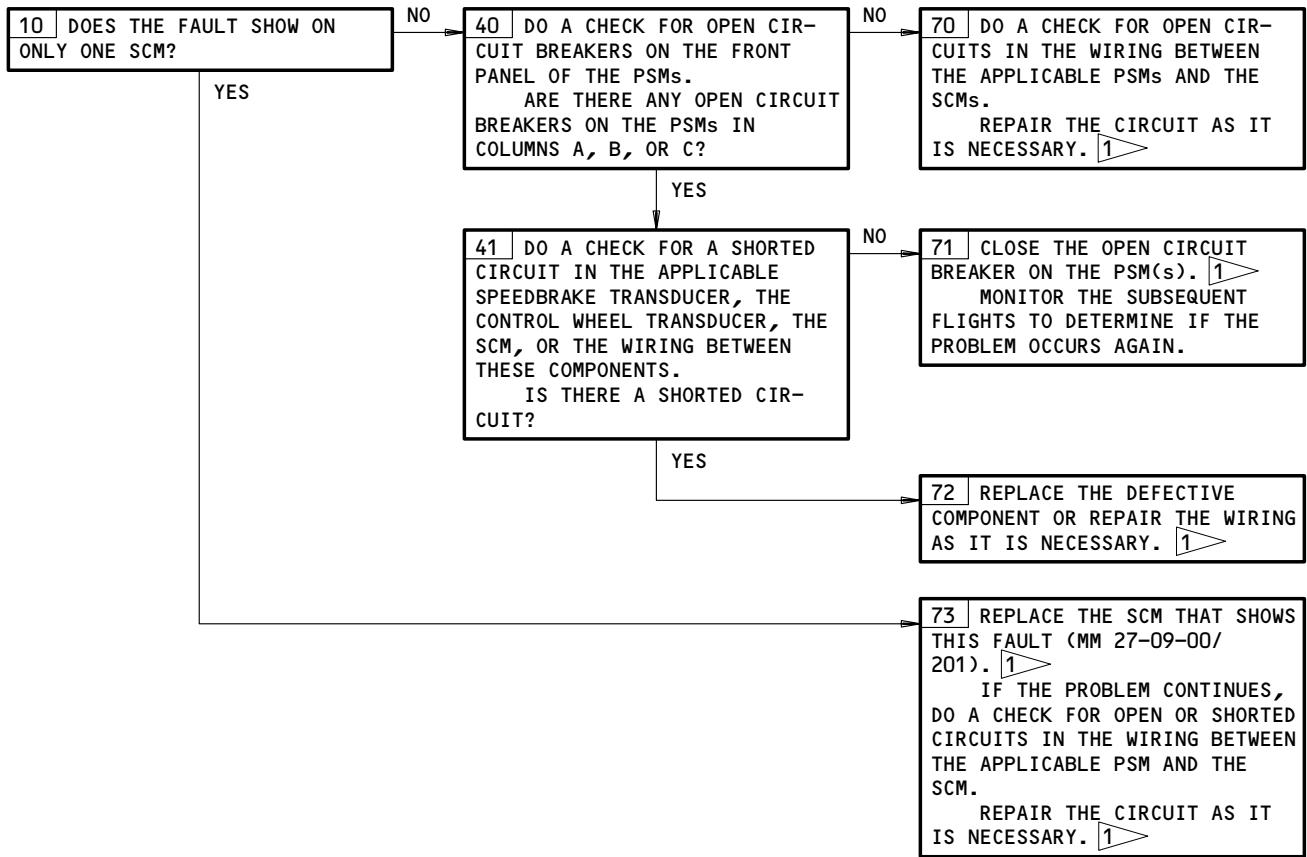
EFFECTIVITY  
-200 SERIES SCM'S

27-09-00

04

Page 143  
Jan 20/09

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Spoiler Control Module BITE Procedure  
Figure 105A (Sheet 6)

EFFECTIVITY  
-200 SERIES SCM'S

27-09-00

**STABILIZER TRIM/  
ELEVATOR ASYMMETRY  
LIMIT MODULE (SAM)  
BITE PROCEDURE**

1 SET THE STBY POWER SWITCH TO THE "AUTO" POSITION (AMM 24-22-00/201).  
SET THE C AND R STAB TRIM SWITCHES ON THE P10 PANEL TO THE "NORM" POSITION.

**WARNING**

MAKE SURE ALL PERSONS AND EQUIPMENT ARE CLEAR OF ALL CONTROL SURFACES BEFORE YOU SUPPLY HYDRAULIC POWER. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR.

PRESSURIZE THE CENTER AND RIGHT HYDRAULIC SYSTEMS (AMM 29-11-00/201).  
MOVE THE FLAPS TO THE FULL UP POSITION (AMM 27-51-00/201)  
ARE ALL FAULTBALLS "BLACK" ON THE LEFT AND THE RIGHT STABILIZER TRIM/ELEVATOR ASYMMETRY LIMIT MODULES, M524 AND M525?

YES → SEE SHEET 2 (BLOCK 101)

NO ↓

1A DID THE CAUTION MESSAGES "MACH/SPD TRIM" AND "ELEV ASYM" SHOW ON THE UPPER EICAS DISPLAY AND DO BOTH SAMS DISPLAY A YELLOW "ADC" FAULTBALL?

YES → 100 GO TO BLOCK 5.

NO ↓

SEE SHEET 2 (BLOCK 2)

1 THESE SYSTEMS ARE USED TO COMPARE THE AIR DATA COMPUTER, AIR/GROUND, AND HYDRAULIC PRESSURE INTERFACES.

**Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 1)**

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:

- AUTOPILOT (FLIGHT CONTROL)(AMM 22-10-00/501)
- YAW DAMPER SYSTEM (AMM 22-21-00/501) 1
- FLAP SYSTEM (AMM 27-51-00/201)
- SLAT SYSTEM (AMM 27-81-00/201)
- ENGINE INDICATING CREW ALERTING SYSTEM (EICAS) (AMM 31-41-00/201)
- AIR/GROUND SYSTEM (AMM 32-09-02/201)
- AIR DATA COMPUTING SYSTEM (AMM 34-12-00/501)
- INERTIAL REFERENCE SYSTEM (AMM 34-21-00/501) 1

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

- 11C5,11C6,11C7,11C8,11C9,11C12,11C13,11C17,11C18,11F19,11G15,11G17,11G18,11G27,11G28,11H10,11H11,11H19,11H20,11J12

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

- ELECTRICAL POWER IS ON (AMM 24-22-00/201)
- HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**NOTE:** FOR FAULTBALLS THAT HAVE DUAL NOMENCLATURE, ONLY THE NOMENCLATURE THAT IS APPLICABLE TO 757 SYSTEMS IS USED.

**NOTE:** IF YOU ARE OPERATING ON GROUND ELECTRICAL POWER AND THE AIRPLANE HAS A -32,-32A,-37 OR -37A FSEU INSTALLED, YOU CAN HAVE A NUISANCE EICAS MESSAGE "MACH/SPD TRIM" APPEAR. IF THE MESSAGE APPEARS ON THE GROUND, REFER TO SERVICE LETTER 757-SL-27-63.

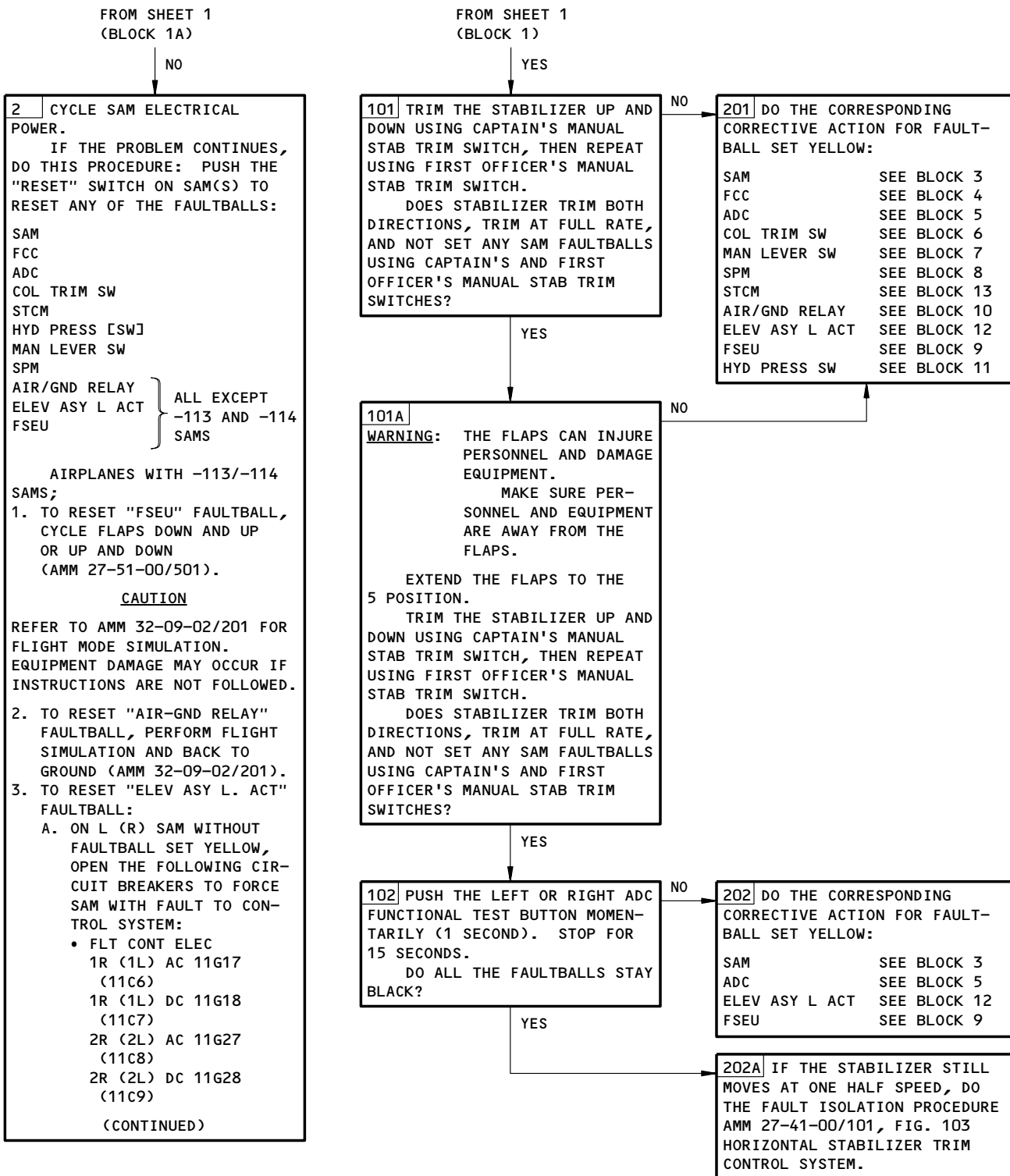
EFFECTIVITY

ALL

**27-09-00**

05

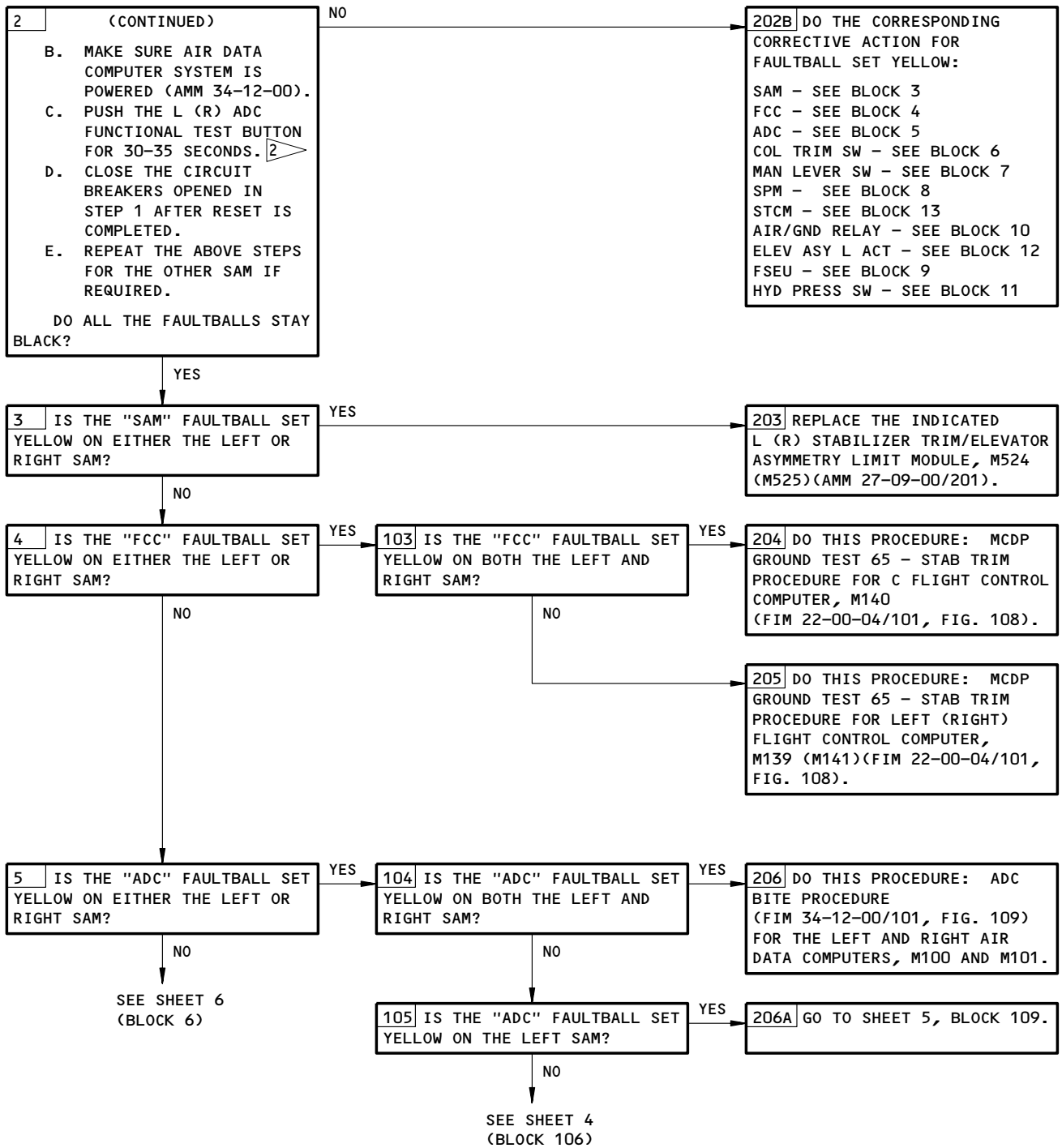
Page 145  
Jan 20/09



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 2)

EFFECTIVITY	ALL
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27-09-00



2 HOLD THIS SWITCH UNTIL THE ALTIMETER SHOWS 10,000 FEET AND THE AIRSPEED INDICATOR SHOWS 137 KNOTS, THEN RELEASE THE SWITCH

Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 3)

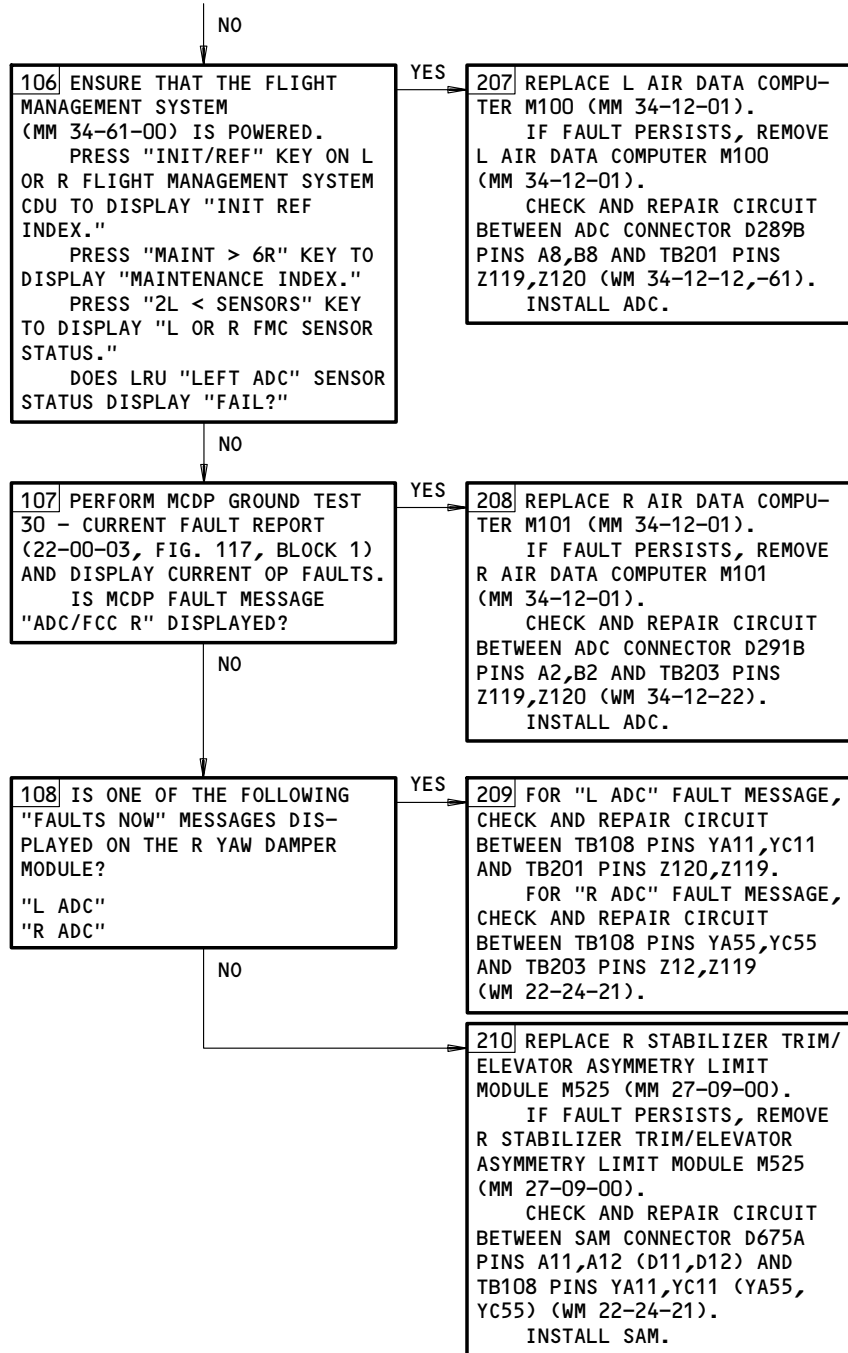
EFFECTIVITY	ALL
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27-09-00

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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

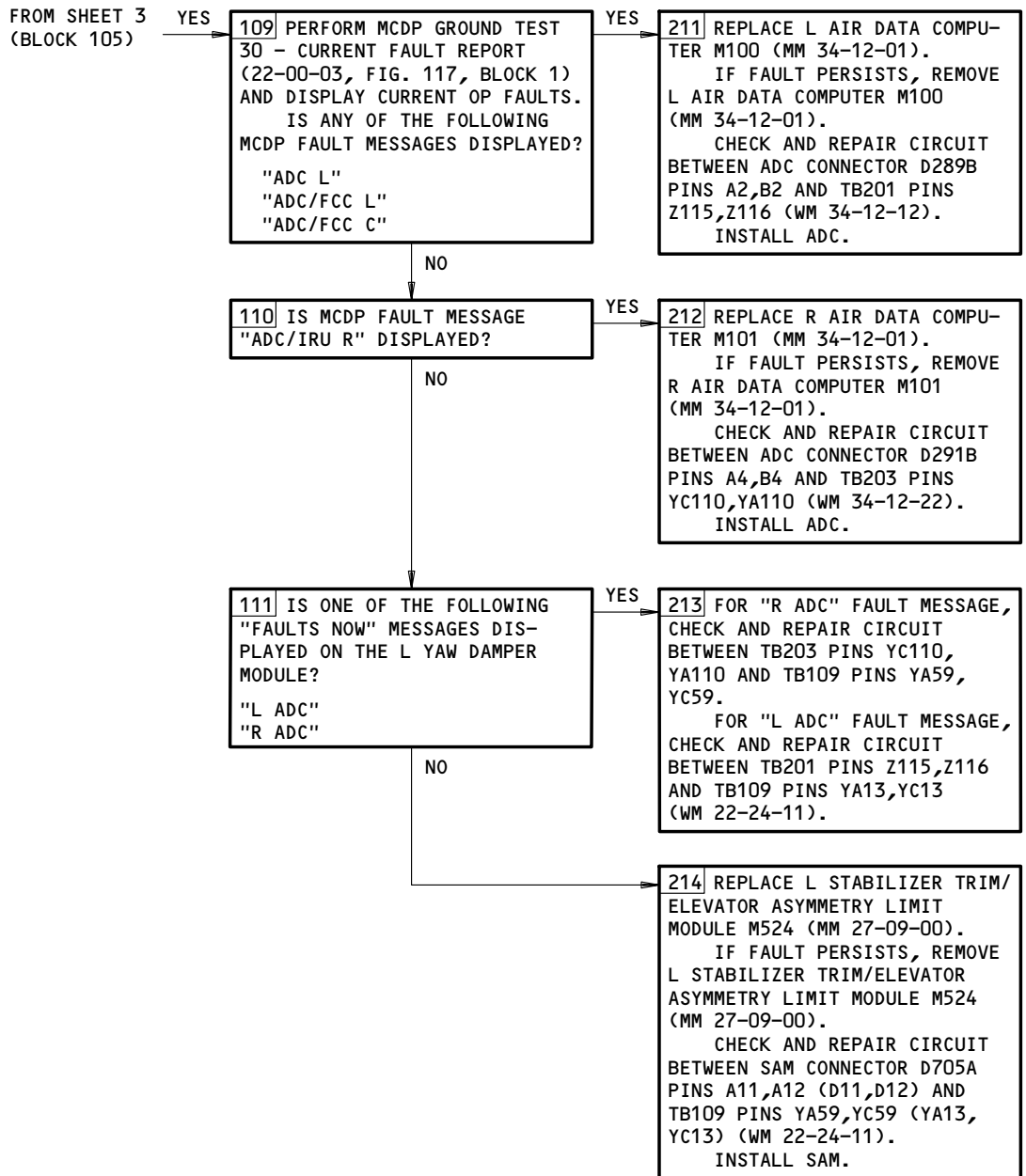
FROM SHEET 3  
(BLOCK 105)



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 4)

EFFECTIVITY	ALL
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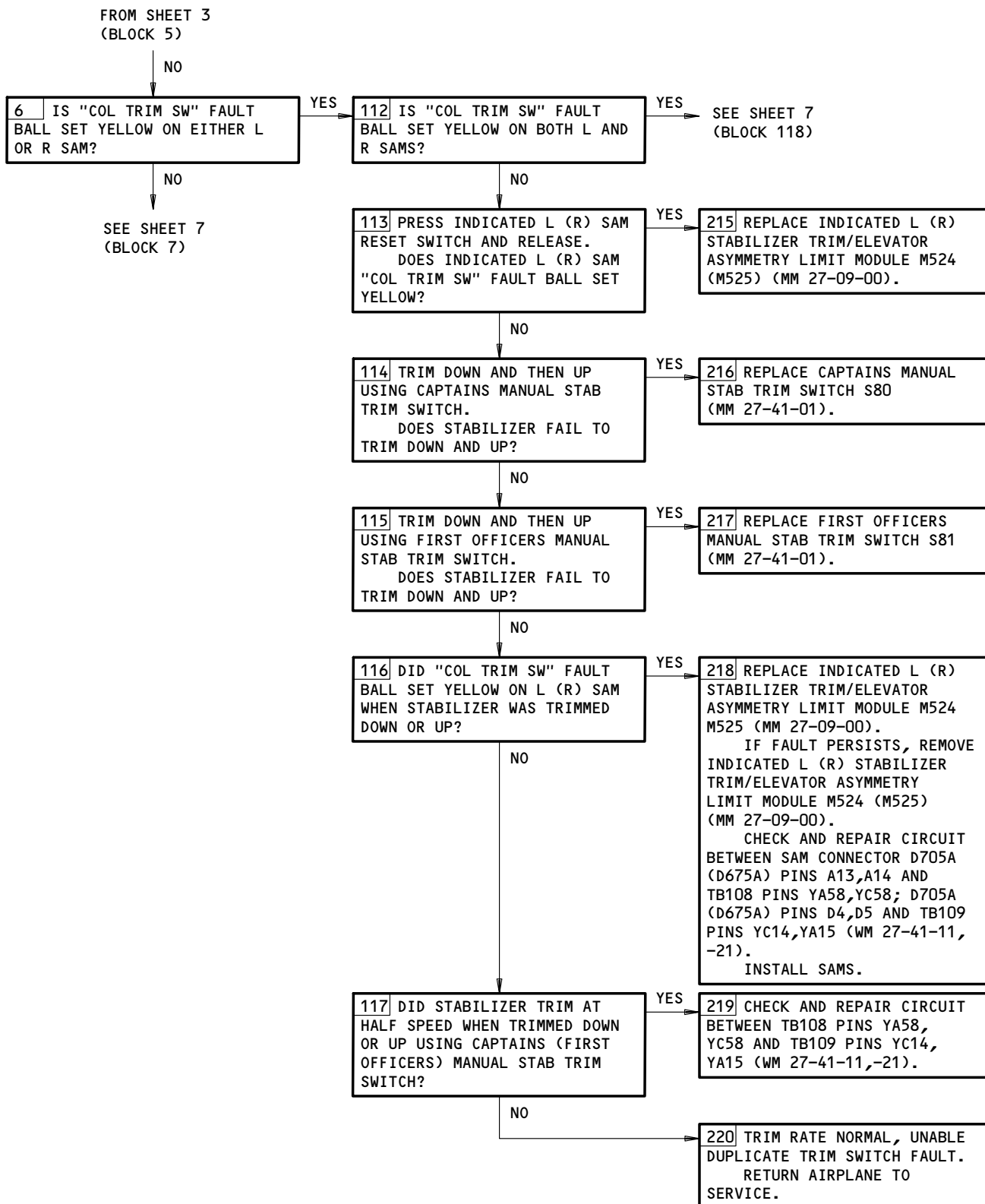
**27-09-00**



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 5)

EFFECTIVITY	ALL
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27-09-00



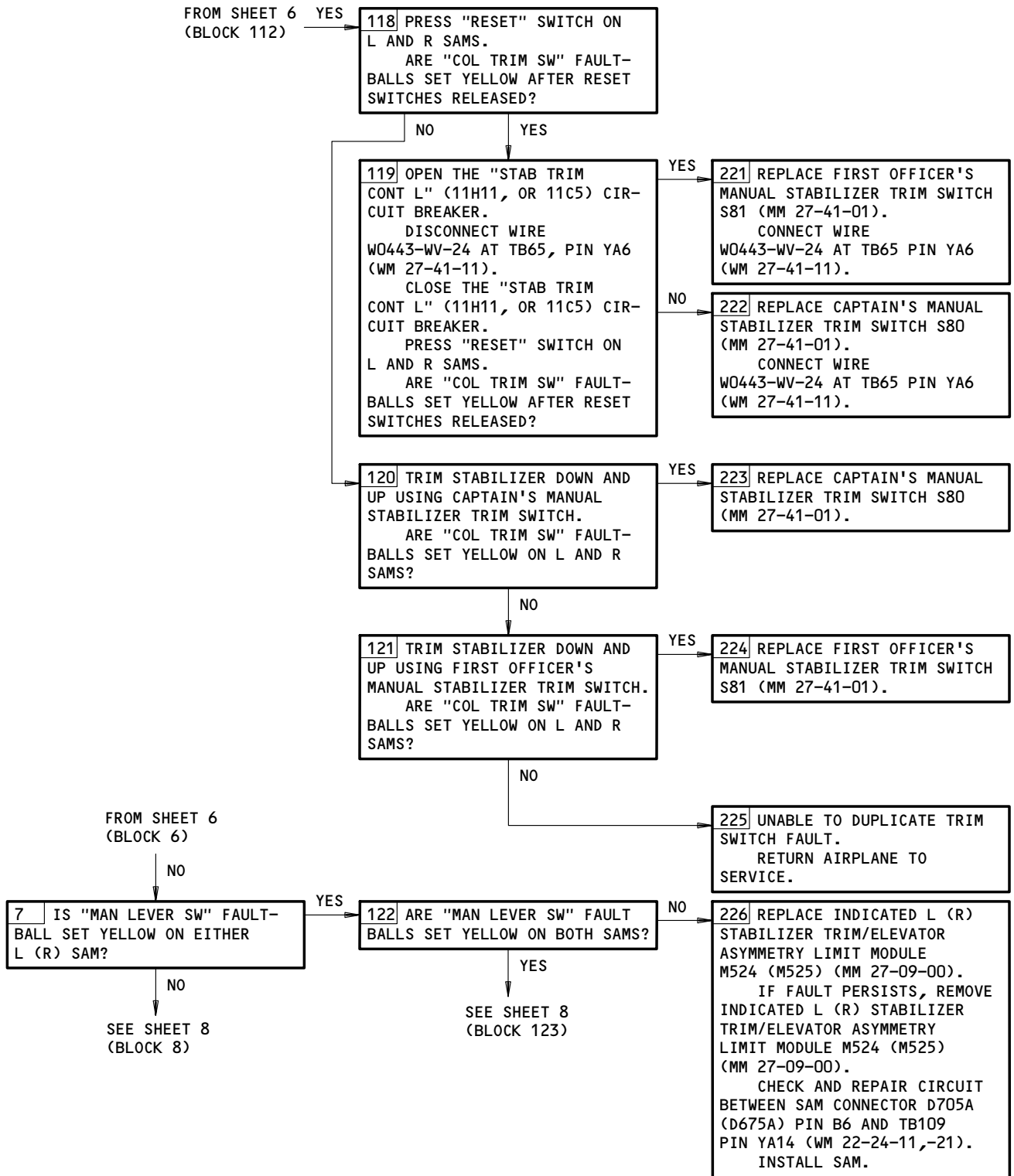
Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 6)

EFFECTIVITY \_\_\_\_\_  
ALL

27-09-00



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 7)

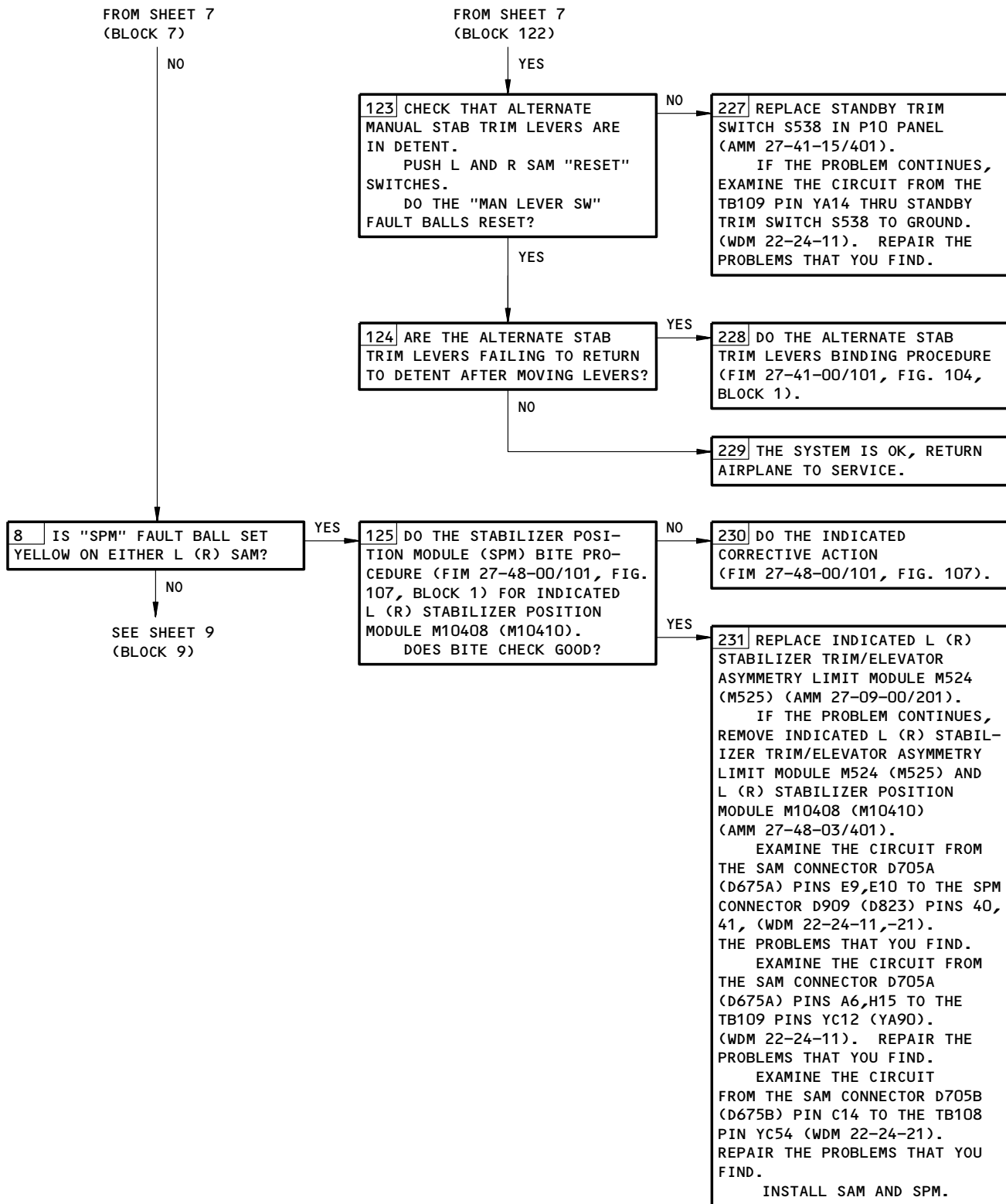
EFFECTIVITY

ALL

27-09-00

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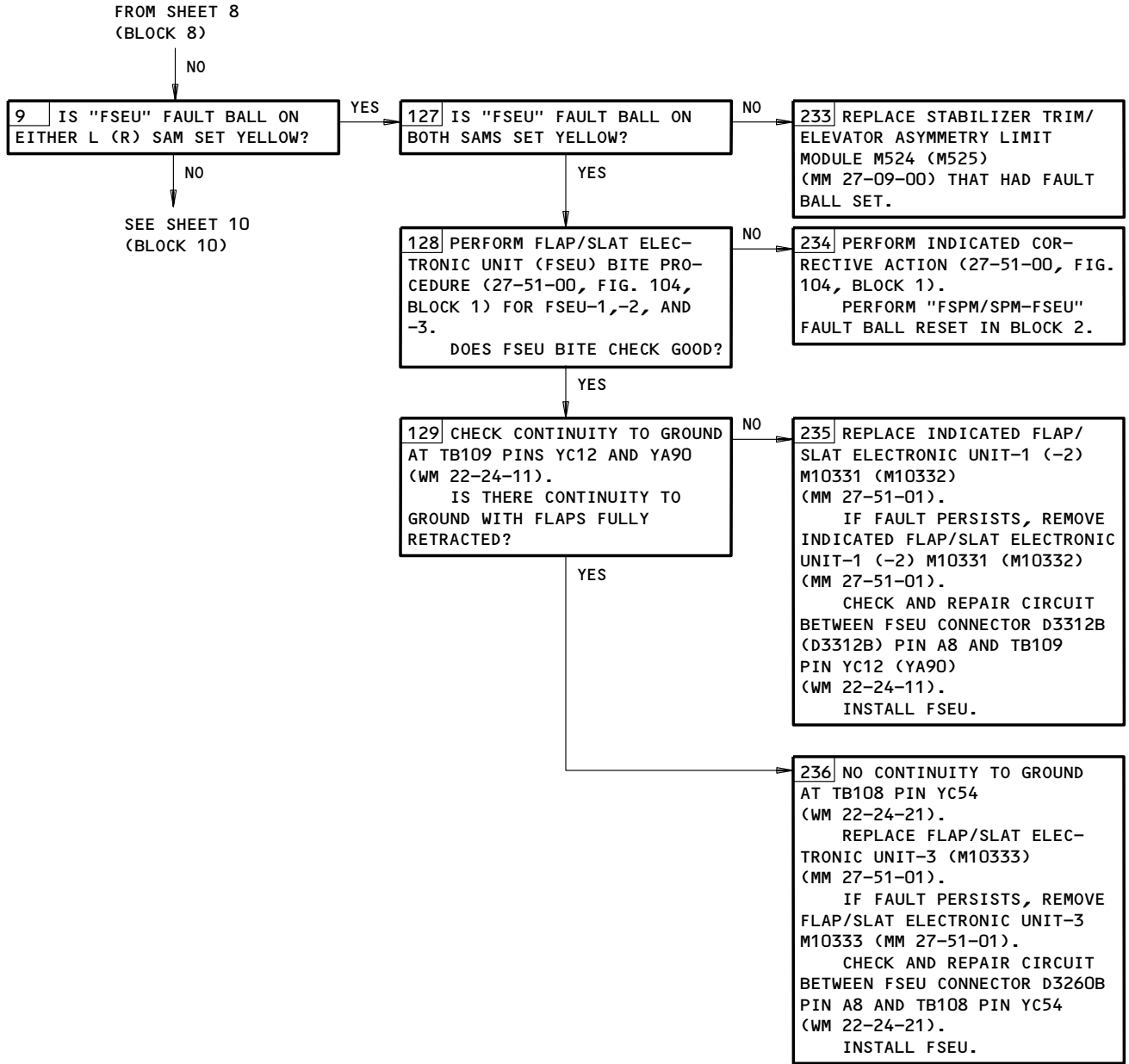
Page 151  
Jan 20/09



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 8)

EFFECTIVITY	ALL
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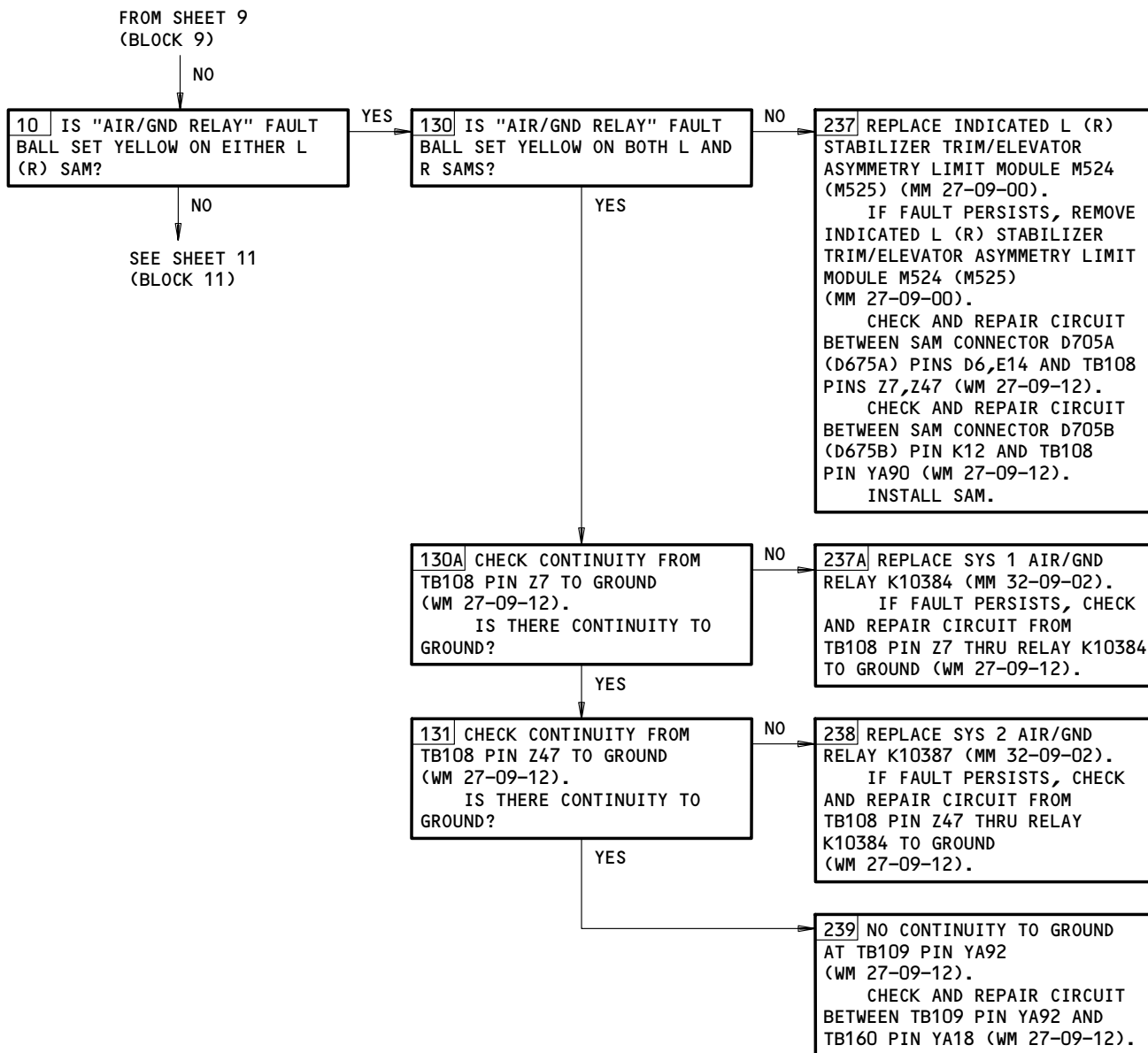
27-09-00



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 9)

EFFECTIVITY	_____
ALL	

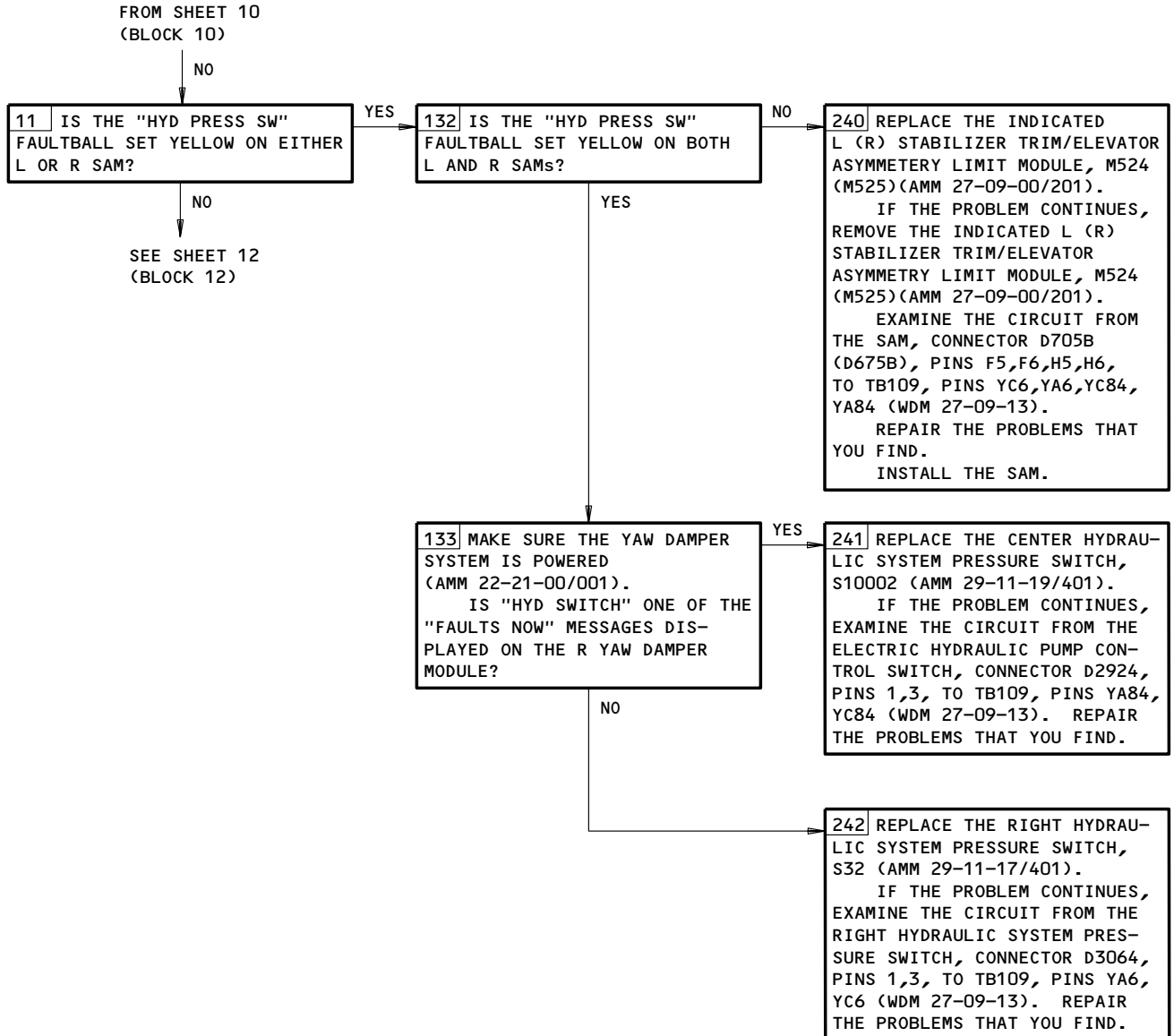
27-09-00



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 10)

EFFECTIVITY	ALL
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27-09-00



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 11)

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

27-09-00

FROM SHEET 11  
(BLOCK 11)

NO

12 DO THE FOLLOWING STEPS:

1. OPEN THE FOLLOWING CIRCUIT BREAKERS TO FORCE CONTROL TO THE LEFT SAM:  
1R AC 11G17  
2R AC 11G27
2. MAKE SURE THE AIR DATA COMPUTER SYSTEM IS POWERED (AMM 34-12-00).
3. PUSH THE L ADC FUNCTIONAL TEST BUTTON FOR 30-35 SECONDS. (WAIT UNTIL THE ALTIMETER READS 10,000 FT. AND THE AIRSPEED INDICATOR READS 137 KNOTS, THEN RELEASE IT.)
4. MONITOR WHETHER THE "ELEV ASY L ACT" FAULTBALL IS YELLOW ON THE LEFT SAM OR NOT.
5. CLOSE THE FOLLOWING CIRCUIT BREAKERS:  
1R AC 11G17  
2R AC 11G27
6. OPEN THE FOLLOWING CIRCUIT BREAKERS TO FORCE CONTROL TO THE RIGHT SAM:  
1L AC 11C6  
2L AC 11C8
7. PUSH THE R ADC FUNCTIONAL TEST BUTTON FOR 30-35 SECONDS. (WAIT UNTIL THE ALTIMETER READS 10,000 FT. AND THE AIRSPEED INDICATOR READS 137 KNOTS, THEN RELEASE IT.)
8. MONITOR WHETHER THE "ELEV ASY L ACT" FAULTBALL IS YELLOW ON THE RIGHT SAM OR NOT.
9. CLOSE THE FOLLOWING CIRCUIT BREAKERS:  
1L AC 11C6  
2L AC 11C8

DID BOTH SAMs SHOW A YELLOW FAULTBALL AFTER THEIR RESPECTIVE TESTS?

YES

243 REPLACE ELEVATOR ASYMMETRY LIMIT ACTUATOR.  
IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT FROM THE ELEVATOR ASYMMETRY LIMIT ACTUATOR, CONNECTOR D689, PINS 1, 5, 6, TO GROUND; PINS 2, 3, 4, TO TB109, PINS R10191, R10190, YA111, YC111.  
REPAIR THE PROBLEMS THAT YOU FIND.

NO

SEE SHEET 13  
(BLOCK 13)

Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 12)

EFFECTIVITY

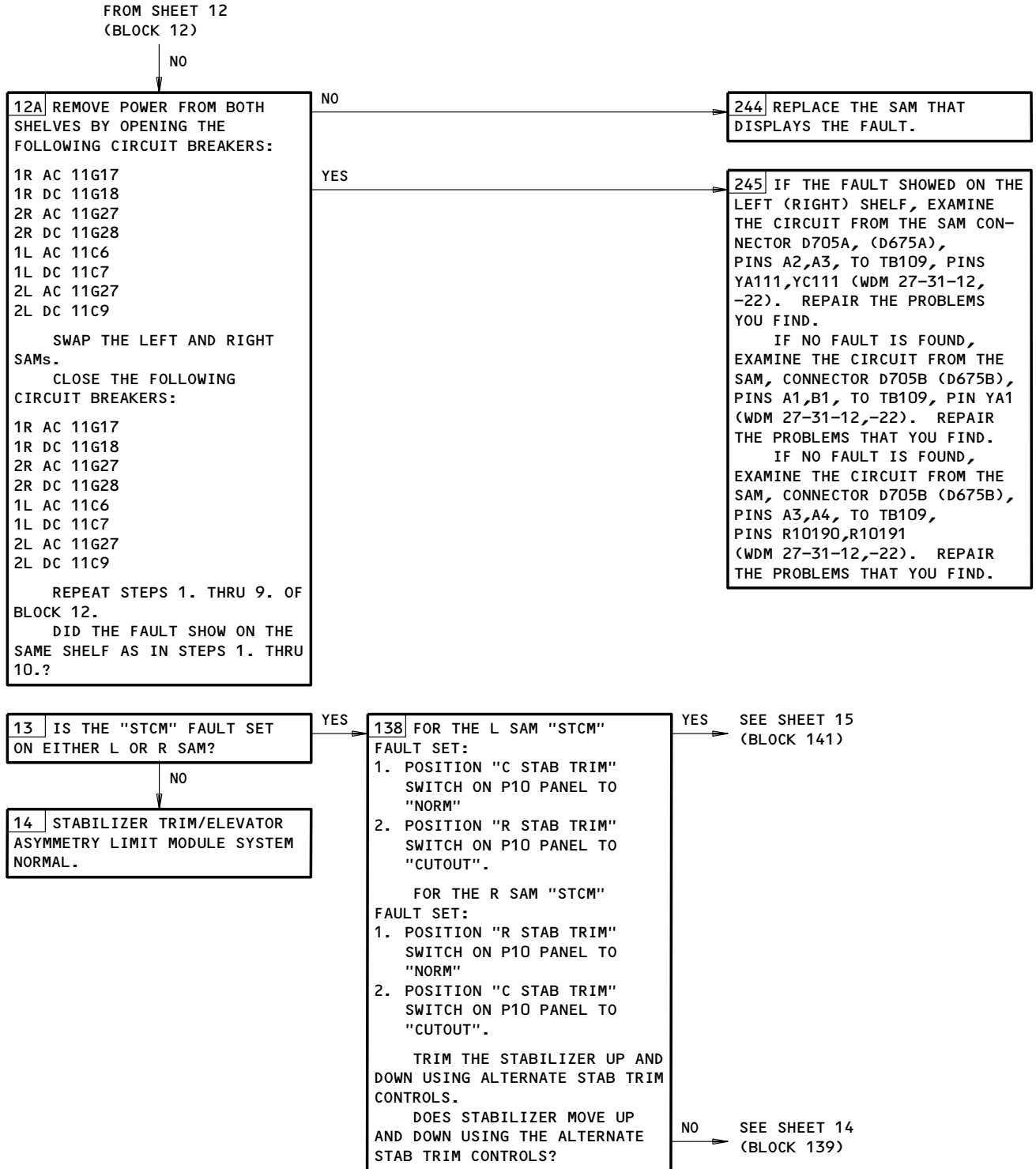
ALL

27-09-00

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Page 156  
Jan 20/09

197593



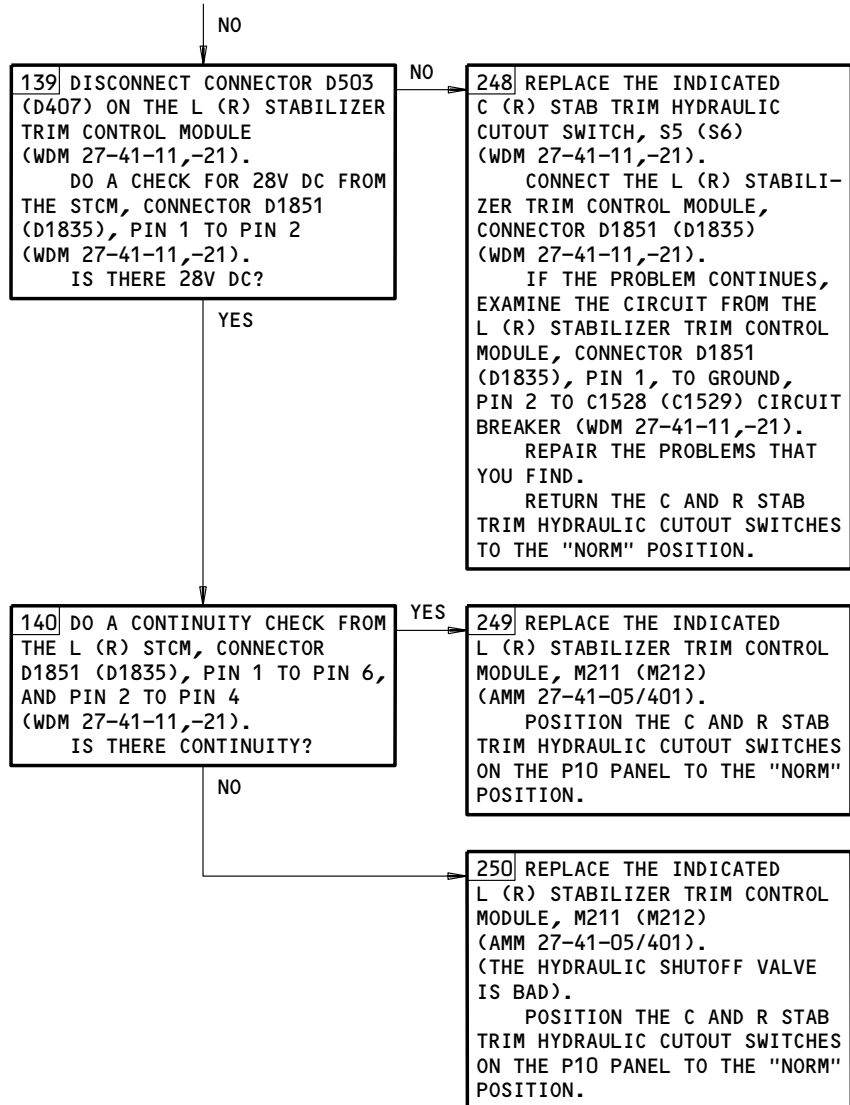
Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 13)

EFFECTIVITY	ALL
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**27-09-00**


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 13  
(BLOCK 138)



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 14)

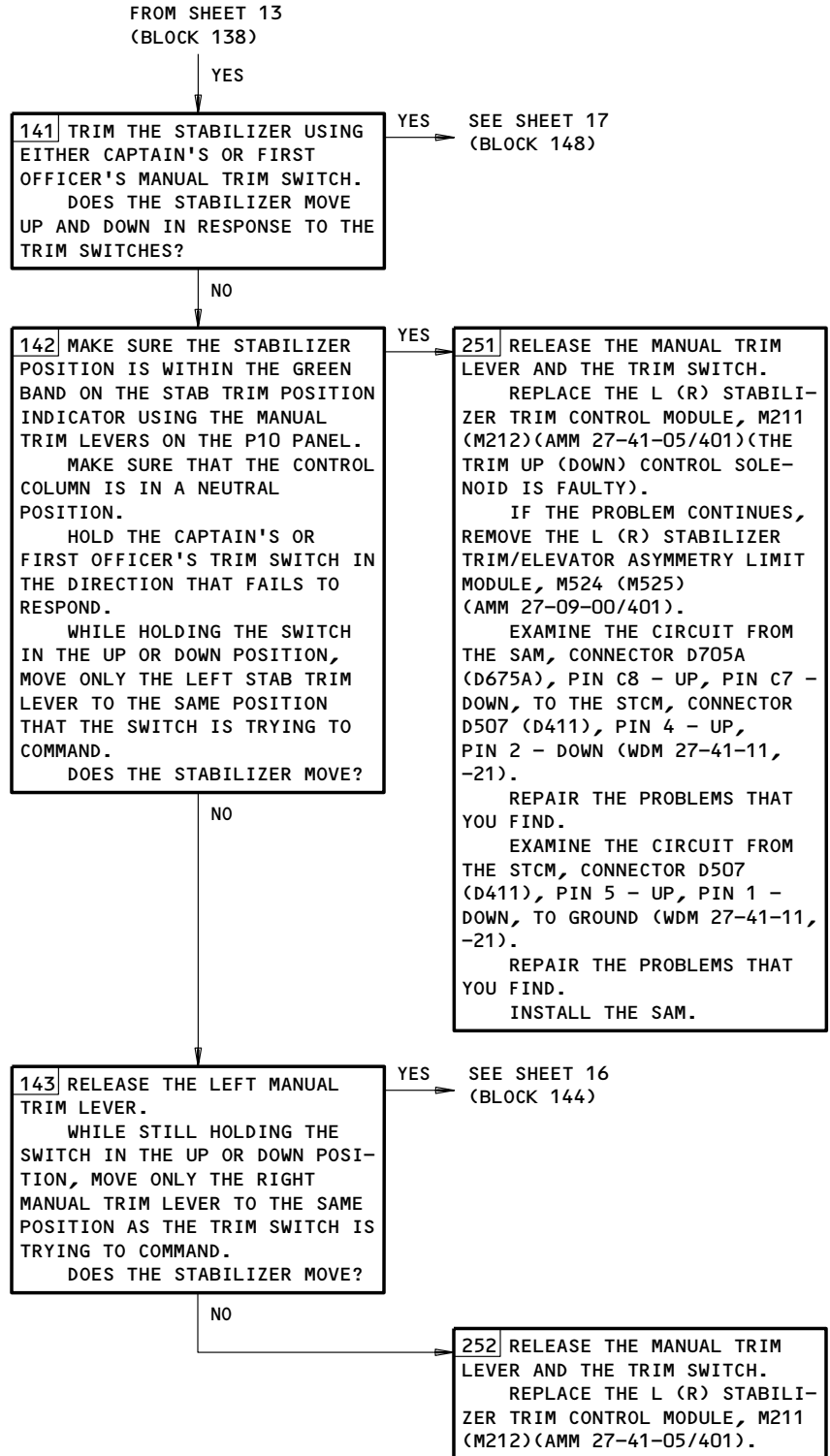
EFFECTIVITY

ALL
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27-09-00



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



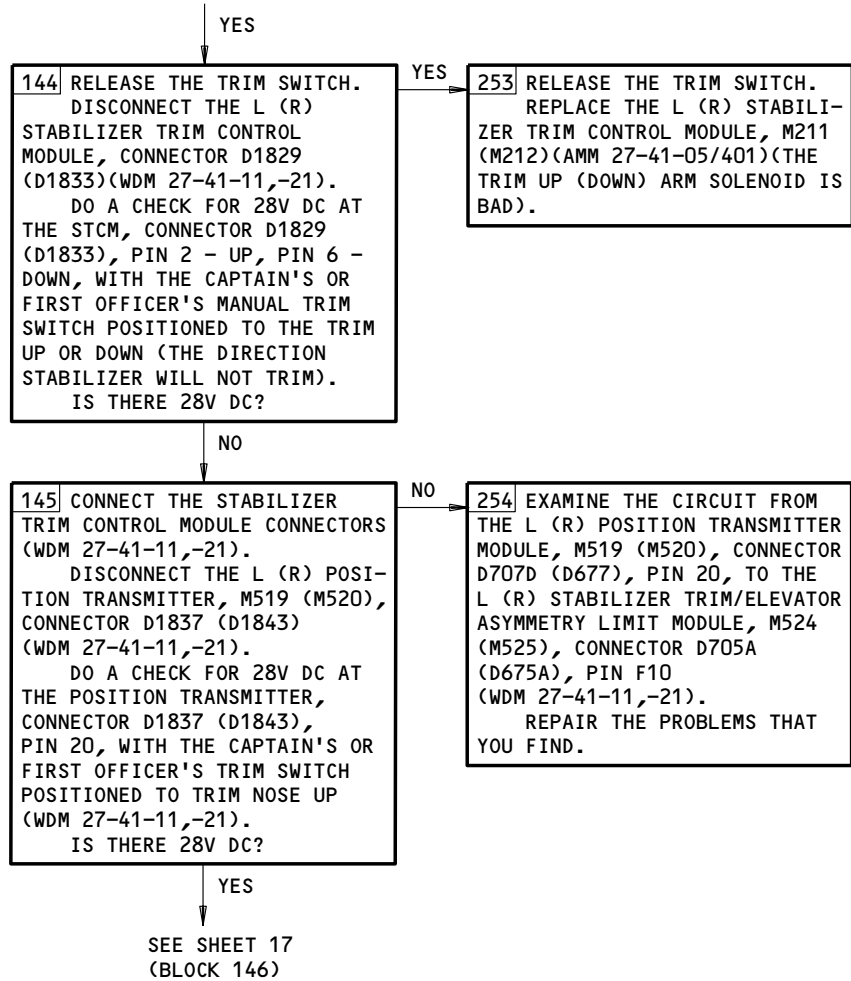
Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 15)

EFFECTIVITY	_____
ALL	

**27-09-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 15  
(BLOCK 143)

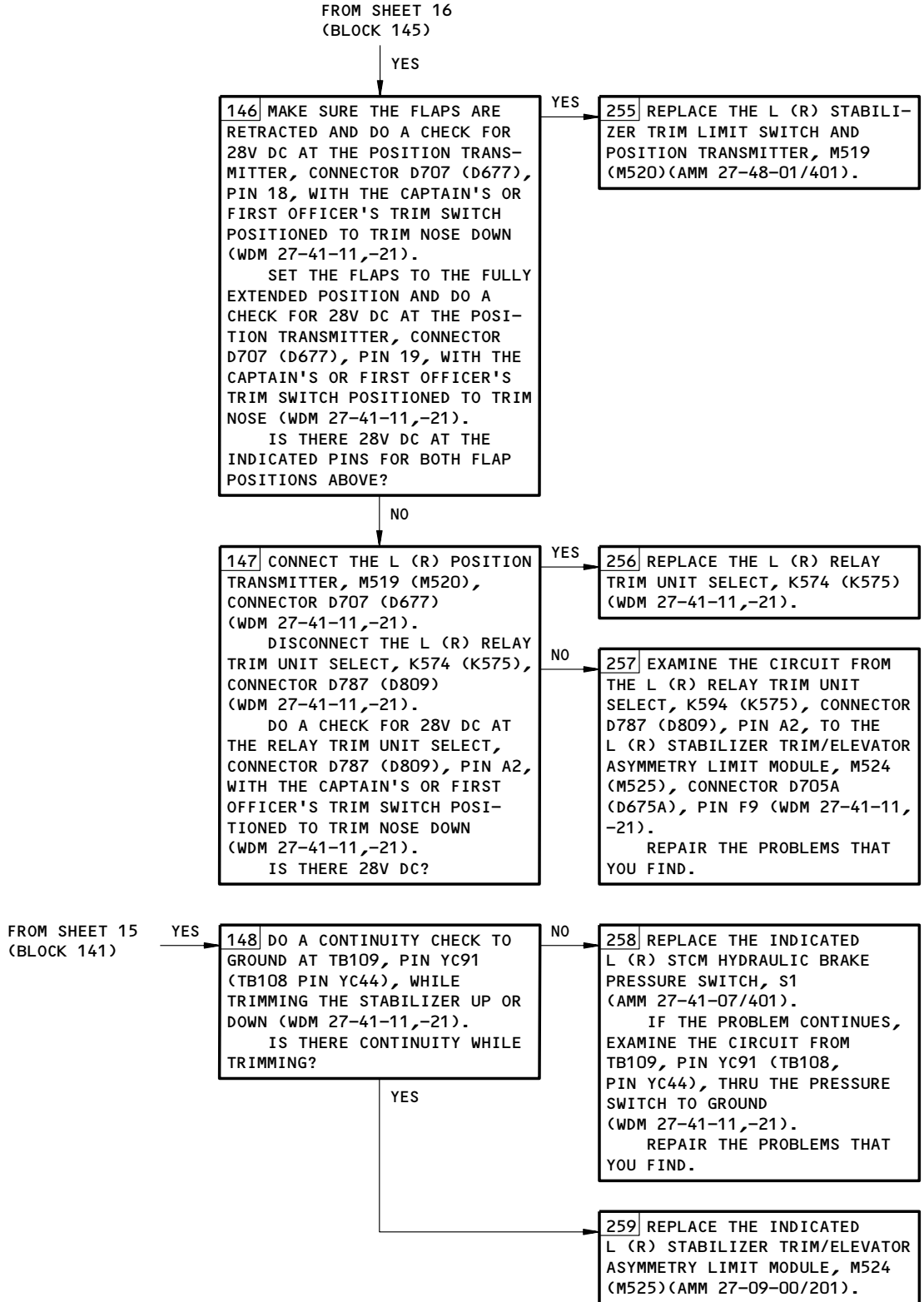


Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 16)

EFFECTIVITY	ALL
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27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Stabilizer Trim/Elevator Asymmetry Limit Module (SAM) BITE Procedure  
Figure 106 (Sheet 17)

EFFECTIVITY	ALL
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27-09-00

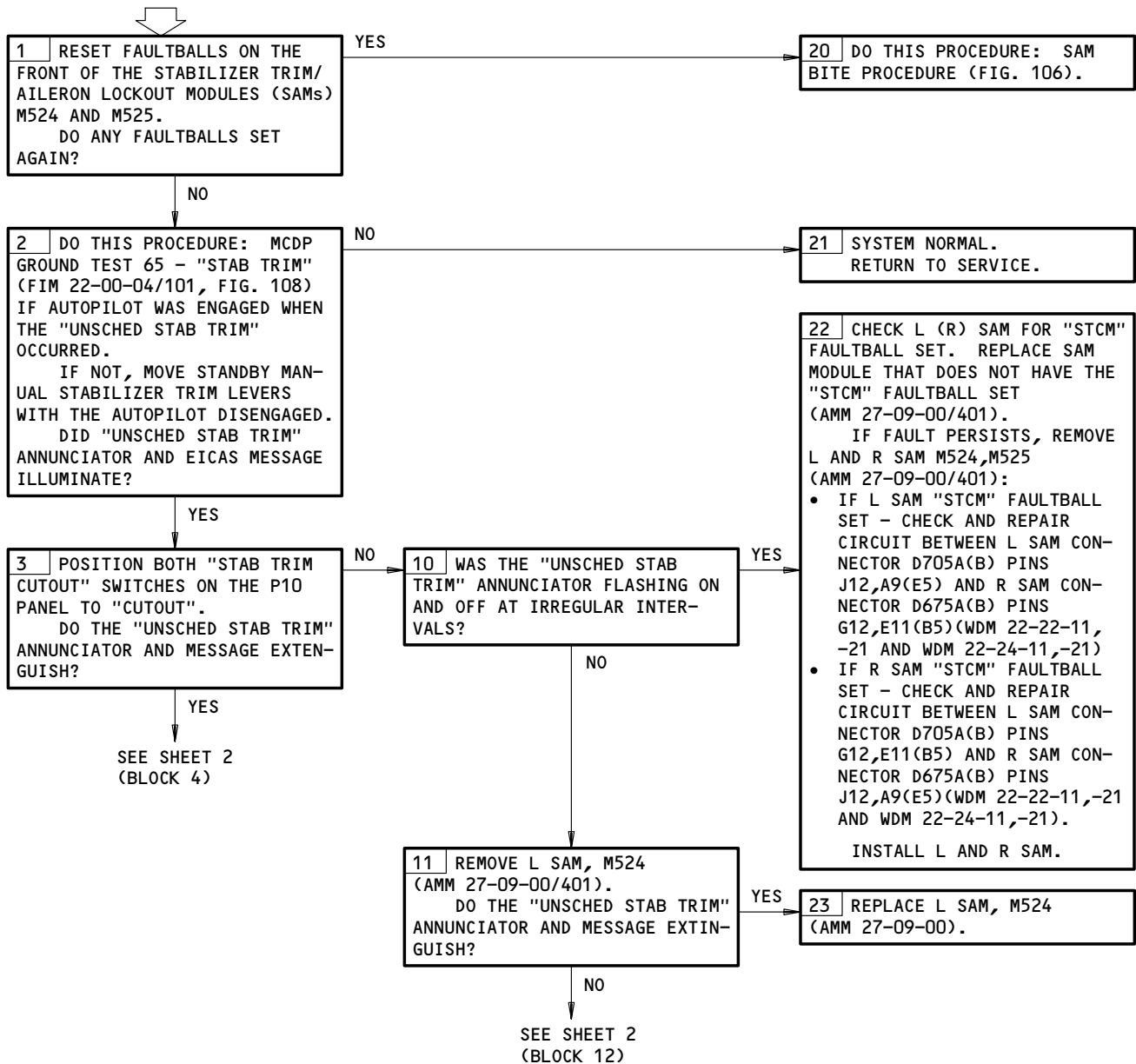
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C5,11C6,11C7,11C8,11C9,11C12,11C13,11G17,11G18,  
11G27,11G28,11H11,11H20

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

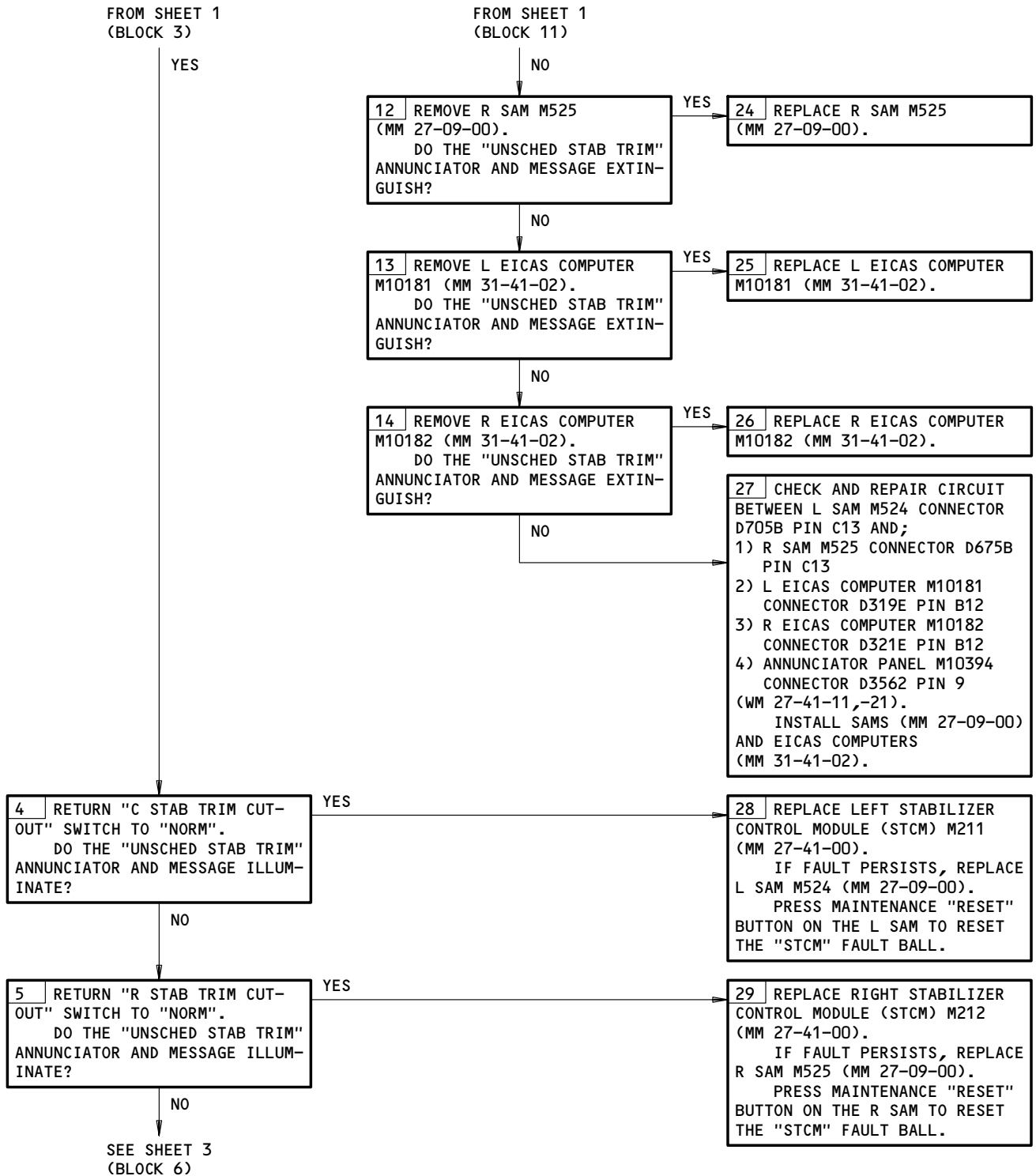
**"UNSCHEM STAB TRIM"  
PROBLEMS**



UNSCHEM STAB TRIM Problems  
Figure 106A (Sheet 1)

EFFECTIVITY	ALL
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**27-09-00**

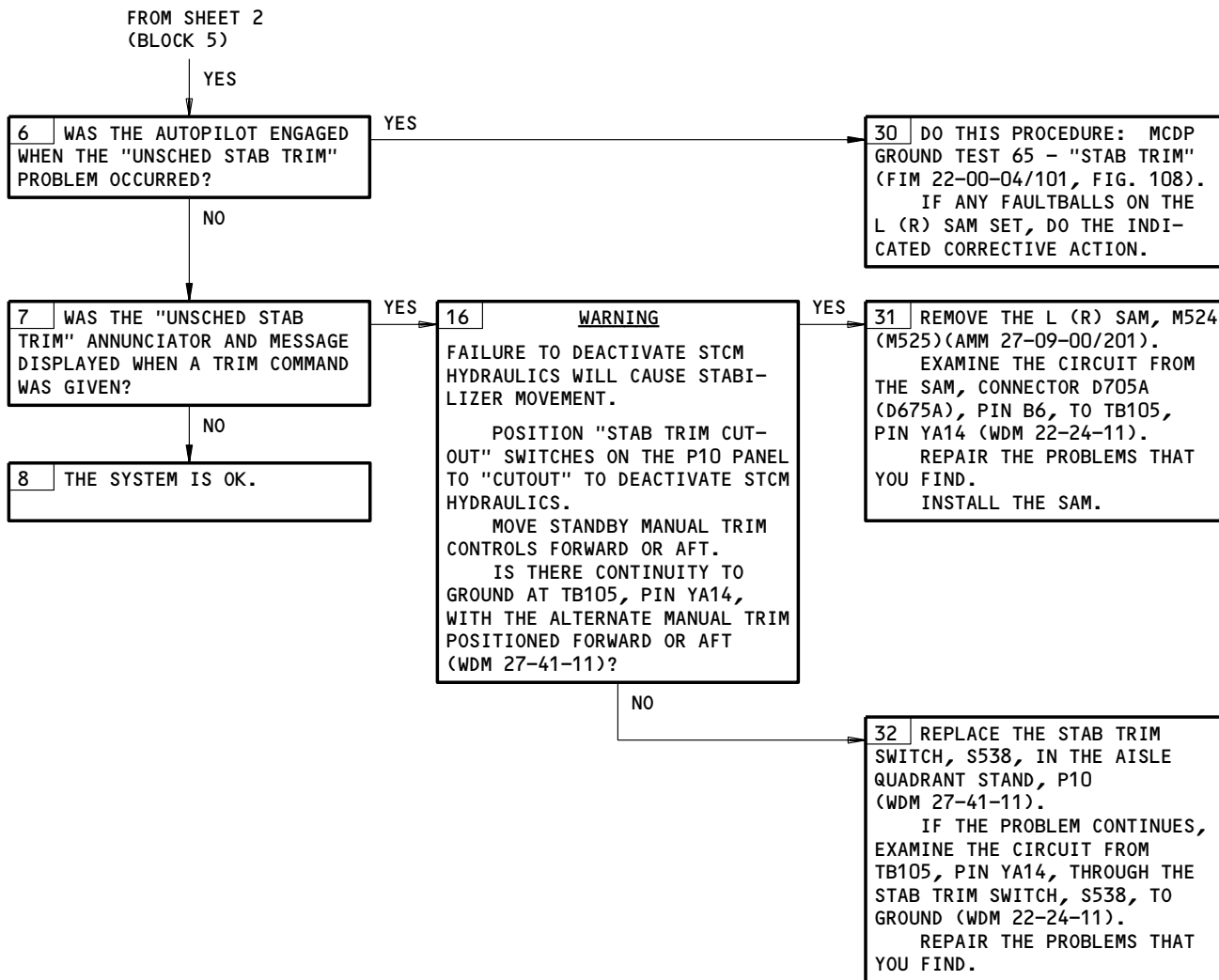


UNSCHED STAB TRIM Problems  
Figure 106A (Sheet 2)

EFFECTIVITY

ALL
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27-09-00



UNSCHED STAB TRIM Problems  
Figure 106A (Sheet 3)

EFFECTIVITY

ALL
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27-09-00



757

FAULT ISOLATION/MAINT MANUAL

PREREQUISITES

MAKE SURE THESE SYSTEMS WILL OPERATE:

- YAW DAMPER SYSTEM (MM 22-21-00/501)
- FLAP SYSTEM (MM 27-51-00/201)
- SLAT SYSTEM (MM 27-81-00/201)
- EICAS (MM 31-41-00/201)
- AIR/GROUND SYSTEM (MM 32-09-02/201)
- MASTER DIM AND TEST SYSTEM (MM 33-16-00/501)
- AIR DATA COMPUTING SYSTEM (MM 34-12-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

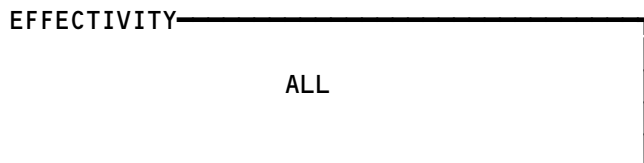
- 11A18,11C5,11C6,11C7,11C8,11C9,11C12,11C13,11C17,
- 11C18,11D18,11F19,11F34,11G10,11G15,11G17,11G18,
- 11G24,11G27,11G28,11H10,11H11,11H14,11H19,11H20,
- 11J12

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

- ELECTRICAL POWER IS ON (MM 24-22-00/201)
- HYDRAULIC POWER IS ON (MM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

Rudder Ratio Changer Module BITE Procedure  
Figure 106B (Sheet 1)



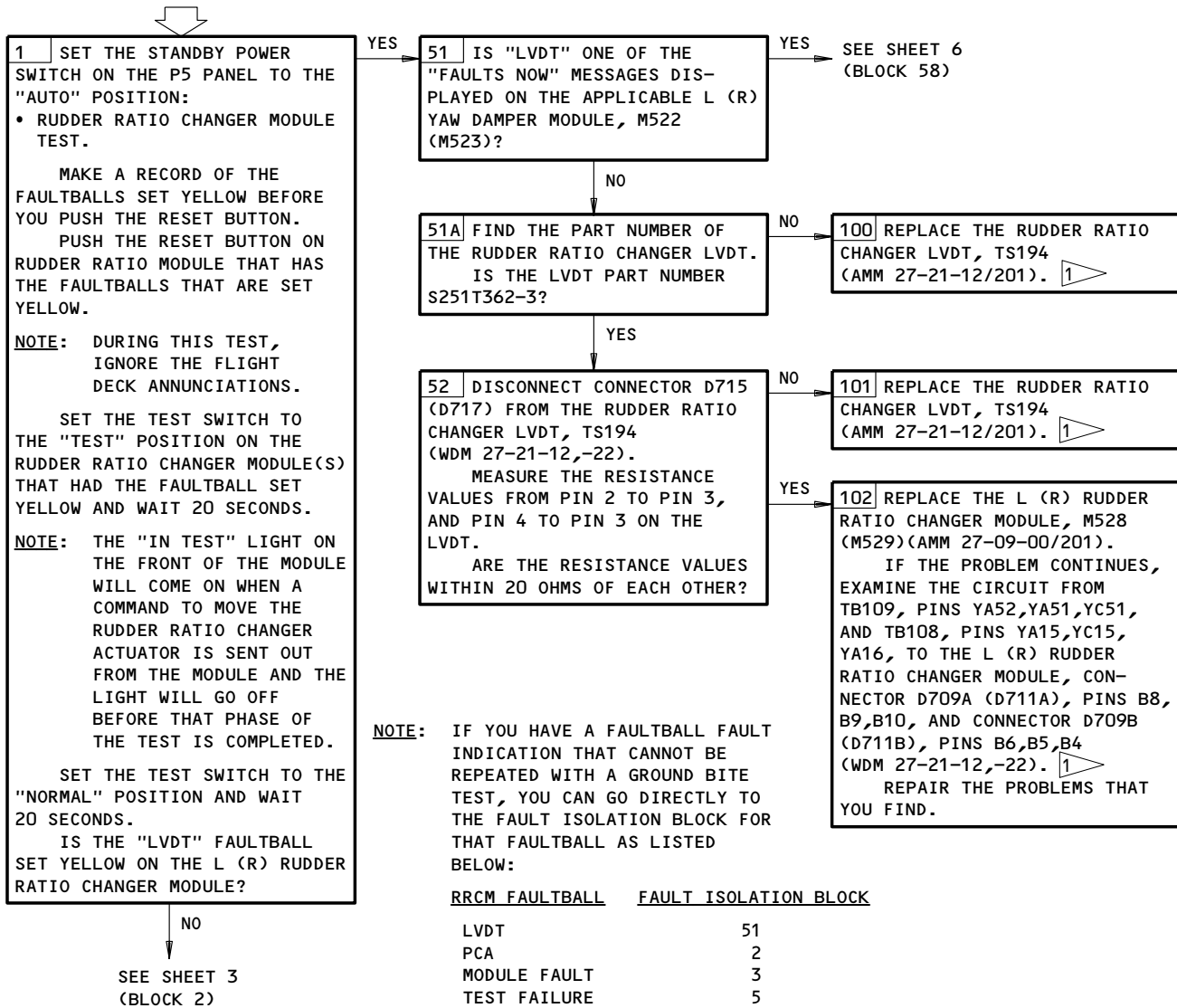
27-09-00

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Page 165  
Jan 20/09

B61383

**RUDDER RATIO  
CHANGER MODULE BITE  
PROCEDURE**



1 DO THE RUDDER RATIO CHANGER MODULE TEST IN BLOCK 1.

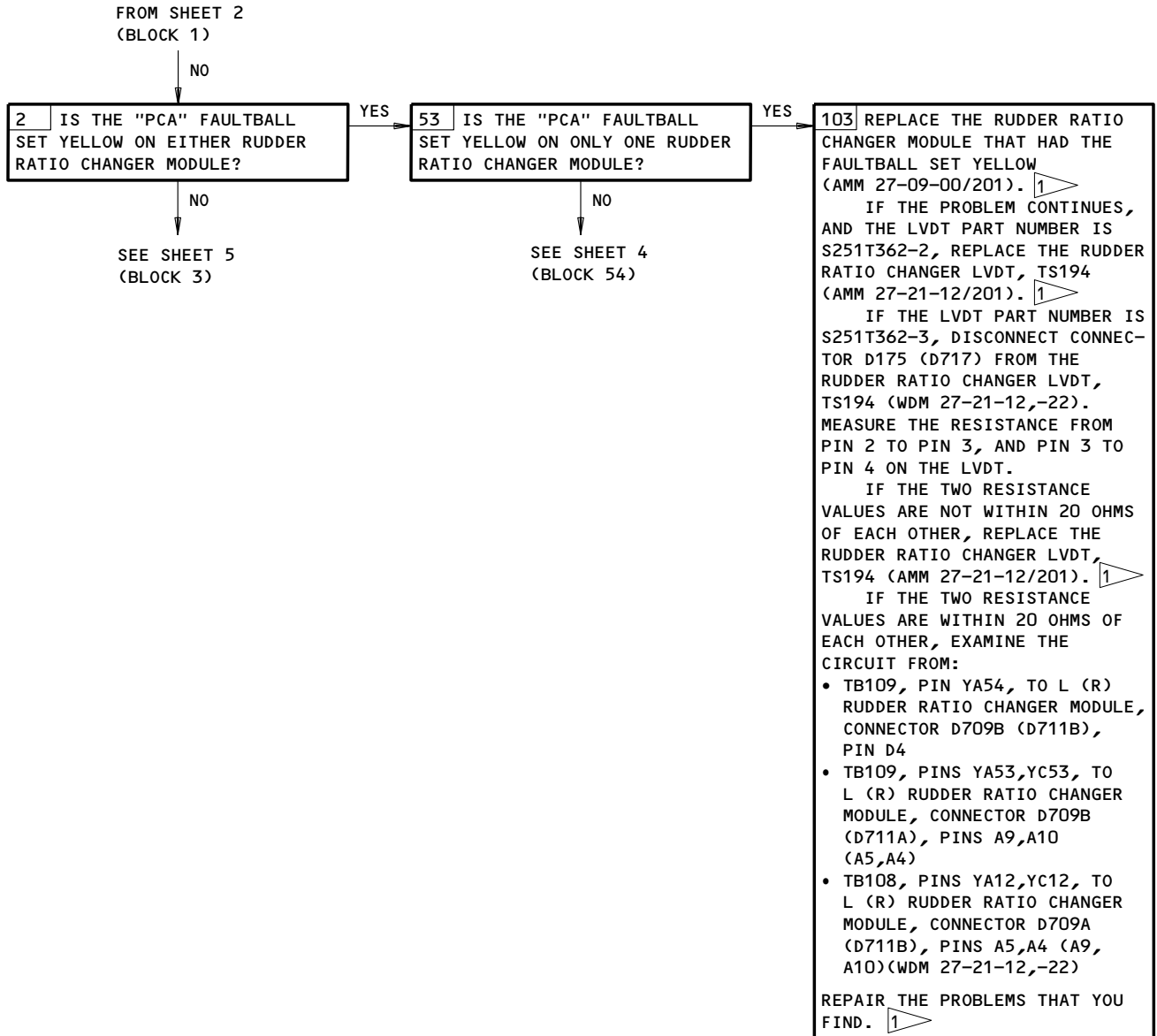
Rudder Ratio Changer Module BITE Procedure  
Figure 106B (Sheet 2)

EFFECTIVITY

ALL

27-09-00





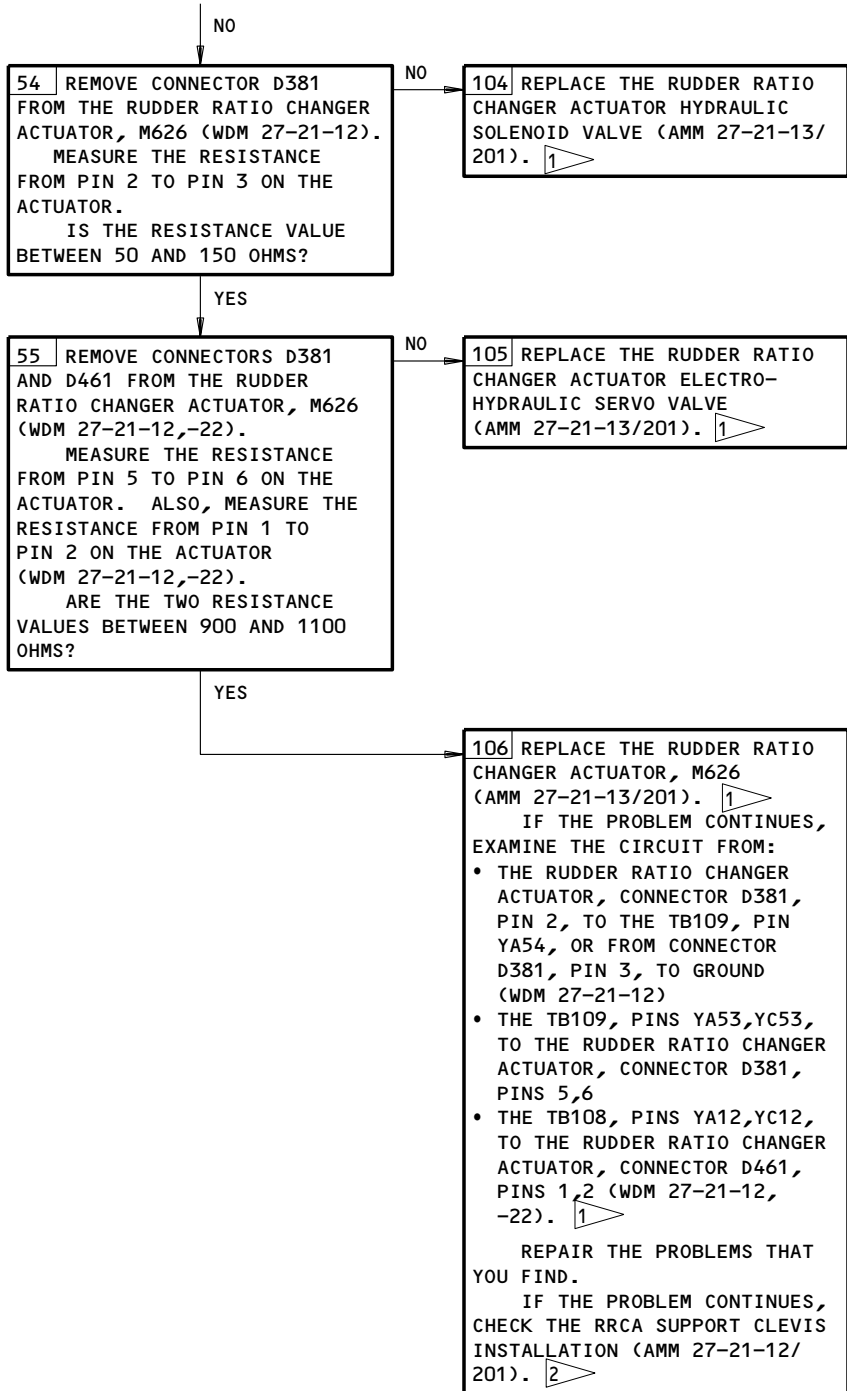
Rudder Ratio Changer Module BITE Procedure  
Figure 106B (Sheet 3)

EFFECTIVITY	ALL
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27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 53)

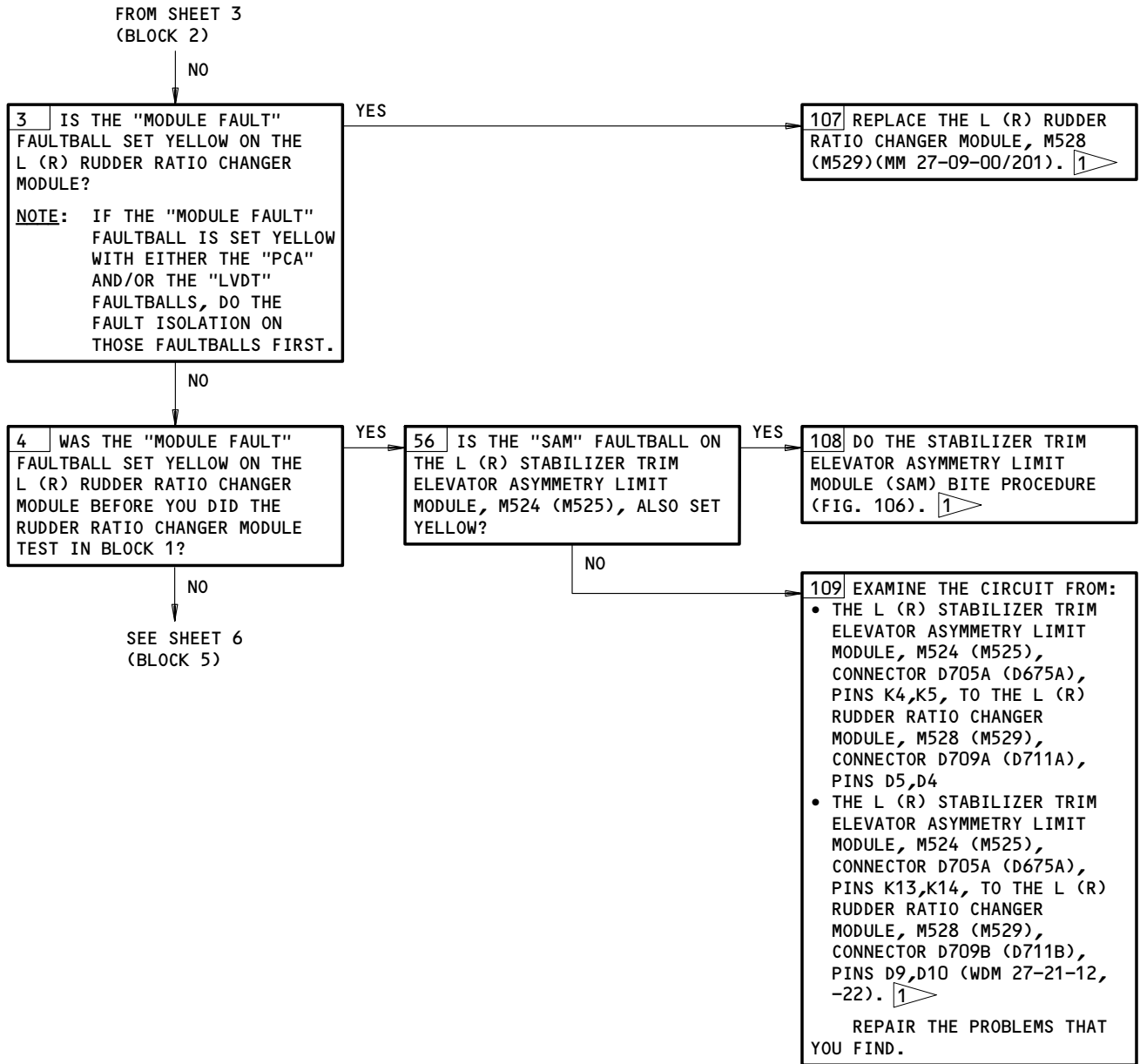


2 PCA FAULTBALL CAN BE SET BY IMPROPER SHIM INSTALLATION

Rudder Ratio Changer Module BITE Procedure  
Figure 106B (Sheet 4)

EFFECTIVITY	ALL
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27-09-00

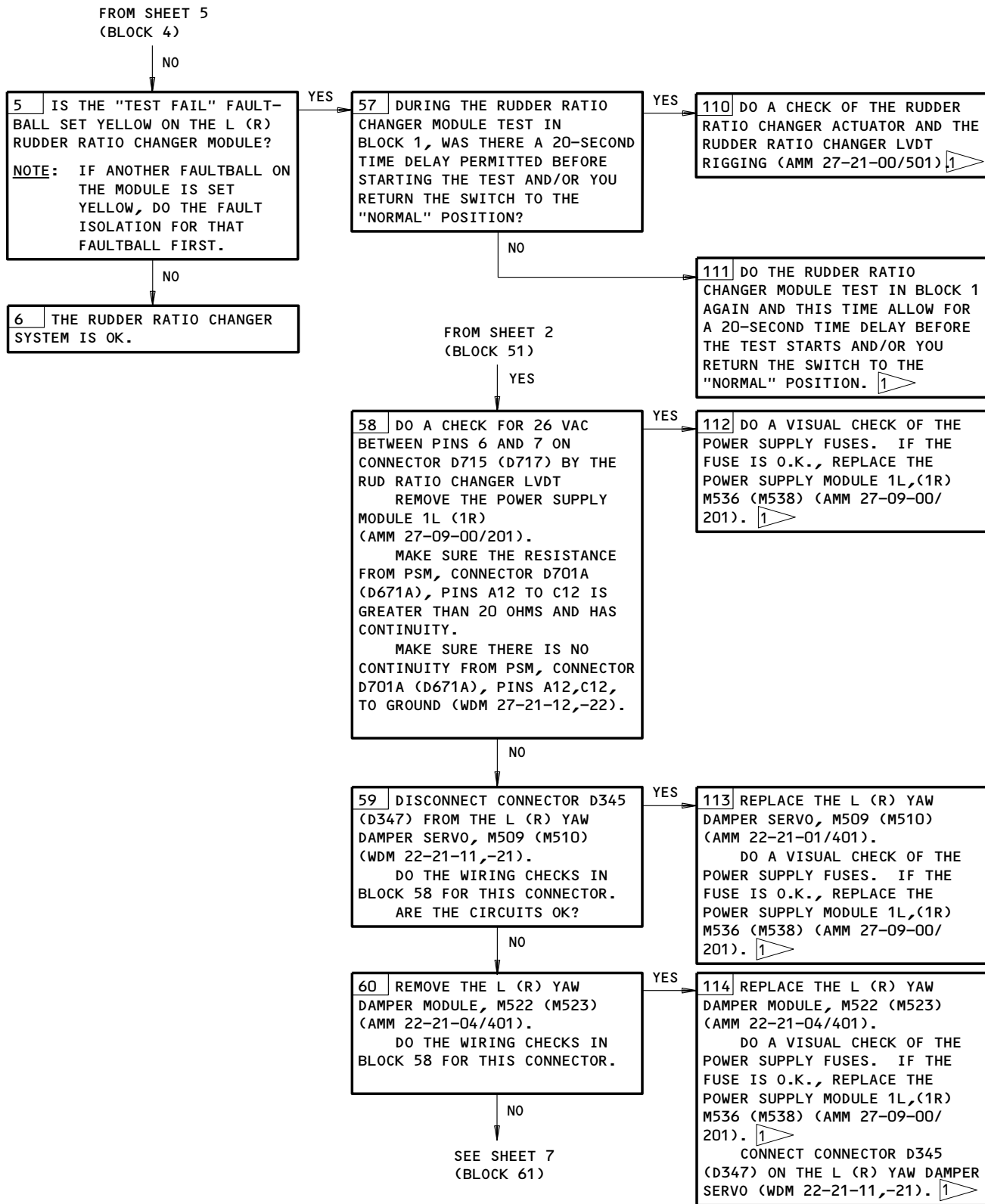


Rudder Ratio Changer Module BITE Procedure  
Figure 106B (Sheet 5)

EFFECTIVITY	ALL
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27-09-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Rudder Ratio Changer Module BITE Procedure  
Figure 106B (Sheet 6)

EFFECTIVITY

ALL

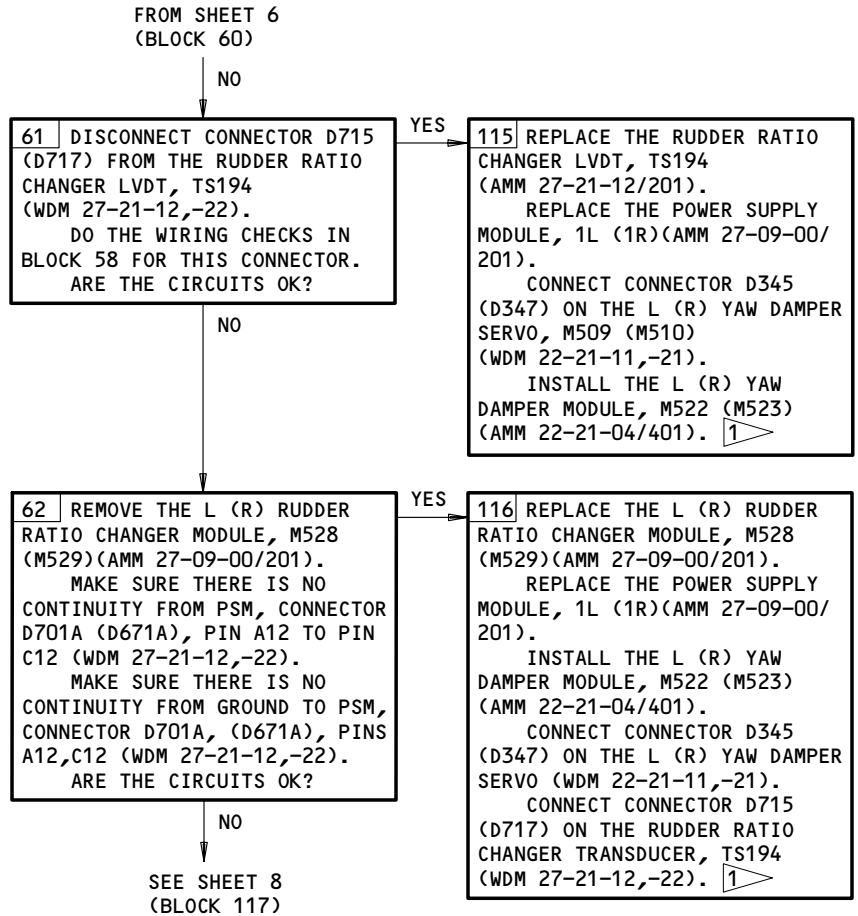
27-09-00

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Page 170  
Jan 20/09

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Rudder Ratio Changer BITE Procedure  
Figure 106B (Sheet 7)

EFFECTIVITY	ALL
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**27-09-00**

09

Page 171  
Jan 20/09

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 7  
(BLOCK 62)

NO

117 EXAMINE THE CIRCUIT FROM PSM, CONNECTOR D701A (D671A), PINS A12,C12, TO:

- YDM, CONNECTOR D349A (D351A), PINS F14,E15 (WDM 22-21-11,-21; 27-21-12,-22)
- YAW DAMPER SERVO, CONNECTOR D345 (D347), PINS 5,6 (WDM 22-21-11,-21; 27-21-12,-22)
- RUDDER RATIO CHANGER MODULE, CONNECTOR D709A (D711A), PINS A10,A9; D709B (D711B), PINS A5,A4 (WDM 27-21-12,-22)
- RUDDER RATIO CHANGER LVDT, TS194, CONNECTOR D715 (D717), PINS 6,7 (WDM 27-21-12,-22)

REPAIR THE PROBLEMS THAT YOU FIND.

REPLACE THE POWER SUPPLY MODULE, 1L (1R)(AMM 27-09-00/201).

INSTALL THE L (R) YAW DAMPER MODULE, M522 (M523) (AMM 22-21-04/401).

CONNECT CONNECTOR D345 (D347) ON THE L (R) YAW DAMPER SERVO, M509 (M510) (WDM 22-21-11,-21).

CONNECT CONNECTOR D715 (D717) ON THE RUDDER RATIO CHANGER TRANSDUCER, TS194 (WDM 27-21-12,-22).

INSTALL THE L (R) RUDDER RATIO CHANGER MODULE, M528 (M529) (AMM 27-09-00/201).

1

Rudder Ratio Changer BITE Procedure  
Figure 106B (Sheet 8)

EFFECTIVITY

ALL

27-09-00

07

Page 172  
Jan 20/09

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

AILERON AND AILERON TRIM CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR (PCA) - AILERON POWER CONTROL	3	4	561CB,661CB	27-11-20
ACTUATOR - LATERAL TRIM, M488	2	1	LEFT MAIN GEAR WHEEL WELL, LATERAL CONTROL FEEL, CENTERING AND TRIM MECHANISM	27-11-14
AILERON - 568,668	3	2	WING TRAILING EDGE	27-11-21
ASSEMBLY - AILERON CONTROL DRUM	1	2	113AL, FWD EQUIP COMPT	27-11-03
CABLES - CONTROL (REF MM 27-00-01/201)				
CIRCUIT BREAKER	1		FLT COMPT, P11	
AILERON POS L, C4099		1	11J14	*
AILERON POS R, C4100		1	11J23	*
AILERON TRIM, C1035		1	11J15	*
DAMPER - CONTROL WHEEL <span style="border: 1px solid black; padding: 0 2px;">1</span>	1	2	113AL, FWD EQUIP COMPT	27-11-03
FILTER - AILERON PCA	3	4	561CB,661CB, AILERON PCA	27-11-20
INDICATOR - AILERON TRIM	1	2	FLT COMPT, CONTROL WHEEL	27-11-00
LIMITER - BUS FORCE	1	1	113AL, FWD EQUIP COMPT	27-11-03
MECHANISM - AILERON QUADRANT AND OVERRIDE	3	2	561AB,661AB	27-11-18
MECHANISM - LATERAL CONTROL FEEL, CENTERING, AND TRIM	2	1	LEFT MAIN GEAR WHEEL WELL, FWD BULKHEAD	27-11-14
MECHANISM - LATERAL CONTROL OVERRIDE	2	1	RIGHT MAIN GEAR WHEEL WELL, FWD BULKHEAD	27-11-16
PANEL - AILERON/RUDDER TRIM CONTROL, M74	1	1	FLT COMPT, P8	*
SERVO (ALCS) - (REF 22-13-00, FIG. 101)				
CENTER AUTOPILOT LATERAL CONTROL, M10041				
LEFT AUTOPILOT LATERAL CONTROL, M10040				
LEFT AUTOPILOT LATERAL CONTROL, M10042				
SWITCH - AILERON TRIM ARM	1	1	FLT COMPT, P8, AIL/RUD TRIM CONT PANEL, M74	*
SWITCH - AILERON TRIM CONTROL	1	1	FLT COMPT, P8, AIL/RUD TRIM CONT PANEL, M74	*
UNIT - (REF 27-61-00, FIG. 101)				
SPOILER TRANSDUCER (RVDT), TS5081,TS5082				
WHEEL - LATERAL CONTROL	1	2	FLT COMPT, CONTROL COLUMN	27-11-02

\* SEE THE WDM EQUIPMENT LIST

1 AIRPLANES WITH CONTROL WHEEL DAMPER  
(SB 27A0147 OR PRR 54530-257S)

Aileron and Aileron Trim Control System - Component Index  
Figure 101

EFFECTIVITY

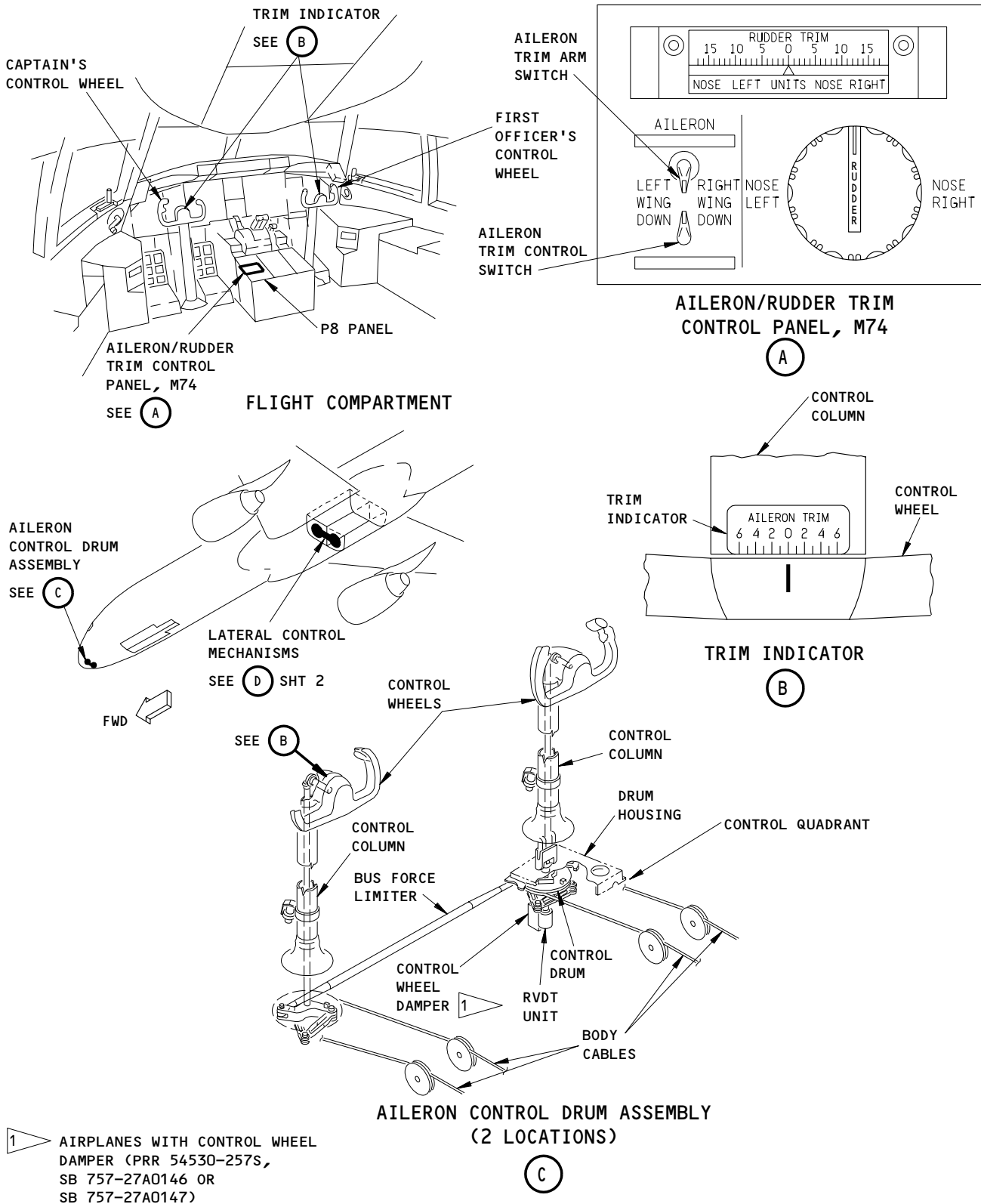
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Page 101  
May 28/04

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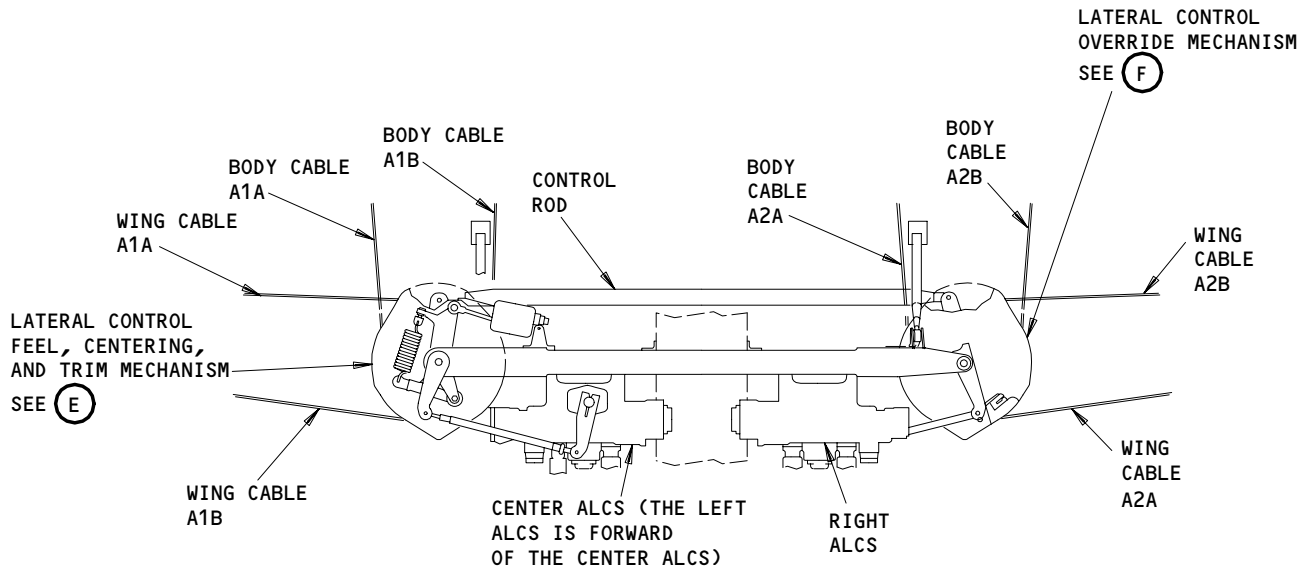


Aileron and Aileron Trim Control - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

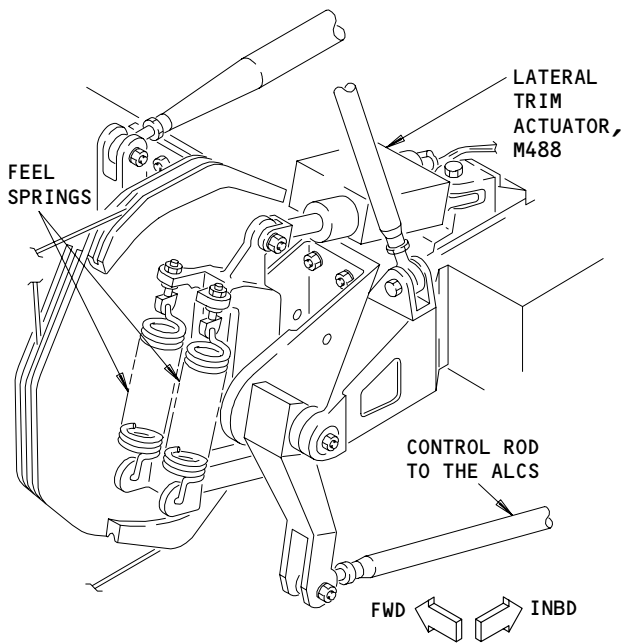
27-11-00





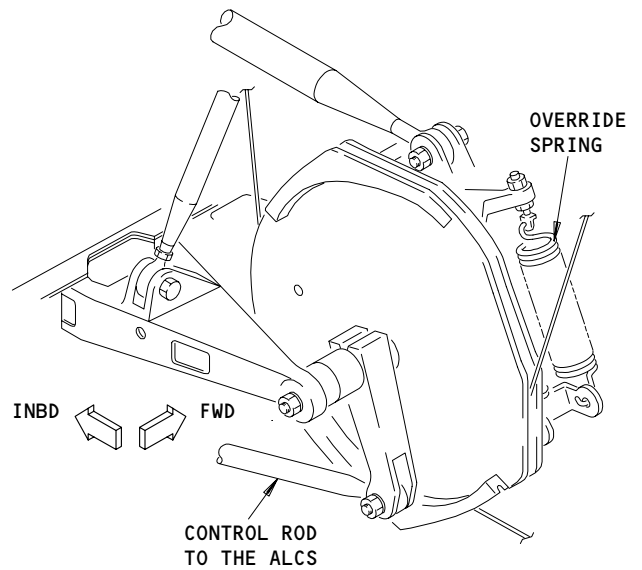
LATERAL CONTROL MECHANISMS

(D) FROM SHT 1



LATERAL CONTROL FEEL, CENTERING, AND TRIM MECHANISM

(E)



LATERAL CONTROL OVERRIDE MECHANISM

(F)

Aileron and Aileron Trim Control - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY

ALL

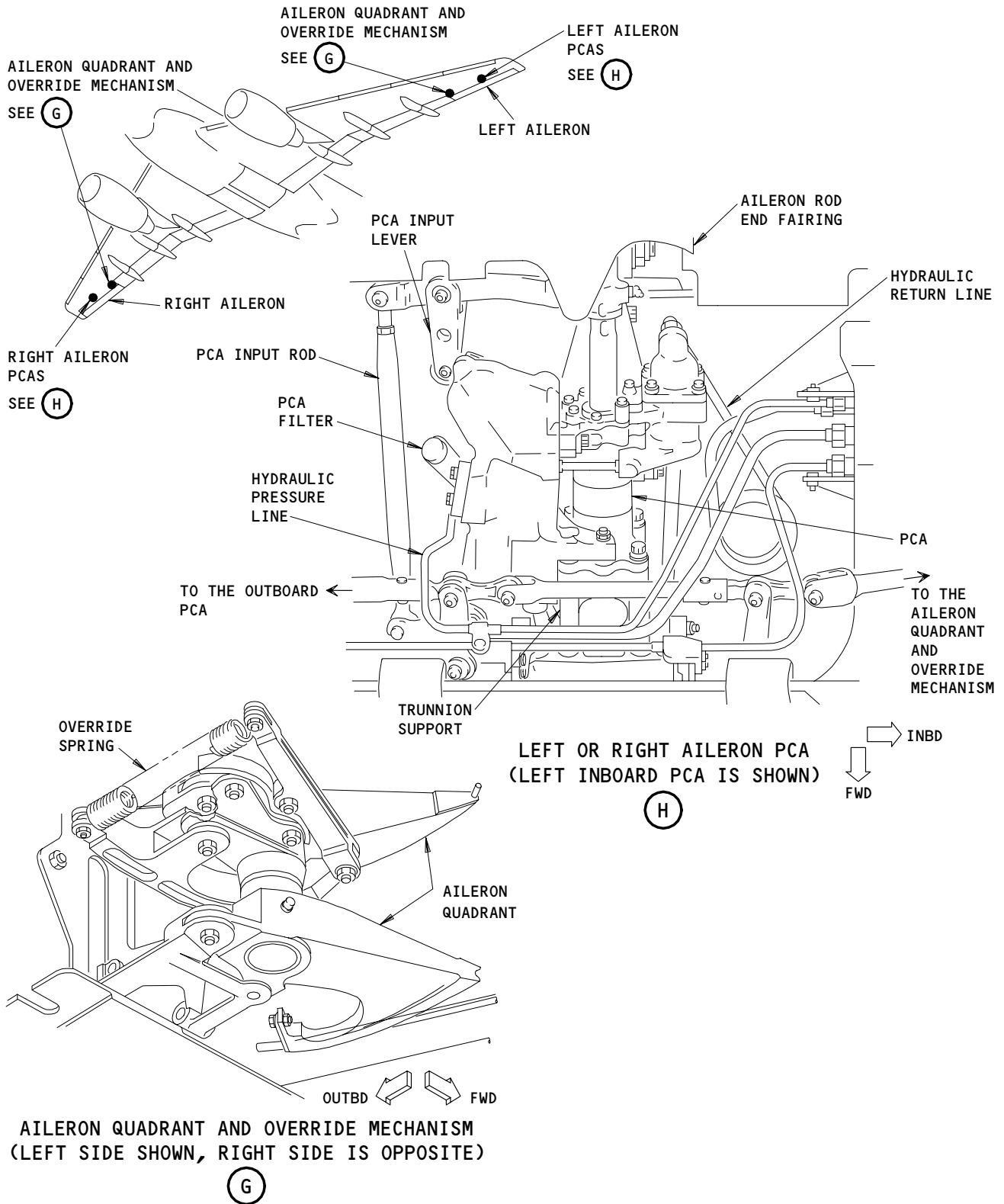
27-11-00

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Page 103  
Jun 20/91

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

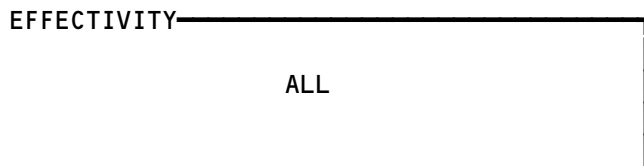


Aileron and Aileron Trim Control - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY	
	ALL

27-11-00

Not Used  
Figure 103



27-11-00

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Page 105  
Mar 20/96

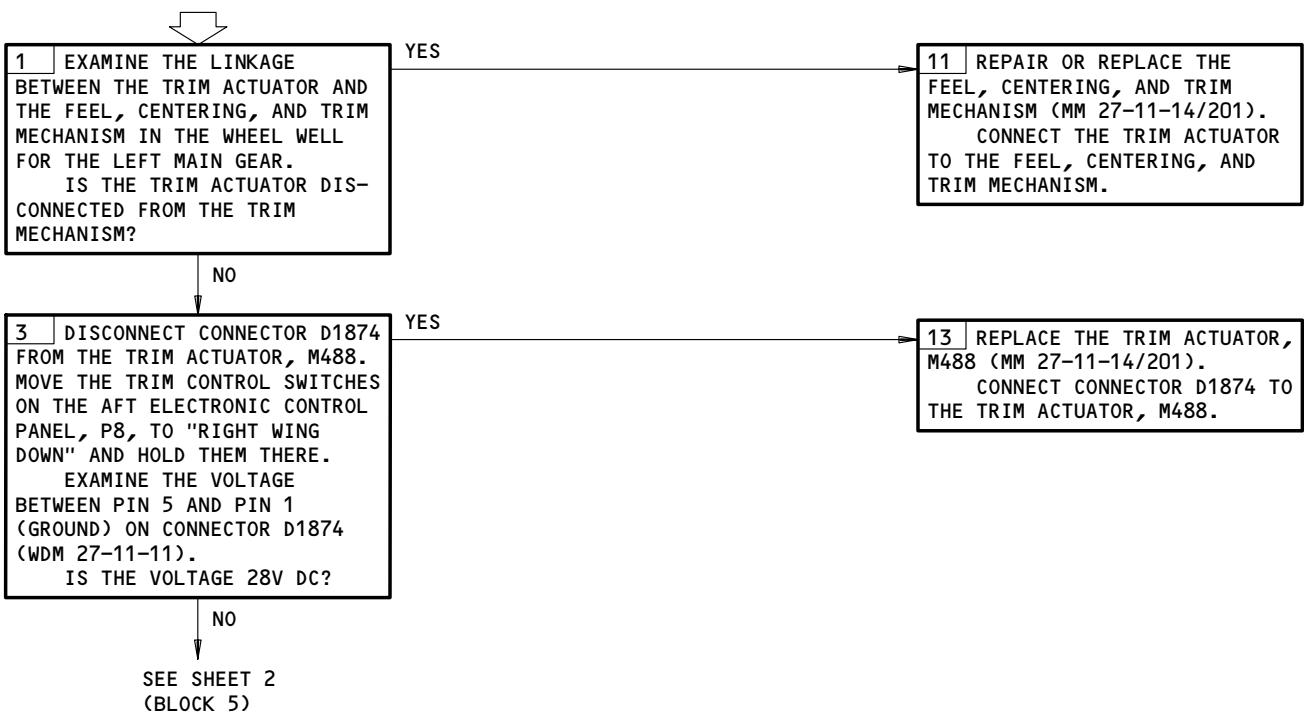
106009

**AILERON TRIM FAILED TO TRIM IN EITHER DIRECTION**

**PREREQUISITES**

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:  
11J15

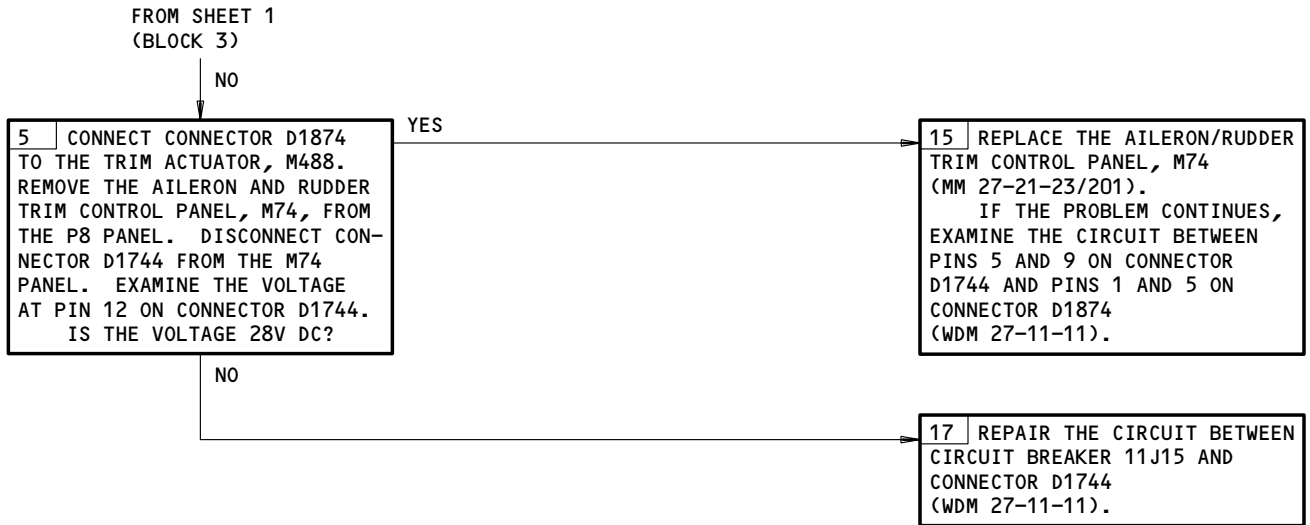
MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:  
ELECTRICAL POWER IS ON (MM 24-22-00/201)  
THE DOOR LOCKS FOR THE MAIN LANDING GEAR DOORS ARE INSTALLED (MM 32-00-15/201)



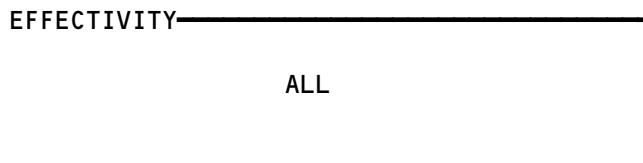
Aileron Trim Failed to Trim in Either Direction  
Figure 104 (Sheet 1)

EFFECTIVITY	ALL
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**27-11-00**



Aileron Trim Failed to Trim in Either Direction  
Figure 104 (Sheet 2)



27-11-00

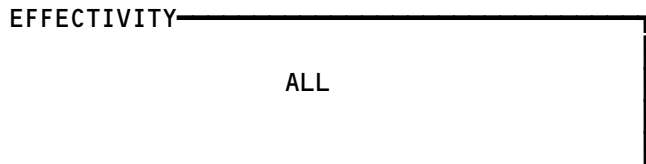
AILERON TRIM FAILED  
TO TRIM IN LEFT  
(RIGHT) WING DOWN  
DIRECTION

PREREQUISITES NONE
-----------------------



1	REPLACE THE AILERON/RUDDER TRIM CONTROL PANEL, M74 (MM 27-21-23/201).
---	---

Aileron Trim Failed to Trim in Left (Right) Wing Down Direction  
Figure 105



27-11-00

**PREREQUISITES**

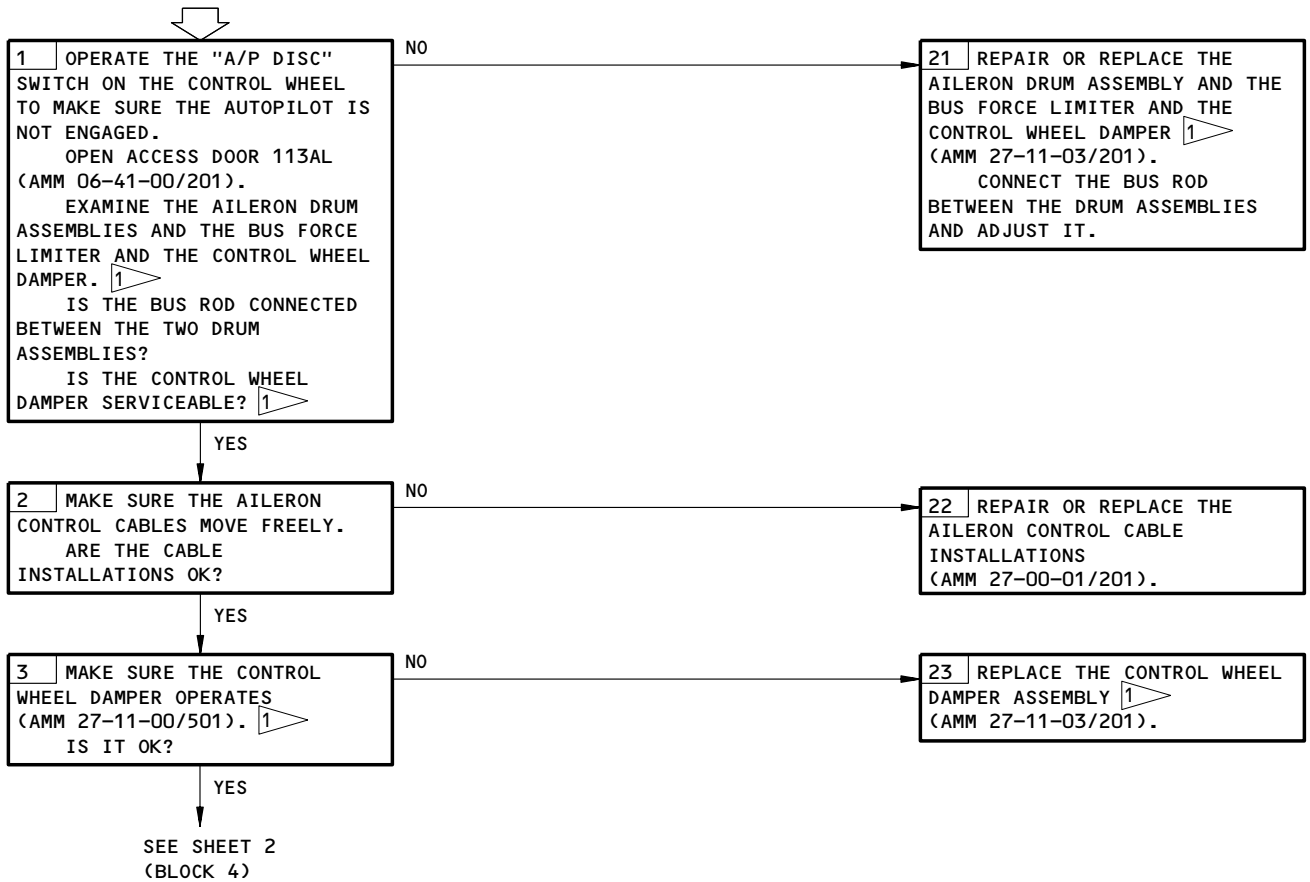
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11J14, 11J23

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

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZERS ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**CAPTAIN'S (FIRST OFFICER'S) AILERON CONTROL WHEEL BINDING**



1 AIRPLANES WITH CONTROL WHEEL DAMPER (PRR 54530-257s, SB 757-27A0146 OR SB 757-27A0147)

Captain's (First Officer's) Aileron Control Wheel Binding  
Figure 106 (Sheet 1)

EFFECTIVITY

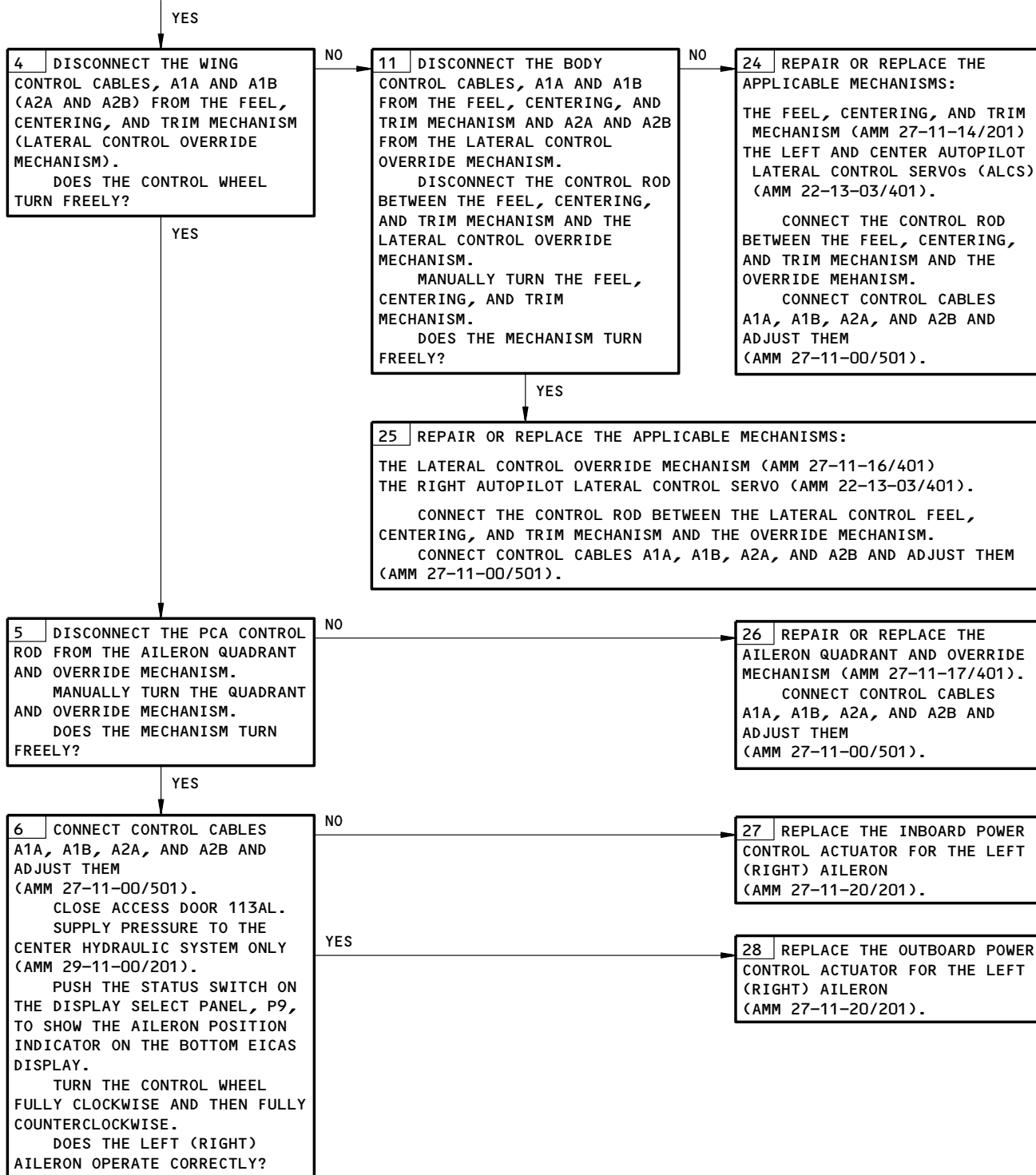
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**27-11-00**

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Page 109  
May 28/07

FROM SHEET 1  
(BLOCK 3)



Captain's (First Officer's) Aileron Control Wheel Binding  
Figure 106 (Sheet 2)

EFFECTIVITY	ALL
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27-11-00



**PREREQUISITES**

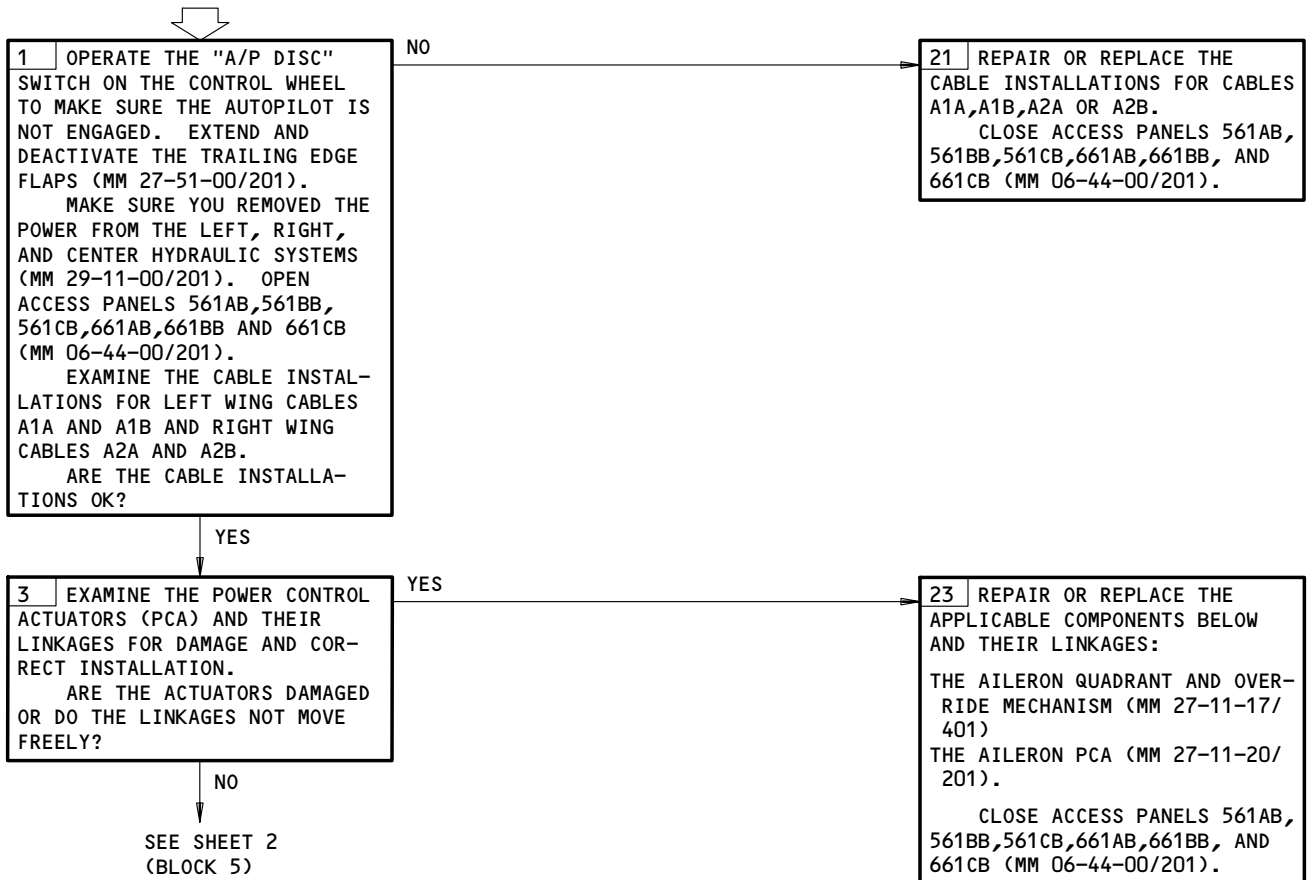
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (MM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11J14,11J23

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:  
ELECTRICAL POWER IS ON (MM 24-22-00/201)  
DOOR LOCKS FOR THE MAIN LANDING GEAR DOORS ARE INSTALLED (MM 32-00-15/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZERS ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**CAPTAIN'S AND FIRST OFFICER'S AILERON CONTROL WHEELS BINDING**



Captain's and First Officer's Aileron Control Wheels Binding  
Figure 107 (Sheet 1)

EFFECTIVITY

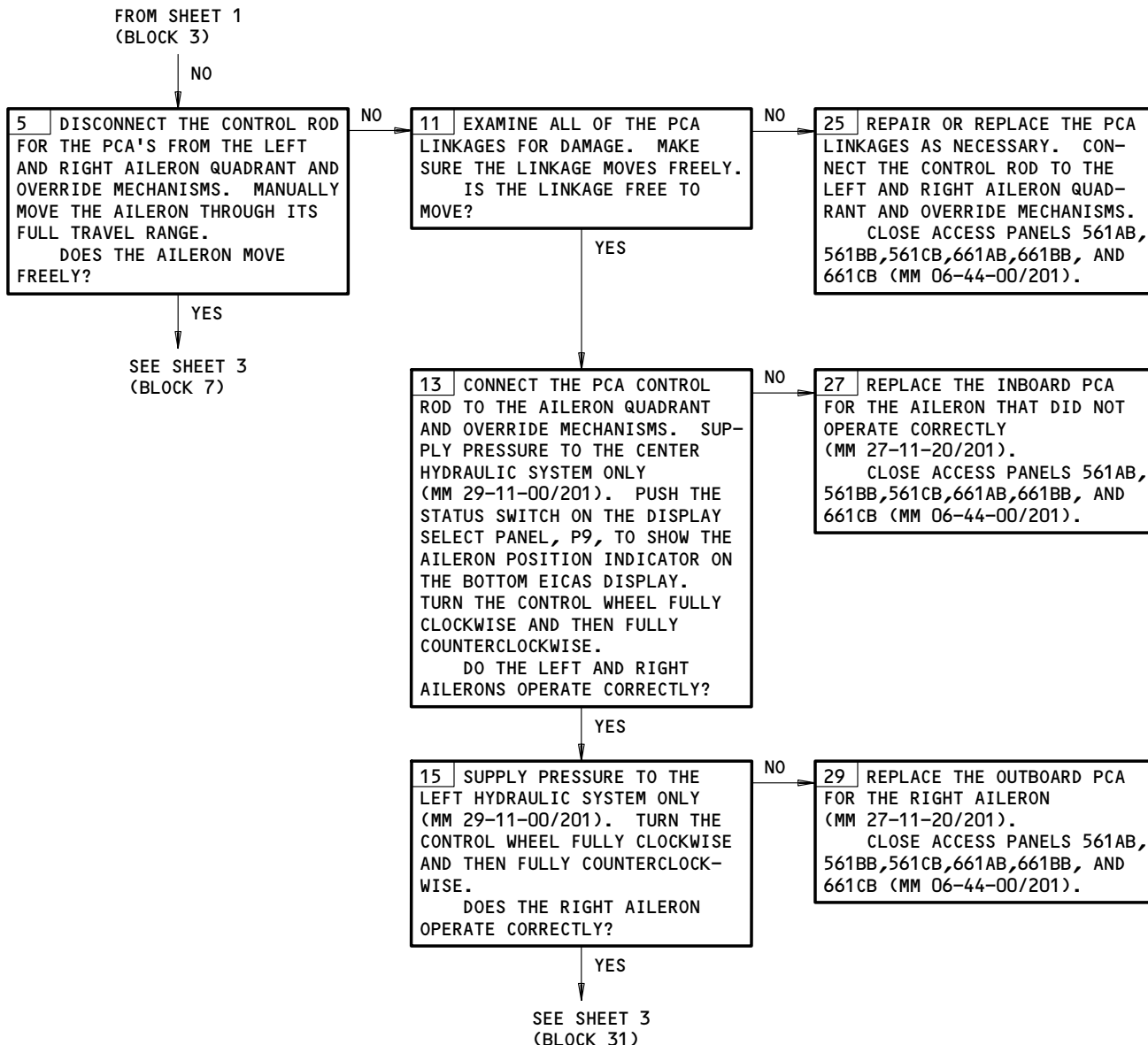
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**27-11-00**

01

Page 111  
Jun 20/91

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

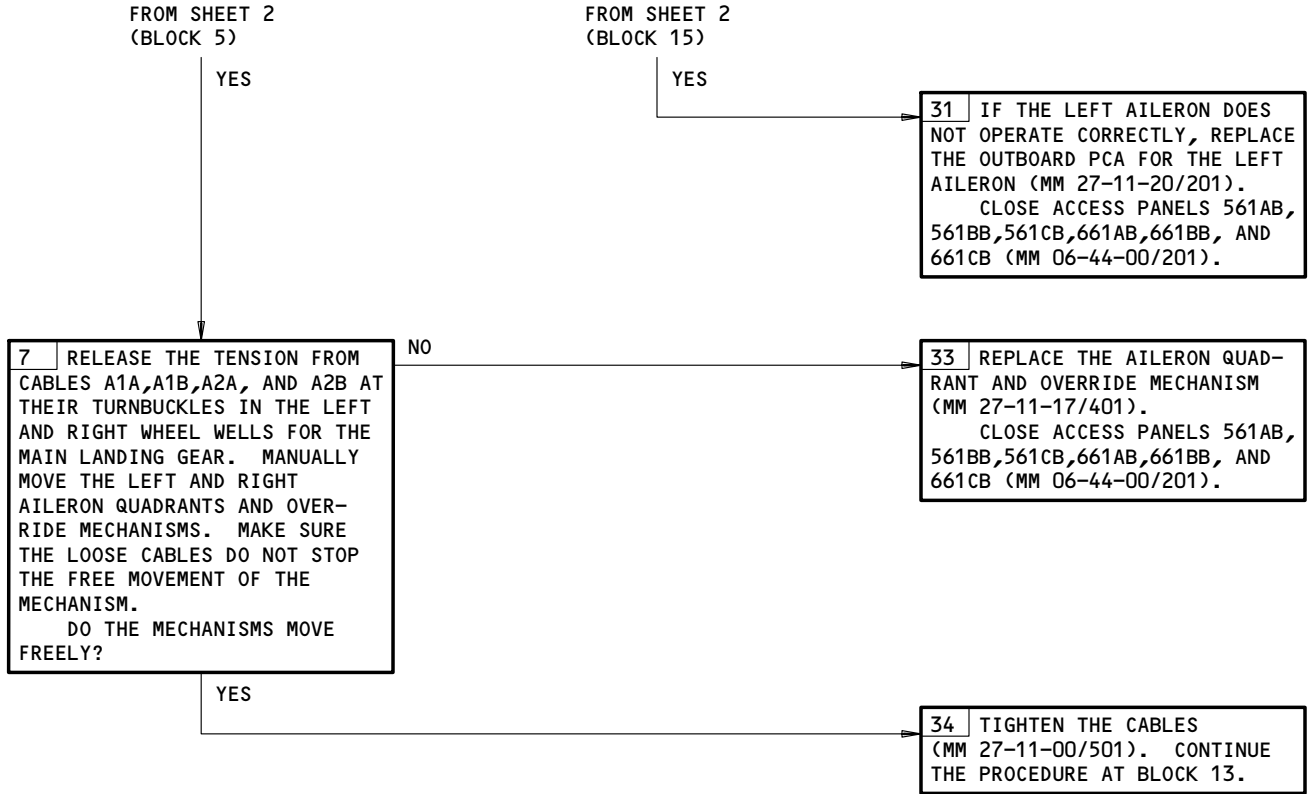


Captain's and First Officer's Aileron Control Wheels Binding  
Figure 107 (Sheet 2)

EFFECTIVITY	ALL
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27-11-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Captain's and First Officer's Aileron Control Wheels Binding  
Figure 107 (Sheet 3)

EFFECTIVITY	ALL
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**27-11-00**

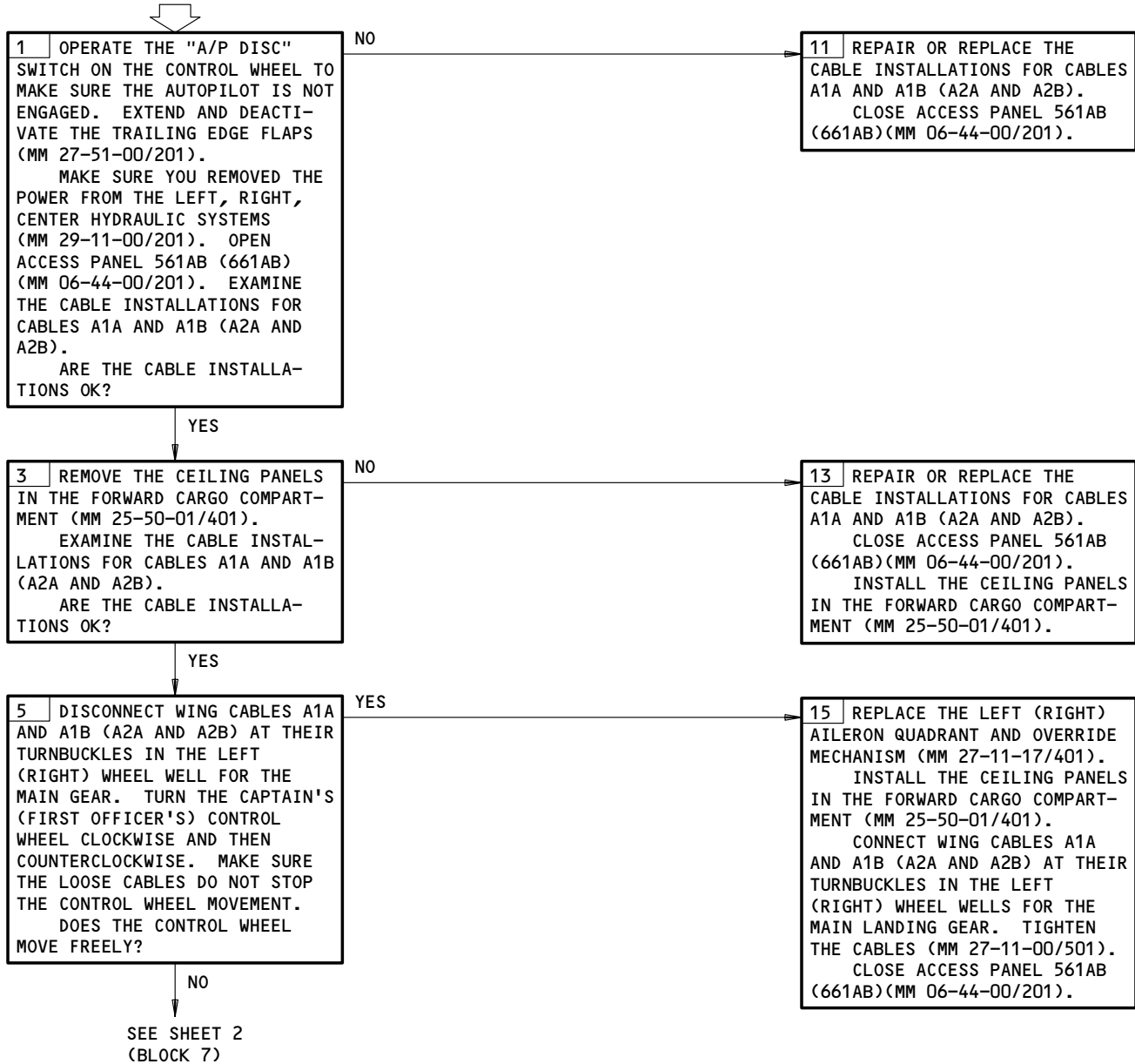
863910

**PREREQUISITES**

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:  
THE DOOR LOCKS FOR THE MAIN LANDING GEAR DOORS ARE INSTALLED (MM 32-00-15/201)

**WARNING:** MAKE SURE YOU REMOVED THE POWER FROM THE LEFT, RIGHT, AND CENTER HYDRAULIC SYSTEMS (MM 29-11-00/201). INJURY TO PERSON OR DAMAGE TO EQUIPMENT CAN OCCUR IF YOU DO THIS PROCEDURE WITH HYDRAULIC POWER SUPPLIED.

**CAPTAIN'S (FIRST OFFICER'S) AILERON CONTROL WHEEL JAMMED**



Captain's (First Officer's) Aileron Control Wheel Jammed  
Figure 108 (Sheet 1)

EFFECTIVITY

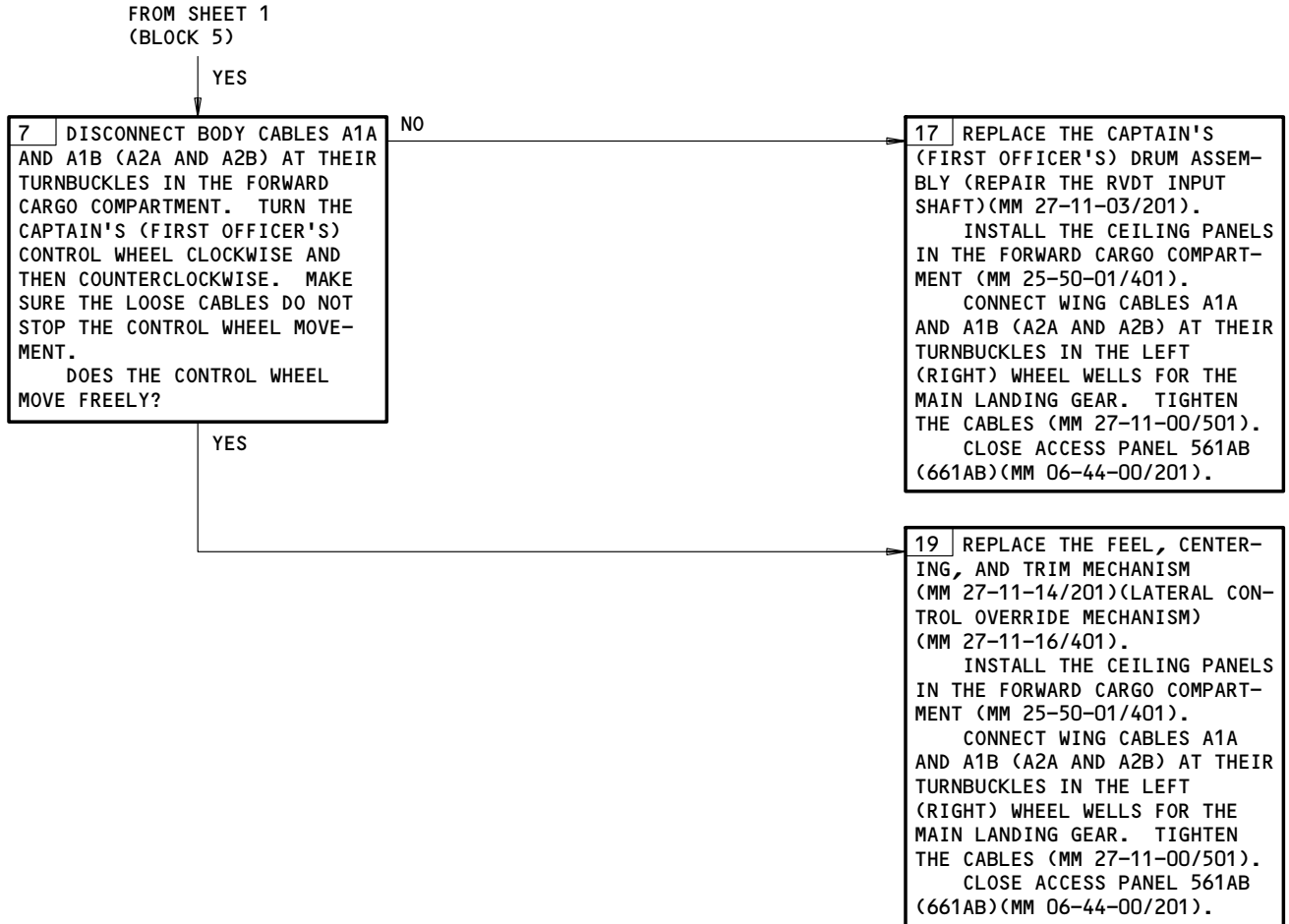
ALL

**27-11-00**

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Page 114  
Jun 20/91

71158



Captain's (First Officer's) Aileron Control Wheel Jammed  
Figure 108 (Sheet 2)

EFFECTIVITY

ALL

27-11-00



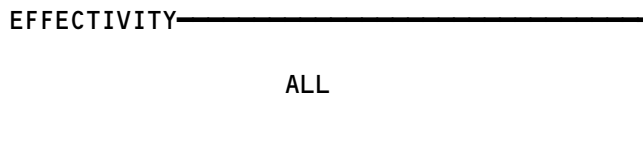
757  
 FAULT ISOLATION/MAINT MANUAL

AILERON POSITION INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER - AILERON POS L, C4099 AILERON POS R, C4100 AILERON TRIM, C1035	1		FLT COMPT, OVERHEAD PANEL, P11	*
COMPUTER - (FIM 31-41-00/101) L EICAS, M10181		1	11J14	*
COMPUTER - (FIM 31-41-00/101) R EICAS, M10182		1	11J23	*
FILTER, R10151, R10152	1	2	11J15	
TRANSMITTER - LEFT AILERON POSITION, M10225	2	1	119BL, MAIN EQUIP CTR, E4-2	*
TRANSMITTER - RIGHT AILERON POSITION, M101226	2	1	561AB, L OUTBD AILERON	27-18-01
			661AB, R OUTBD AILERON	27-18-01

\* SEE THE WDM EQUIPMENT LIST

Aileron Position Indicating System - Component Index  
 Figure 101



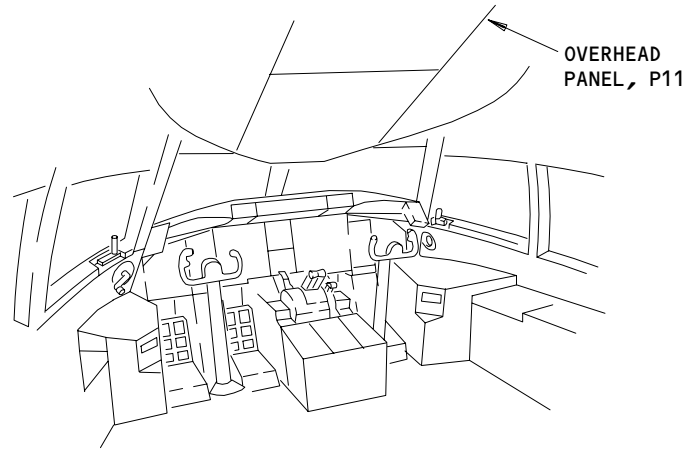
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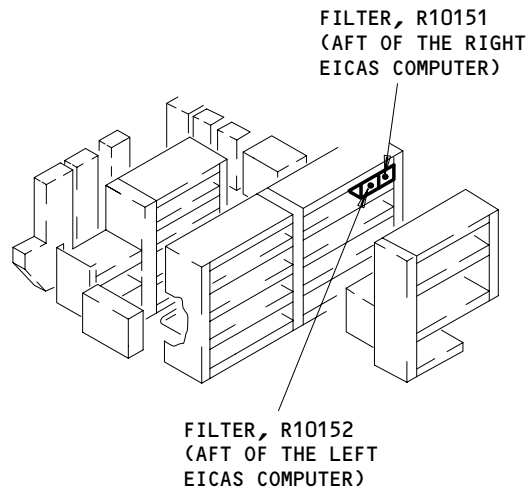
Page 101  
 Sep 20/94

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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



**FLIGHT COMPARTMENT**



**MAIN EQUIPMENT CENTER**

**Aileron Position Indicating System - Component Location  
 Figure 102 (Sheet 1)**

EFFECTIVITY	ALL
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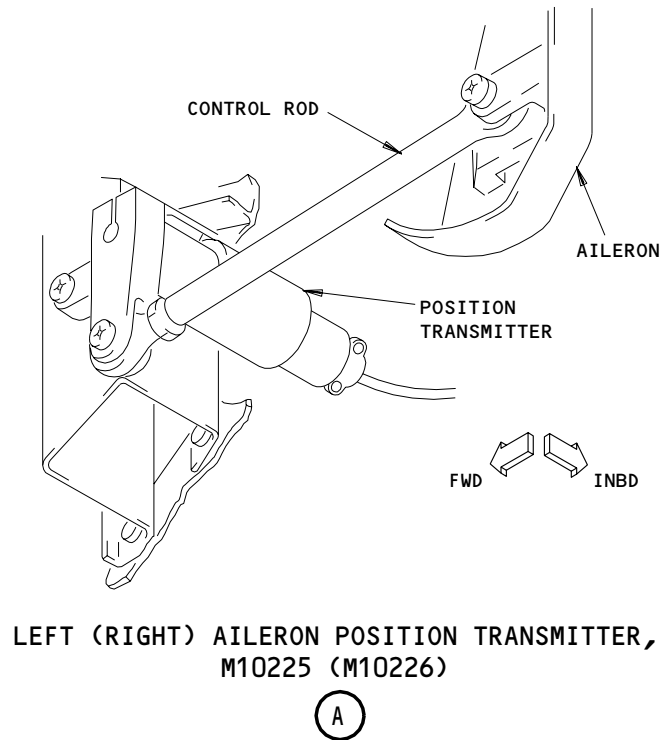
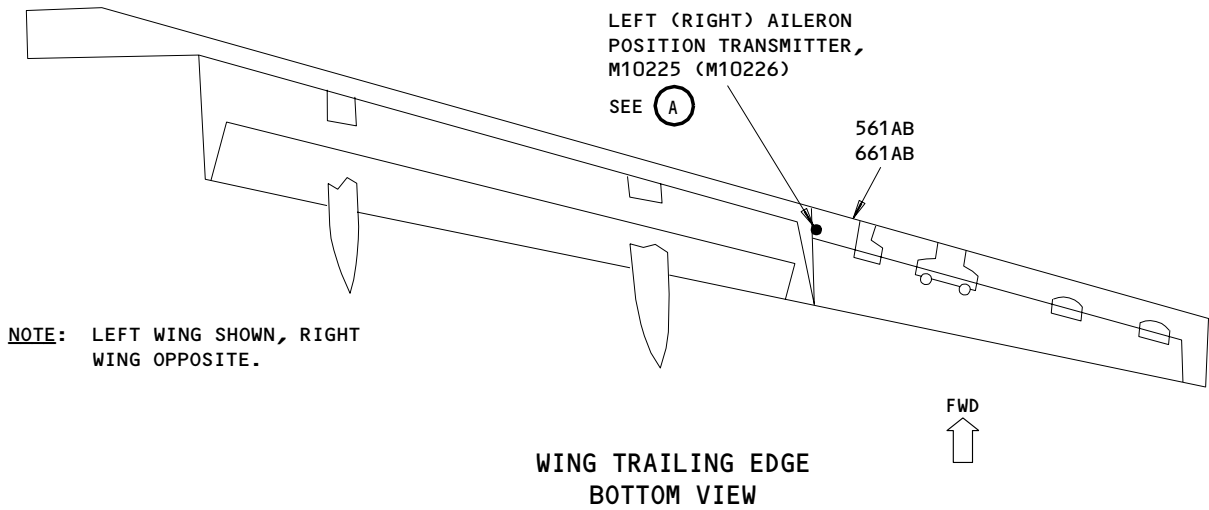
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**27-18-00**

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Page 102  
 Sep 20/94

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Aileron Position Indicating System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

27-18-00

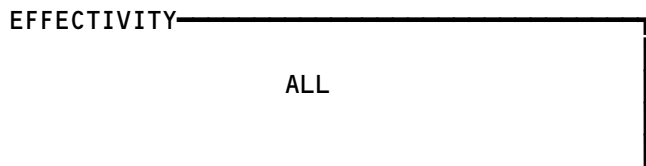
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Page 103  
Sep 20/94

105964



Not Used  
Figure 103



**27-18-00**

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Page 104  
Mar 20/96

106011

**PREREQUISITES**

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

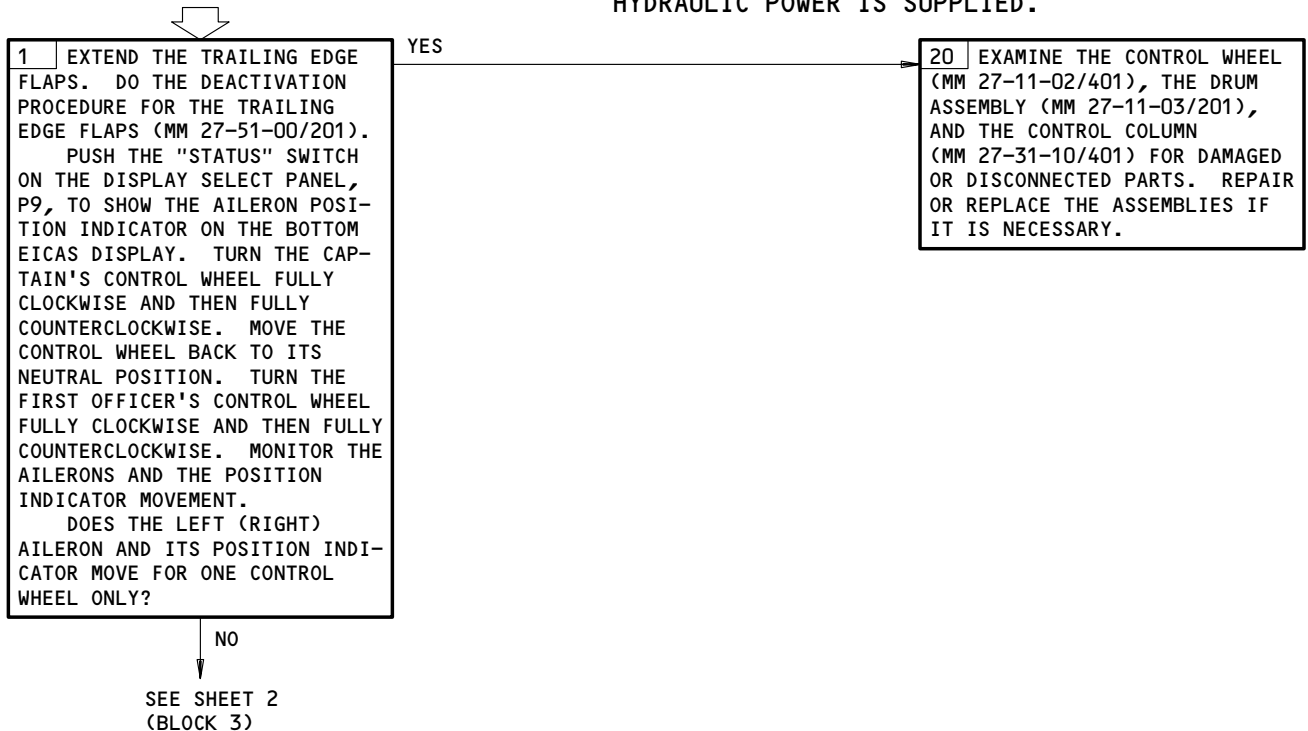
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11J14, 11J23

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

- ELECTRICAL POWER IS ON (MM 24-22-00/201)
- HYDRAULIC POWER IS ON (MM 29-11-00/201)
- MAIN LANDING GEAR DOOR LOCKS ARE INSTALLED (MM 32-00-15/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILER, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**LEFT (RIGHT)  
AILERON INDICATOR  
POINTER FAILED TO  
INDICATE AILERON  
MOVEMENT**



Left (Right) Aileron Indicator Pointer Failed to Indicate Aileron Movement  
Figure 104 (Sheet 1)

EFFECTIVITY

ALL

**27-18-00**

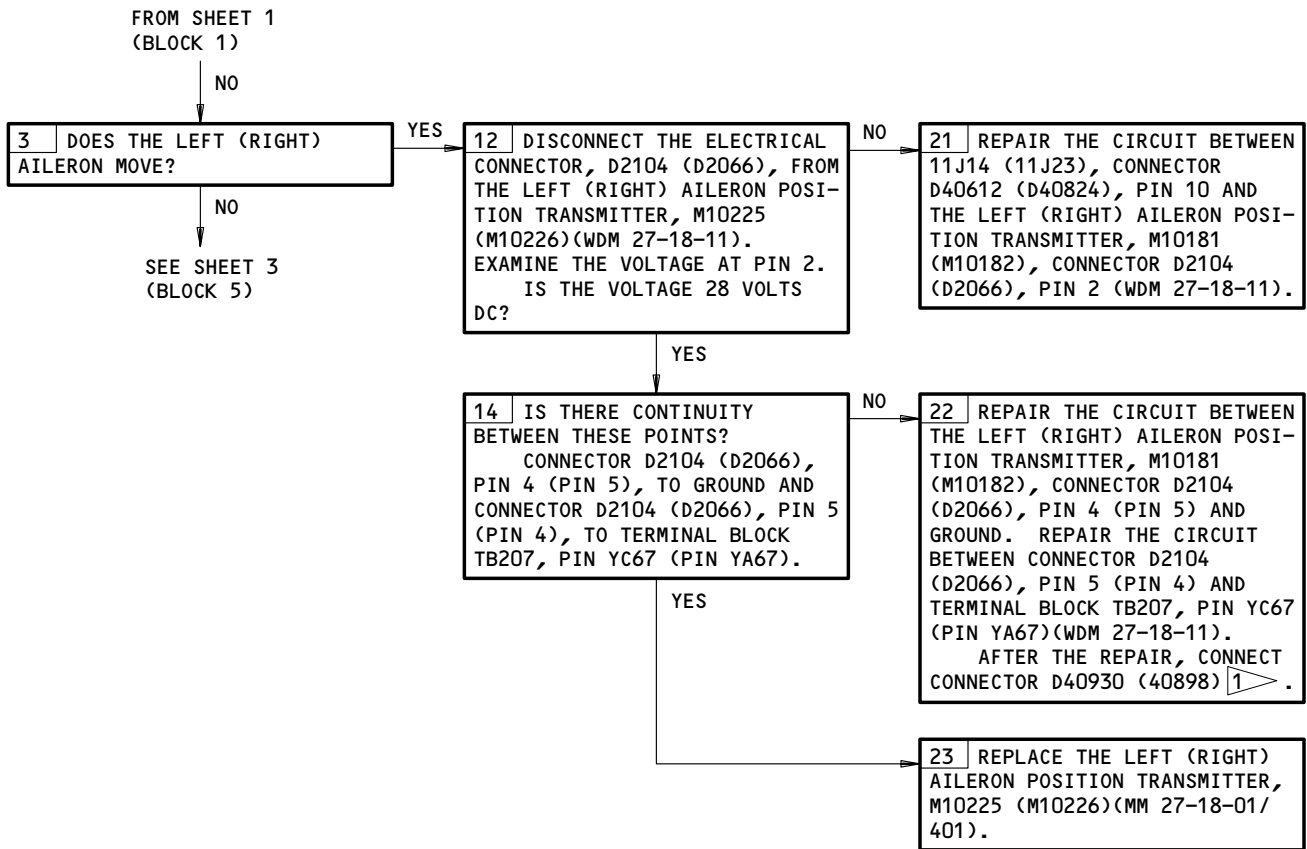
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Page 105  
Sep 20/94

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



**1 CAUTION:** MAKE SURE YOU SET THE TORQUE WRENCH TO THE TORQUE SPECIFIED BELOW. IF THE TORQUE WRENCH IS SET INCORRECTLY, THE CONNECTOR CAN BECOME DAMAGED AND WILL NOT SUPPLY SUFFICIENT LIGHTNING PROTECTION FOR THE WIRES.

USE A 3/8 INCH DRIVE TORQUE WRENCH (SET TO THE SPECIFIED TORQUE) AND A BALMAR 76-101 OR A GLENAIR 76-70 STRAP WRENCH TO TIGHTEN THE CONNECTOR TO THE NECESSARY TORQUE.

CONNECTOR NUMBER	TORQUE WRENCH VALUE (POUND-INCHES)	CONNECTOR TORQUE (POUND-INCHES)
D40930	32 - 37	36 - 41
D40898	53 - 58	60 - 65

Left (Right) Aileron Indicator Pointer Failed to Indicate Aileron Movement  
Figure 104 (Sheet 2)

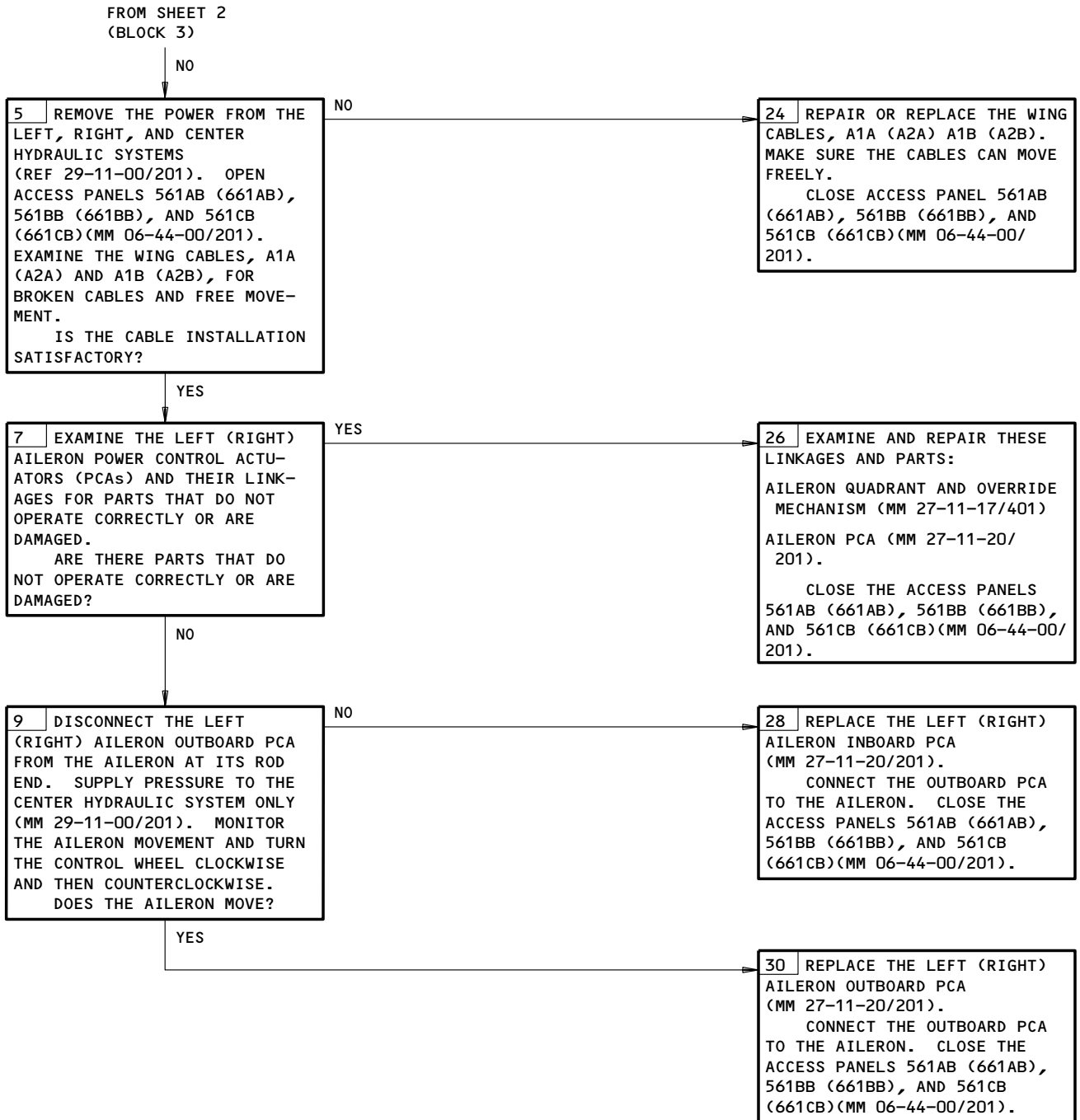
EFFECTIVITY

ALL

# 27-18-00

02

Page 106  
Sep 20/94



Left (Right) Aileron Indicator Pointer Failed to Indicate Aileron Movement  
Figure 104 (Sheet 3)

EFFECTIVITY

ALL

27-18-00

01

Page 107  
Sep 20/94

**PREREQUISITES**

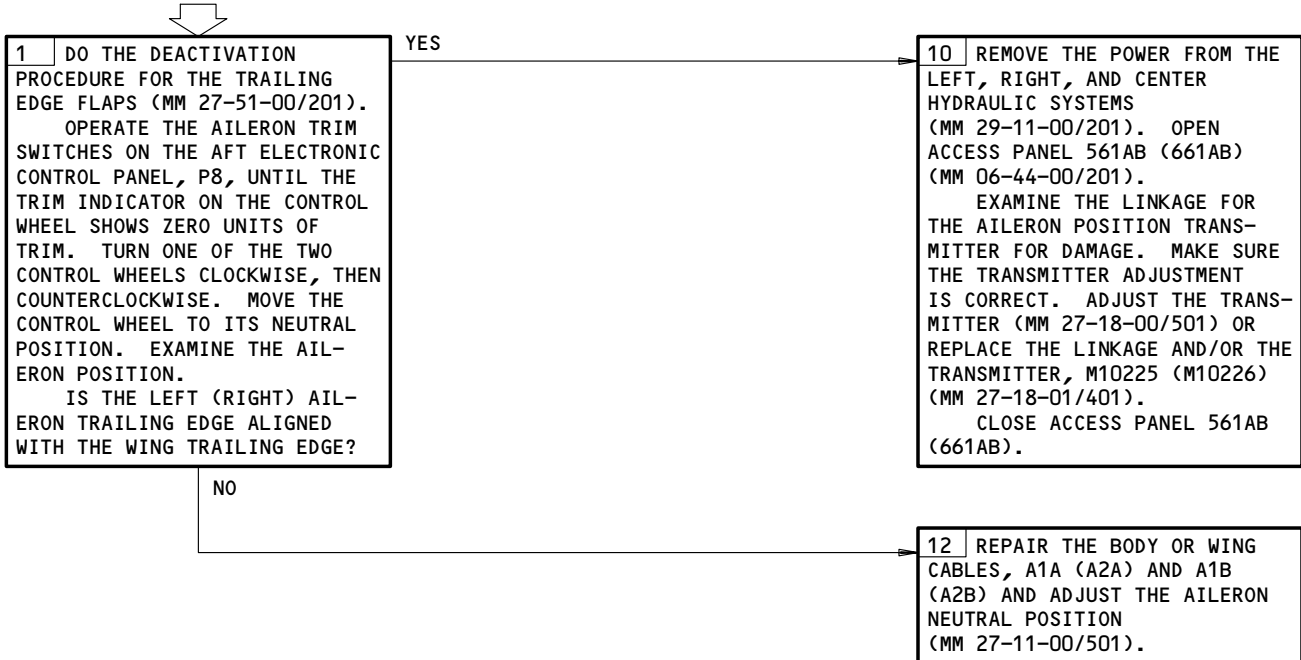
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11J14,11J15,11J23

MAKE SURE THE AIRPLANES IS IN THE CONFIGURATION THAT FOLLOWS:

- ELECTRICAL POWER IS ON (MM 24-22-00/201)
- HYDRAULIC POWER IS ON (MM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

LEFT (RIGHT)  
AILERON INDICATOR  
POINTER FAILED TO  
ZERO WITH CONTROL  
WHEEL ZERO



Left (Right) Aileron Indicator Pointer Failed to Zero with Control Wheel Zero  
Figure 105

EFFECTIVITY	ALL
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**27-18-00**

**PREREQUISITES**

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

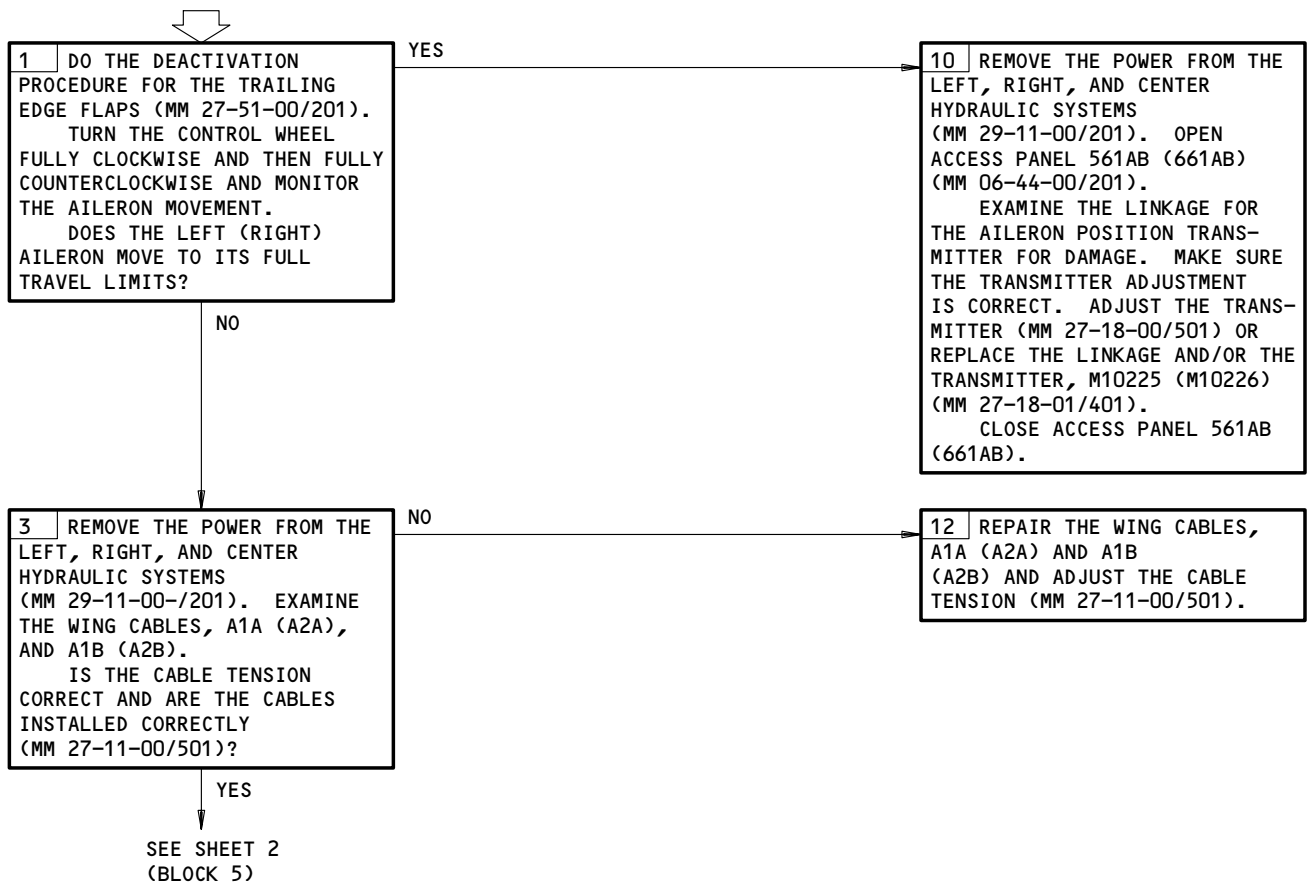
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11J14, 11J23

MAKE SURE THE AIRPLANES IS IN THE CONFIGURATION THAT FOLLOWS:

- ELECTRICAL POWER IS ON (MM 24-22-00/201)
- HYDRAULIC POWER IS ON (MM 29-11-00/201)
- MAIN LANDING GEAR DOOR LOCKS ARE INSTALLED (MM 32-00-15/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

LEFT (RIGHT)  
AILERON INDICATOR  
POINTER INDICATES  
LESS THAN FULL  
TRAVEL

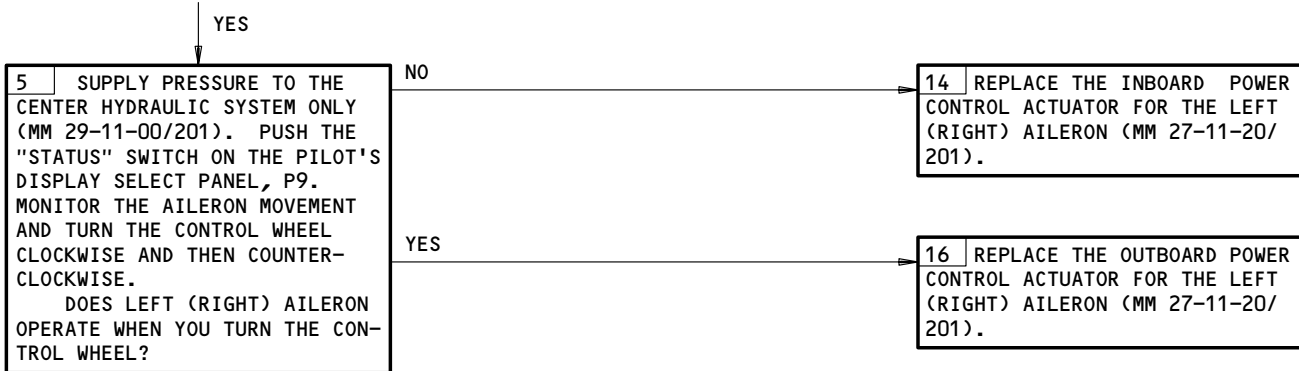


Left (Right) Aileron Indicator Pointer Indicates Less than Full Travel  
Figure 106 (Sheet 1)

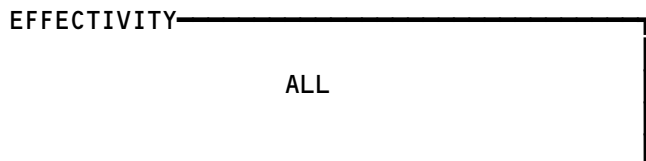
EFFECTIVITY	
	ALL

**27-18-00**

FROM SHEET 1  
(BLOCK 3)



Left (Right) Aileron Indicator Pointer Indicates Less than Full Travel  
Figure 106 (Sheet 2)



27-18-00



757  
 FAULT ISOLATION/MAINT MANUAL

RUDDER AND RUDDER TRIM CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR - RUDDER TRIM, M515	3	1	324AL, RUDDER FEEL, CENTERING, AND TRIM MECHANISM	27-21-06
ACTUATOR (PCA) - RUDDER POWER CONTROL	4	3	324CL, MID VERT FIN	27-21-20
ACTUATOR (RRCA) - RUDDER RATIO CHANGER, M626	4	1	324BL, LWR VERT FIN	27-21-13
ASSEMBLY - AFT QUADRANT	3	1	324AL, RUDDER FEEL, CENTERING, AND TRIM MECHANISM	27-21-06
ASSEMBLY - RUDDER FORWARD QUADRANT AND JACKSHAFT	2	2	113AL, FWD EQUIP COMPT	27-21-05
ASSEMBLY - RUDDER PEDAL	2	2	FLT COMPT AND 113AL, FWD EQUIP COMPT	27-21-02
ASSEMBLY - YAW DAMPER SUMMING LEVER	4	1	324BL, LWR VERT FIN	27-21-17
CABLE - (AMM 27-00-01/201) RUDDER CONTROL				
CIRCUIT BREAKER -	1		FLT COMPT, P11	
ELEVATOR LIMIT, C4032		1	11J12	*
FLT CONT ELEC 1L AC, C1538		1	11C6	*
FLT CONT ELEC 1L DC, C1534		1	11C7	*
FLT CONT ELEC 1R AC, C1536		1	11G17	*
FLT CONT ELEC 1R DC, C1531		1	11G18	*
FLT CONT ELEC 2L AC, C1537		1	11C8	*
FLT CONT ELEC 2L DC, C1533		1	11C9	*
FLT CONT ELEC 2R AC, C1535		1	11G27	*
FLT CONT ELEC 2R DC, C1532		1	11G28	*
FLT CONT SHUTOFF TAIL LEFT, C4033		1	11H17	*
PCU MON SENSOR, C4283		1	11J10	*
PCU MON MOD, C4270		1	11J11	*
RUDDER POS, C1005		1	11J16	*
RUD RATIO, C1031		1	11G10 OR 11D18	*
RUD TRIM, C1033		1	11C10	*
RUDDER TRIM POS, C1034		1	11J17	*
STAB TRIM CONT L, C1017		1	11H11 OR 11C5	*
STAB TRIM CONT R, C1018		1	11H20	*
COMPUTER - (FIM 31-41-00/101) L EICAS, M10181 R EICAS, M10182				
CRANK - RUDDER PEDAL ADJUSTMENT	1	2	FLT COMPT AND 113AL, FWD EQUIP COMPT	27-21-03
FILTER - RRCA		1	324BL, RRCA M626	27-21-13
INDICATOR - RUDDER TRIM, N83	1		FLT COMPT, P8, AIL/RUD TRIM CONT PANEL M74	*
LIGHT - RUDDER RATIO, L18	1		FLT COMPT, P5, AUX ANNUN PANEL M10394	*
LINKAGE - (FIM 32-41-00/101) BRAKE PEDAL BUS MECHANISM				
LINKAGE - (FIM 32-51-00/101) NOSE WHEEL STEERING INTERCONNECT MECHANISM				
LINKAGE - RUDDER TEMPERATURE COMPENSATING	5	1	324AL, LWR VERT FIN	27-21-19
LVDT - RUDDER RATIO CHANGER, TS194	4		324BL, RUDDER RATIO CHANGER MECHANISM	27-21-12
MECHANISM - FEEL, CENTERING AND TRIM	3		324AL, LWR VERT FIN	27-21-06
MECHANISM - RUDDER RATIO CHANGER	4		324BL, LWR VERT FIN	27-21-12
MODULE - (FIM 27-09-00/101) LEFT RUDDER RATIO CHANGER (L RRCM), M528 RIGHT RUDDER RATIO CHANGER (R RRCM), M529				

\* SEE THE WDM EQUIPMENT LIST

Rudder and Rudder Trim Control System - Component Index  
 Figure 101 (Sheet 1)

EFFECTIVITY

ALL

27-21-00

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Page 101  
 Mar 20/94

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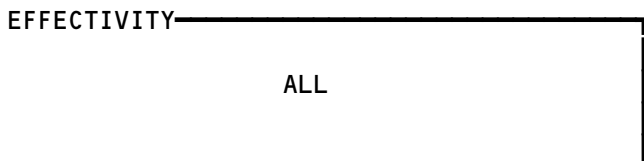



**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
MODULES - (27-09-00/101) LEFT STAB TRIM/ELEVATOR ASSYMETRY (L SAM), M524 POWER SUPPLY 1L (PSM 1L), M536 POWER SUPPLY 1R (PSM 1R), M538 POWER SUPPLY 2L (PSM 2L), M537 POWER SUPPLY 2R (PSM 2R), M539 RIGHT STAB TRIM/ELEVATOR ASSYMETRY (R SAM), M525 PANEL - (27-11-00/101) AILERON/RUDDER TRIM CONTROL, M74 PANEL - (30-31-00/101) AUXILIARY ANNUNCIATOR, M10394 PIN - RUDDER RATIO CHANGER SHEAR	4	1	324BL, RUDDER RATIO CHANGER MECHANISM	27-21-12
RELAYS - (32-09-00/101) AIR/GND SYS 1, K10384 AIR/GND SYS 2, K10387 ROD - RUDDER RATIO CHANGER POGO	4	1	324BL, RUDDER RATIO CHANGER MECHANISM	27-21-00
RUDDER -	2	1	VERTICAL STABILIZER TRAILING EDGE, 325	27-21-21
SCREEN - RRCA SERVOS - (22-13-00/101) CENTER AUTOPILOT ROLLOUT GUIDANCE, M278 LEFT AUTOPILOT ROLLOUT GUIDANCE, M277 RIGHT AUTOPILOT ROLLOUT GUIDANCE, M279 SERVOS - (22-21-00/101) LEFT YAW DAMPER, M509 RIGHT YAW DAMPER, M510 SWITCH - (29-11-00/101) LEFT HYDRAULIC PUMP PRESSURE, S27 SWITCH - RUDDER TRIM	4	1	324BL, RRCA M626	27-21-13
VALVE - RRCA SOLENOID VALVE (EHSV) - RRCA ELECTROHYDRAULIC SERVO	1	1	FLT COMPT, P8, AIL/RUD TRIM CONT PANEL, M74	*
	4	1	324BL, RRCA M626	27-21-13
	4	1	324BL, RRCA M626	27-21-13

\* SEE THE WDM EQUIPMENT LIST

Rudder and Rudder Trim Control System - Component Index  
Figure 101 (Sheet 2)

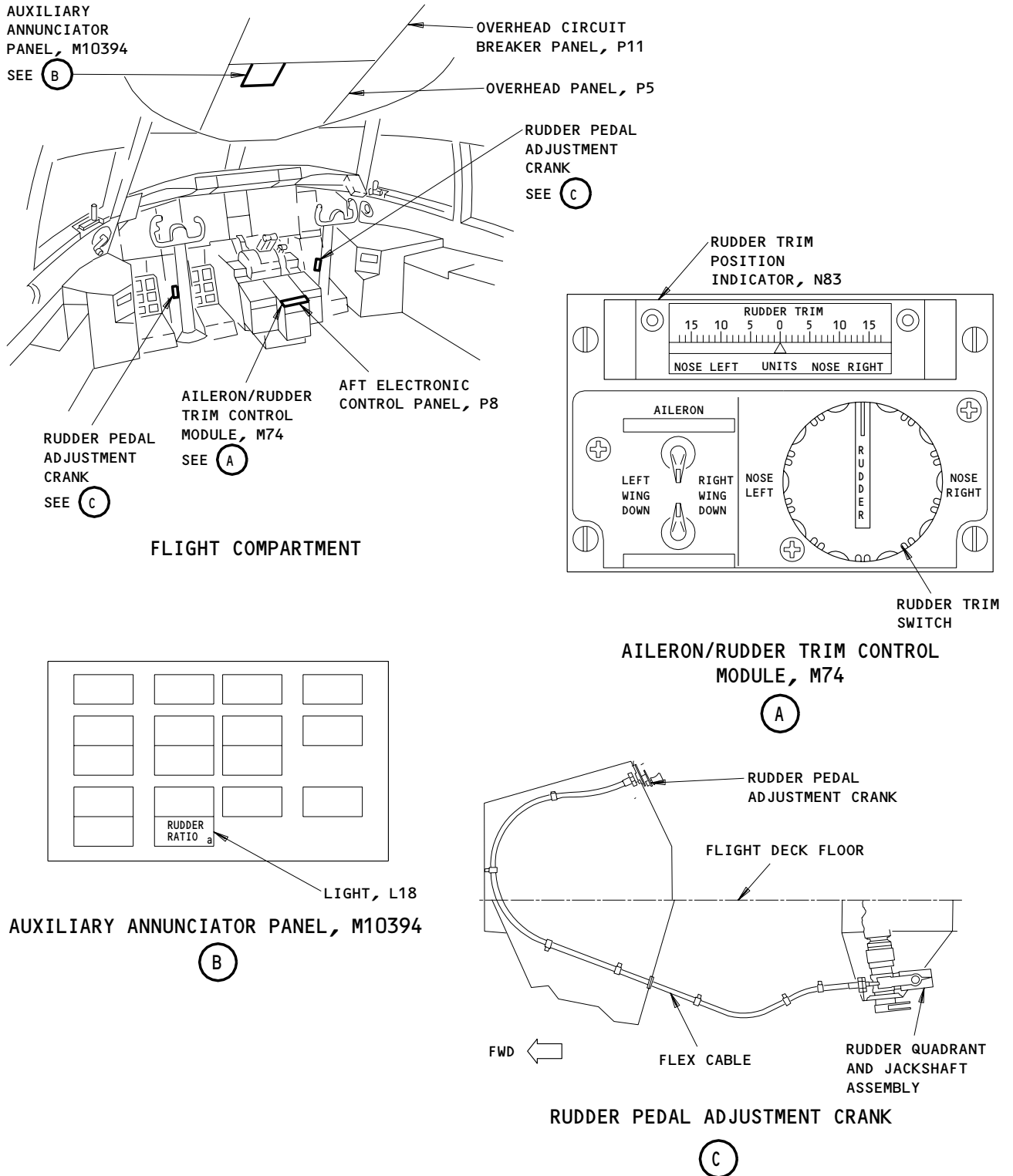


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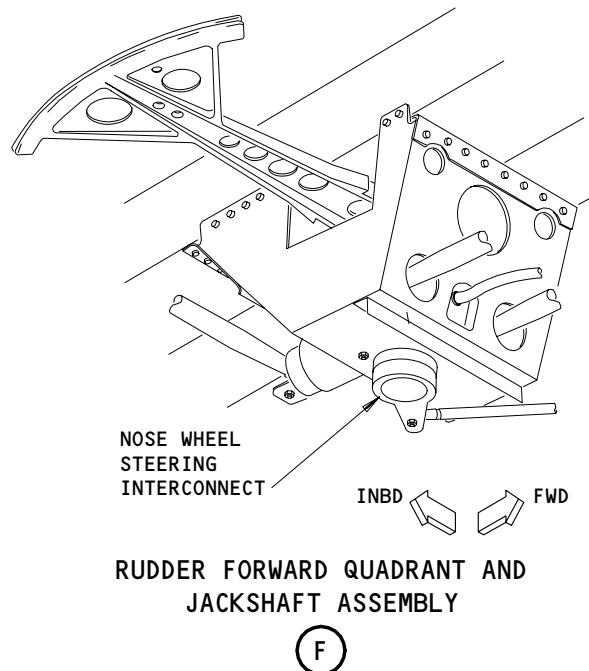
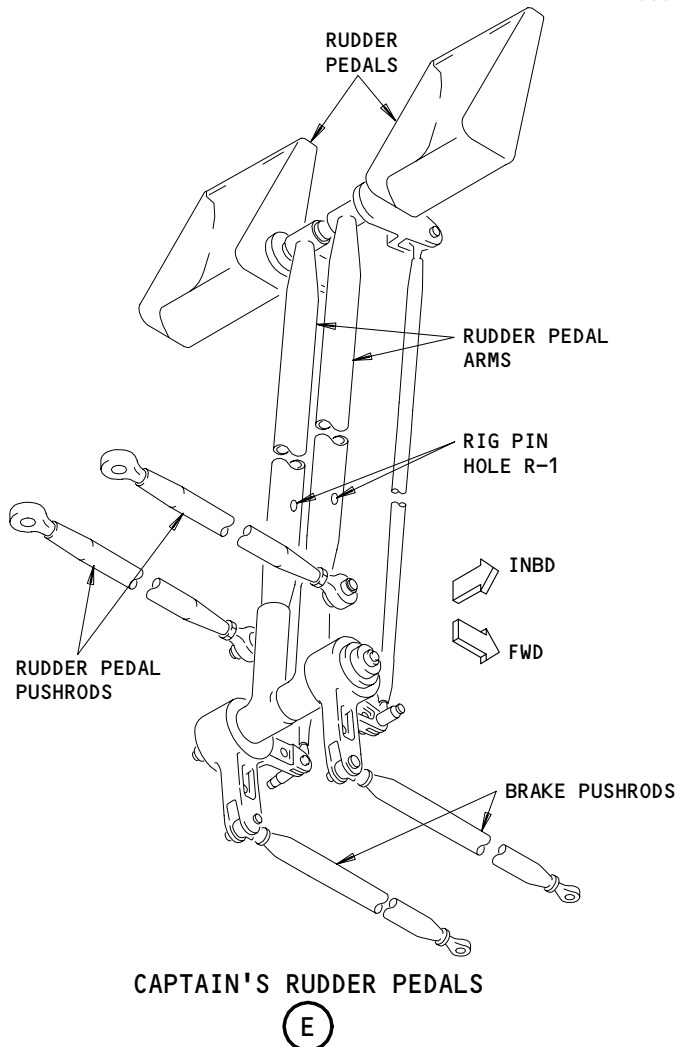
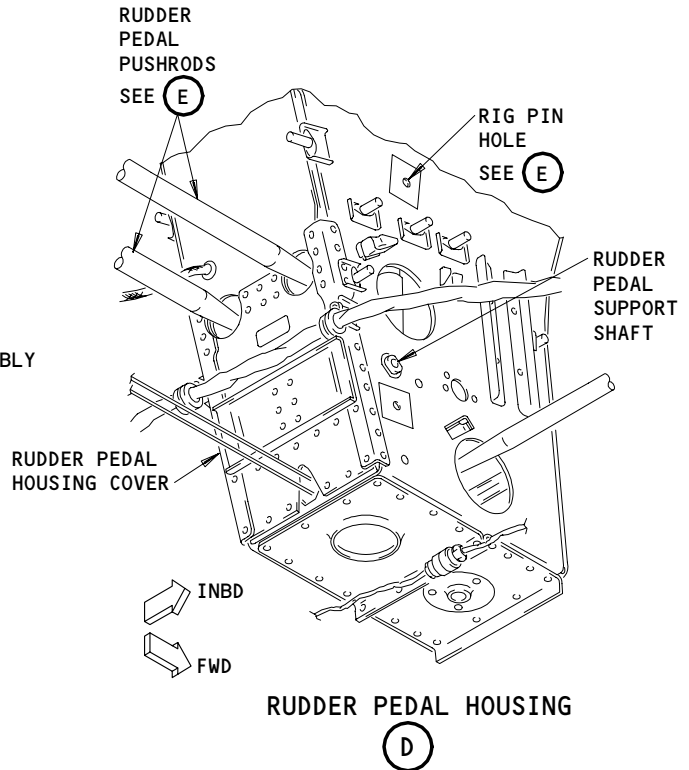
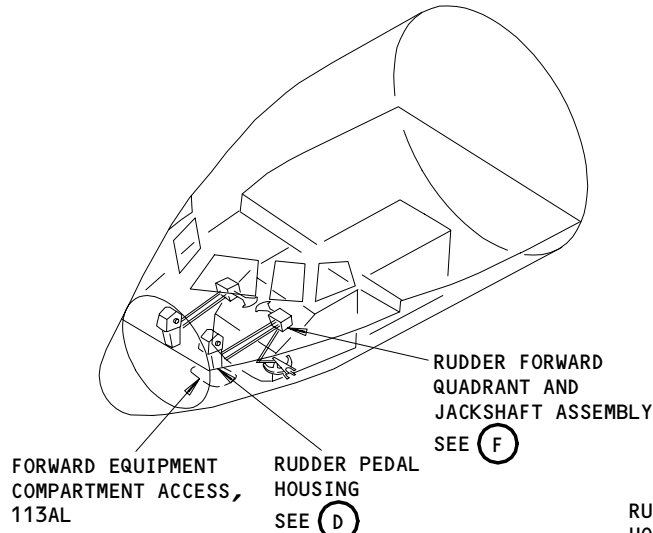
### FAULT ISOLATION/MAINT MANUAL



Rudder and Rudder Trim Control System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	ALL
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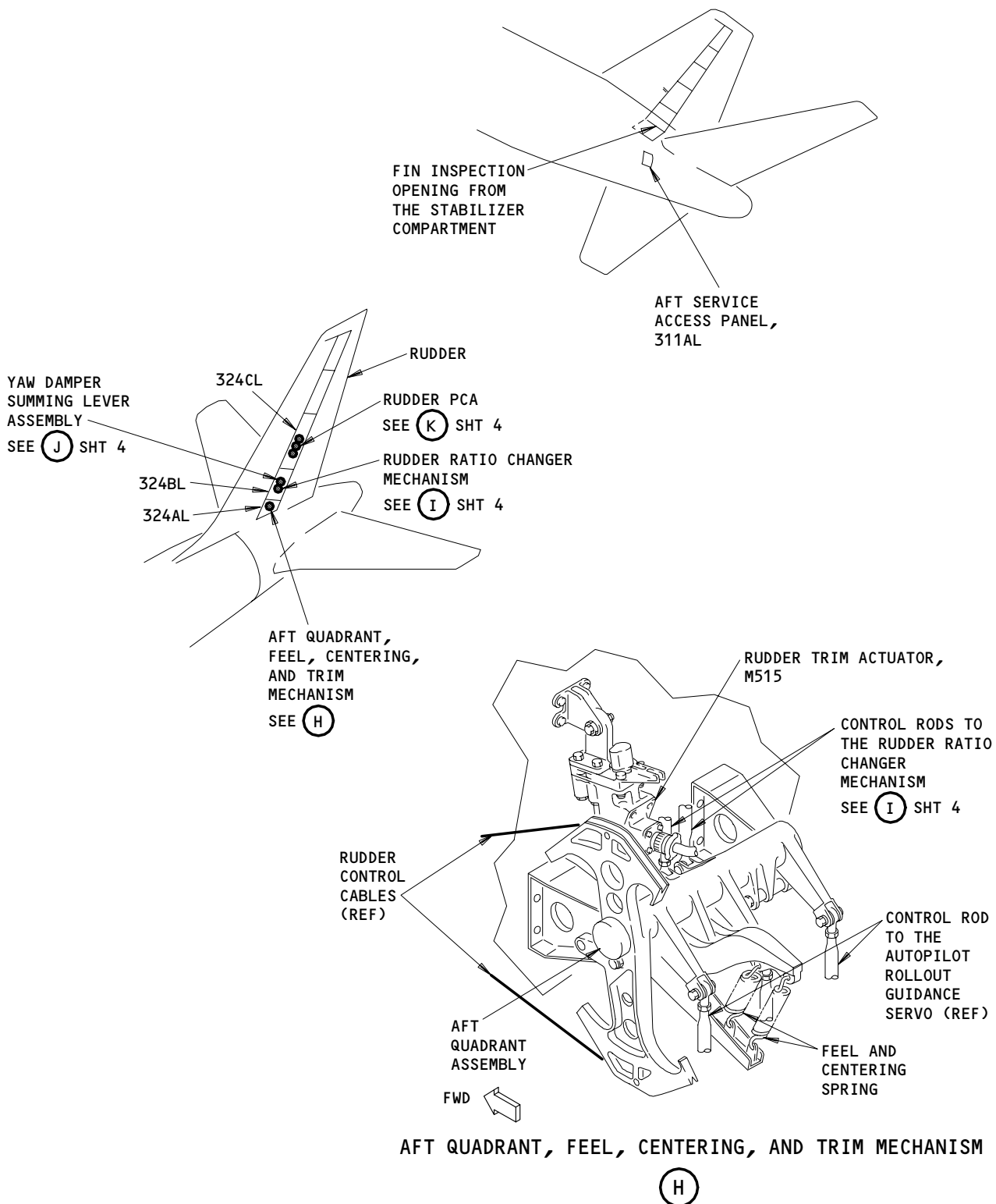
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Rudder and Rudder Trim Control System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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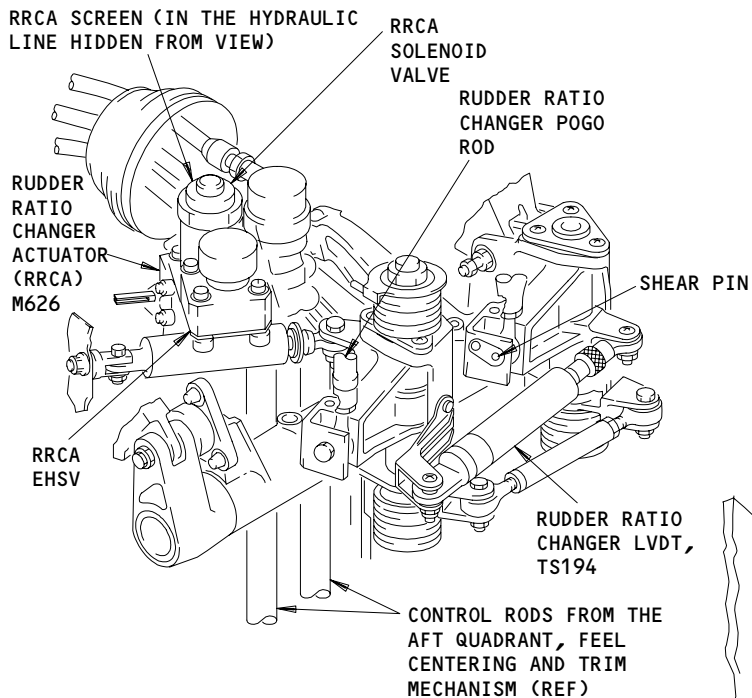
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Rudder and Rudder Trim Control System – Component Location  
Figure 102 (Sheet 3)

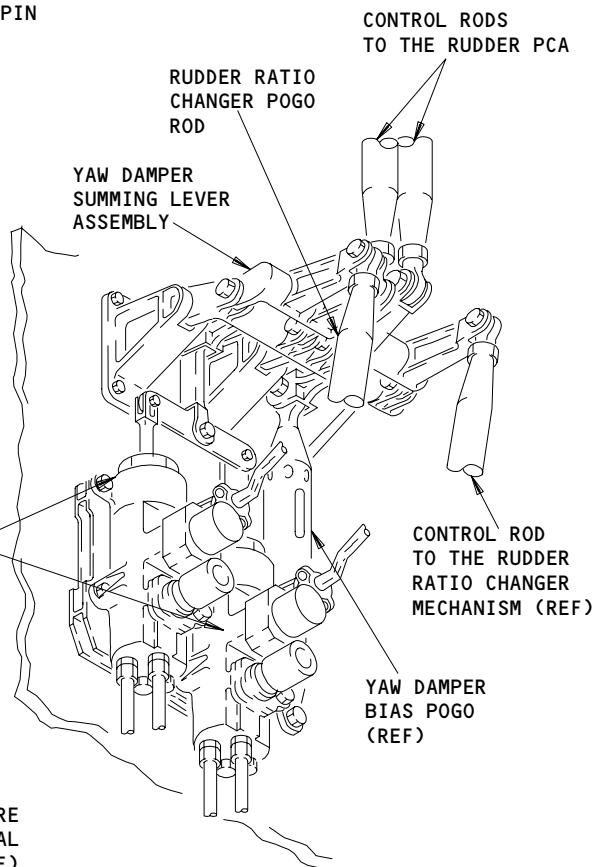
EFFECTIVITY	
	ALL

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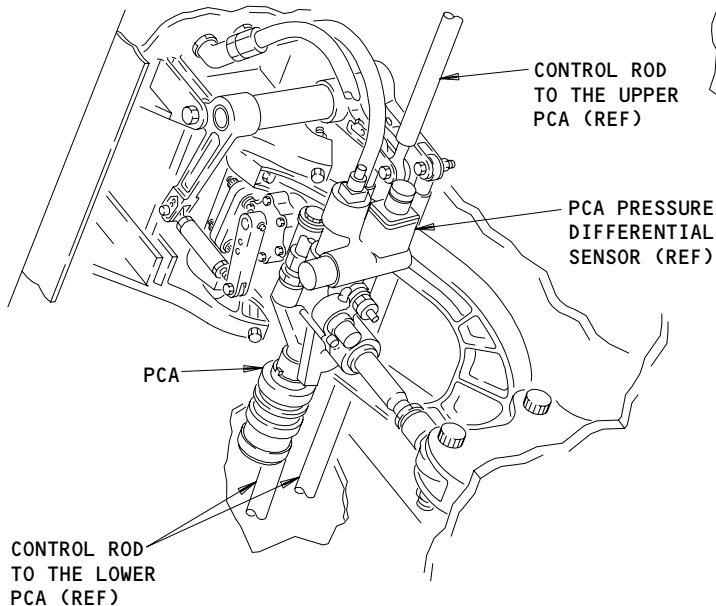
**RUDDER RATIO CHANGER MECHANISM**

**I**



**YAW DAMPER SUMMING LEVER ASSEMBLY**

**J**



**MIDDLE RUDDER POWER CONTROL ACTUATOR (PCA)**

**K**

**Rudder and Rudder Trim Control System - Component Location (Details from Sht 3)  
Figure 102 (Sheet 4)**

EFFECTIVITY

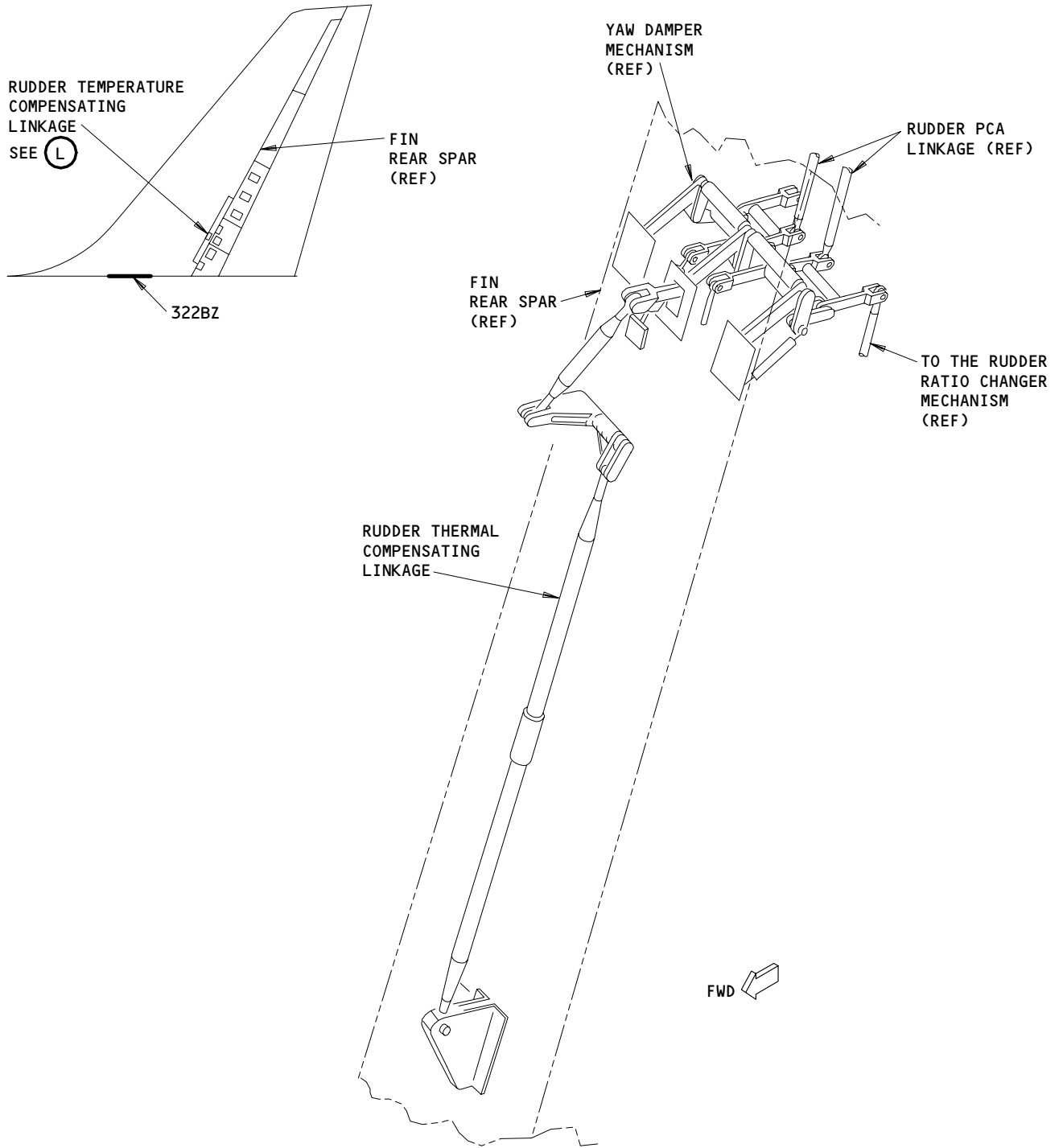
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**27-21-00**

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Page 106  
Jun 20/92

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



RUDDER TEMPERATURE COMPENSATING LINKAGE

(L)

Rudder and Rudder Trim Control System – Component Location  
Figure 102 (Sheet 5)

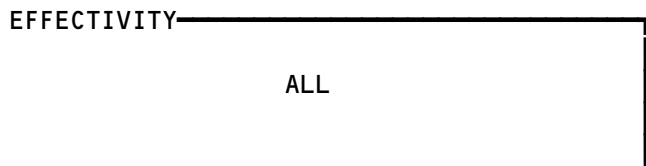
EFFECTIVITY	ALL
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27-21-00

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Page 107  
Jun 20/92

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Figure 103



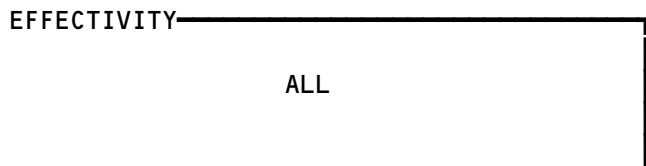
27-21-00

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Page 108  
Mar 20/96

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Figure 104



27-21-00

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Page 109  
Mar 20/96

70383



**PREREQUISITES**

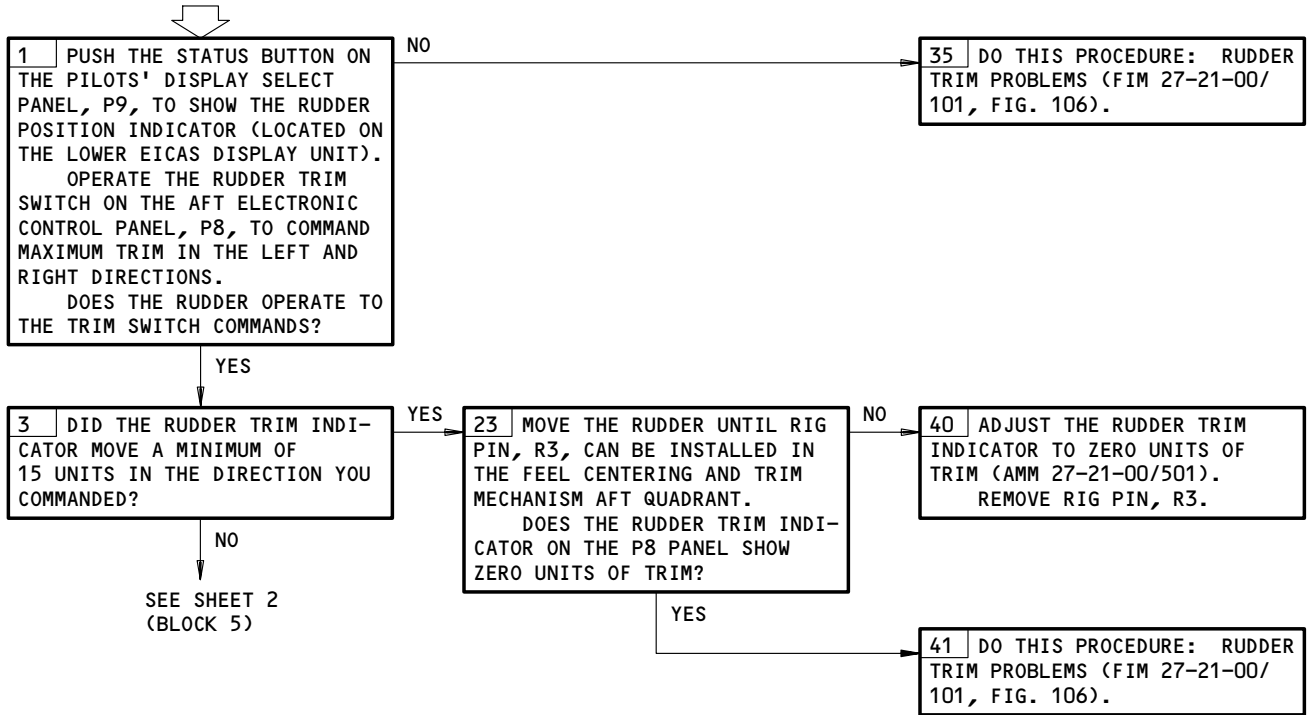
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6,11C7,11C8,11C9,11C10,11D18 OR 11G10,11G17,  
11G18,11G27,11G28,11J16,11J17

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**RUDDER TRIM INDICATION PROBLEMS**



Rudder Trim Indication Problems  
Figure 105 (Sheet 1)

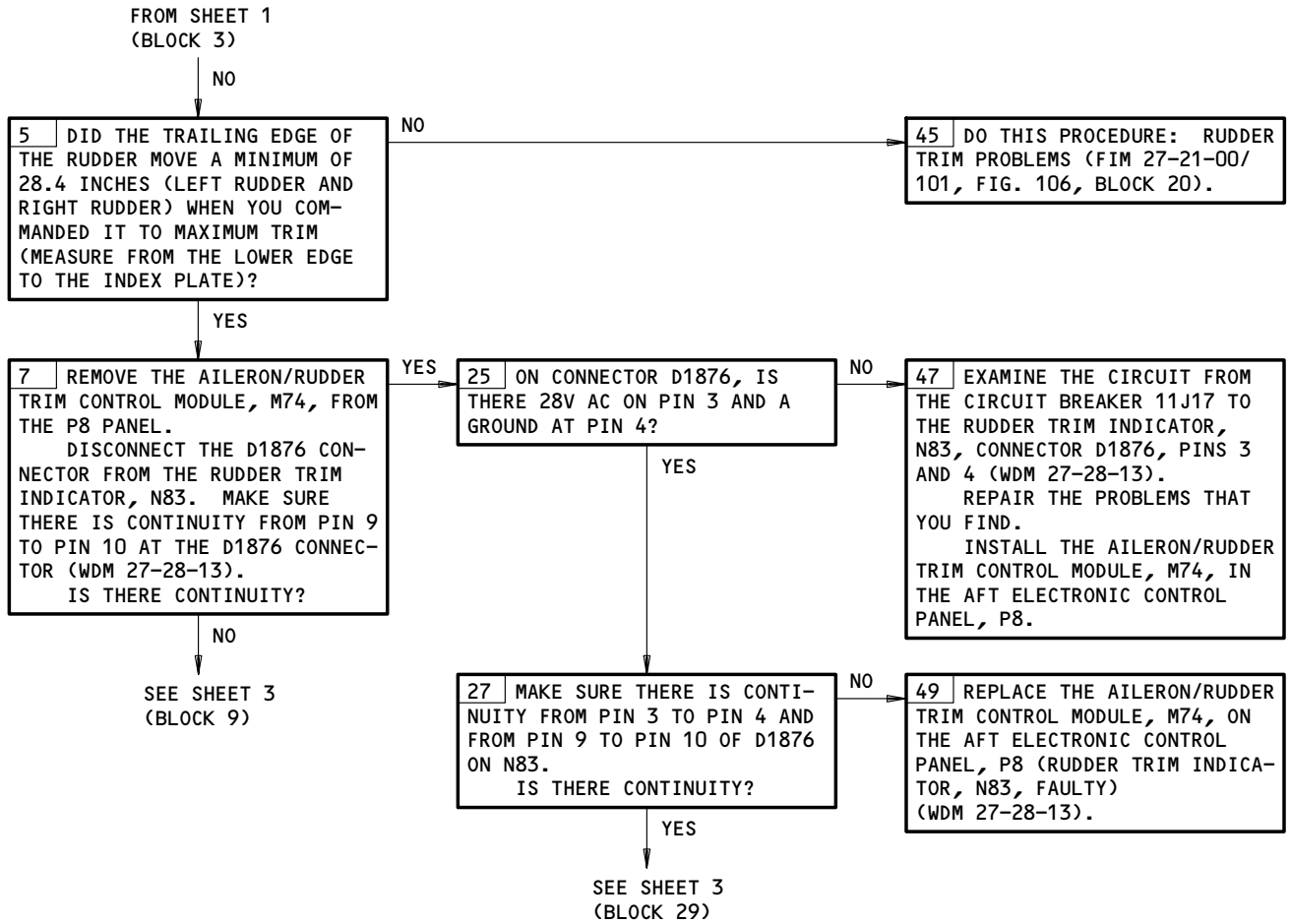
EFFECTIVITY

ALL

**27-21-00**

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Page 110  
Mar 20/94



Rudder Trim Indication Problems  
Figure 105 (Sheet 2)

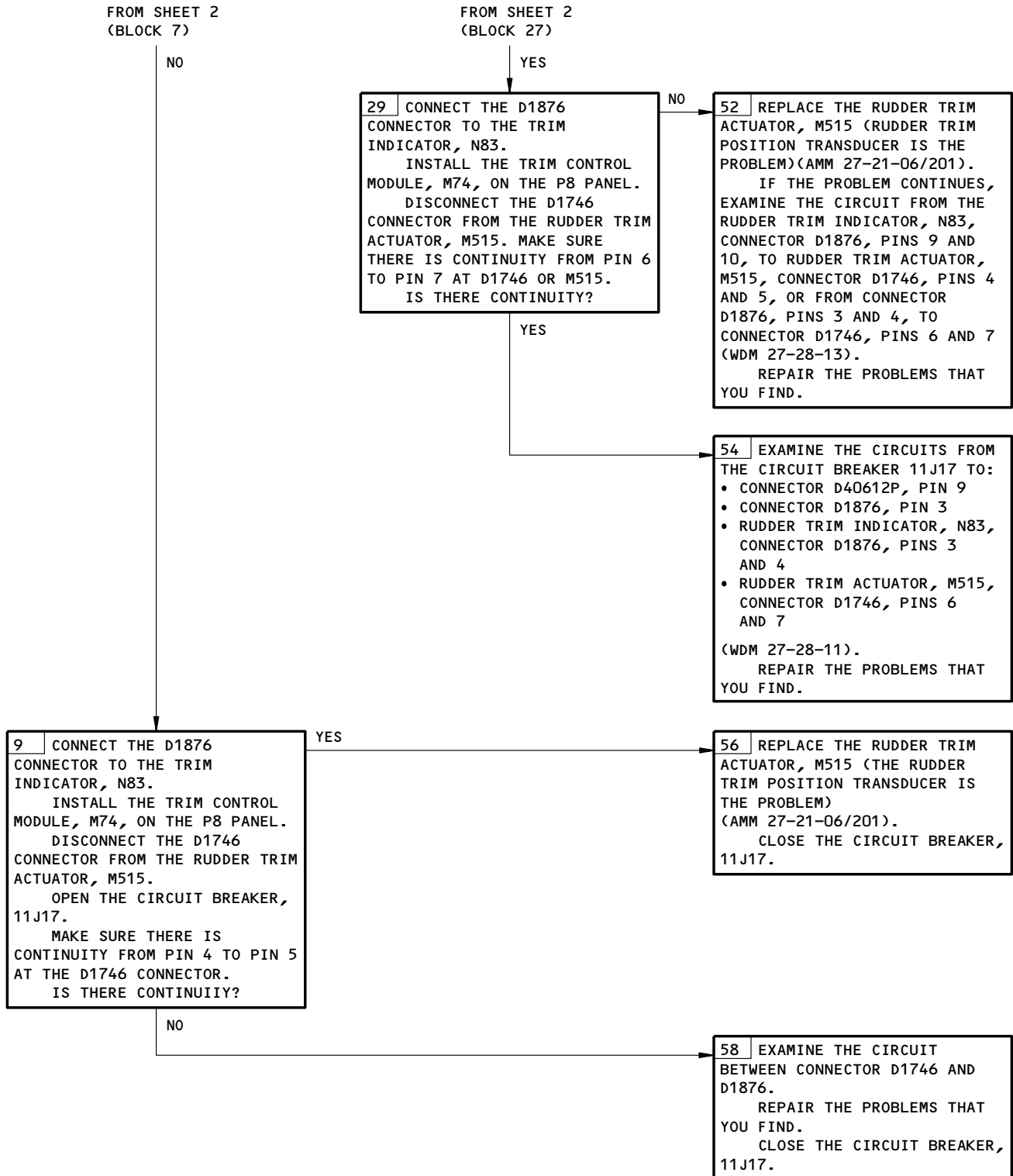
EFFECTIVITY

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ALL

27-21-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Rudder Trim Indication Problems  
Figure 105 (Sheet 3)

EFFECTIVITY

ALL
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27-21-00

**PREREQUISITES**

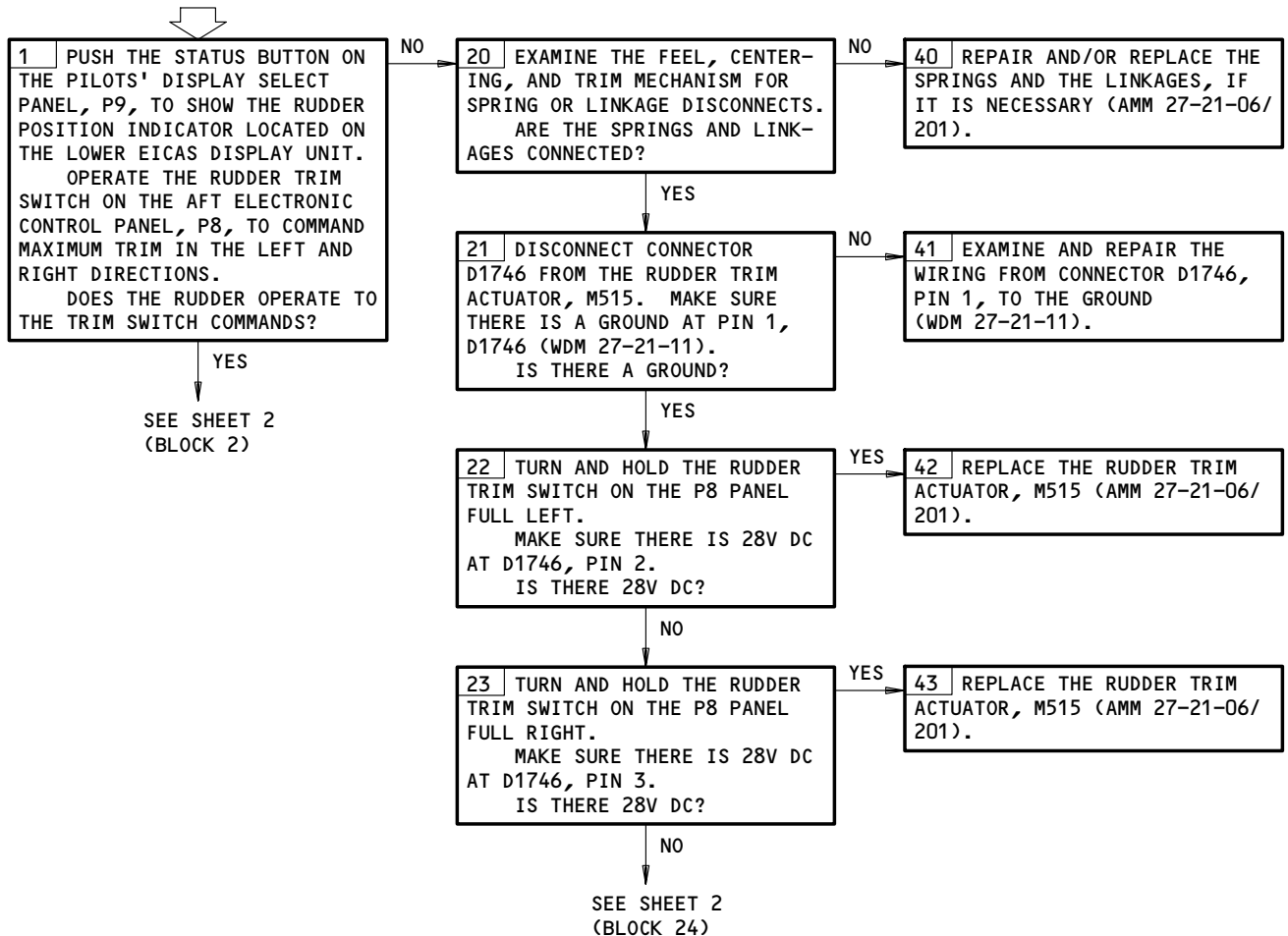
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6,11C7,11C8,11C9,11C10,11D180R 11G10,11G17,  
11G18,11G27,11G28,11J16,11J17

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**RUDDER TRIM PROBLEMS**



Rudder Trim Problems  
Figure 106 (Sheet 1)

EFFECTIVITY

ALL

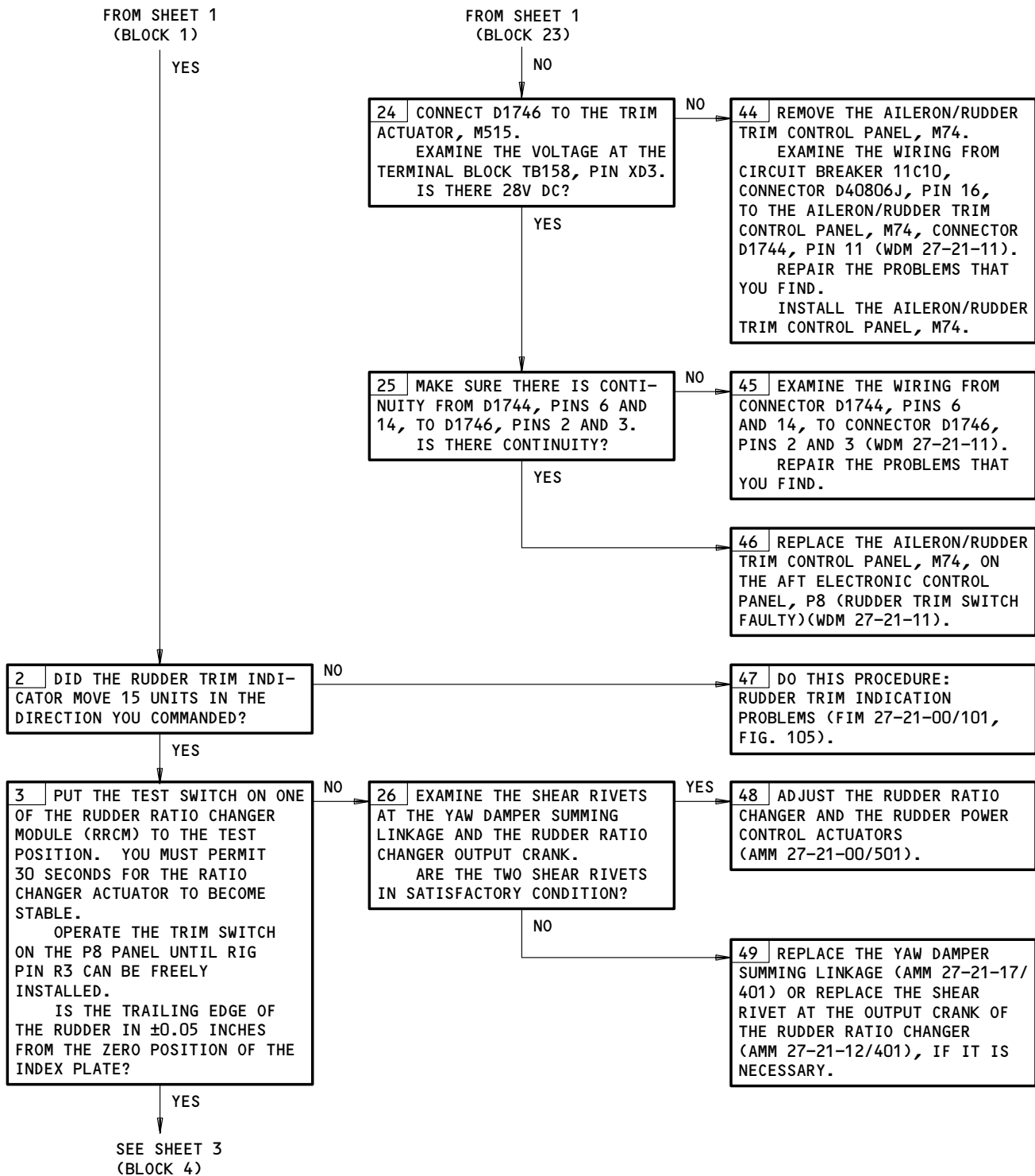
27-21-00

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Page 113  
Sep 20/94

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

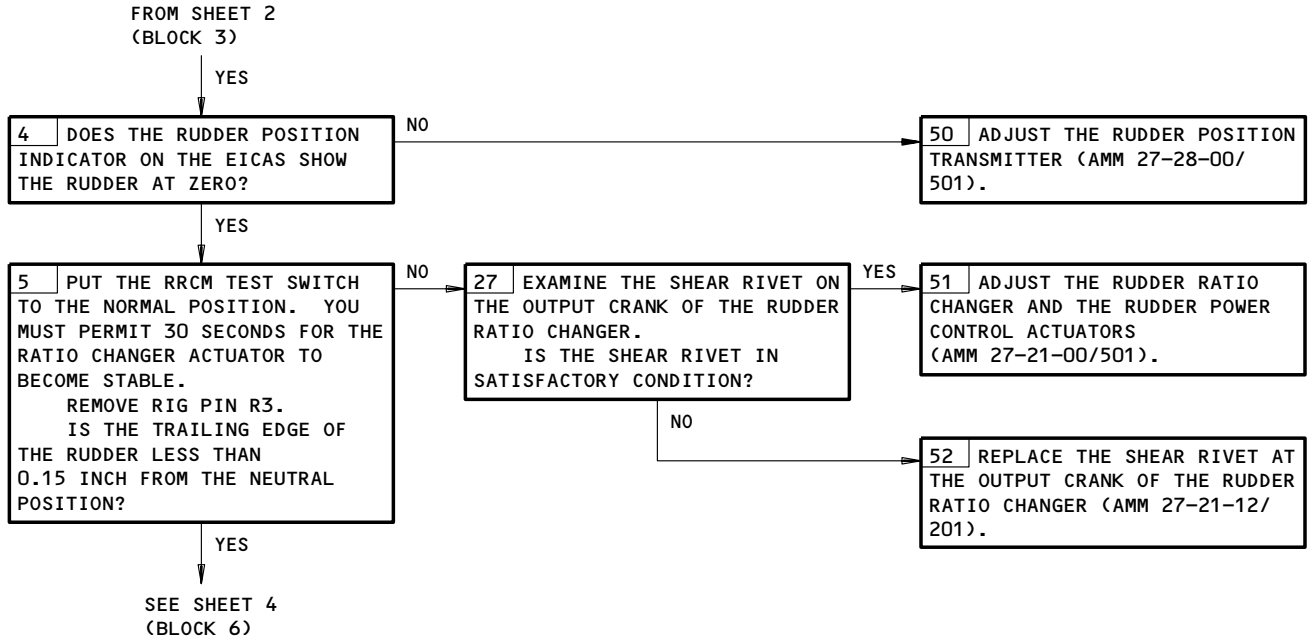


Rudder Trim Problems  
Figure 106 (Sheet 2)

EFFECTIVITY

ALL

27-21-00



Rudder Trim Problems  
Figure 106 (Sheet 3)

EFFECTIVITY ————

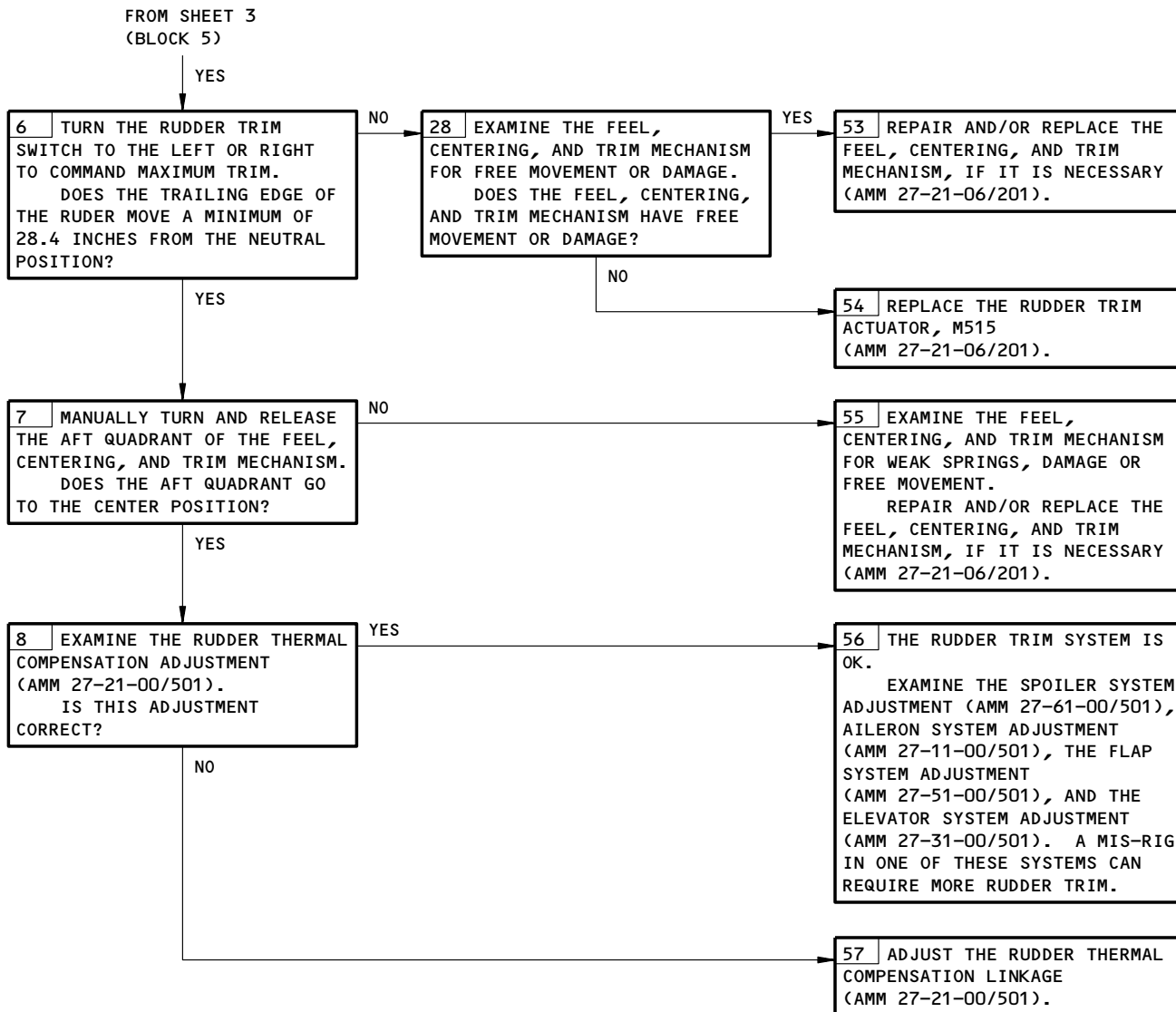
ALL

27-21-00

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Page 115  
Sep 20/98

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Rudder Trim Problems  
Figure 106 (Sheet 4)

EFFECTIVITY

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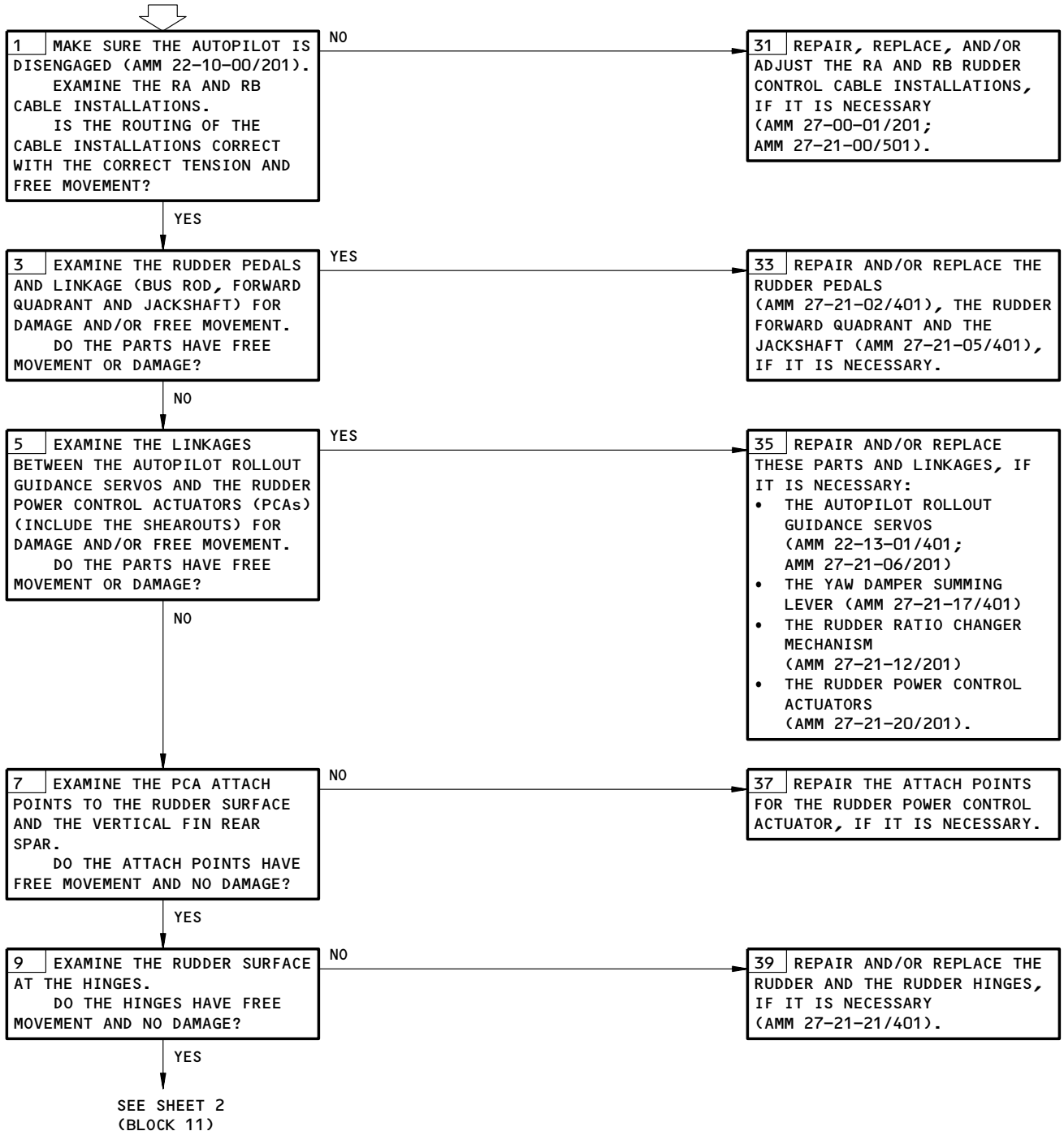
ALL

27-21-00

**RUDDER CONTROLS  
BINDING OR JAMMED**

**PREREQUISITES**

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
HYDRAULIC POWER IS REMOVED (AMM 29-11-00/201)



Rudder Controls Binding or Jammed  
Figure 107 (Sheet 1)

EFFECTIVITY

ALL

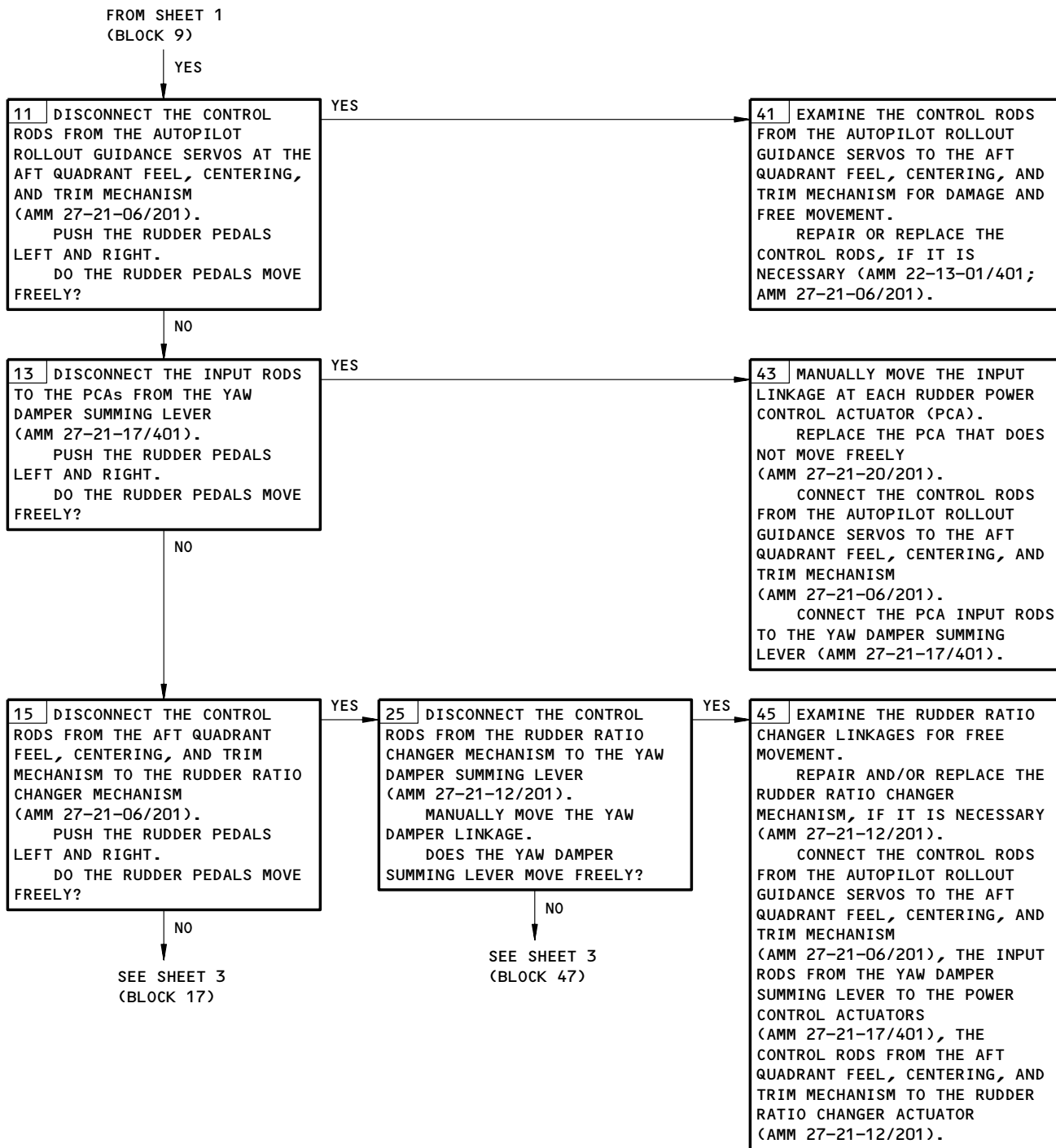
**27-21-00**

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Page 117  
Sep 28/04

70512





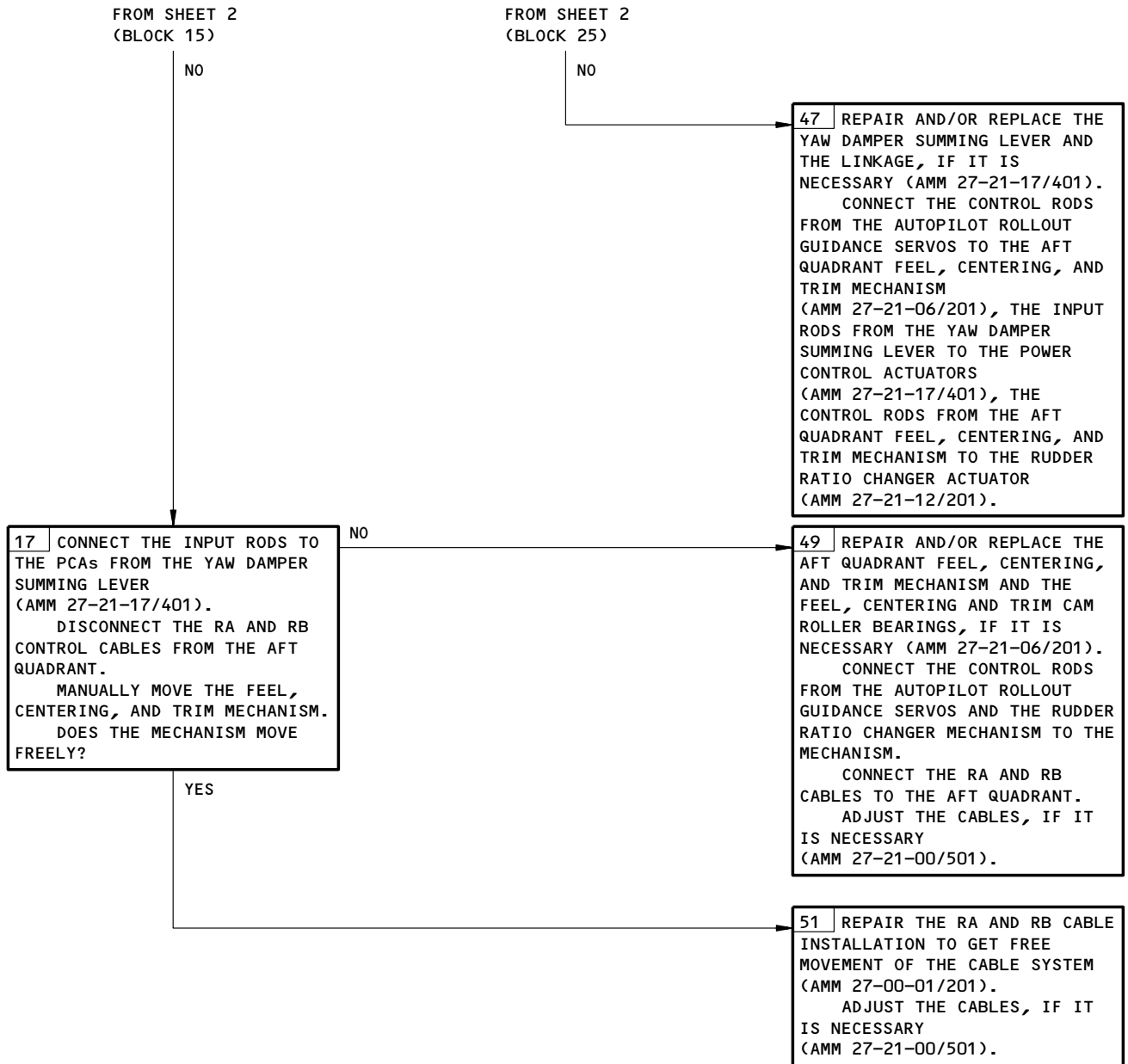
Rudder Controls Binding or Jammed  
Figure 107 (Sheet 2)

EFFECTIVITY

ALL

27-21-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Rudder Controls Binding or Jammed  
Figure 107 (Sheet 3)

EFFECTIVITY

ALL
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27-21-00

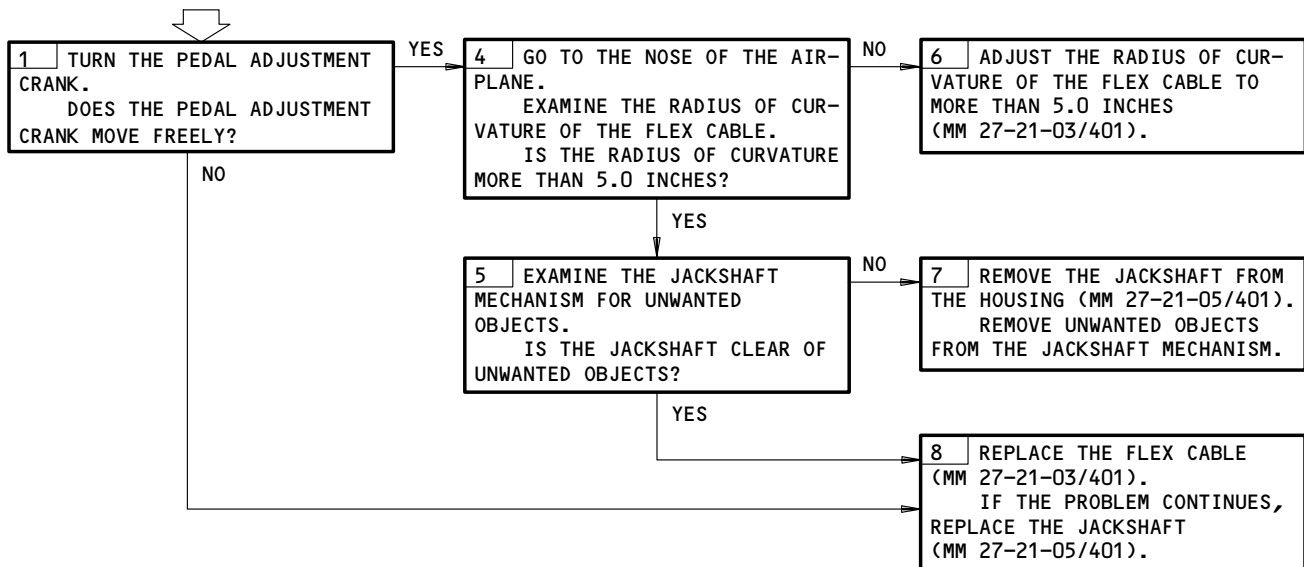
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Page 119  
Sep 28/04

98730

**RUDDER PEDAL  
ADJUSTMENT PROBLEMS**

**PREREQUISITES**  
NONE



Rudder Pedal Adjustment Problems  
Figure 108

EFFECTIVITY ————  
ALL

**27-21-00**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11D18 OR 11G10, 11J10, 11J11, 11J16

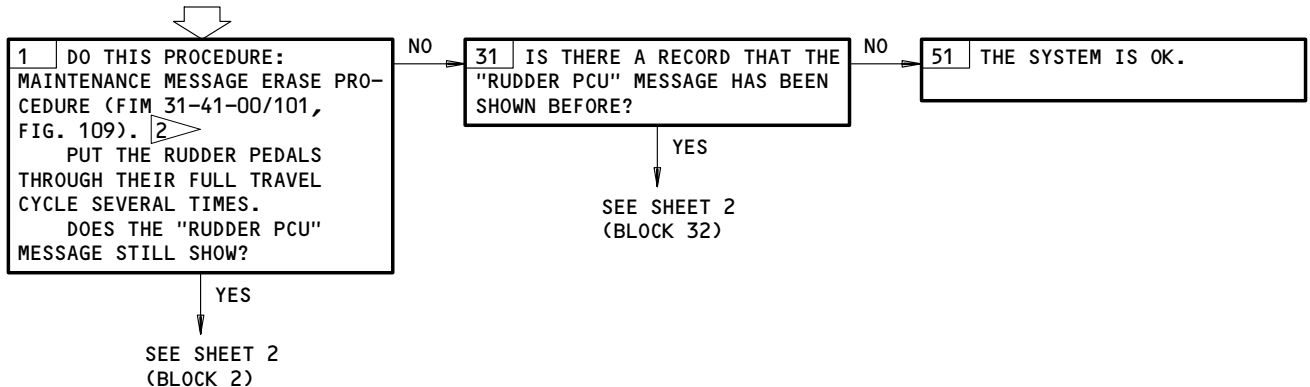
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

EQUIPMENT:  
TEST BOX, RUDDER ELEVATOR PCU MONITOR SYSTEM -  
B27061

NOTE: IF THE TEST BOX IS NOT AVAILABLE, YOU CAN  
USE THREE 750-OHM, 10-WATT RESISTORS.

WARNING: KEEP PERSONS AND EQUIPMENT AWAY FROM ALL  
CONTROL SURFACES WHEN THE HYDRAULIC POWER IS  
SUPPLIED. AILERONS, ELEVATORS, RUDDER,  
FLAPS, SLATS, SPOILERS AND STABILIZER ARE  
FULLY POWERED SURFACES. INJURIES TO PERSONS  
OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN  
HYDRAULIC POWER IS SUPPLIED.

**EICAS MESSAGE  
"RUDDER PCU"  
DISPLAYED**



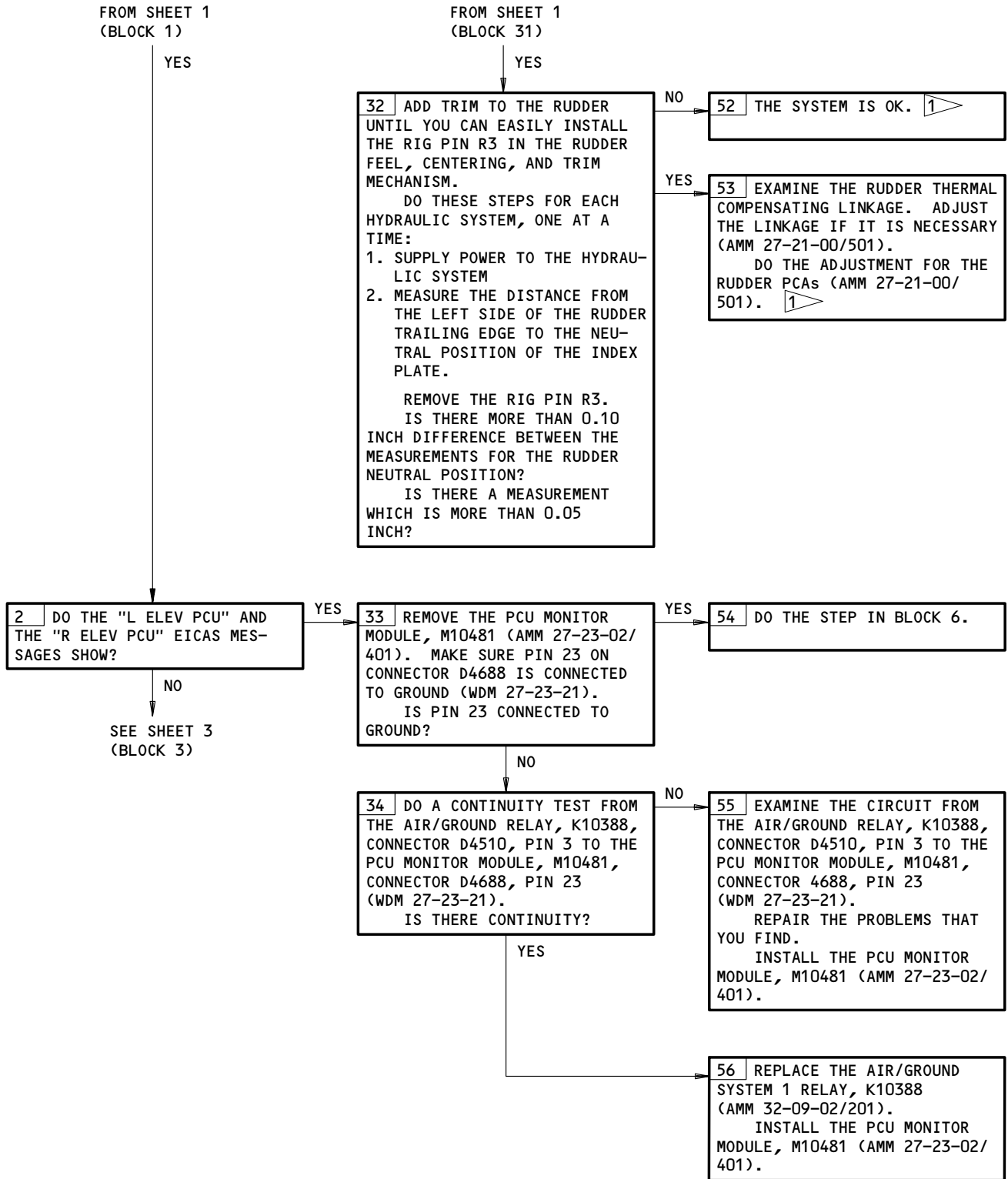
- 1 THERE CAN BE AN INTERMITTENT ELECTRICAL PROBLEM IN THE PCA SENSORS, PCU MONITOR MODULE, THE WIRING OR CONNECTORS. IF IT IS NECESSARY, YOU CAN DO CONTINUITY CHECKS (WDM 27-23-21).
- 2 IF A "RUDDER PCU" EICAS MESSAGE IS SHOWN AND A "YD ACT" FAULT ON THE RIGHT YAW DAMPER MODULE OCCUR DURING THE SAME FLIGHT, DO THE PROCEDURE FOR THE "YD ACT" MESSAGE FIRST (FIM 22-21-00/101). IF THE "YD ACT" MESSAGE GOES OFF WHEN YOU REPLACE THE RUDDER HYDRAULIC FUSE FOR THE CENTER HYDRAULIC SYSTEM, THE "RUDDER PCU" MESSAGE CAN GO OFF ALSO.

EICAS Message RUDDER PCU Displayed  
Figure 109 (Sheet 1)

EFFECTIVITY	ALL
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27-21-00

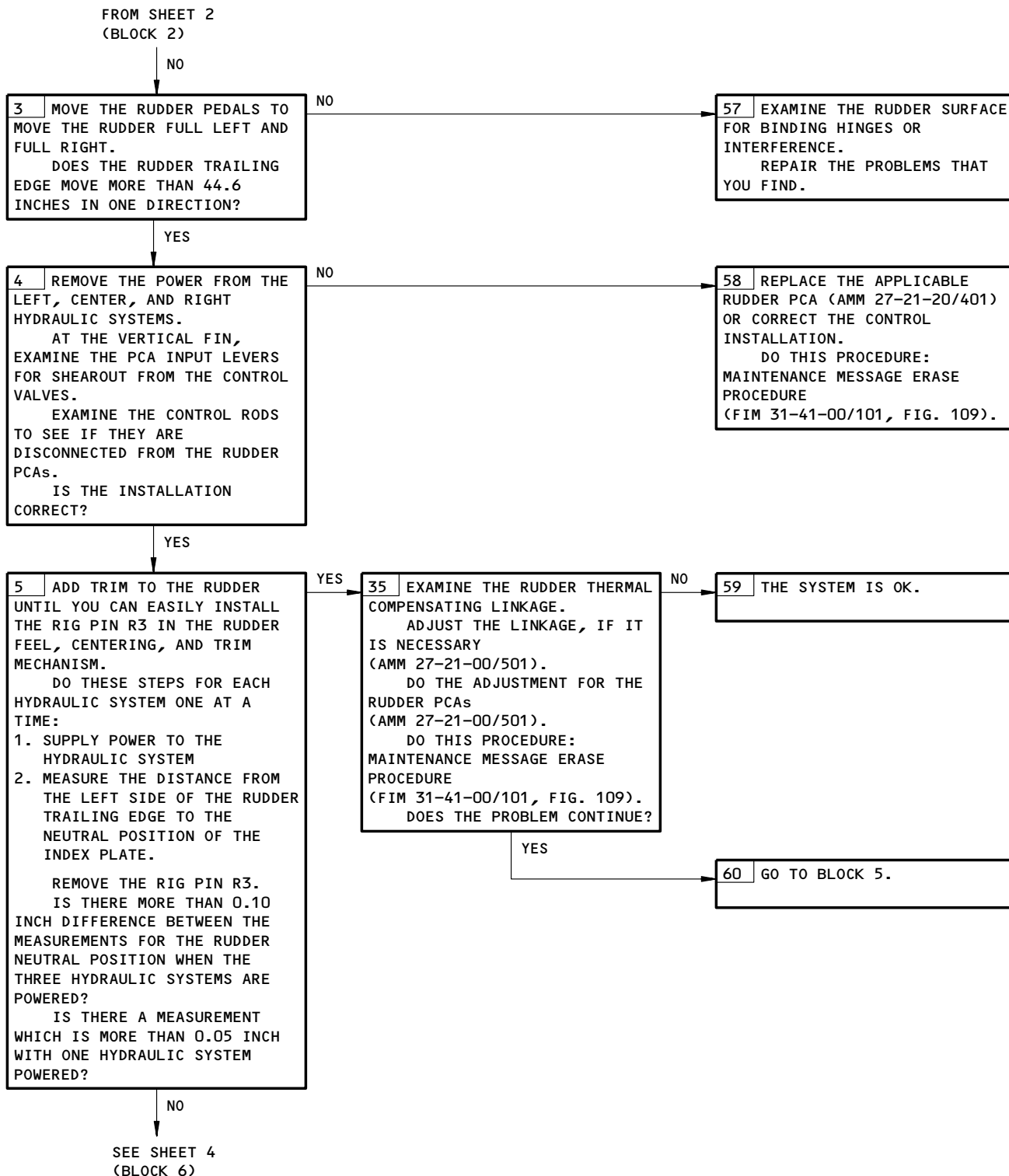
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



EICAS Message RUDDER PCU Displayed  
Figure 109 (Sheet 2)

EFFECTIVITY	ALL
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27-21-00

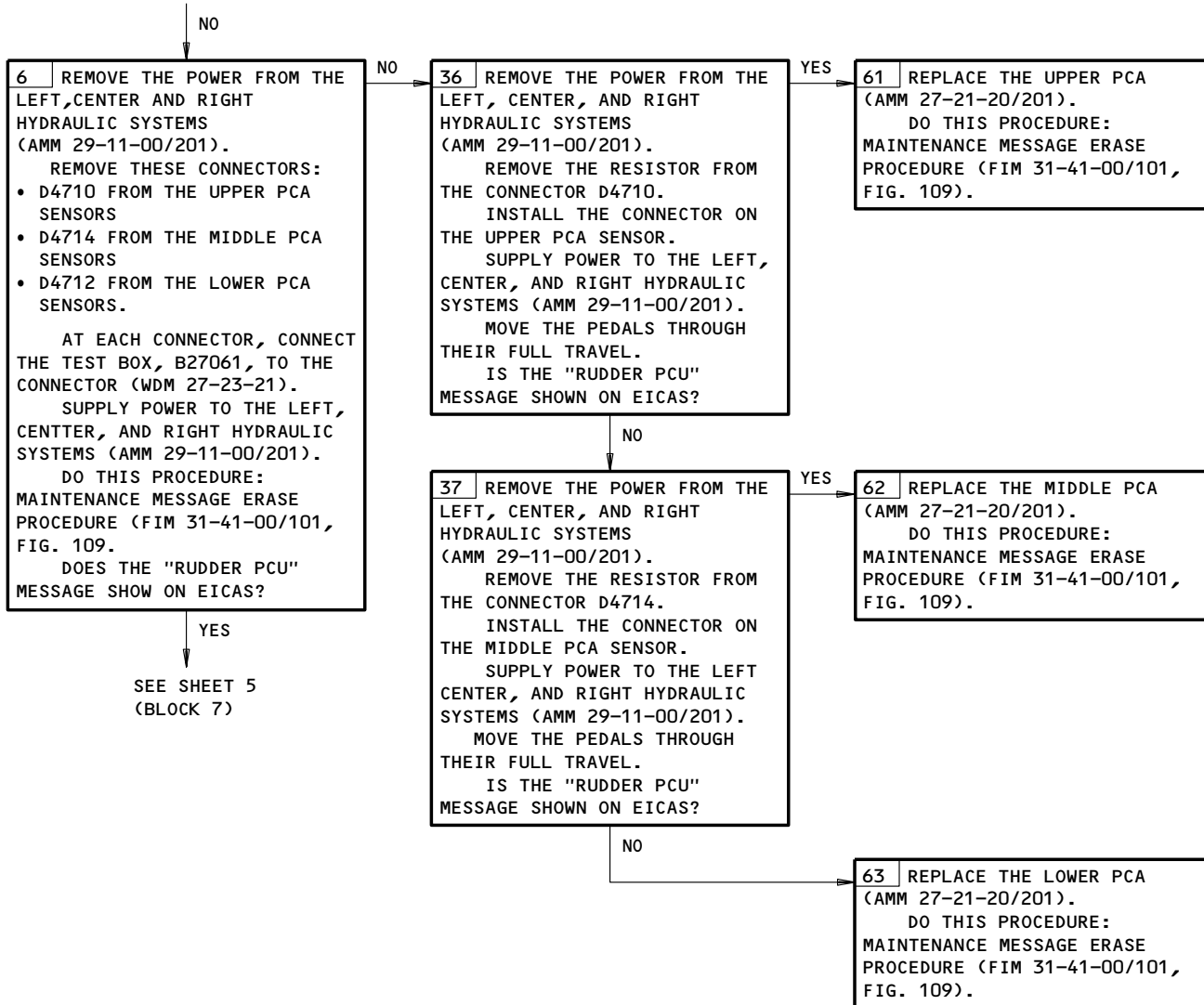


EICAS Message RUDDER PCU Displayed  
Figure 109 (Sheet 3)

EFFECTIVITY	ALL
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27-21-00

FROM SHEET 3  
(BLOCK 5)



EICAS Message RUDDER PCU Displayed  
Figure 109 (Sheet 4)

EFFECTIVITY

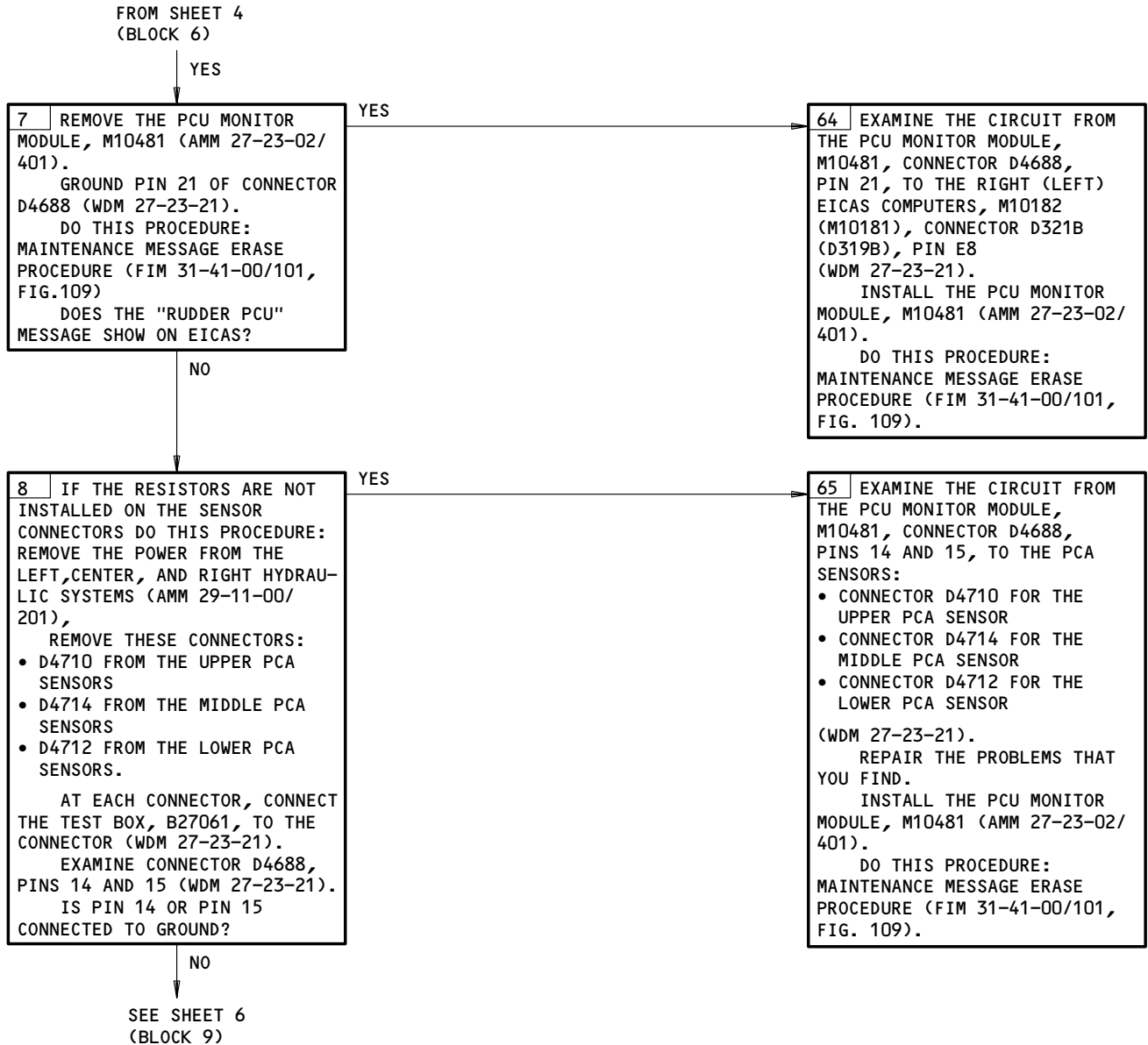
ALL

27-21-00

01

Page 124  
Jun 20/95

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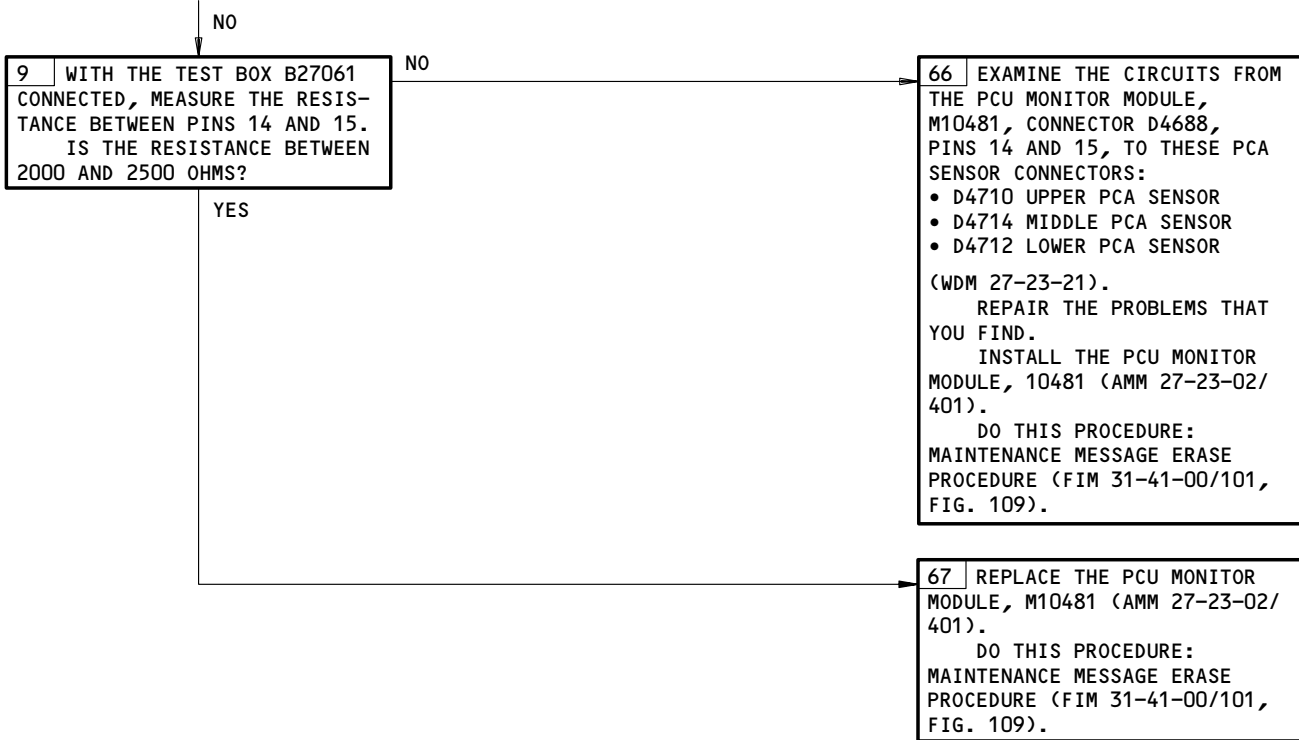
EICAS Message RUDDER PCU Displayed  
Figure 109 (Sheet 5)

EFFECTIVITY	ALL
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27-21-00



FROM SHEET 5  
(BLOCK 8)



EICAS Message RUDDER PCU Displayed  
Figure 109 (Sheet 6)

EFFECTIVITY	ALL
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**27-21-00**

B49021

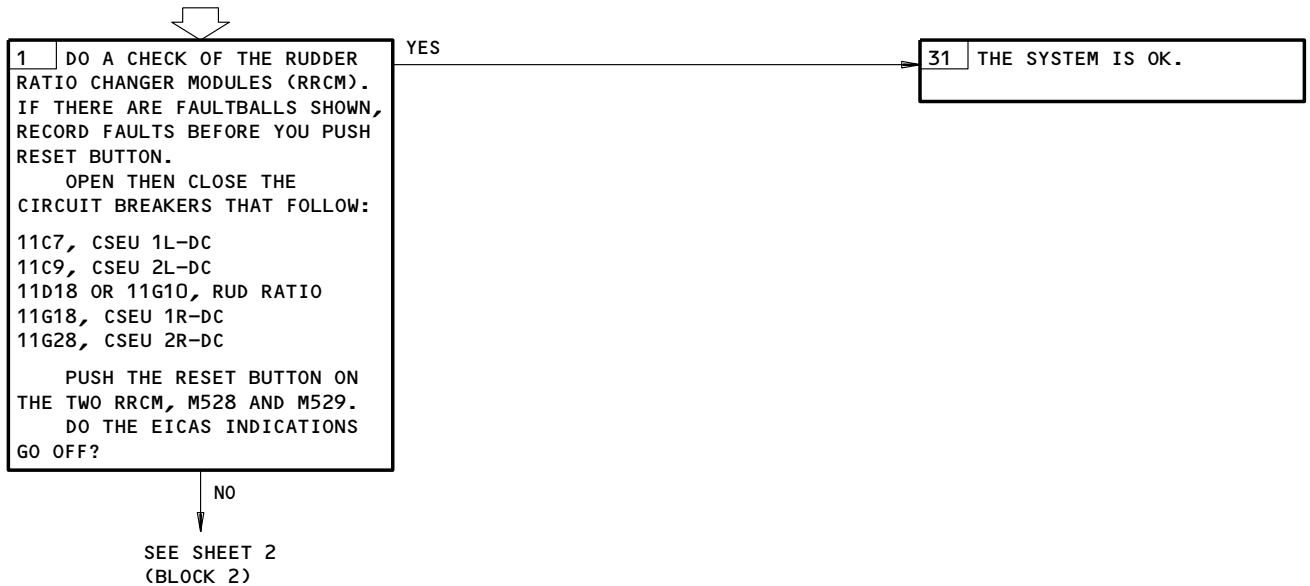
**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 11C5 OR 11H11, 11C6, 11C7, 11C8, 11C9, 11D18 OR 11G10,  
 11G17, 11G18, 11G27, 11G28, 11H20

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
 ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
 LEFT HYDRAULIC POWER SYSTEM IS ON (AMM 29-11-00/201)

"RUDDER RATIO"  
 LGT ILLUM ON THE  
 GROUND/IN FLIGHT.  
 EICAS MESSAGE  
 "RUDDER RATIO"  
 DISPLAYED.

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

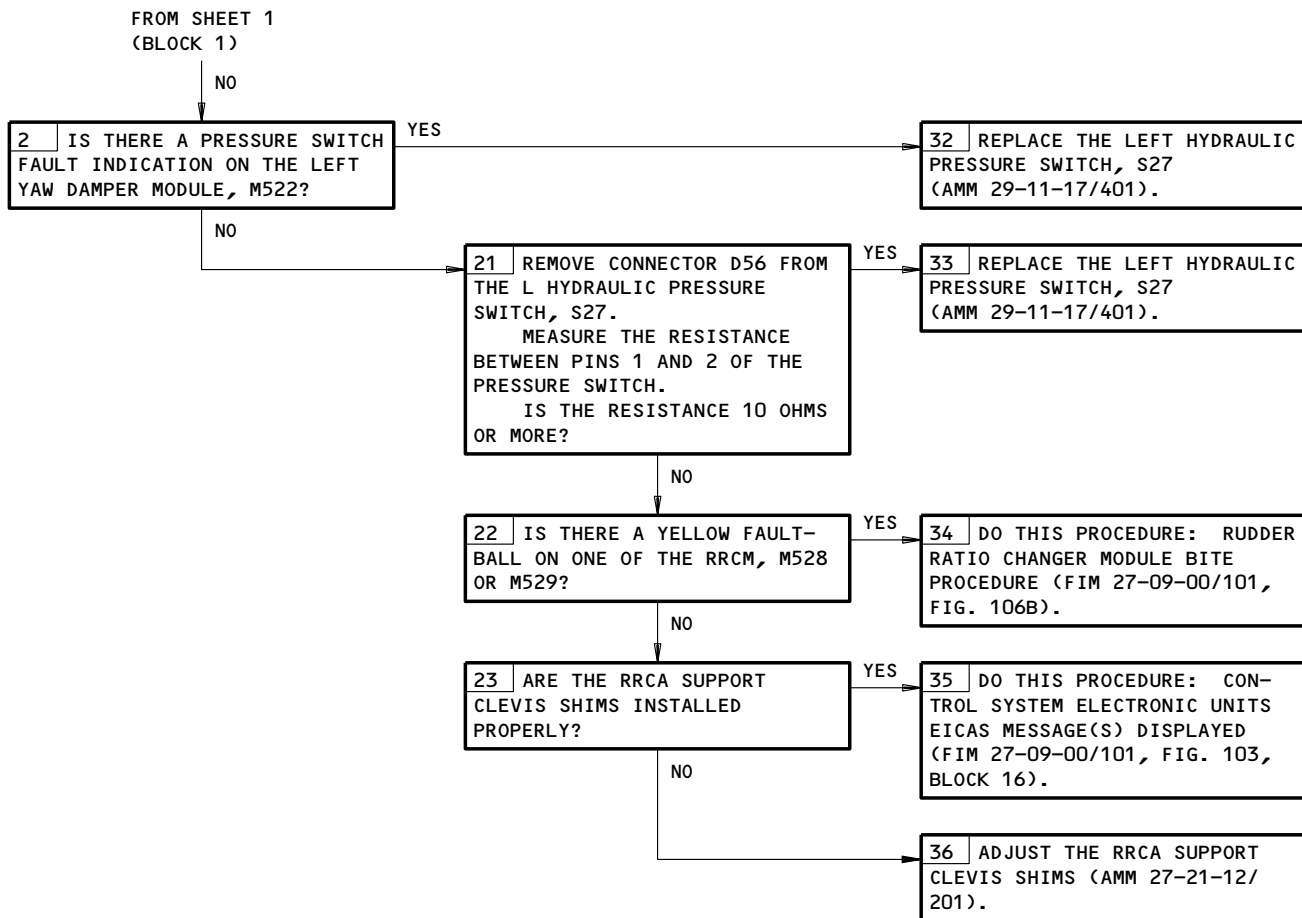


RUDDER RATIO Light Illuminated on the Ground/In Flight.  
 EICAS Message RUDDER RATIO Displayed.  
 Figure 110 (Sheet 1)

EFFECTIVITY	ALL
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27-21-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



RUDDER RATIO Light Illuminated on the Ground/In Flight.  
EICAS Message RUDDER RATIO Displayed.  
Figure 110 (Sheet 2)

EFFECTIVITY

ALL
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27-21-00

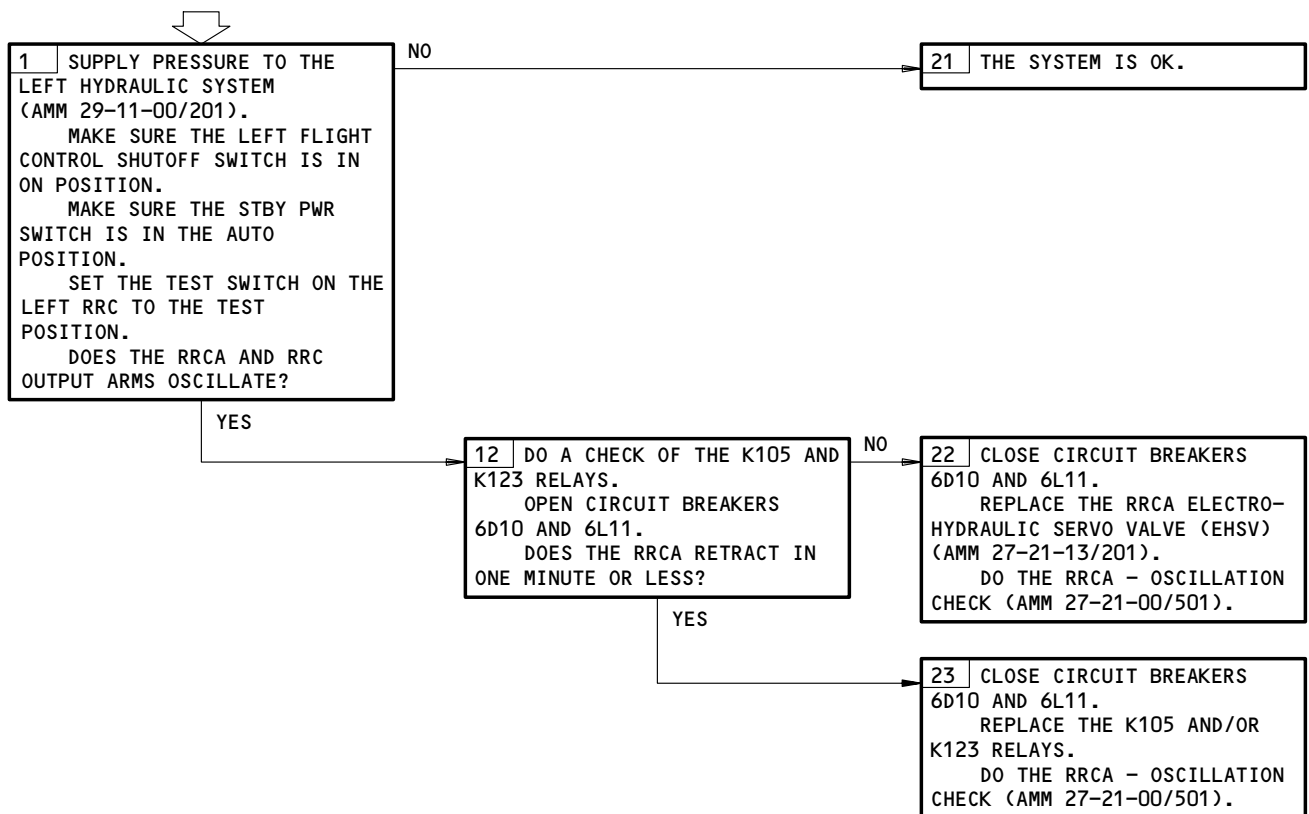
**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6,11C7,11C8,11C9,11D18 OR 11G10,11G17,11G18,  
11G27,11G28,11H17

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

**OSCILLATION OF THE RRCA OR RUDDER TRAILING EDGE**



Oscillation of the RRCA or Rudder Trailing Edge  
Figure 111

EFFECTIVITY	ALL
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**27-21-00**

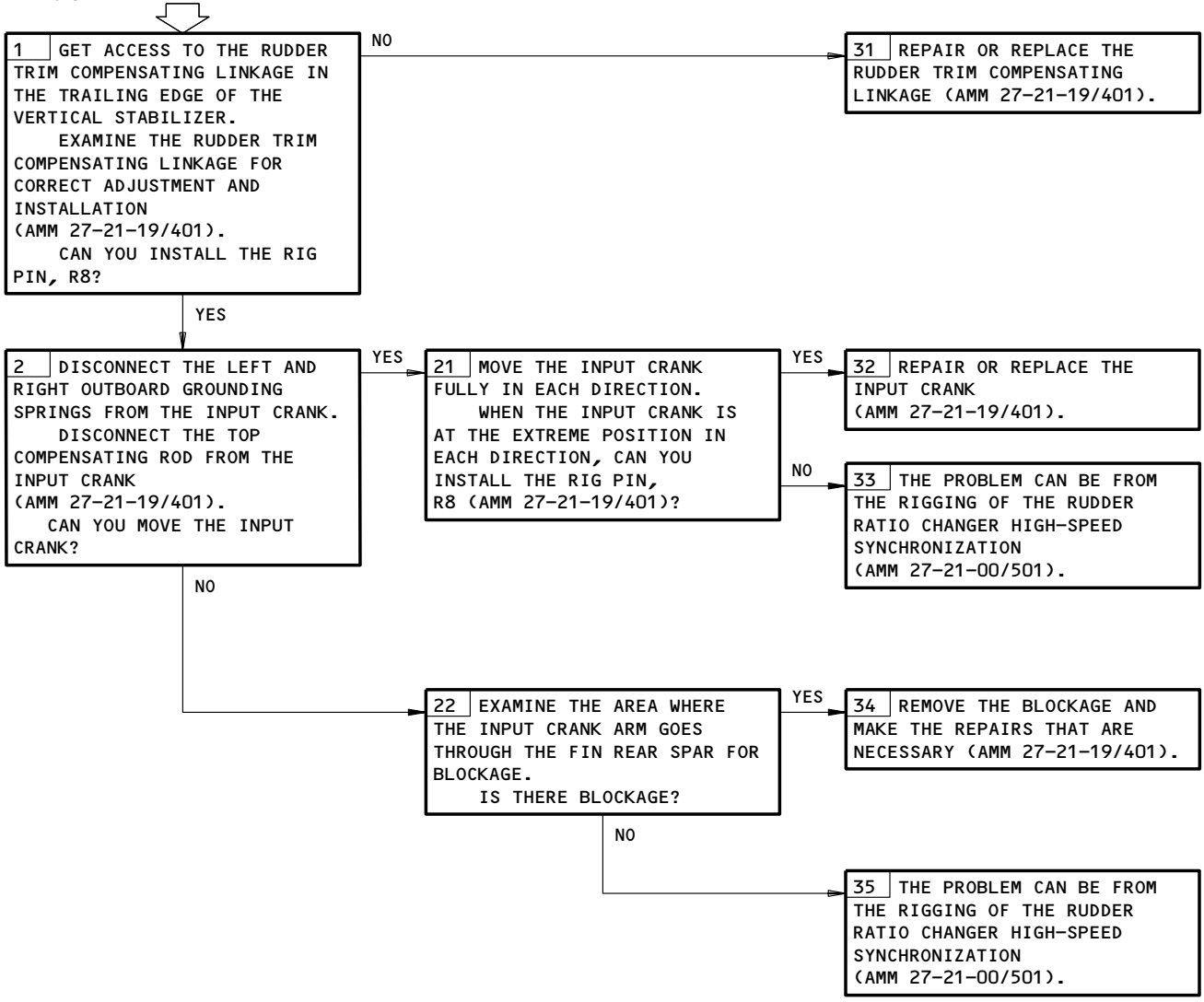
E84267

AIRPLANE HAS THE  
RUDDER TRIM  
COMPENSATING LINKAGE  
BUT TRIM ADJUSTMENT  
IS STILL NECESSARY  
DURING A CLIMB OR  
DESCENT

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11A18, 11F34, 11G10, 11H17, 11H18, 11H27

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



Airplane Has the Rudder Trim Compensating Linkage but Trim Adjustment Is Still Necessary During a Climb or Descent  
Figure 112

EFFECTIVITY	ALL
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27-21-00

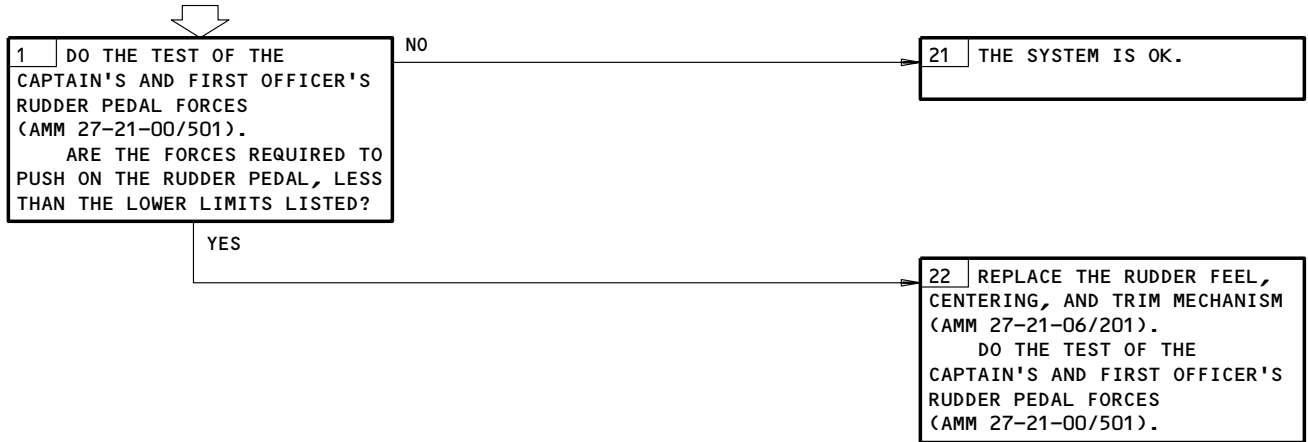
**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6, 11C7, 11C8, 11C9, 11D18 OR 11G10, 11H17,  
11H18, 11H27, 11G28, 11H17

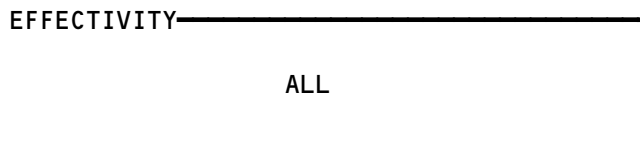
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

**RUDDER PEDAL FORCES LOW**



Rudder Pedal Forces Low  
Figure 113



**27-21-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

RUDDER AND ELEVATOR HYDRAULIC SYSTEMS

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKER	1		FLT COMPT, OVERHEAD PANEL (P11)	
AIR/GND SYS 1, C1182		1	11S15	*
AIR/GND SYS 2, C1170		1	11S19	*
FLT CONT SHUTOFF TAIL CTR, C4035		1	11H18	*
FLT CONT SHUTOFF TAIL LEFT, C4033		1	11H17	*
FLT CONT SHUTOFF TAIL RIGHT, C4034		1	11H28	*
LANDING GEAR POS SYS 1, C1175		1	11C30	*
PCU MON MOD, C4270		1	11J11	*
PCU MON SENSOR, C4283		1	11J10	*
POS SYS 2, C4279		1	11S23	*
COMPUTER - (REF 31-41-00, FIG. 101)				
L EICAS, M10181				
R EICAS, M10182				
FUSE - ELEVATOR CENTER HYDRAULIC SYSTEM	4	2	313AL, AFT FUSELAGE	*
FUSE - RUDDER CENTER HYDRAULIC SYSTEM	5	1	311AL, AFT FUSELAGE	*
MODULE - PCU MONITOR, M10481	1	1	119BL, MAIN EQUIP CTR, P50	27-23-02
PANEL - (REF 24-22-00, FIG. 101)				
GENERATOR FIELD AND HYDRAULIC CONTROL, M10191				
RELAY - (REF 32-09-00, FIG. 101)				
AIR/GND SYS 1, K199				
AIR/GND SYS 1, K10107				
AIR/GND SYS 1, K10388				
AIR/GND SYS 2, K203				
SENSOR - L ELEVATOR CENTER PCA PRESSURE DIFFERENTIAL, TS5208		1	335DB	27-31-05
SENSOR - L ELEVATOR INBOARD PCA PRESSURE DIFFERENTIAL, TS5207		1	335DB	27-31-05
SENSOR - L ELEVATOR OUTBOARD PCA PRESSURE DIFFERENTIAL, TS5206		1	335DB	27-31-05
SENSOR - LOWER RUDDER PCA PRESSURE DIFFERENTIAL, TS5204		1	324CL	27-21-20
SENSOR - MIDDLE RUDDER PCA PRESSURE DIFFERENTIAL, TS5205		1	324CL	27-21-20

\* SEE THE WDM EQUIPMENT LIST

Rudder and Elevator Hydraulic Systems - Component Index  
Figure 101 (Sheet 1)

EFFECTIVITY

ALL

**27-23-00**


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SENSOR - R ELEVATOR CENTER PCA PRESSURE DIFFERENTIAL, TS5202		1	345DB	27-31-05
SENSOR - R ELEVATOR INBOARD PCA PRESSURE DIFFERENTIAL, TS5201		1	345DB	27-31-05
SENSOR - R ELEVATOR OUTBOARD PCA PRESSURE DIFFERENTIAL, TS5200		1	345DB	27-31-05
SENSOR - UPPER RUDDER PCA PRESSURE DIFFERENTIAL, TS5203		1	324CL	27-21-20
SWITCH - FLT CONTROL SHUTOFF C, S5	1	1	FLT COMPT, RIGHT SIDE PANEL (P61), GEN FIELD & HYD CONT PANEL M10191	*
SWITCH - FLT CONTROL SHUTOFF L, S4	1	1	FLT COMPT, RIGHT SIDE PANEL (P61), GEN FIELD & HYD CONT PANEL M10191	*
SWITCH - FLT CONTROL SHUTOFF R, S6	1	1	FLT COMPT, RIGHT SIDE PANEL (P61), GEN FIELD & HYD CONT PANEL M10191	*
VALVE - C SYSTEM RUDDER/ELEVATOR HYDRAULIC SHUTOFF, V102	2	1	LEFT MAIN GEAR WHEEL WELL, AFT BULKHEAD	27-23-01
VALVE - L SYSTEM RUDDER/ELEVATOR HYDRAULIC SHUTOFF, V103	2	1	LEFT MAIN GEAR WHEEL WELL, AFT BULKHEAD	27-23-01
VALVE - R SYSTEM RUDDER/ELEVATOR HYDRAULIC SHUTOFF, V101	2	1	RIGHT MAIN GEAR WHEEL WELL, AFT BULKHEAD	27-23-01

\* SEE THE WDM EQUIPMENT LIST

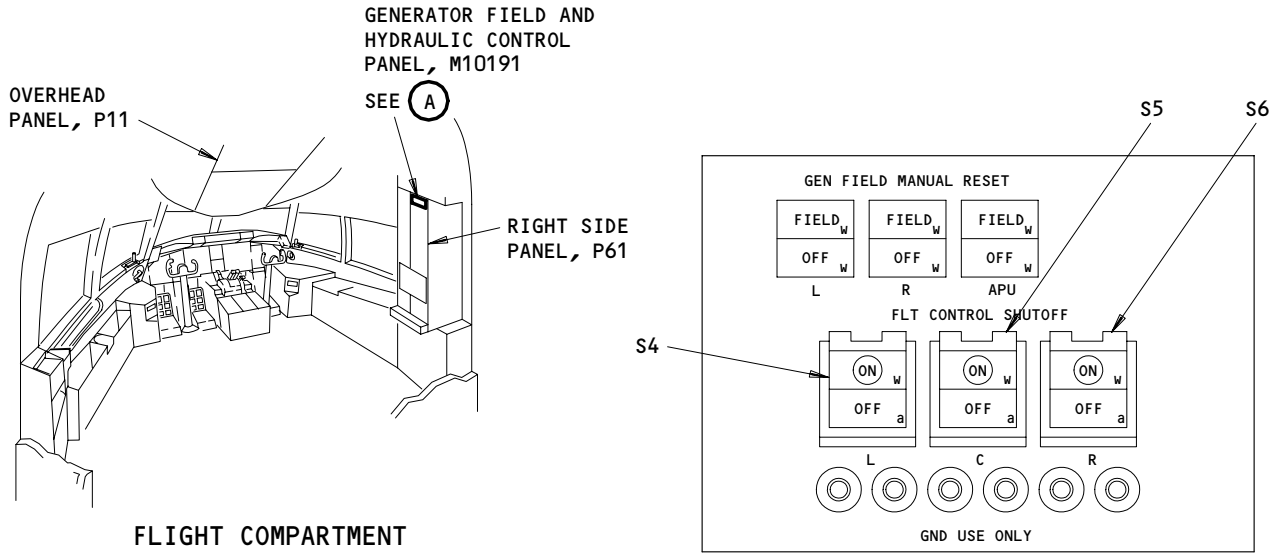
Rudder and Elevator Hydraulic Systems - Component Index  
Figure 101 (Sheet 2)

EFFECTIVITY

ALL
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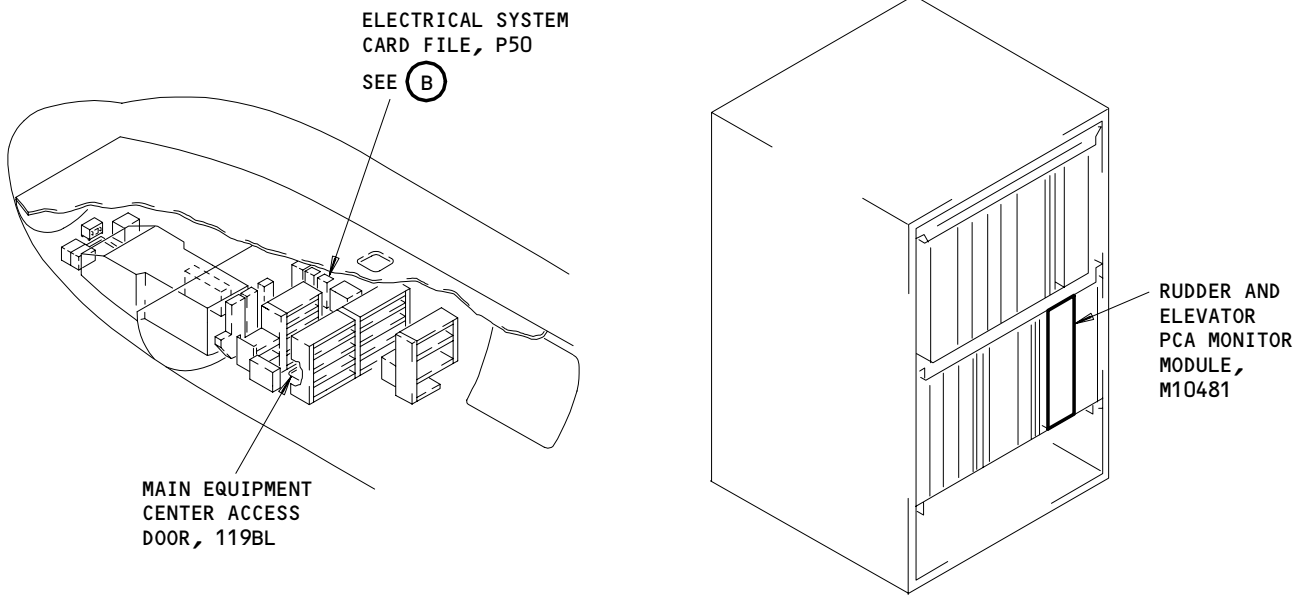
27-23-00





GENERATOR FIELD AND HYDRAULIC CONTROL PANEL, M10191

(A)



ELECTRIC SYSTEM CARD FILE, P50

(B)

Rudder and Elevator Hydraulic Systems - Component Location  
Figure 102 (Sheet 1)

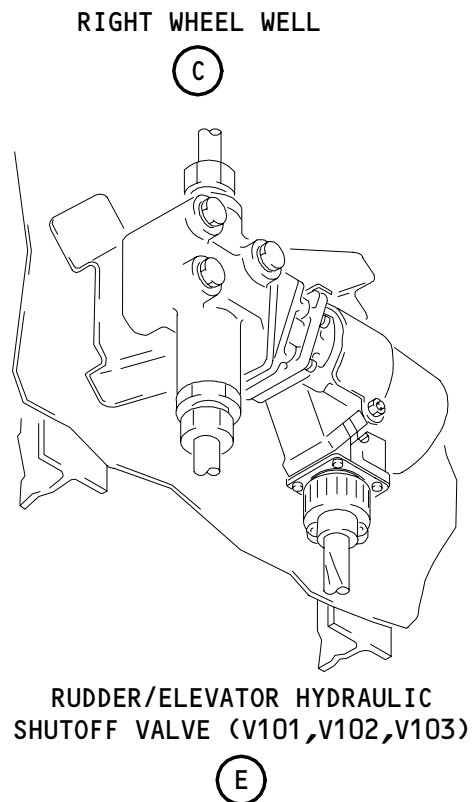
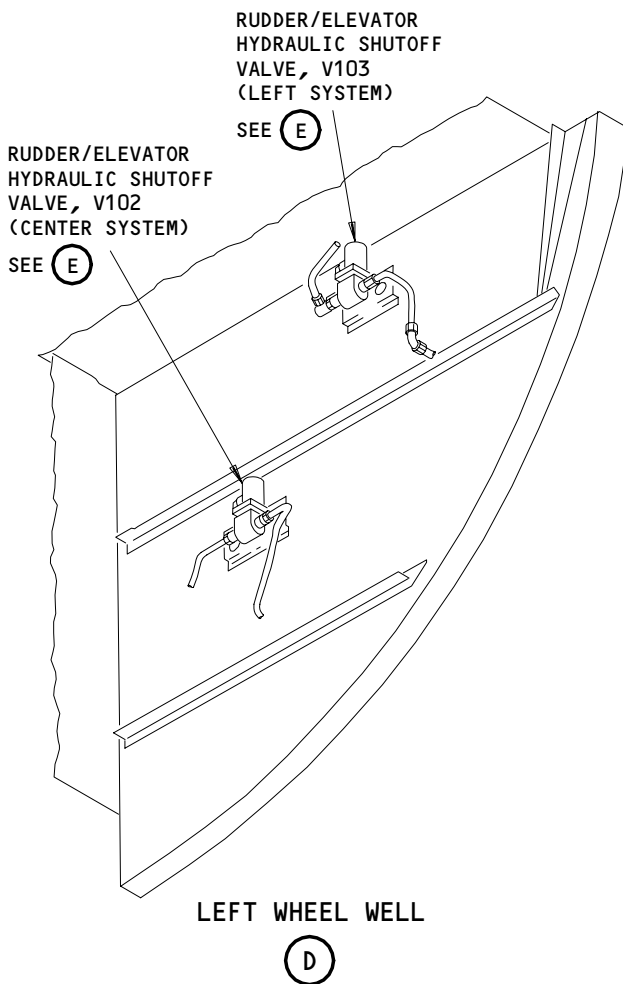
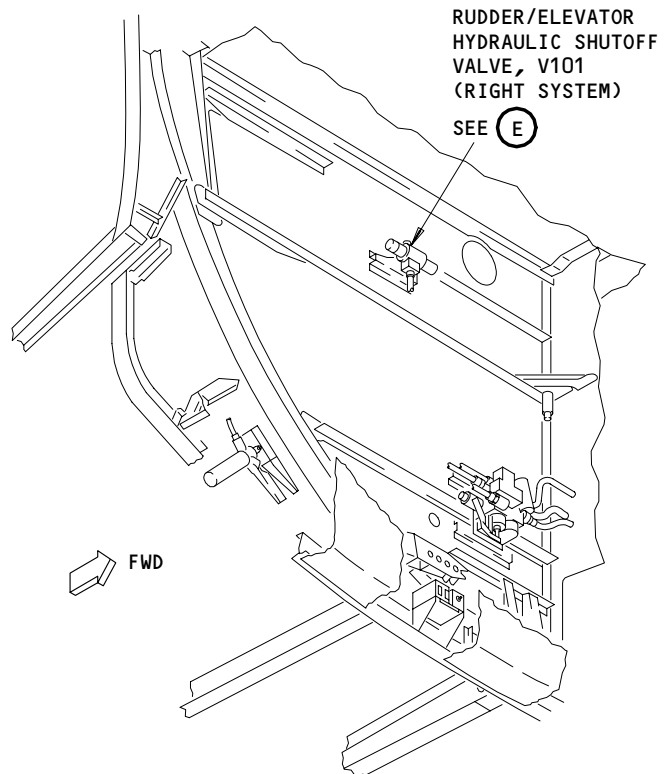
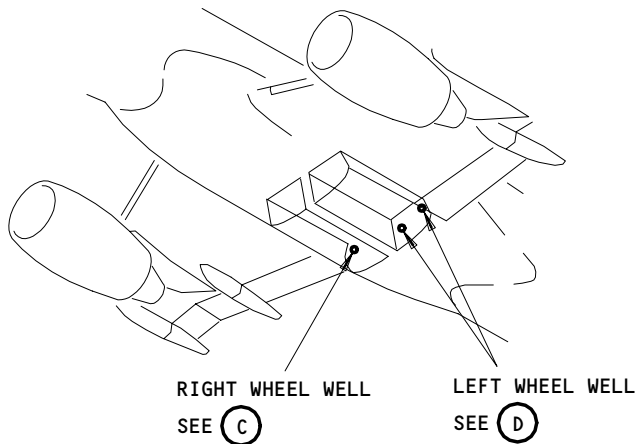
EFFECTIVITY

ALL

27-23-00

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Page 103  
Dec 20/90

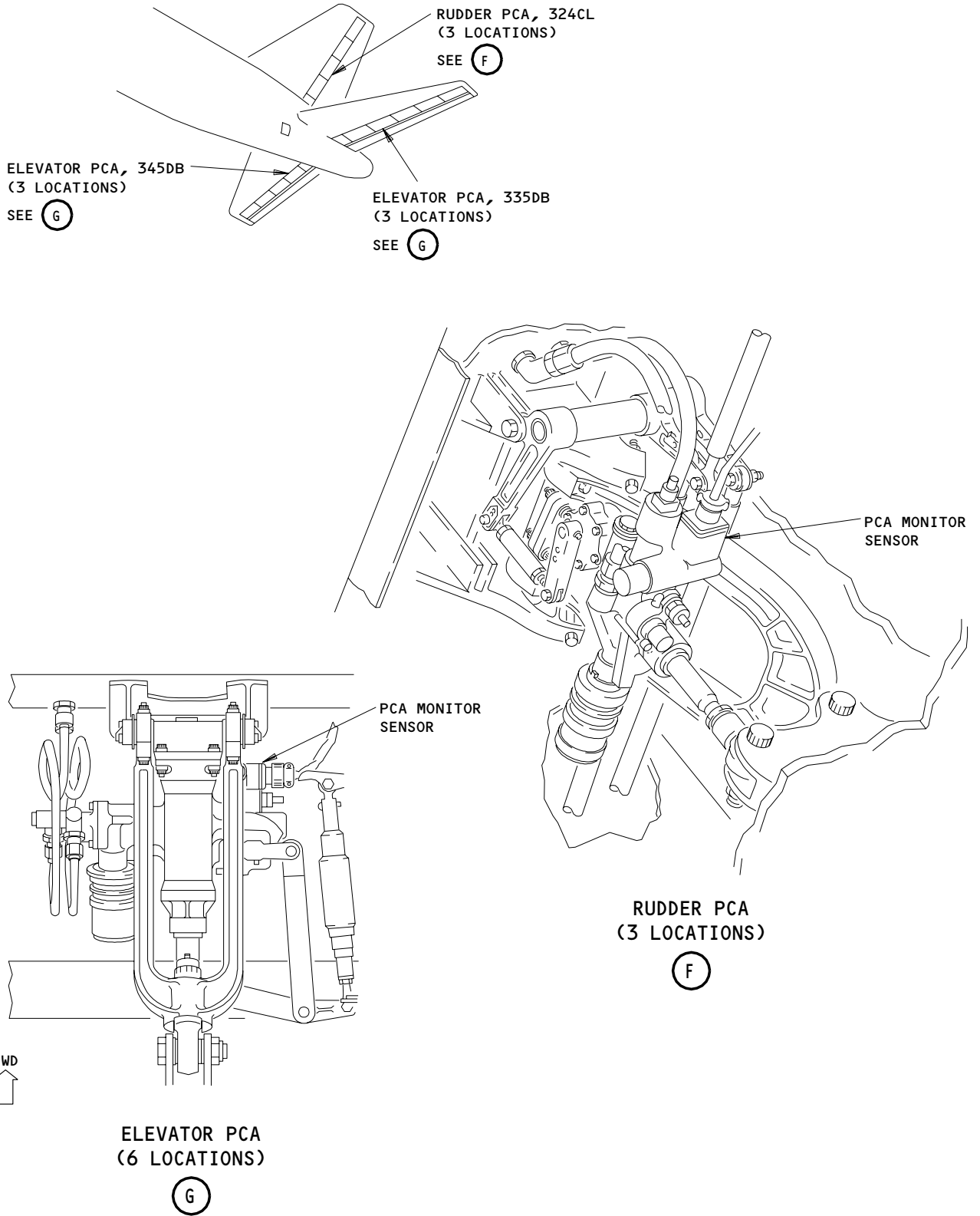


Rudder and Elevator Hydraulic Systems - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

27-23-00

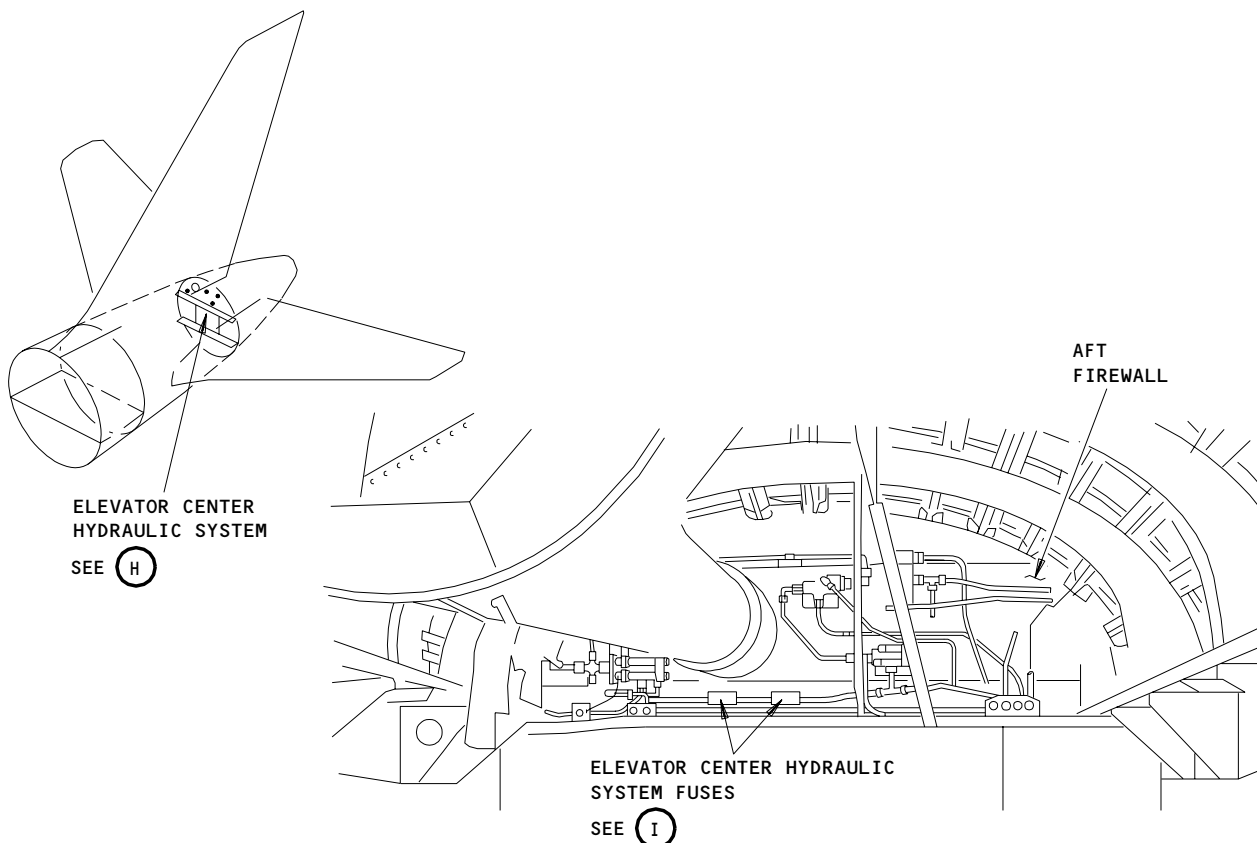
**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



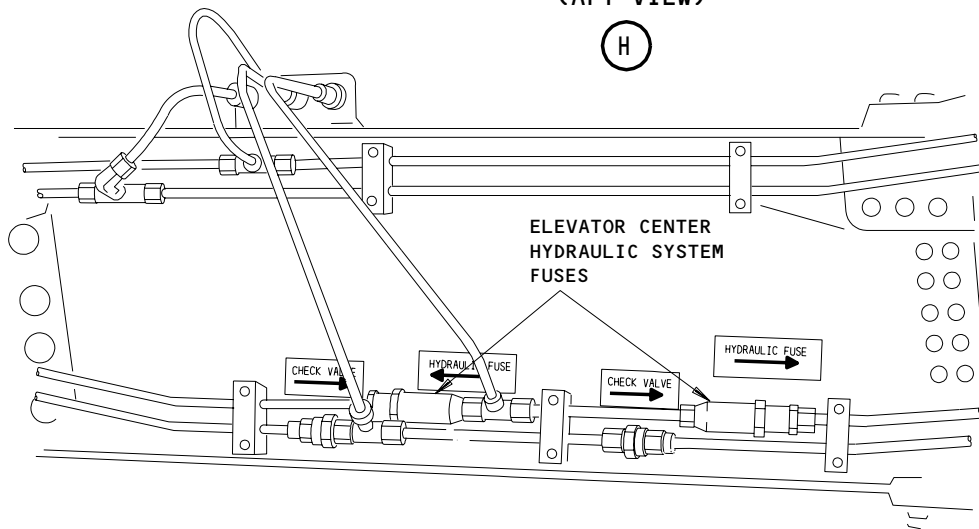
Rudder and Elevator Hydraulic Systems - Component Location  
 Figure 102 (Sheet 3)

EFFECTIVITY	
	ALL

27-23-00



ELEVATOR CENTER HYDRAULIC SYSTEM  
(AFT VIEW)



ELEVATOR CENTER HYDRAULIC SYSTEM FUSES

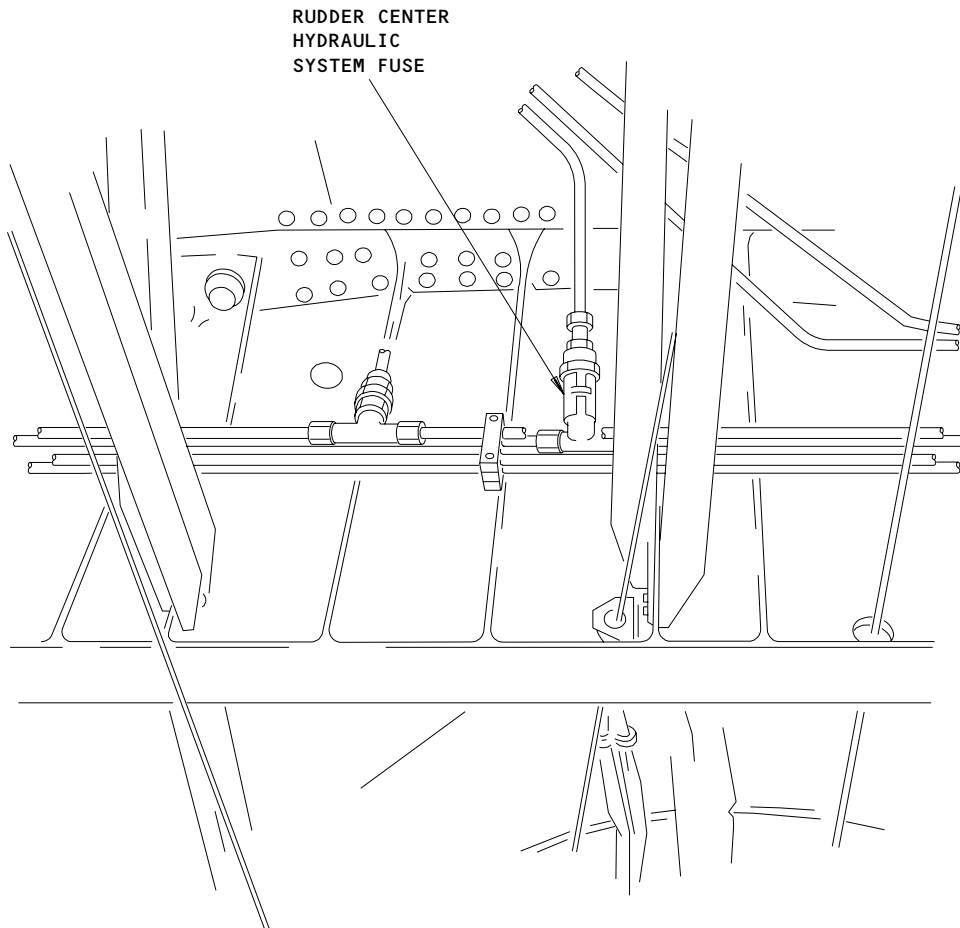
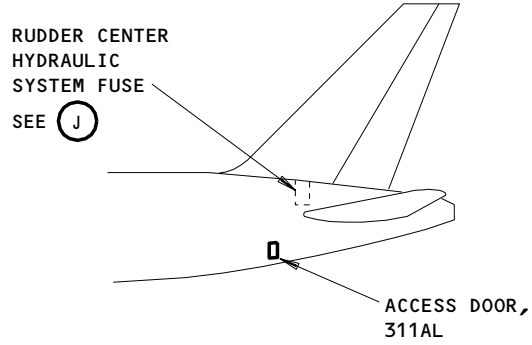
(I)

Rudder and Elevator Hydraulic Systems – Component Location  
Figure 102 (Sheet 4)

EFFECTIVITY	
ALL	

27-23-00

**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



RUDDER CENTER HYDRAULIC SYSTEM FUSE

(J)

Rudder and Elevator Hydraulic Systems - Component Location  
 Figure 102 (Sheet 5)

EFFECTIVITY	
	ALL

27-23-00

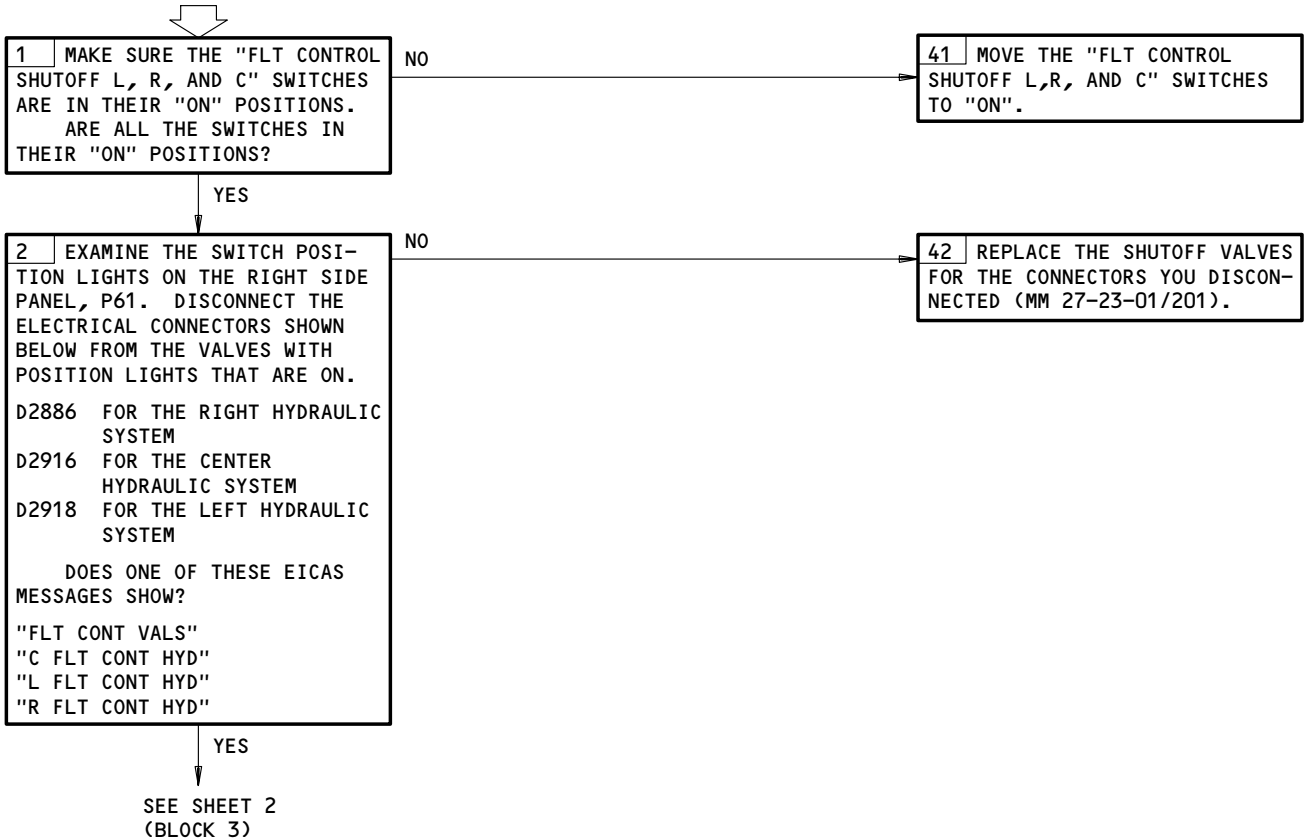
**EICAS MESSAGE  
"FLT CONT VALS"  
DISPLAYED**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11H17,11H18,11H28

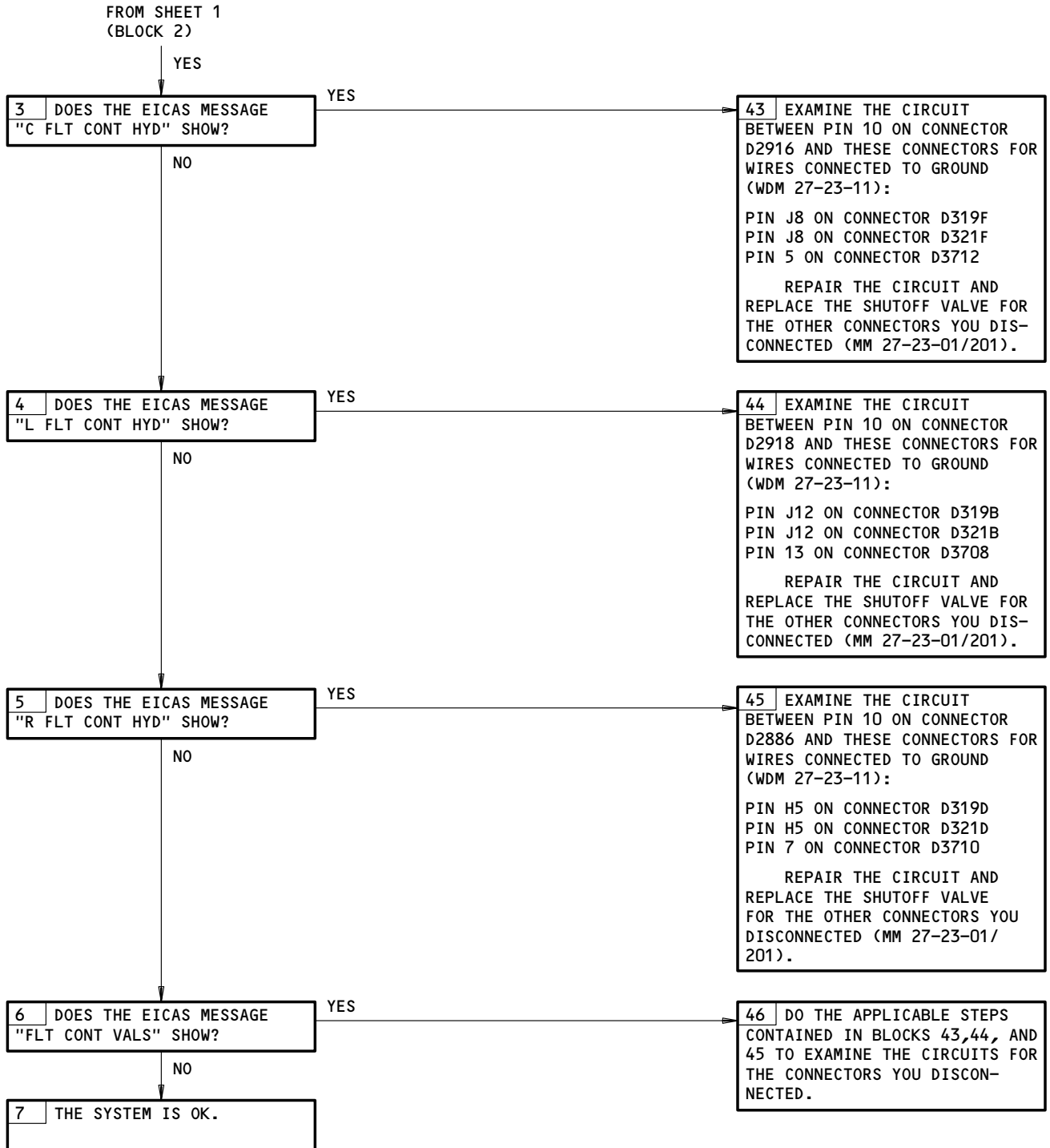
MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT  
FOLLOWS:  
ELECTRICAL POWER IS ON (MM 24-22-00/201)



EICAS Message FLT CONT VALS Displayed  
Figure 103 (Sheet 1)

EFFECTIVITY	ALL
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**27-23-00**



EICAS Message FLT CONT VALS Displayed  
Figure 103 (Sheet 2)

EFFECTIVITY	ALL
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**27-23-00**

**PREREQUISITES**

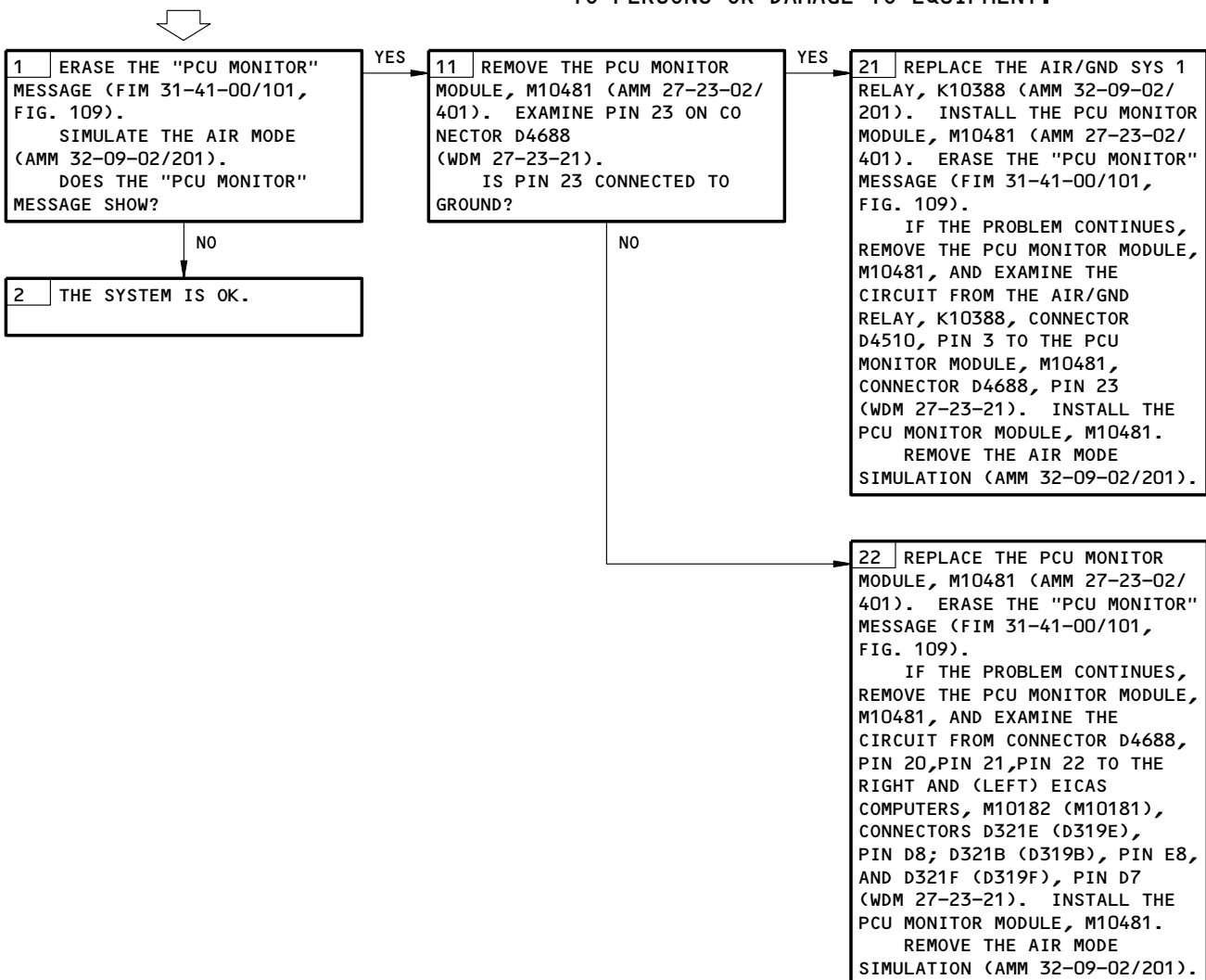
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C30, 11J10, 11J11, 11S15, 11S19, 11S23

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** REFER TO AMM 27-61-00/201 FOR THE SPOILER/  
SPEEDBRAKE DEACTIVATION PROCEDURE.  
ACCIDENTAL SPOILER MOVEMENT CAN CAUSE INJURY  
TO PERSONS OR DAMAGE TO EQUIPMENT.

**EICAS MESSAGE "PCU  
MONITOR" DISPLAYED**



EICAS Message PCU MONITOR Displayed  
Figure 104

EFFECTIVITY

ALL

**27-23-00**

01

Page 110  
May 28/04





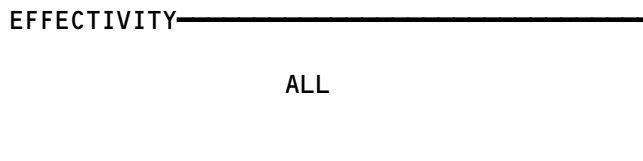
757  
 FAULT ISOLATION/MAINT MANUAL

RUDDER POSITION INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER - RUD TRIM, C1033	--	1	FLT COMPT, OVERHEAD PANEL, P11 11C10	*
RUDDER POS, C1005		1	11J16	*
RUDDER TRIM POS, C1034		1	11J17	*
COMPUTER - (FIM 31-41-00/101) L EICAS, M10181				
COMPUTER - (FIM 31-41-00/101) R EICAS, M10182				
TRANSMITTER - RUDDER POSITION, M516	--	1	324BL, LWR VERT FIN	27-28-01

\* SEE THE WDM EQUIPMENT LIST

Rudder Position Indicating System - Component Index  
 Figure 101



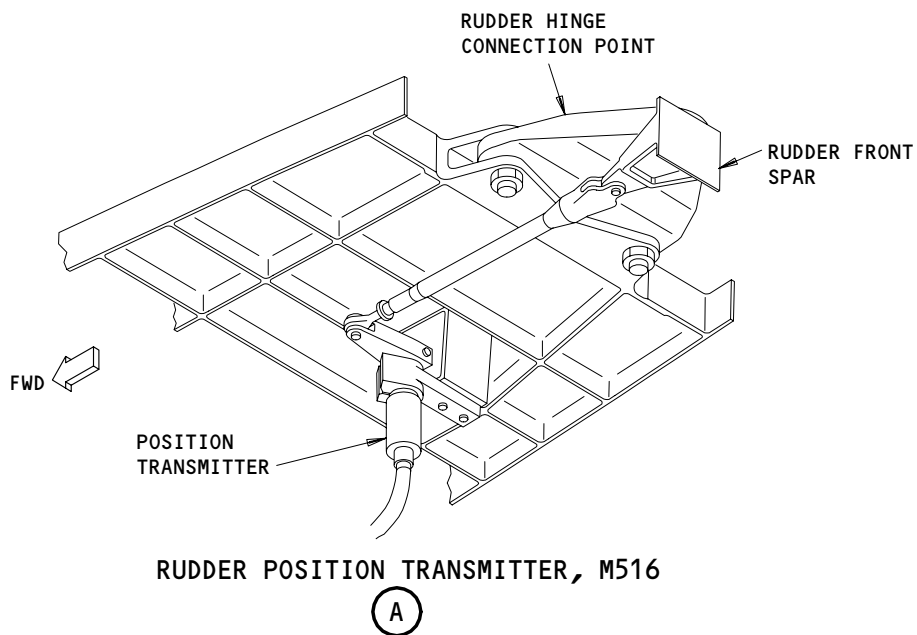
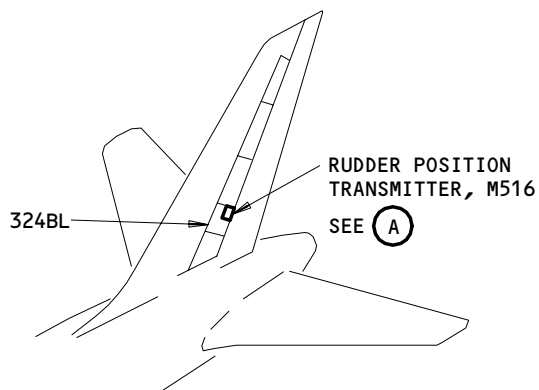
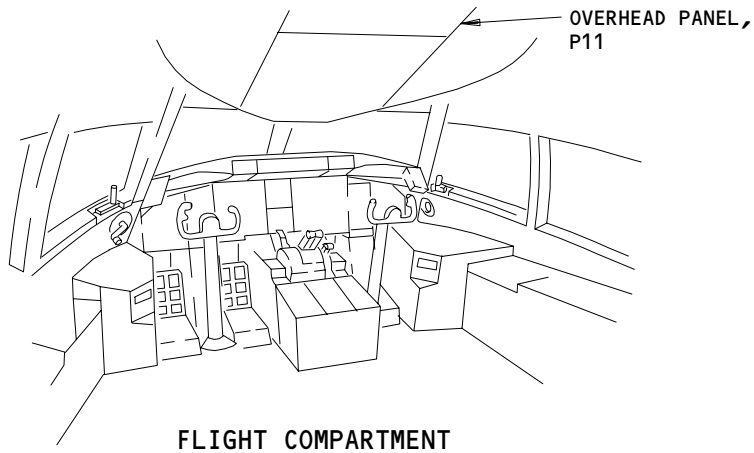
27-28-00

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Page 101  
 Sep 20/94

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Rudder Position Indicating System - Component Location  
Figure 102

EFFECTIVITY	
ALL	

27-28-00

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Page 102  
Sep 20/94

**PREREQUISITES**

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

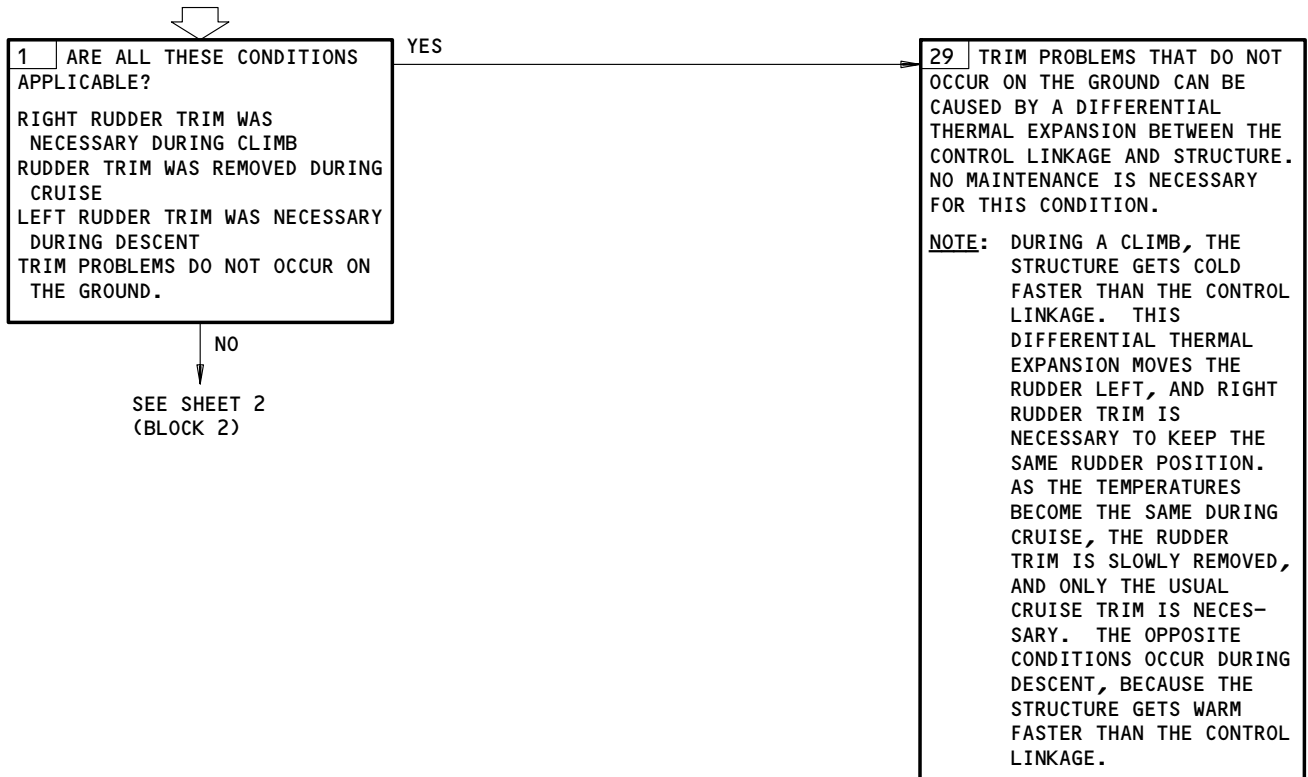
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C10,11J16,11J17

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

ELECTRICAL POWER IS ON (MM 24-22-00/201)  
HYDRAULIC POWER IS ON (MM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

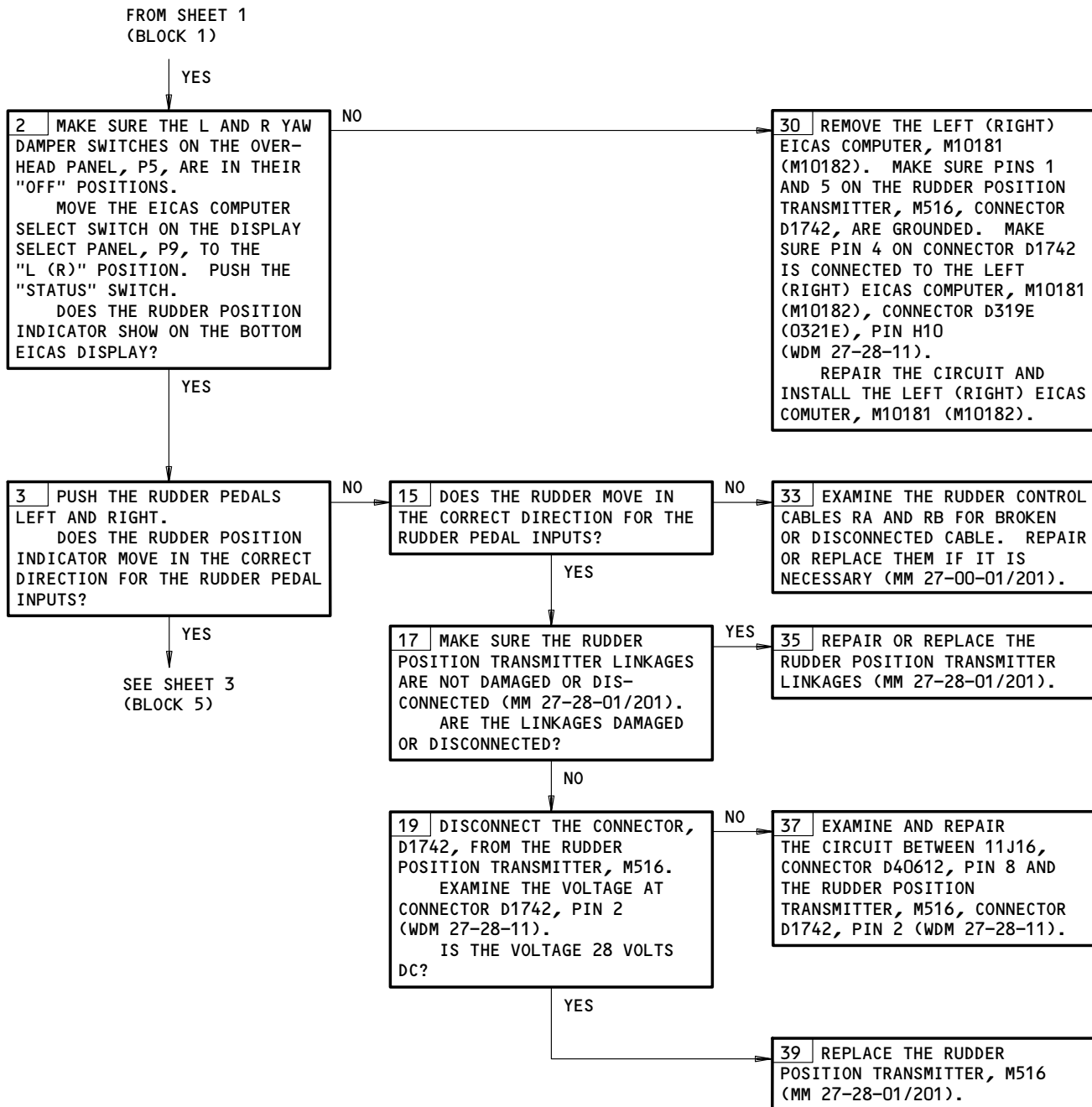
**RUDDER POSITION INDICATION PROBLEMS**



Rudder Position Indication Problems  
Figure 103 (Sheet 1)

EFFECTIVITY	ALL
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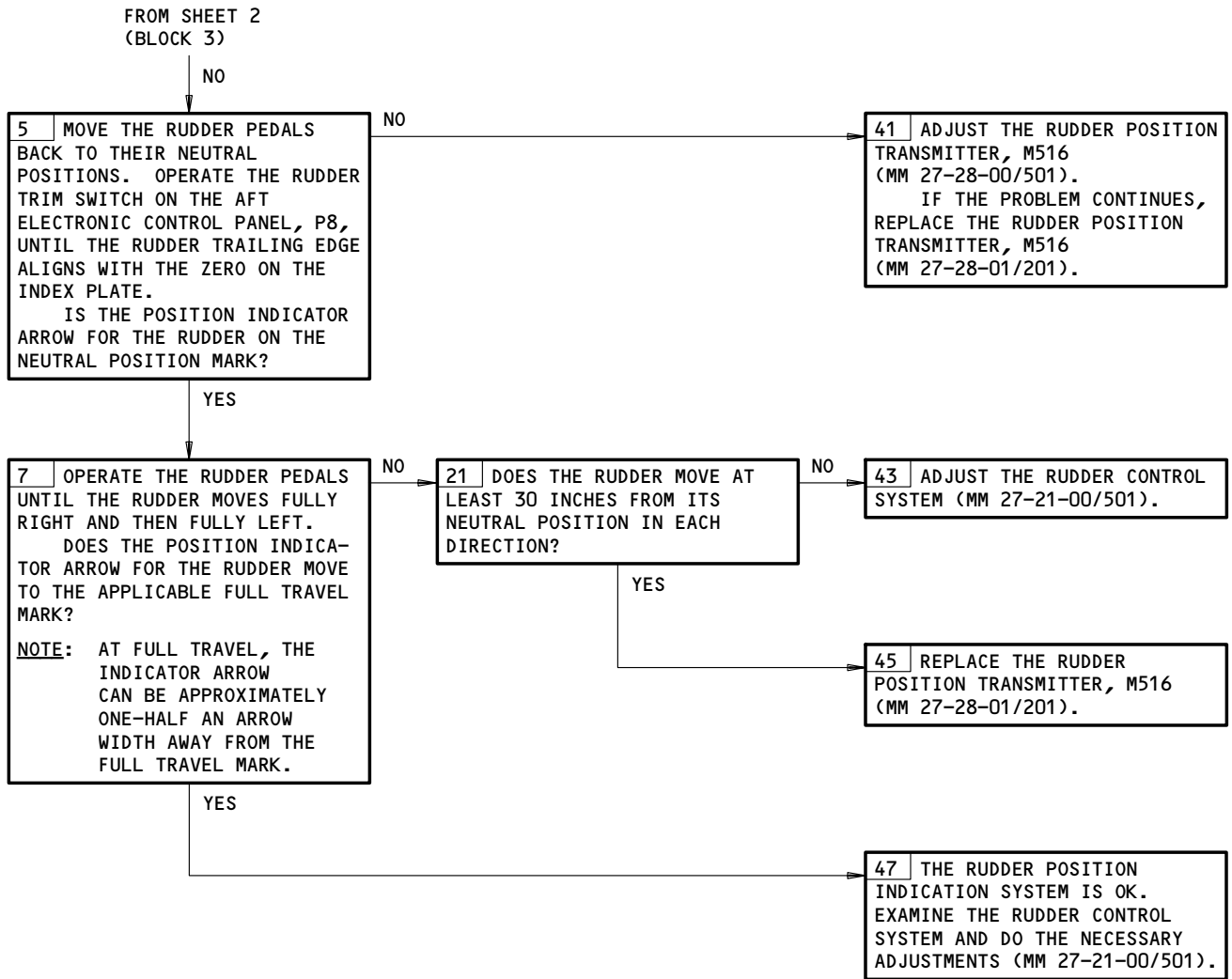
27-28-00



Rudder Position Indication Problems  
Figure 103 (Sheet 2)

EFFECTIVITY	ALL
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27-28-00



Rudder Position Indication Problems  
Figure 103 (Sheet 3)

EFFECTIVITY

ALL
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27-28-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

ELEVATOR CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - ELEVATOR ASYMMETRY LIMITER, M10048	3	1	313AL, AFT FUSELAGE	27-31-03
ACTUATOR - ELEVATOR FEEL	4	1	313AL, AFT FUSELAGE	27-31-18
ACTUATOR - ELEVATOR POWER CONTROL (PCA)	4	6	335DB (L PCAs), 345DB (R PCAs)	27-31-05
CIRCUIT BREAKERS -	1		FLT COMPT, P11	
ELEVATOR LIMIT, C4032		1	11J12	*
ELEVATOR POSITION L, C4101		1	11J13	*
ELEVATOR POSITION R, C4102		1	11J22	*
PCU MON MOD, C4270		1	11J11	*
PCU MON SENSOR, C4283		1	11J10	*
COLUMN - CONTROL	1	2	113AL, FWD EQUIP CTR	27-31-10
COMPUTERS - (31-41-00/101)				
EICAS L, M10181				
EICAS R, M10182				
COMPUTER - ELEVATOR FEEL	2	1	311AL	27-31-19
ELEVATOR -	4	2	HORIZONTAL STAB REAR SPAR	27-31-01
FEEL AND CENTERING UNIT - ELEVATOR	3	1	311AL, AFT FUSELAGE	27-31-17
MECHANISM - NEUTRAL SHIFT AND OVERRIDE	4	1	313AL, AFT FUSELAGE	27-31-21
MODULES - (27-09-00/101)				
STABILIZER TRIM/ELEV ASYM LIMIT L, M524				
STABILIZER TRIM/ELEV ASYM LIMIT R, M525				
OVERRIDE - CONTROL COLUMN	1	1	113AL, FWD EQUIP CTR	27-31-23
QUADRANT - ELEV AFT	3	2	311AL, 313AL, AFT FUSELAGE	27-31-15
QUADRANT - ELEV FWD/TENSION REGULATOR	1		113AL, FWD EQUIP CTR	27-31-12
SERVOS - (22-12-00/101)				
AUTOPILOT PITCH CONTROL C, M272				
AUTOPILOT PITCH CONTROL L, M271				
AUTOPILOT PITCH CONTROL R, M273				
TORQUE BOX - ELEV CONT AFT MECHANISM	3	1	311AL, 313AL AFT FUSELAGE	27-31-16
TRANSDUCERS - (22-12-00/101)				
ELEV NEUTRAL SHIFT C, TS5135				
ELEV NEUTRAL SHIFT L, TS5151				
ELEV NEUTRAL SHIFT R, TS5152				
TRANSMITTERS - (27-38-00/101)				
ELEVATOR POS L, M517				
ELEVATOR POS R, M518				
VALVE - PRESSURE REDUCER BYPASS	5	1	311AL, AFT FUSELAGE	27-31-13
VALVE - PRESSURE REDUCING	5	3	311AL, AFT FUSELAGE	27-31-13

\* SEE THE WDM EQUIPMENT LIST

Elevator Control System - Component Index  
Figure 101

EFFECTIVITY

ALL

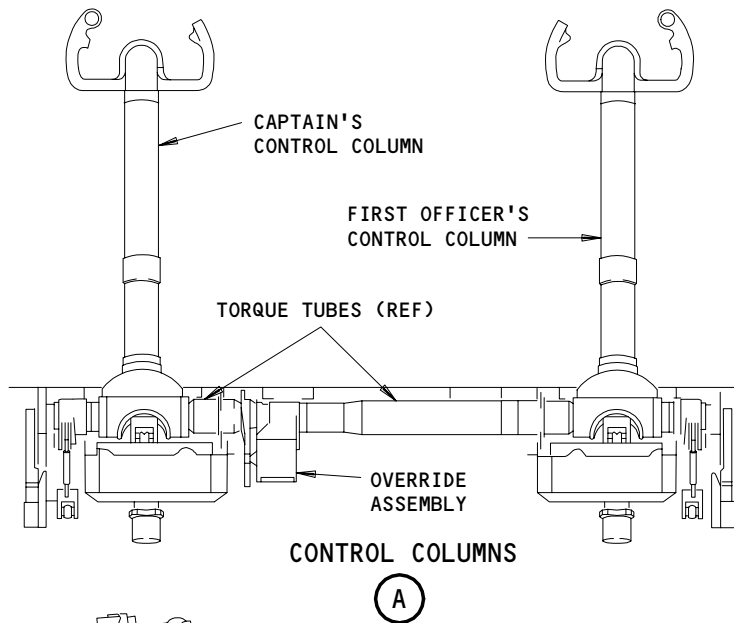
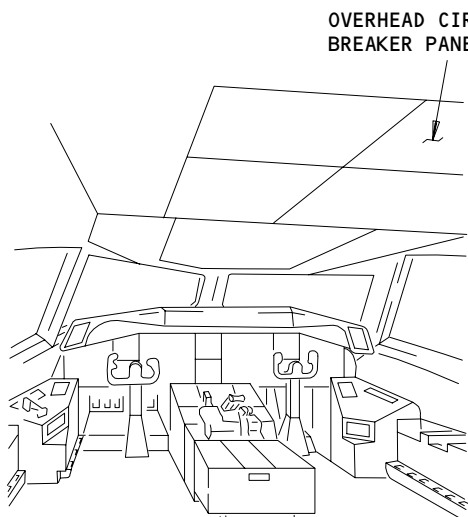
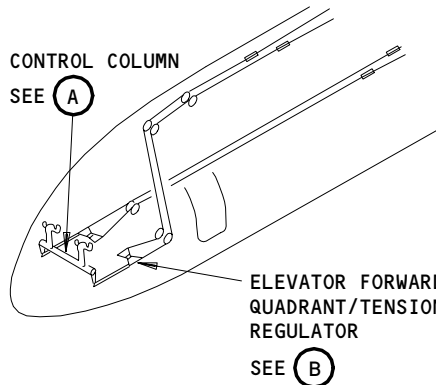
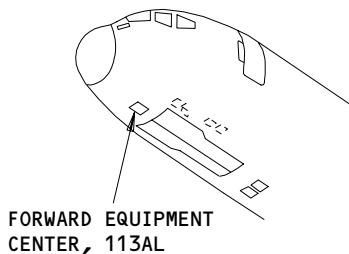
27-31-00

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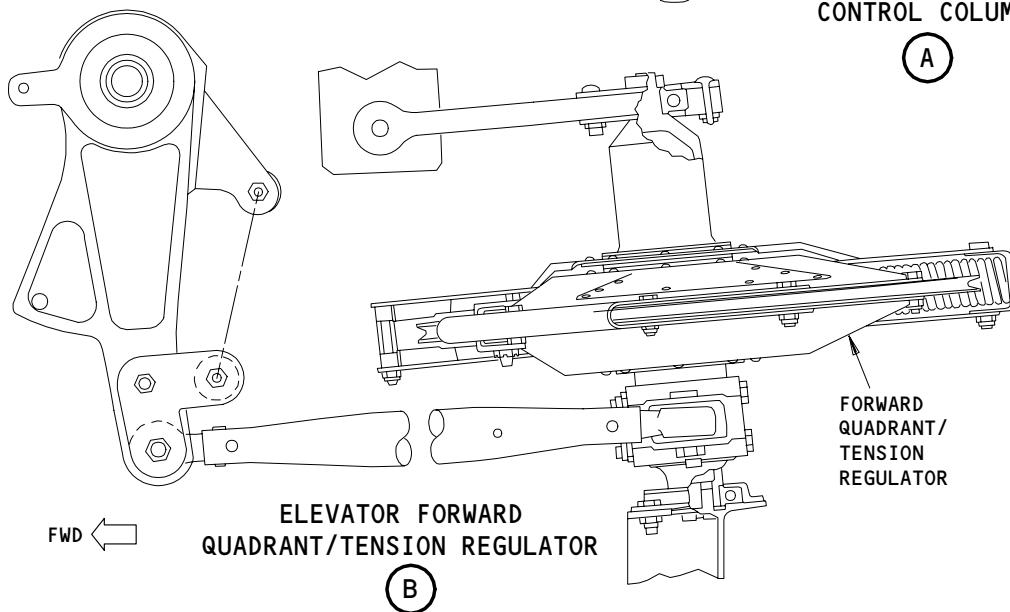
Page 101  
Jun 20/92

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



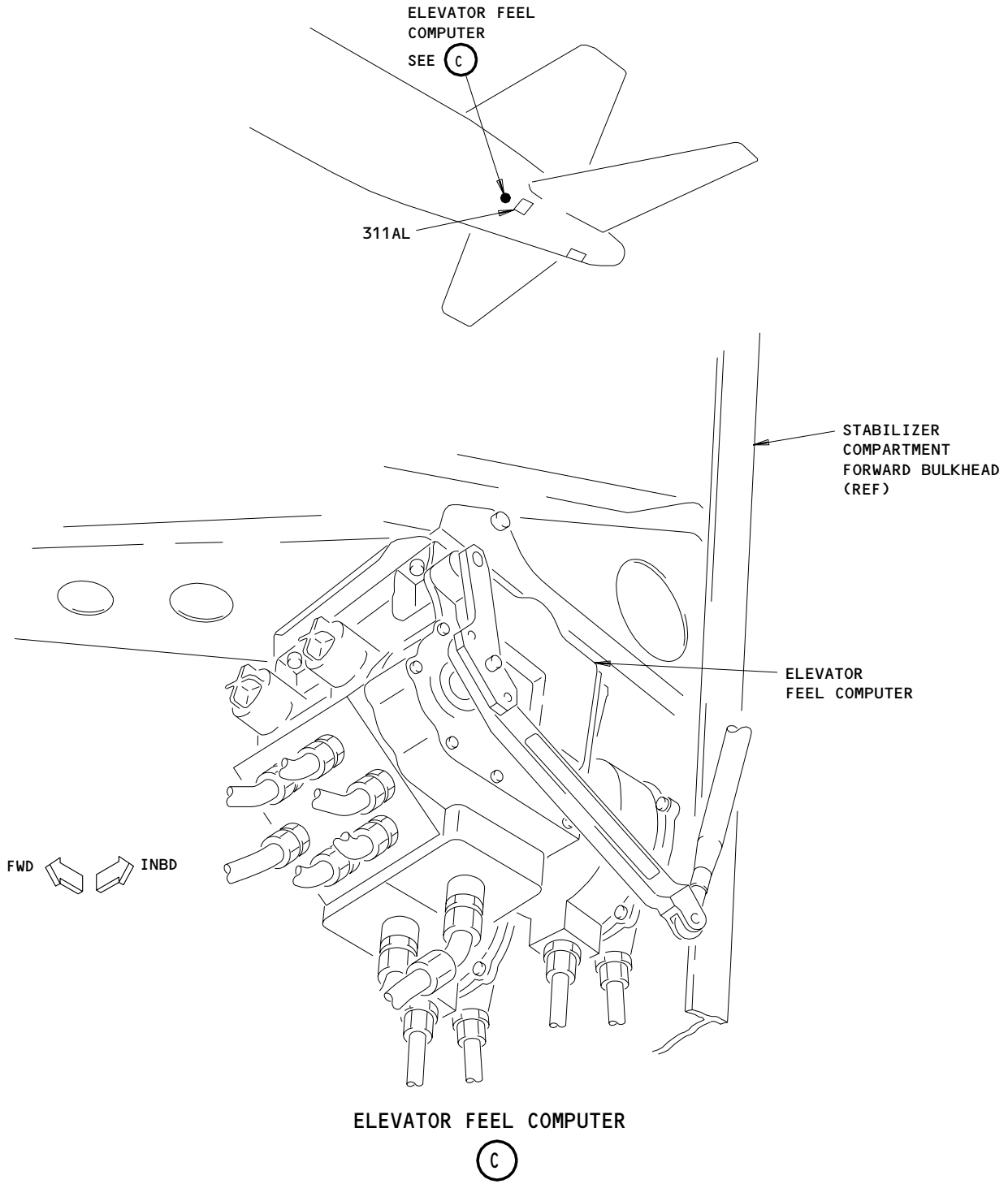
FLIGHT COMPARTMENT



Elevator Control System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
ALL	

27-31-00



Elevator Control System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

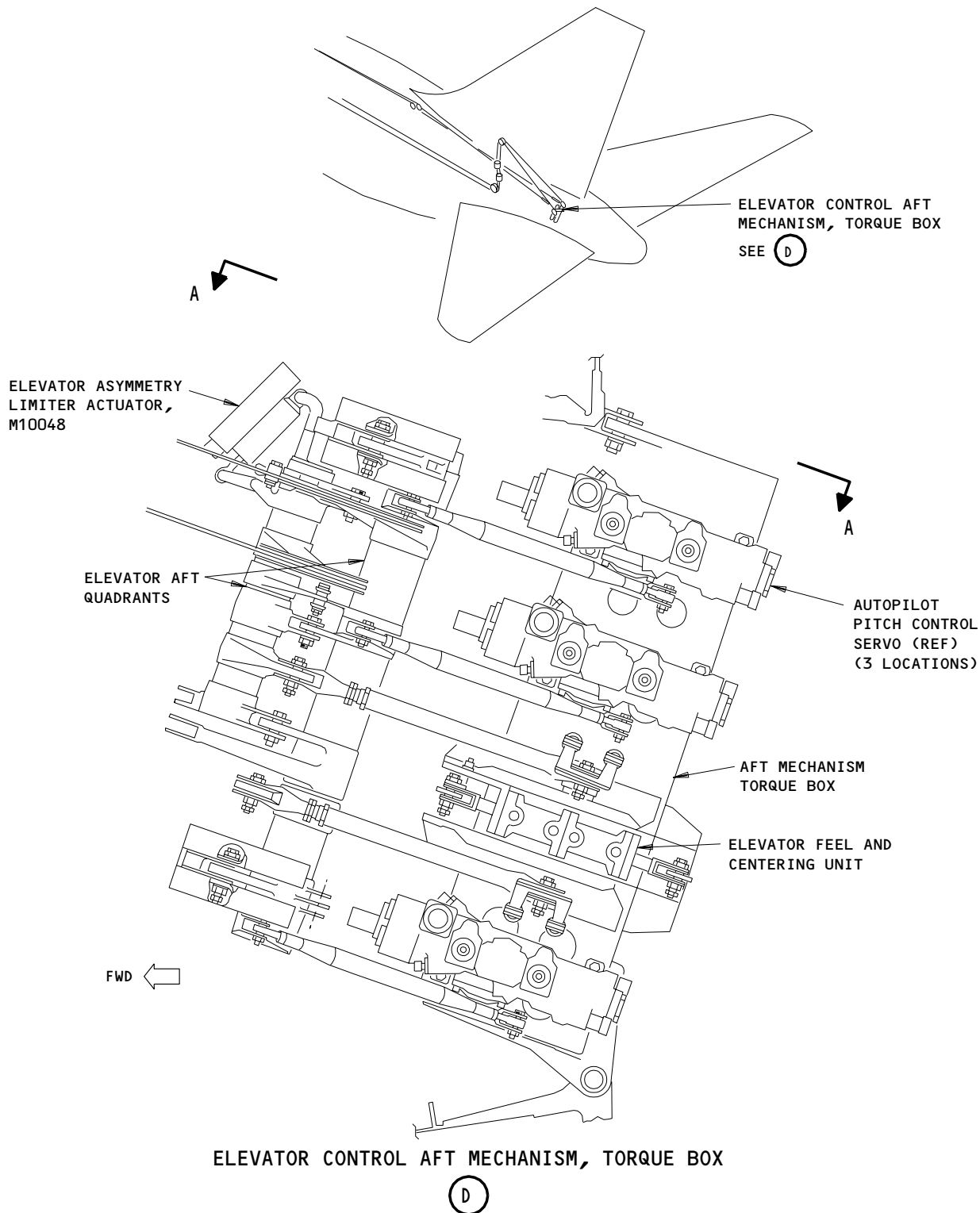
27-31-00

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Page 103  
Jun 20/92

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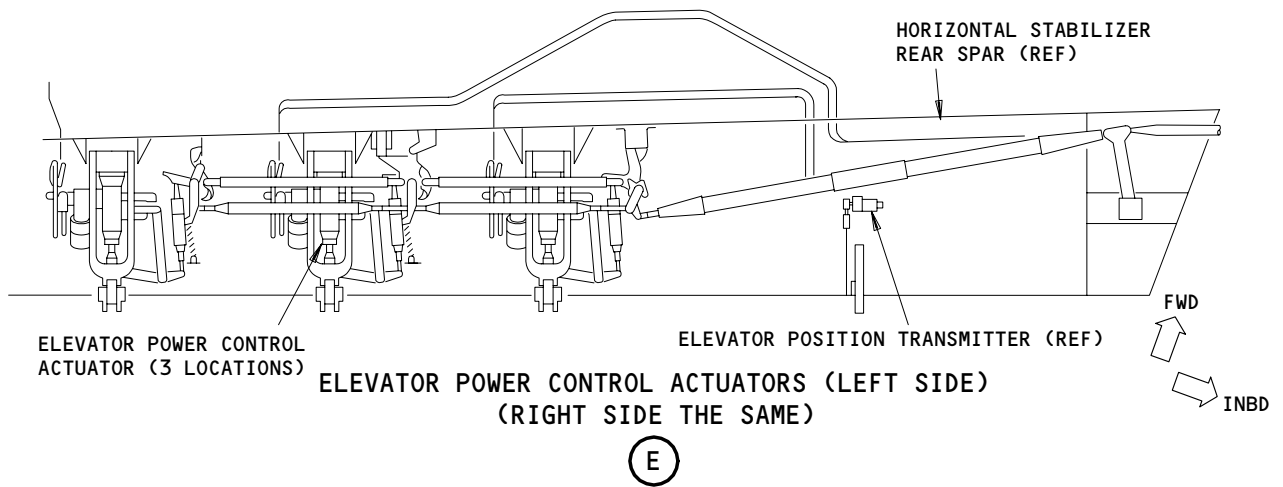
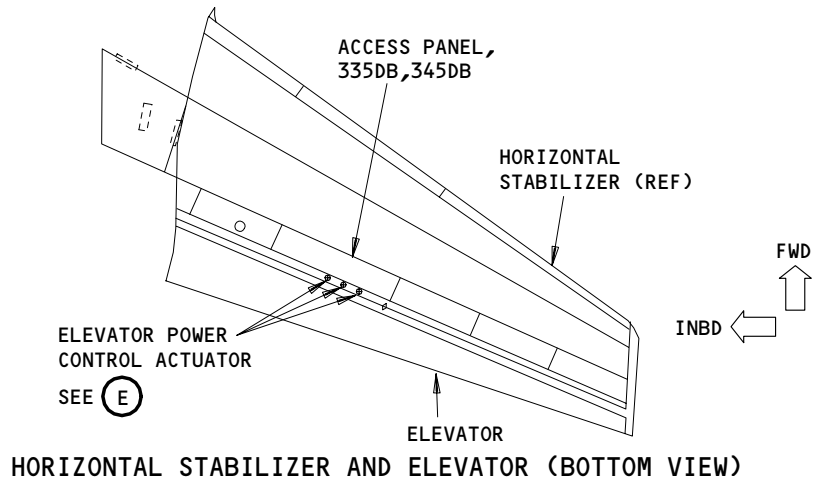
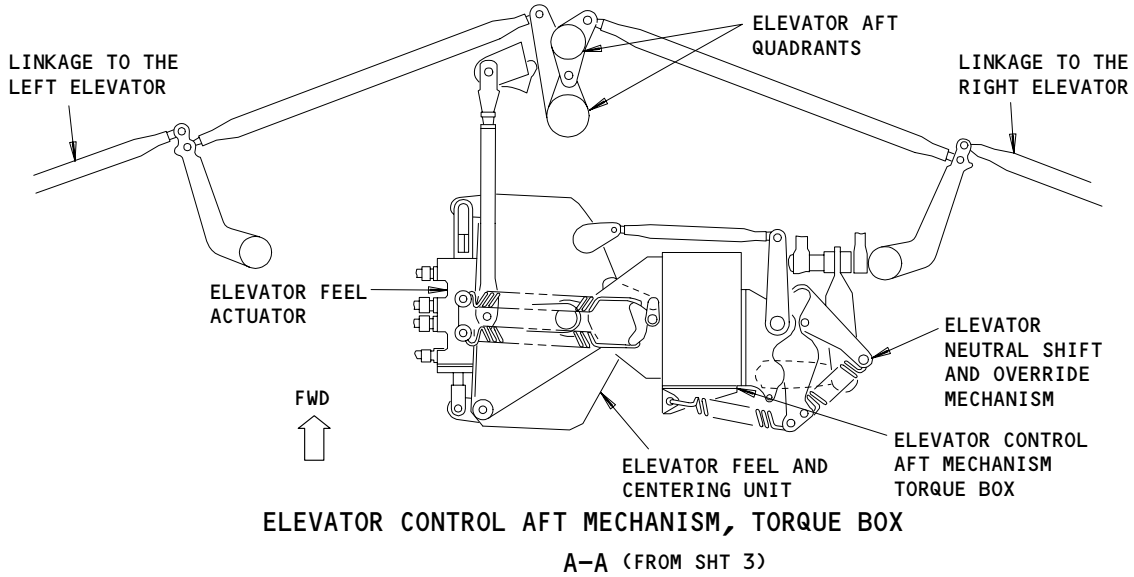


Elevator Control System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY	ALL
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27-31-00

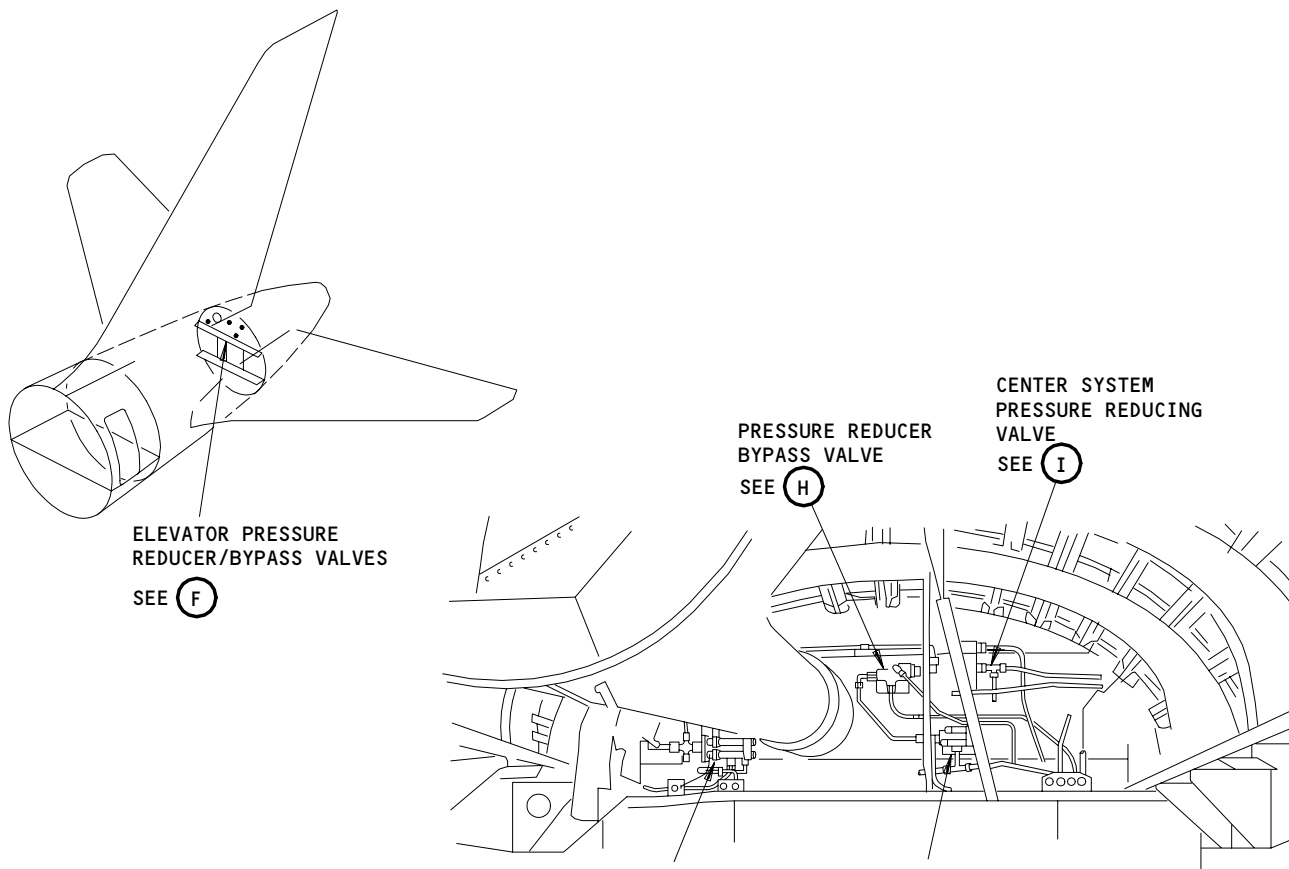
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



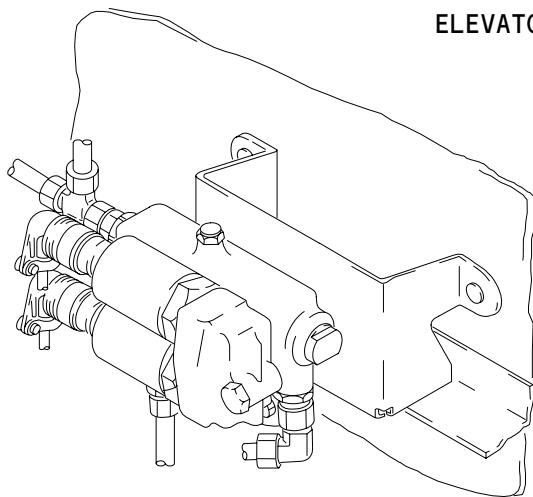
**Elevator Control System - Component Location**  
Figure 102 (Sheet 4)

EFFECTIVITY	
	ALL

27-31-00



ELEVATOR PRESSURE REDUCER/BYPASS VALVES  
(F)



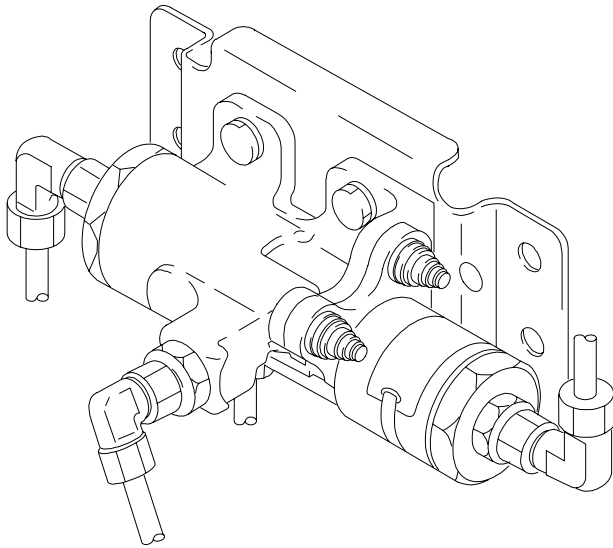
RIGHT SYSTEM PRESSURE REDUCING VALVE

(G)

Elevator Control System - Component Location  
Figure 102 (Sheet 5)

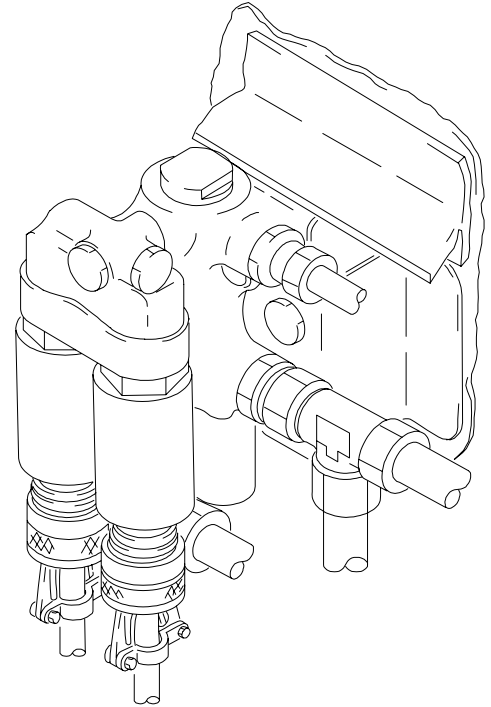
EFFECTIVITY	
	ALL

27-31-00



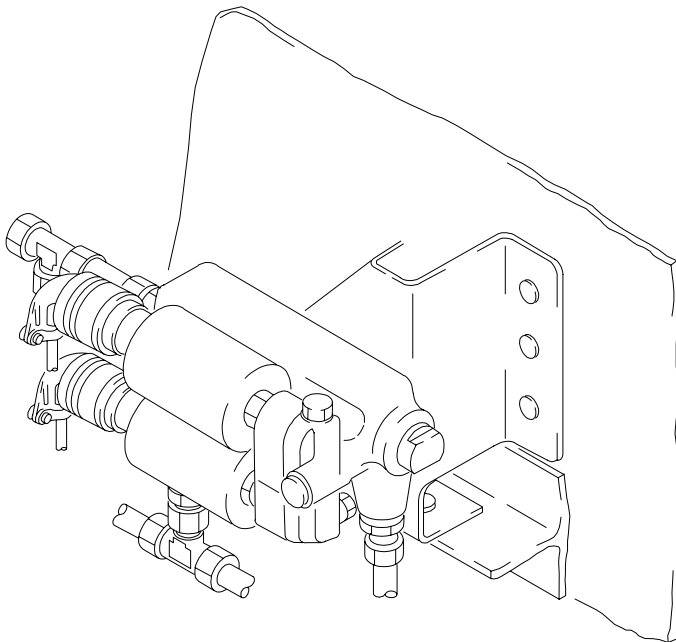
PRESSURE REDUCER BYPASS VALVE

(H)



CENTER SYSTEM PRESSURE REDUCING VALVE

(I)



LEFT SYSTEM PRESSURE REDUCING VALVE

(J)

Elevator Control System - Component Location (Details from Sht 5)  
Figure 102 (Sheet 6)

EFFECTIVITY

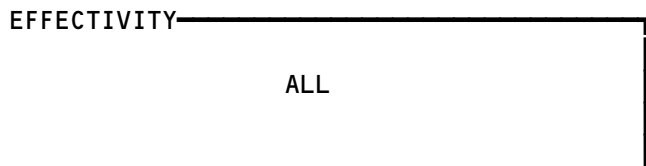
ALL

27-31-00

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Page 107  
Jun 20/92

Not Used  
Figure 103



**27-31-00**

01

Page 108  
Mar 20/96

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**PREREQUISITES**

MAKE SURE THIS SYTEM WILL OPERATE:  
EICAS (MM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11H17,11H18,11H28,11J13,11J22

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (MM 24-22-00/201)  
HYDRAULIC POWER IS ON (MM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

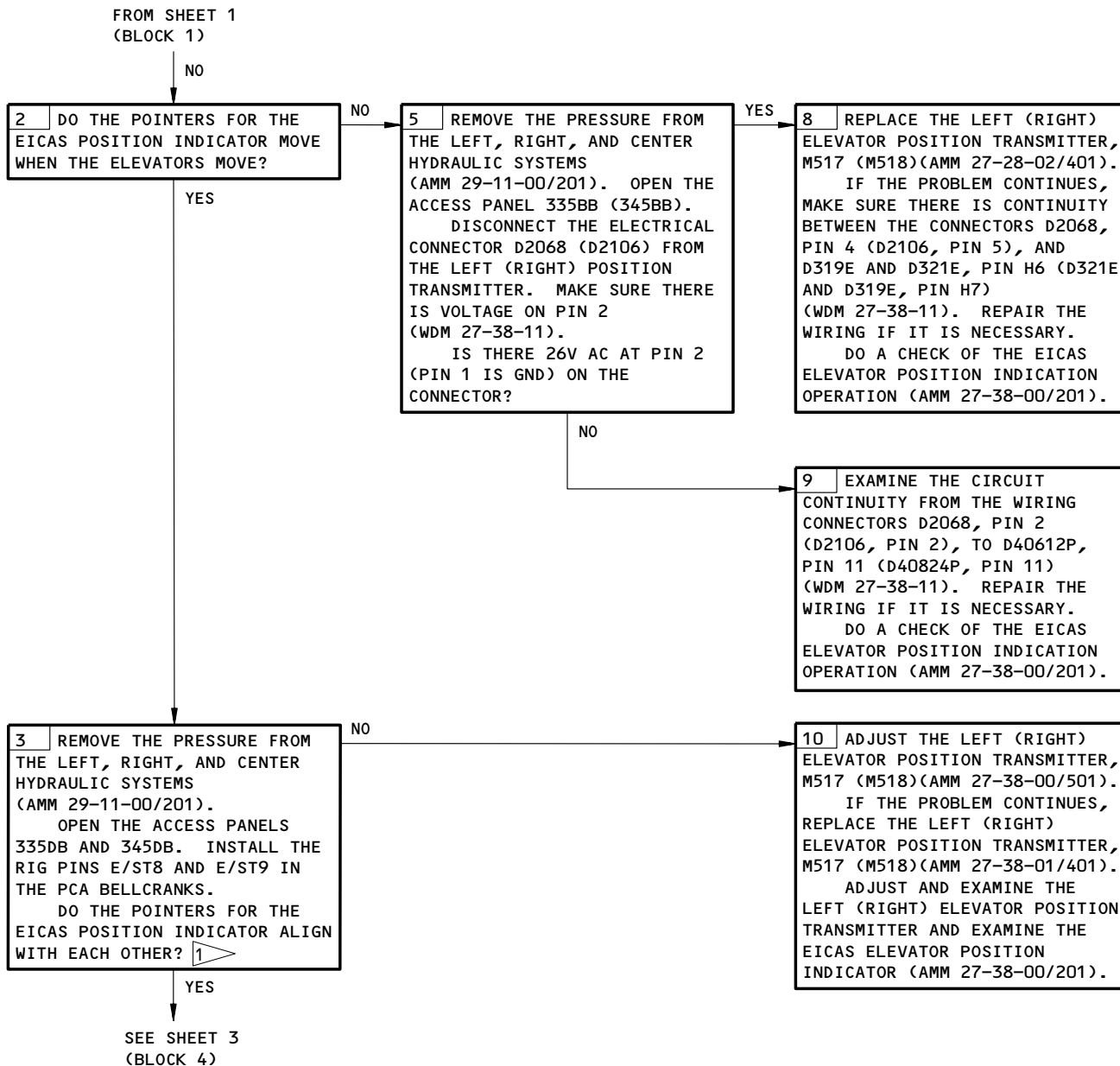
**ELEVATOR POSITION INDICATION PROBLEMS**



Elevator Position Indication Problems  
Figure 104 (Sheet 1)

EFFECTIVITY	ALL
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**27-31-00**

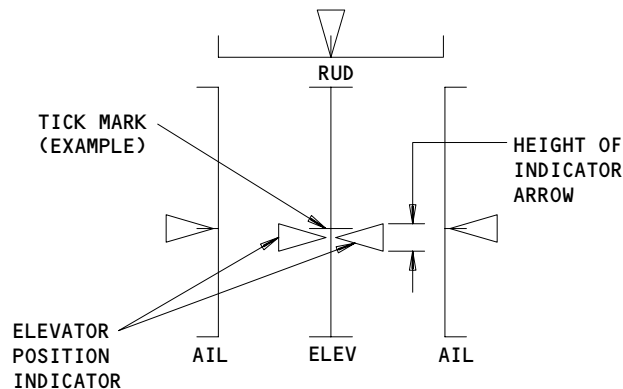
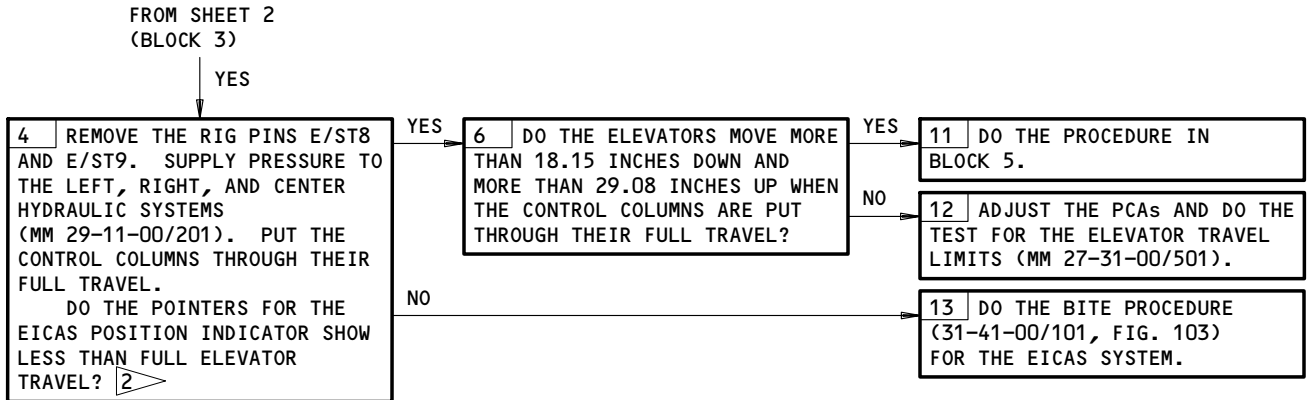


Elevator Position Indication Problems  
Figure 104 (Sheet 2)

EFFECTIVITY

ALL

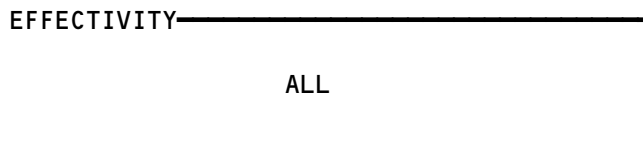
27-31-00



**ELEVATOR POSITION INDICATION  
ON EICAS SCREEN**

- 1 THE LEFT AND RIGHT ELEVATOR POSITION INDICATORS WILL APPROXIMATELY ALIGN WITH THE MIDDLE TICK MARK OF THE EICAS SCREEN. THE POSITION INDICATORS MUST BE NO MORE THAN ONE-HALF THE HEIGHT OF AN INDICATOR ARROW FROM EACH OTHER.
- 2 THE ELEVATOR POSITION INDICATOR ARROWS MUST GO TO AND STAY VISIBLE AT THE FULL UP OR DOWN TICK MARKS ON THE EICAS SCREEN.

Elevator Position Indication Problems  
Figure 104 (Sheet 3)



**27-31-00**



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11H17,11H18,11H28,11C12,11C13

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

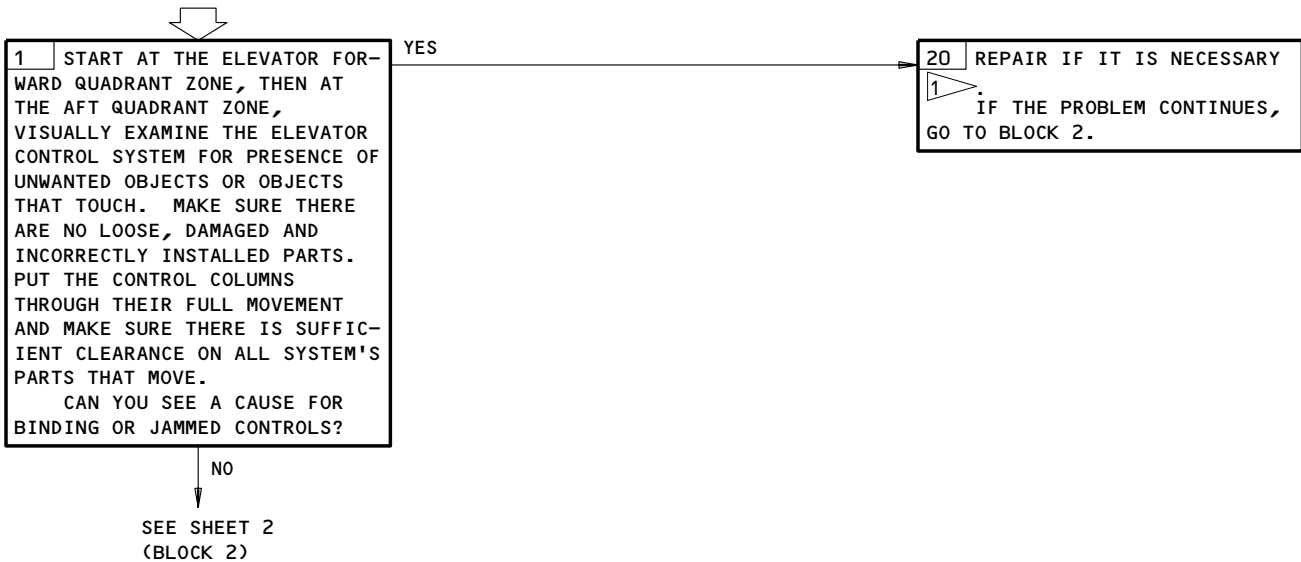
**EQUIPMENT:**

RIG PINS FROM SEJ B20003-XX (AMM 20-10-24/201)  
AFT QUADRANT RIGGING BLOCK B27023-14  
CABLE TENSION RELIEF HOLDER B27063-1

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

**NOTE:** WHEN YOU DO THE REMOVAL AND INSTALLATION PROCEDURES, DO NOT MOVE THE ADJUSTMENT FOR THE CONTROL RODS. IF YOU MOVE THE ADJUSTMENT, YOU MUST DO THE PROCEDURE TO ADJUST THE CONTROL RODS (AMM 27-31-00/501).

**ELEVATOR CONTROLS BINDING OR JAMMED**

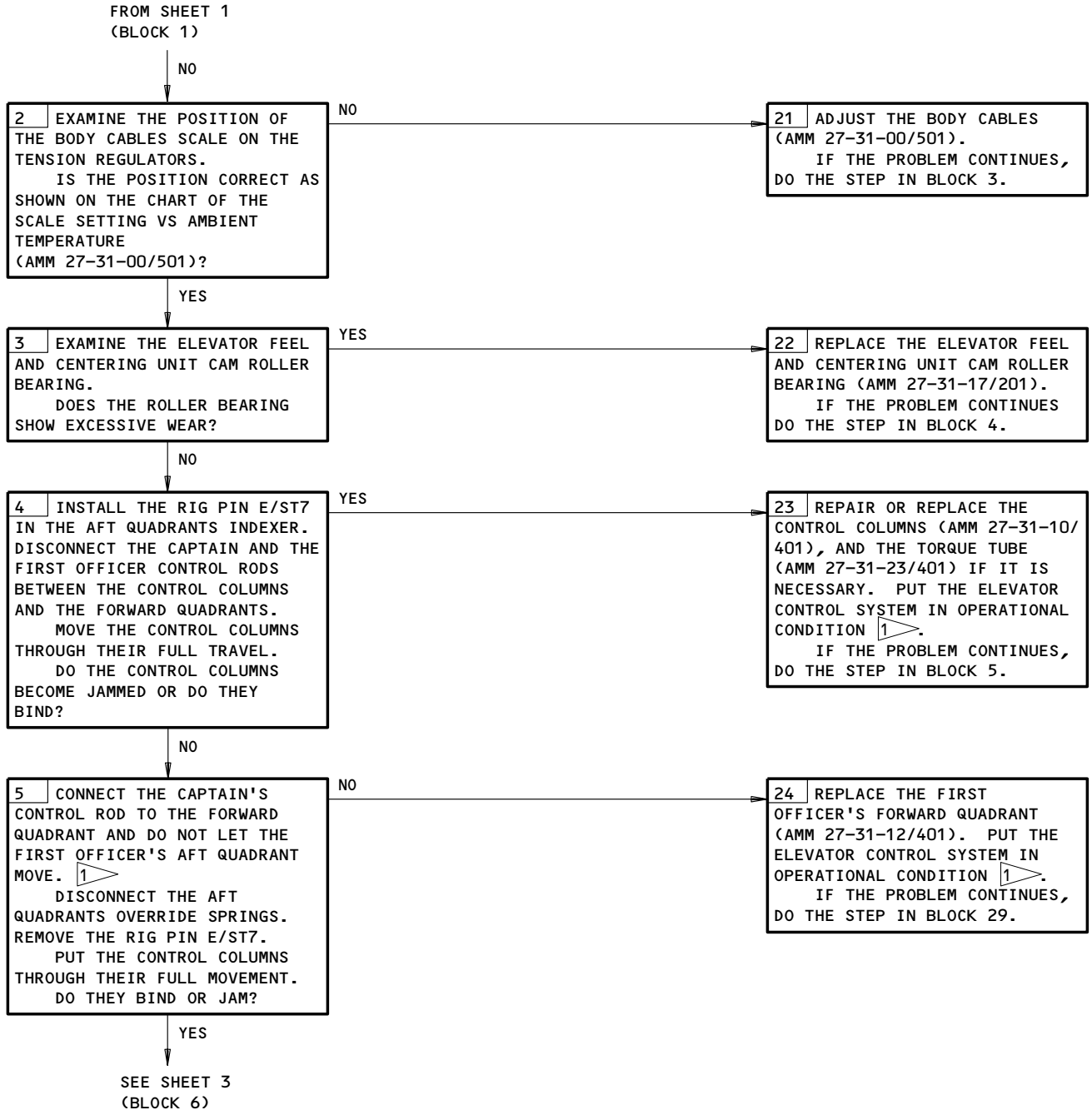


1 IF THE RIGGING IS CHANGED, YOU MUST ADJUST AND TEST THE RIGGING. DO THE OPERATIONAL TEST (AMM 27-31-00/501).

Elevator Controls Binding or Jammed  
Figure 105 (Sheet 1)

EFFECTIVITY	ALL
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**27-31-00**



**1** USE AFT QUADRANT RIGGING BLOCK B27023-14. RIG PINS ARE NOT SUITABLE BLOCKING TOOLS.

Elevator Controls Binding or Jammed  
Figure 105 (Sheet 2)

EFFECTIVITY

ALL

**27-31-00**

01

Page 113  
Jan 28/01

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FROM SHEET 2  
(BLOCK 5)

YES

**6** CONNECT THE FIRST OFFICER'S CONTROL ROD TO THE FORWARD QUADRANT AND DO NOT LET THE CAPTAIN'S ATF QUADRANT MOVE.  
LET THE FIRST OFFICER'S AFT QUADRANT MOVE. DISCONNECT THE CAPTAIN'S CONTROL ROD TO THE FORWARD QUADRANT.  
PUT THE CONTROL COLUMNS THROUGH THEIR FULL MOVEMENT.  
DO THEY BIND OR JAM?

NO

**25** REPLACE THE CAPTAIN'S FORWARD QUADRANT (AMM 27-31-12/401). PUT THE ELEVATOR CONTROL SYSTEM IN OPERATIONAL CONDITION **1**.  
IF THE PROBLEM CONTINUES, DO THE STEP IN BLOCK 30.

YES

**7** LET THE CAPTAIN'S AFT QUADRANT MOVE. INSTALL THE AFT QUADRANTS OVERRIDE SPRINGS. CONNECT THE CAPTAIN'S CONTROL ROD TO THE FORWARD QUADRANT. REMOVE THE FOUR PCA CENTERING SPRINGS. HOLD THE LEFT AND RIGHT AFT QUADRANTS OUTPUT CONTROL RODS AND DISCONNECT THEM. SUPPLY PRESSURE TO THE LEFT HYDRAULIC SYSTEM AND MAKE SURE THE FLIGHT CONTROL SHUTOFF SWITCH IS IN THE ON POSITION. SLOWLY MOVE THE LEFT ELEVATOR LINKAGE OUT BOARD UNTIL A PCA GETS TO THE BOTTOM. MOVE THE LINKAGE INBOARD UNTIL A PCA GET TO THE BOTTOM. DO THE MOVEMENT AGAIN WITH THE RIGHT ELEVATOR LINKAGE.  
DO THE LEFT AND RIGHT ELEVATORS MOVE THEIR FULL TRAVELS UPWARD AND DOWNWARD WITH NO BINDS OR JAMS?

NO

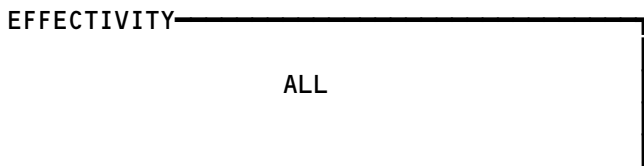
**26** DISCONNECT THE PCAs INPUT POGO RODS IF IT IS NECESSARY TO SEE THE BAD PCA. REPLACE THE PCA (AMM 27-31-05/401). PUT THE ELEVATOR CONTROL SYSTEM TO ITS OPERATIONAL CONDITION **1**.  
DO THE TEST FOR THE ELEVATOR TRAVEL LIMITS (AMM 27-31-00/501).

YES

SEE SHEET 4  
(BLOCK 8)

**1** USE A SUITABLE TOOL. RIG PINS ARE NOT SUITABLE BLOCKING TOOLS.

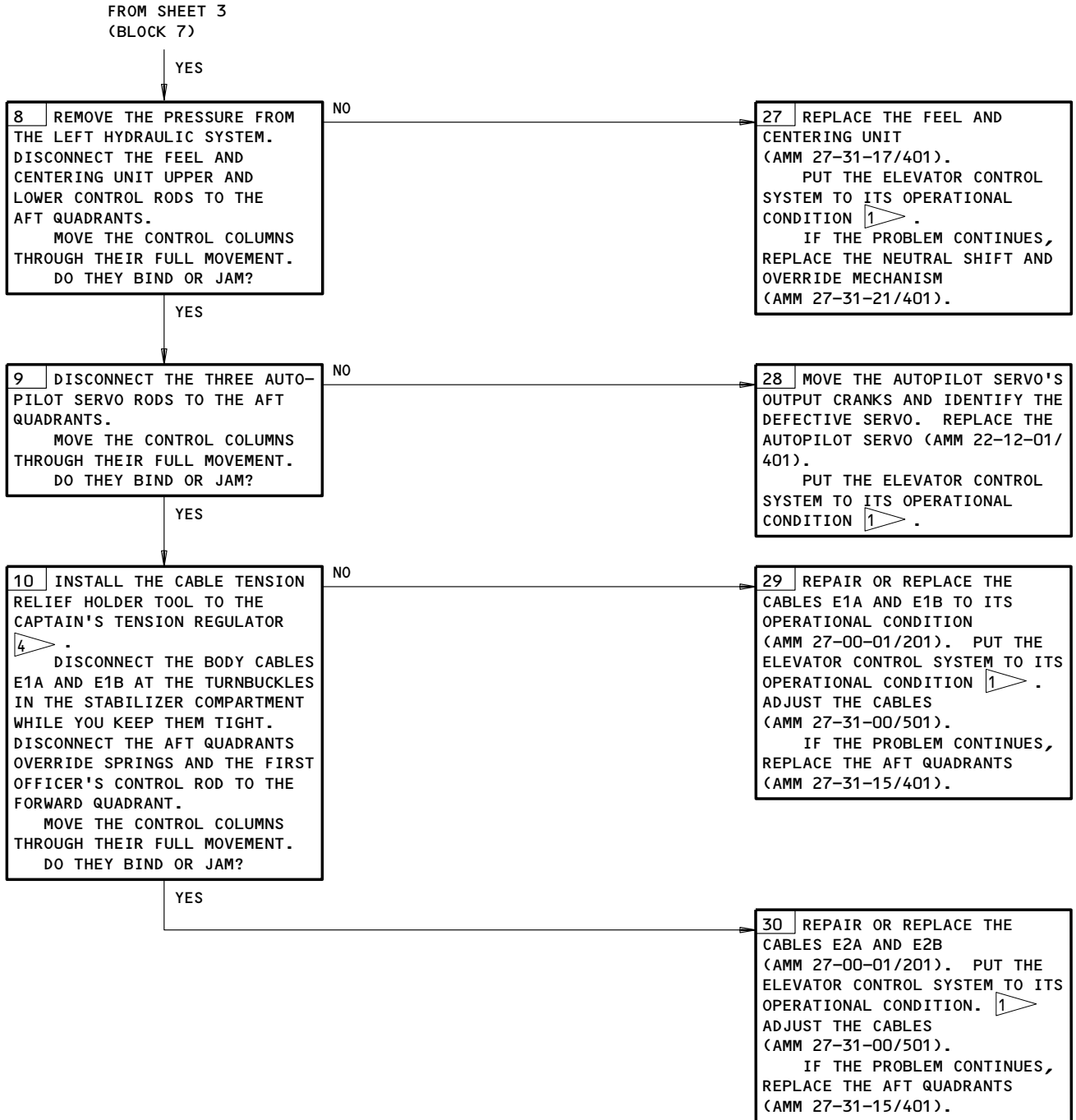
Elevator Controls Binding or Jammed  
Figure 105 (Sheet 3)



**27-31-00**

01

Page 114  
Jan 28/01



4 USE THE TOOL B27063-1 BEFORE YOU REMOVE THE CABLE TENSION.

Elevator Controls Binding or Jammed  
Figure 105 (Sheet 4)

EFFECTIVITY

ALL
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27-31-00



757

FAULT ISOLATION/MAINT MANUAL

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:

EICAS (MM 31-41-00/201)

PITOT-STATIC SYSTEM (MM 34-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

11H17,11H18,11H28,

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

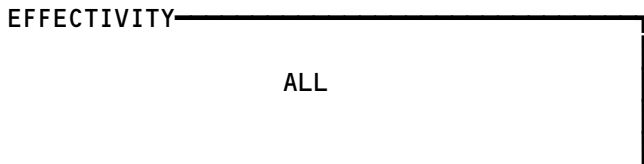
ELECTRICAL POWER IS ON (MM 24-22-00/201)

HYDRAULIC POWER IS ON (MM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

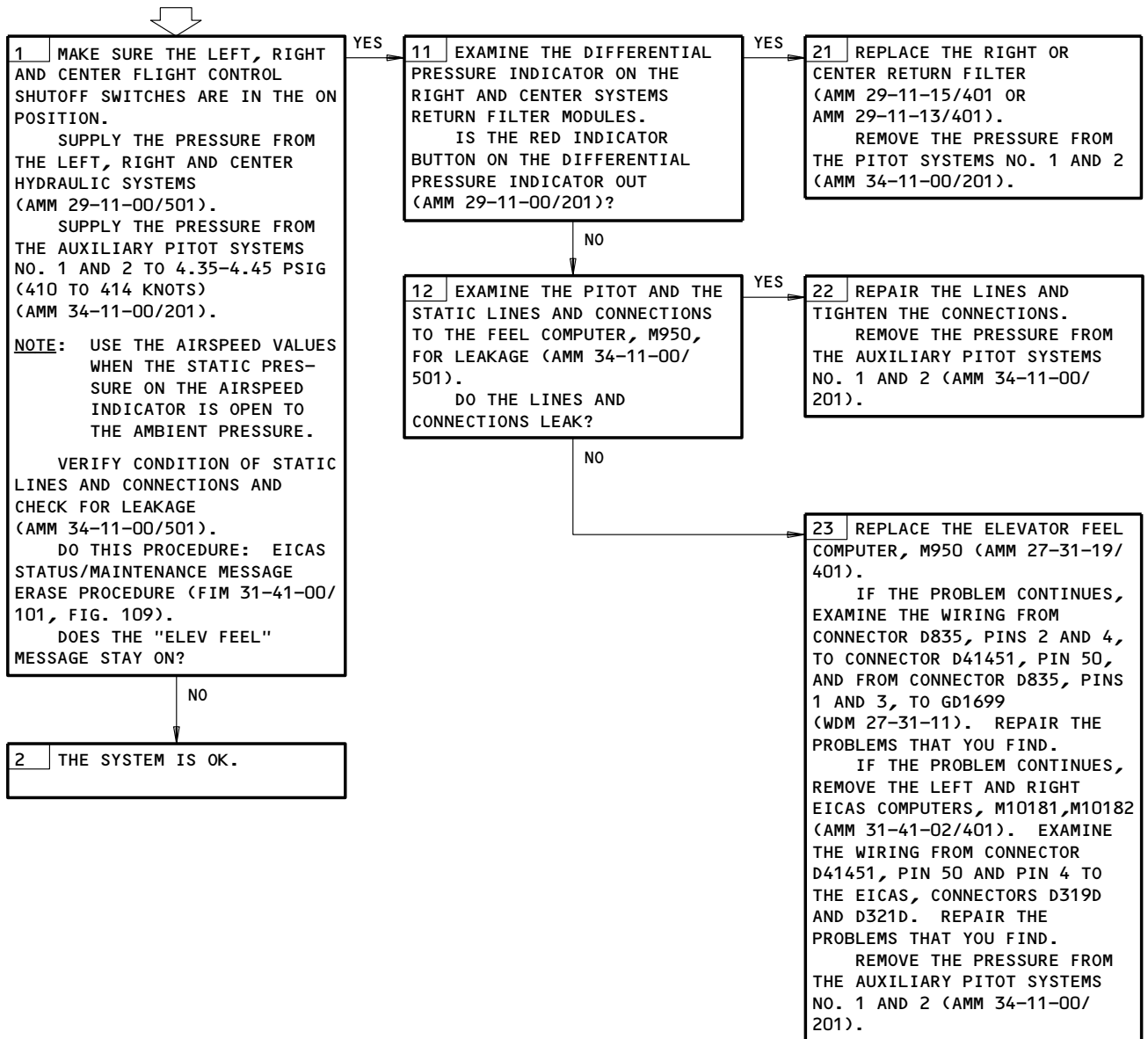
**NOTE:** DO NOT LET THE PRESSURE GO ABOVE 4.75 PSIG (426 KNOTS). THIS WILL PREVENT DAMAGE TO THE FEEL COMPUTER. MAKE PRESSURE CHANGES SUCH THAT THE INDICATED RATE OF CLIMB (OR DESCENT) IS LESS THAN 5000 FEET PER MINUTE FOR THE STATIC SYSTEM AND 300 KNOTS PER MINUTE FOR THE PITOT SYSTEM. APPLICABLE GAUGE SAVER RESTRICTIONS OR EQUIVALENT DEVICES MUST BE USED.

EICAS Message ELEV FEEL Displayed  
Figure 106 (Sheet 1)



27-31-00

**EICAS MESSAGE  
"ELEV FEEL"  
DISPLAYED**



EICAS Message ELEV FEEL Displayed  
Figure 106 (Sheet 2)

EFFECTIVITY

ALL

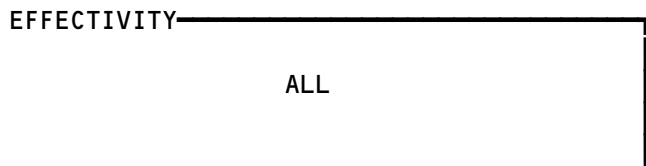
**27-31-00**

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Page 117  
Sep 28/99

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Figure 107



**27-31-00**

01

Page 118  
Sep 28/99

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**EICAS MESSAGE  
"(L, R) ELEV PCU"  
DISPLAYED**

**1** SUPPLY PRESSURE TO THE LEFT, RIGHT AND CENTER HYDRAULIC SYSTEMS (AMM 29-11-00/201).  
MAKE SURE THE RIGHT FLIGHT CONTROL SWITCH IS IN THE ON POSITION WHILE THE OTHER TWO SWITCHES ARE OFF.

**NOTE:** THIS CAN BE AN INTERMITTENT PROBLEM. IF YOU HAVE FOUND THIS TO BE AN INTERMITTENT PROBLEM, YOU CAN DO THE UNIFORMITY OF POWERED TRAVEL BETWEEN THE PCAS TEST IN BLOCK 10.

DO THIS PROCEDURE:  
MAINTENANCE MESSAGE ERASE PROCEDURE (FIM 31-41-00/101, FIG. 109).  
MOVE THE ELEVATOR CONTROL COLUMNS THROUGH THEIR FULL TRAVEL SEVERAL TIMES. USE THE CAPTAIN'S COLUMN, THEN USE THE FIRST OFFICER'S COLUMN.  
MAKE SURE THE ELEVATOR MOVEMENTS CORRESPOND CLOSELY TO THE CONTROL COLUMN MOVEMENTS.  
DO THE ABOVE TEST WITH THE LEFT AND THEN THE CENTER FLIGHT CONTROL SHUTOFF SWITCHES IN THE ON POSITION, WHILE THE OTHER TWO SWITCHES ARE OFF.  
DOES THE "(L, R) ELEV PCU" MESSAGE STAY ON, OR DO THE ELEVATOR MOVEMENTS NOT CLOSELY CORRESPOND TO THE CONTROL COLUMN MOVEMENTS?

**2** REMOVE THE PRESSURE FROM THE LEFT, RIGHT AND CENTER HYDRAULIC SYSTEMS.  
THE SYSTEM IS OK.

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11J10, 11J11

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**EQUIPMENT:**

TEST BOX, RUDDER ELEVATOR PCU MONITOR SYSTEM - B27061

**NOTE:** IF THE TEST BOX IS NOT AVAILABLE, YOU CAN USE THREE 750-OHM, 10-WATT RESISTORS.

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

**10** DO THE UNIFORMITY OF POWERED TRAVEL BETWEEN THE PCAS TEST SECTION OF THE ELEVATOR TRAVEL LIMITS TEST (AMM 27-31-00/501).  
DO THIS PROCEDURE:  
MAINTENANCE MESSAGE ERASE PROCEDURE (FIM 31-41-00/101, FIG. 109).  
MOVE THE ELEVATOR CONTROL COLUMNS THROUGH THEIR FULL TRAVEL SEVERAL TIMES. USE THE CAPTAIN'S COLUMN, THEN USE THE FIRST OFFICER'S COLUMN.  
DOES THE "(L, R) ELEV PCU" MESSAGE STAY ON?

**20** REMOVE THE PRESSURE FROM THE LEFT, RIGHT AND CENTER HYDRAULIC SYSTEMS (AMM 29-11-00/201).

YES  
SEE SHEET 2  
(BLOCK 11)

EICAS Message (L, R) ELEV PCU Displayed  
Figure 108 (Sheet 1)

EFFECTIVITY

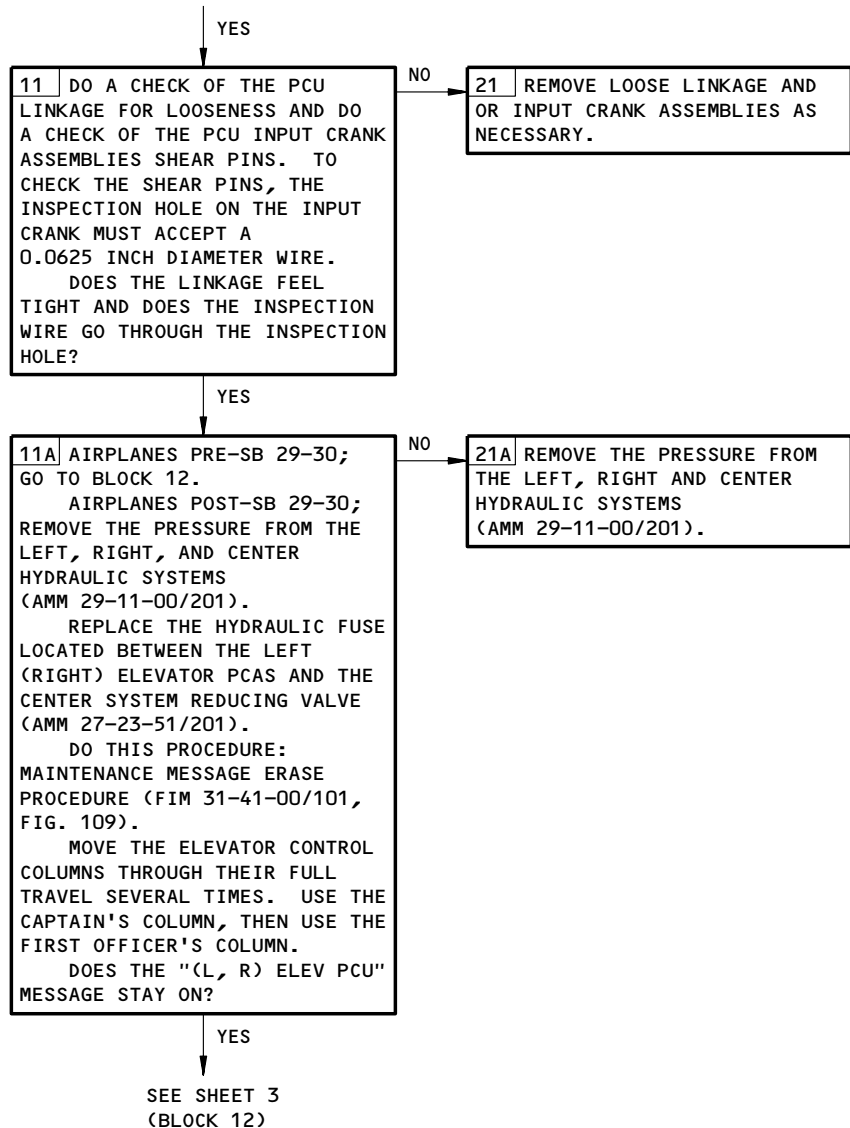
ALL

**27-31-00**



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 10)



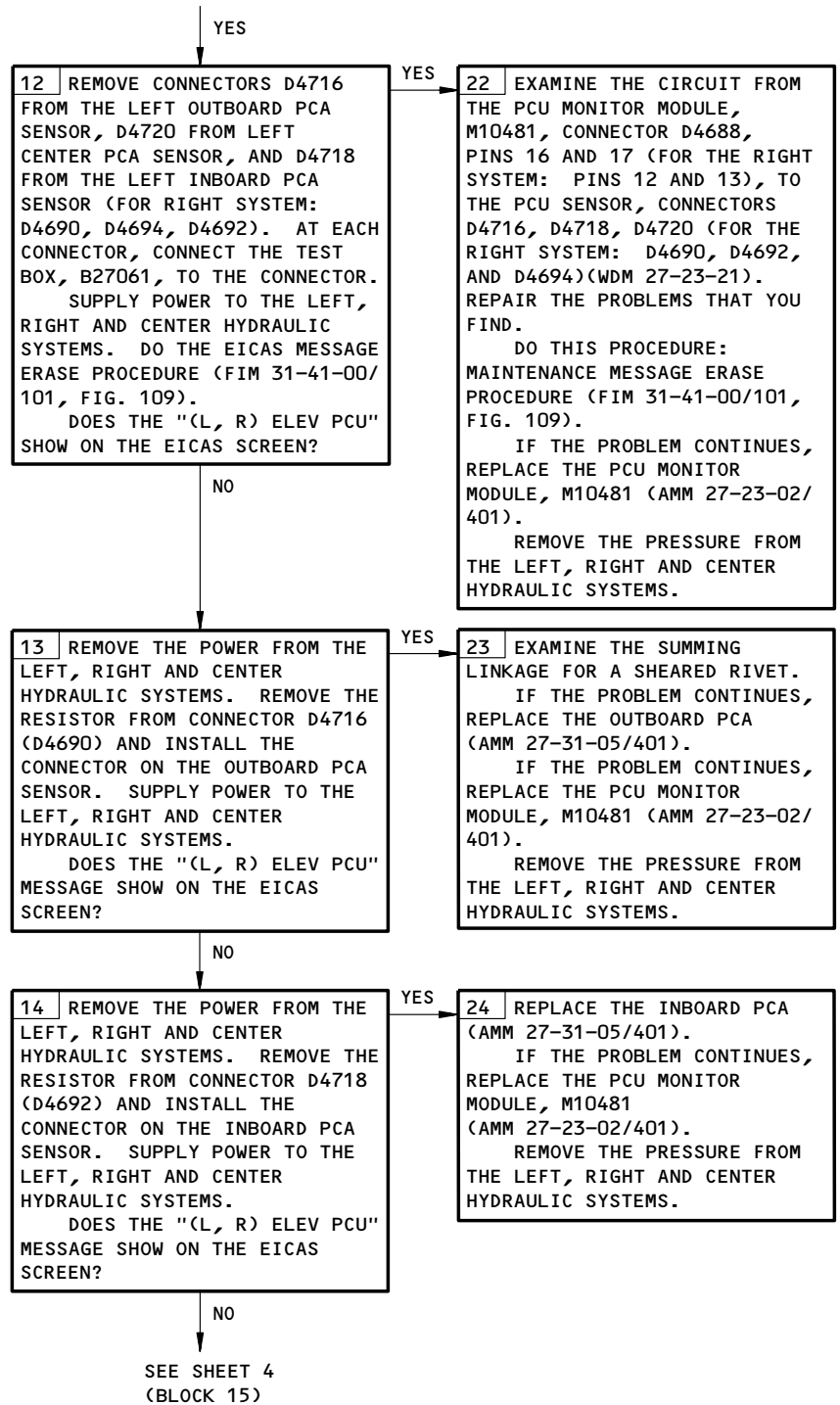
EICAS Message (L, R) ELEV PCU Displayed  
Figure 108 (Sheet 2)

EFFECTIVITY	ALL
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27-31-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 11A)



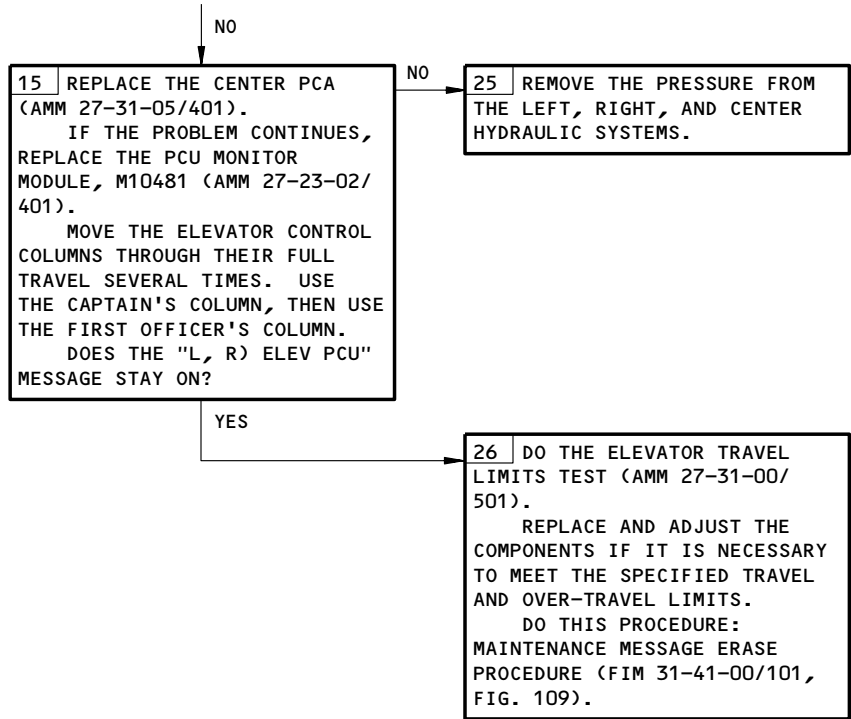
EICAS Message (L, R) ELEV PCU Displayed  
Figure 108 (Sheet 3)

EFFECTIVITY	ALL
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**27-31-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 14)



EICAS Message (L, R) ELEV PCU Displayed  
Figure 108 (Sheet 4)

EFFECTIVITY	ALL
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**27-31-00**



757

FAULT ISOLATION/MAINT MANUAL

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11H17,11H18,11H28

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN THE HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN THE HYDRAULIC POWER IS SUPPLIED.

**NOTE:** WHEN THE HYDRAULIC POWER IS SUPPLIED WITH THE ELECTRIC PUMPS AND THERE IS A HIGH NEED FOR HYDRAULIC POWER, AN EICAS MESSAGE CAN BE SHOWN. IF YOU DO THE PROCEDURE IN BLOCK 1 TO ERASE THE MESSAGE AND THE MESSAGE STAYS OFF, THEN THE MESSAGE IS A NUISANCE MESSAGE AND THE SYSTEM IS NORMAL.

EICAS Message (L,R,C) ELEV HYD PRESS Displayed  
Figure 109 (Sheet 1)

EFFECTIVITY	ALL
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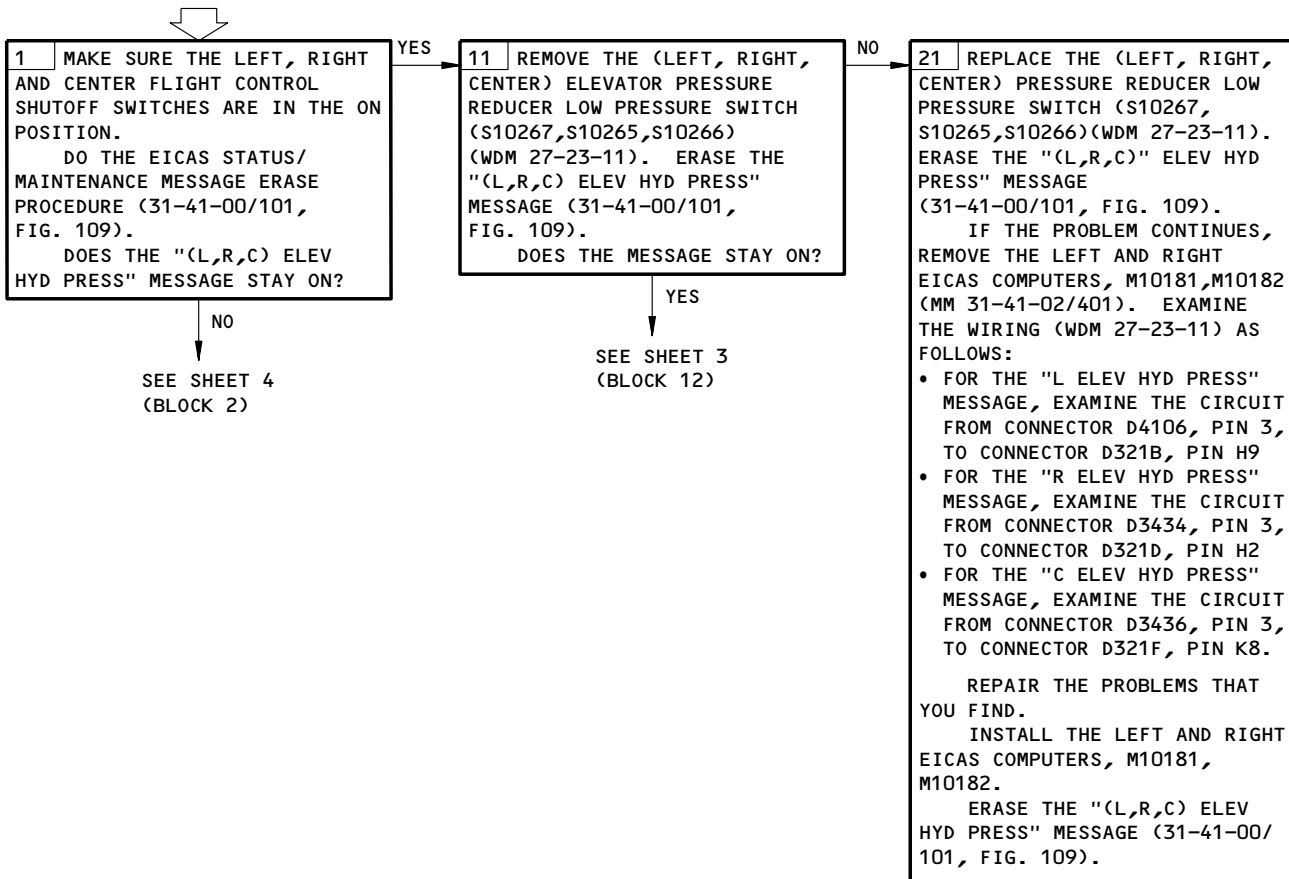
27-31-00

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Page 123  
Jan 20/99

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**EICAS MESSAGE  
"(L,R,C) ELEV HYD  
PRESS" DISPLAYED**



EICAS Message (L,R,C) ELEV HYD PRESS Displayed  
Figure 109 (Sheet 2)

EFFECTIVITY

ALL

**27-31-00**

01

Page 124  
Jan 28/06

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 11)

YES

12 INSTALL THE (LEFT, RIGHT, CENTER) ELEVATOR PRESSURE REDUCER LOW PRESSURE SWITCH. REMOVE THE (LEFT, RIGHT, CENTER) ELEVATOR PRESSURE REDUCER HIGH PRESSURE SWITCH (S10264, S10262, S10263) (WDM 27-23-11). ERASE THE "(L,R,C) ELEV HYD PRESS" MESSAGE (FIM 31-41-00/101, FIG. 109).  
DOES THE MESSAGE STAY ON?

YES

22 REPLACE THE (LEFT, RIGHT, CENTER) ELEVATOR PRESSURE REDUCER (AMM 27-31-13/401). INSTALL THE (LEFT, RIGHT, CENTER) ELEVATOR PRESSURE REDUCER HIGH PRESSURE SWITCH (S10264, S10262, S10263) (WDM 27-23-11).  
ERASE THE "(L,R,C) ELEV HYD PRESS" MESSAGE (FIM 31-41-00/101, FIG. 109).

**NOTE:** IF THE "L ELEV HYD PRESS" MESSAGE STAYS ON, REPLACE THE ELEVATOR PRESSURE REDUCER BYPASS VALVE (AMM 27-31-13/401).

ERASE MESSAGE (FIM 31-41-00/101, FIG. 109).

IF THE PROBLEM CONTINUES, REMOVE THE LEFT AND RIGHT EICAS COMPUTERS, M10181, M10182 (AMM 31-41-02/401). EXAMINE THE WIRING (WDM 27-23-11) AS FOLLOWS:

- FOR THE "ELEV HYD PRESS" MESSAGE, EXAMINE CIRCUIT FROM CONNECTOR D4104, PIN 1, TO CONNECTOR D321A, PIN H9, AND FROM CONNECTOR D4106, PIN 3, AND TO CONNECTOR D321B, PIN H9
- FOR THE "R ELEV HYD PRESS" MESSAGE, EXAMINE CIRCUIT FROM CONNECTOR D3430, PIN 1, AND CONNECTOR D321D, PIN K4, AND FROM CONNECTOR D3434, PIN 3, TO CONNECTOR D321D, PIN H2
- FOR THE "C ELEV HYD PRESS" MESSAGE, EXAMINE CIRCUIT FROM CONNECTOR D3432, PIN 1, TO CONNECTOR D321F, PIN J6, AND FROM CONNECTOR D3436, PIN 3, TO CONNECTOR D321F, PIN K8.

REPAIR THE PROBLEMS THAT YOU FIND.

INSTALL THE LEFT AND RIGHT EICAS COMPUTERS, M10181, M10182.

ERASE THE "(L,R,C) ELEV HYD PRESS" MESSAGE (FIM 31-41-00/101, FIG. 109).

NO

SEE SHEET 4  
(BLOCK 23)

EICAS Message (L,R,C) ELEV HYD PRESS Displayed  
Figure 109 (Sheet 3)

EFFECTIVITY

ALL

**27-31-00**

02

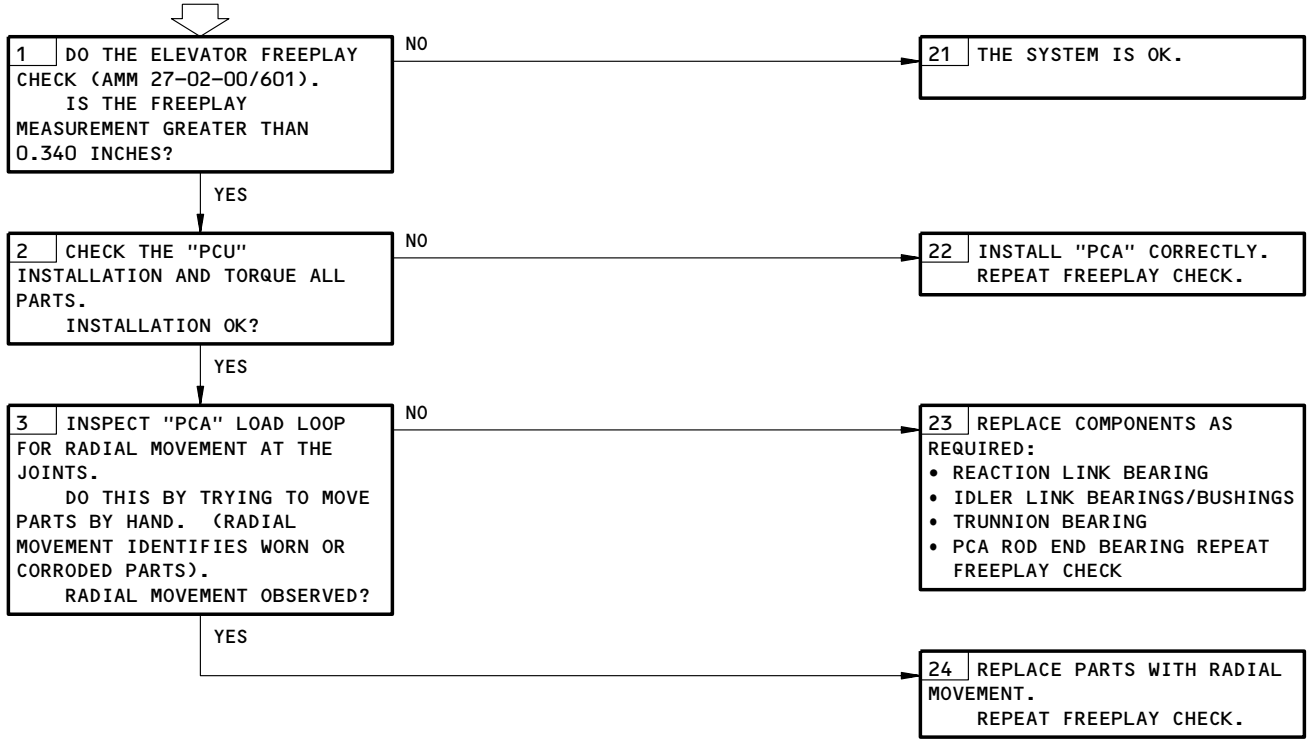
Page 125  
Jan 20/98

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**EXCESSIVE ELEVATOR  
FREEPLAY**

**PREREQUISITES**  
NONE



Excessive Elevator Freeplay  
Figure 110

EFFECTIVITY ————  
ALL

**27-31-00**



 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

STALL WARNING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER - LEFT STICK SHAKER, C1039 RIGHT STICK SHAKER, C4209 COMPUTER - (FIM 31-41-00/101) L EICAS, M10181 R EICAS, M10182 COMPUTER - (FIM 34-12-00/101) L AIR DATA, M100 R AIR DATA, M101 COMPUTER - (FIM 34-61-00/101) FLIGHT MANAGEMENT-LEFT, M134 FLIGHT MANAGEMENT-RIGHT, M135	1	1 1 1	FLT COMPT, P11 11C11 11J21	* *
COMPUTER - LEFT STALL WARNING, M615 COMPUTER - RIGHT STALL WARNING, M938 GENERATOR - (FIM 34-22-00/101) CENTER EFIS SYMBOL, M149 LEFT EFIS SYMBOL, M148 RIGHT EFIS SYMBOL, M150 MODULE - (FIM 31-51-00/101) POWER SUPPLY A, M616 POWER SUPPLY B, M621 MODULE - WEU BITE, M1411 PANEL - (FIM 30-32-00/101) MISC TEST, M10398 RELAY - (FIM 31-01-36/101) MAIN GEAR SYS 1, K149 SYSTEM 1 AIR/GROUND, K135 RELAY - (FIM 31-01-37/101) MAIN GEAR SYS 1, K207 SYSTEM 2 AIR/GROUND, K215 SHAKER - LEFT STICK, M240 SHAKER - RIGHT STICK, M952 SWITCH - L STALL TEST (S1)	2 2	1 1	119BL, MAIN EQUIP CTR, P51 119BL, MAIN EQUIP CTR, P51	27-32-01 27-32-01
SWITCH - R STALL TEST (S2)	2	1	119BL, MAIN EQUIP CTR, P51	27-32-02
UNIT - (FIM 27-51-00/101) FLAP/SLAT ELECTRONIC 1, M10331 FLAP/SLAT ELECTRONIC 2, M10332 FLAP/SLAT ELECTRONIC 3, M10333 UNIT - (FIM 34-21-00/101) CENTER INERTIAL REFERENCE, M160 LEFT INERTIAL REFERENCE, M159 RIGHT INERTIAL REFERENCE, M161	1 1 1 1	1 1 1 1	FLT COMPT FLT COMPT FLT COMPT, P61, MISC TEST PNL, M10398 FLT COMPT, P61, MISC TEST PNL, M10398	27-32-05 27-32-05 * *

\* SEE THE WDM EQUIPMENT LIST

 AIRPLANES WITH SPEED TAPE

Stall Warning System - Component Index  
Figure 101

EFFECTIVITY

ALL

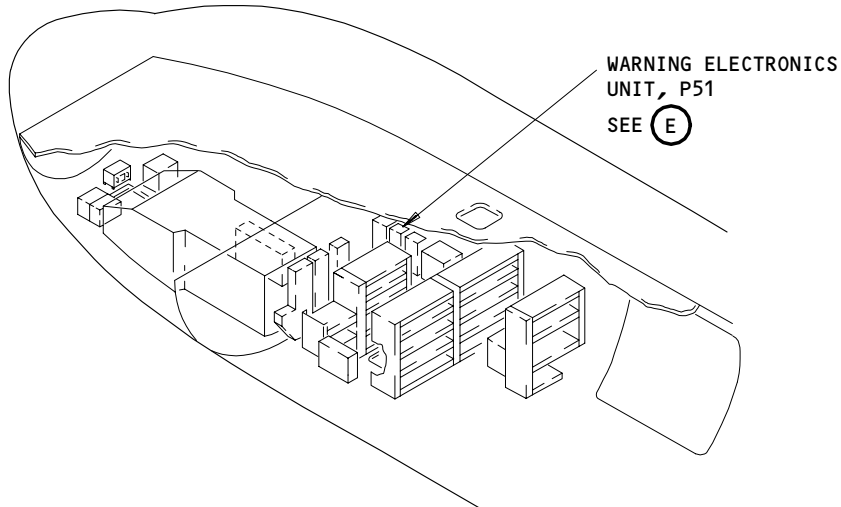
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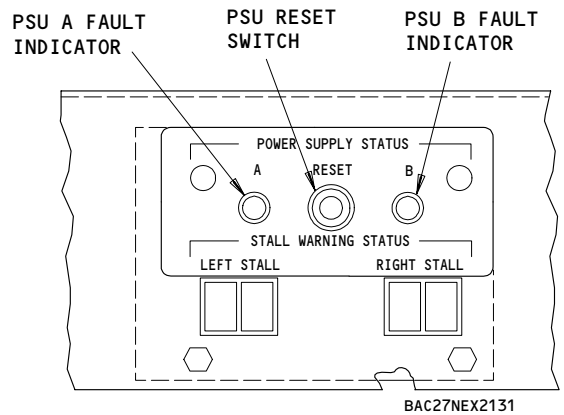
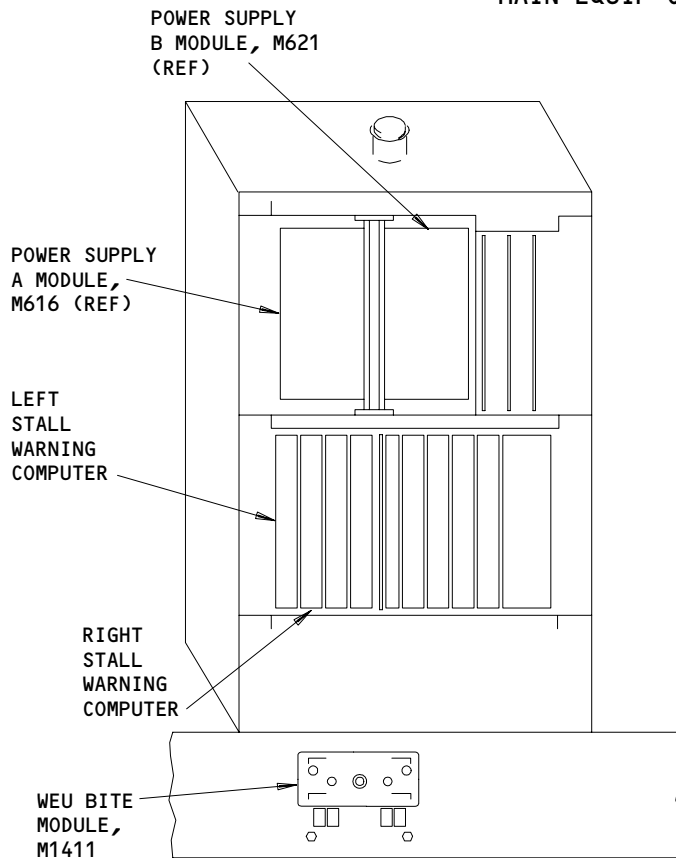
Page 101  
Jun 20/93

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



**MAIN EQUIP CTR**



**WEU BITE MODULE, M1411**

(H)

**WARNING ELECTRONICS UNIT, P51**

(E)

Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

**27-32-00**

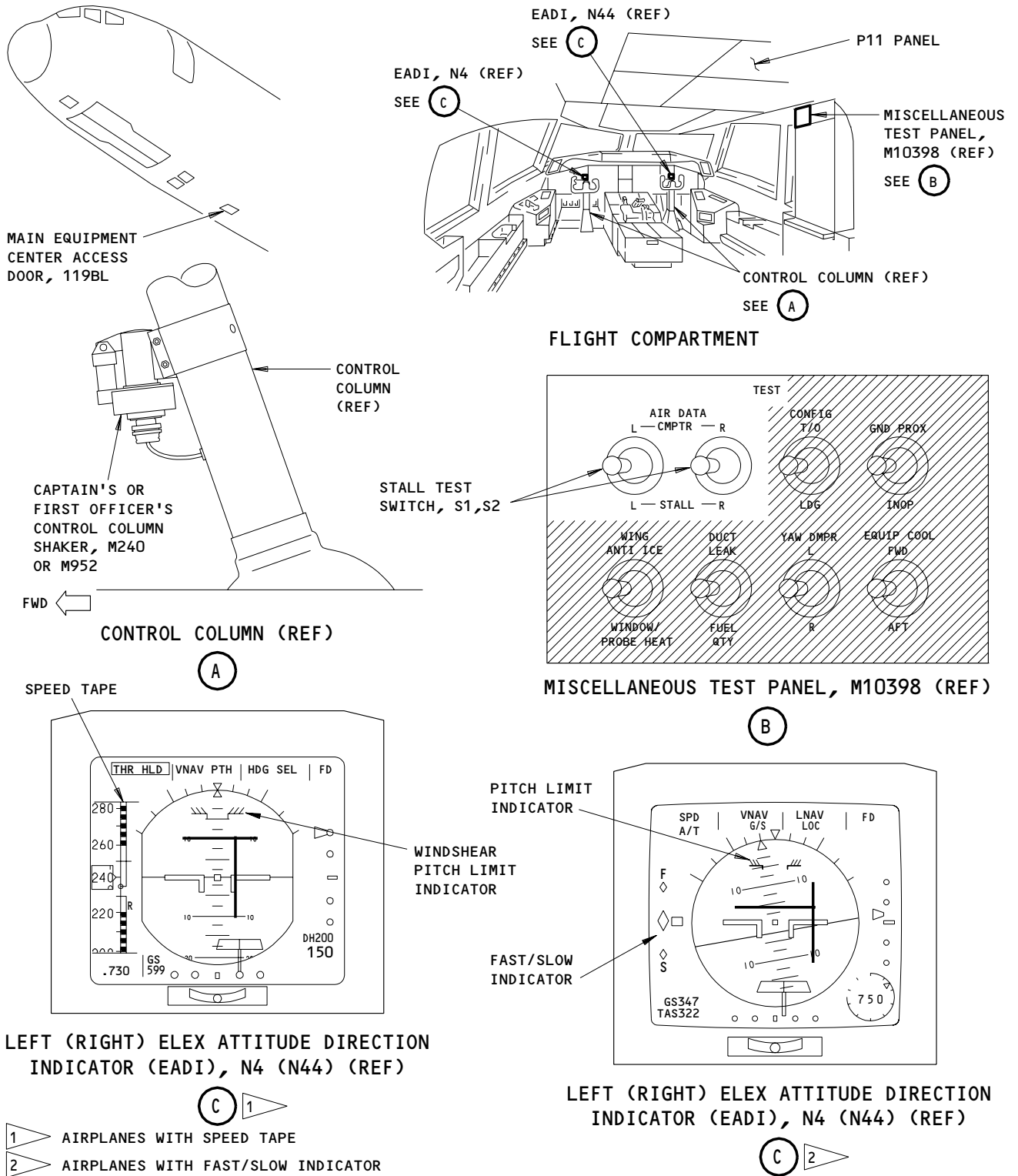
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Page 102  
Dec 20/88

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



Stall Warning System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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27-32-00

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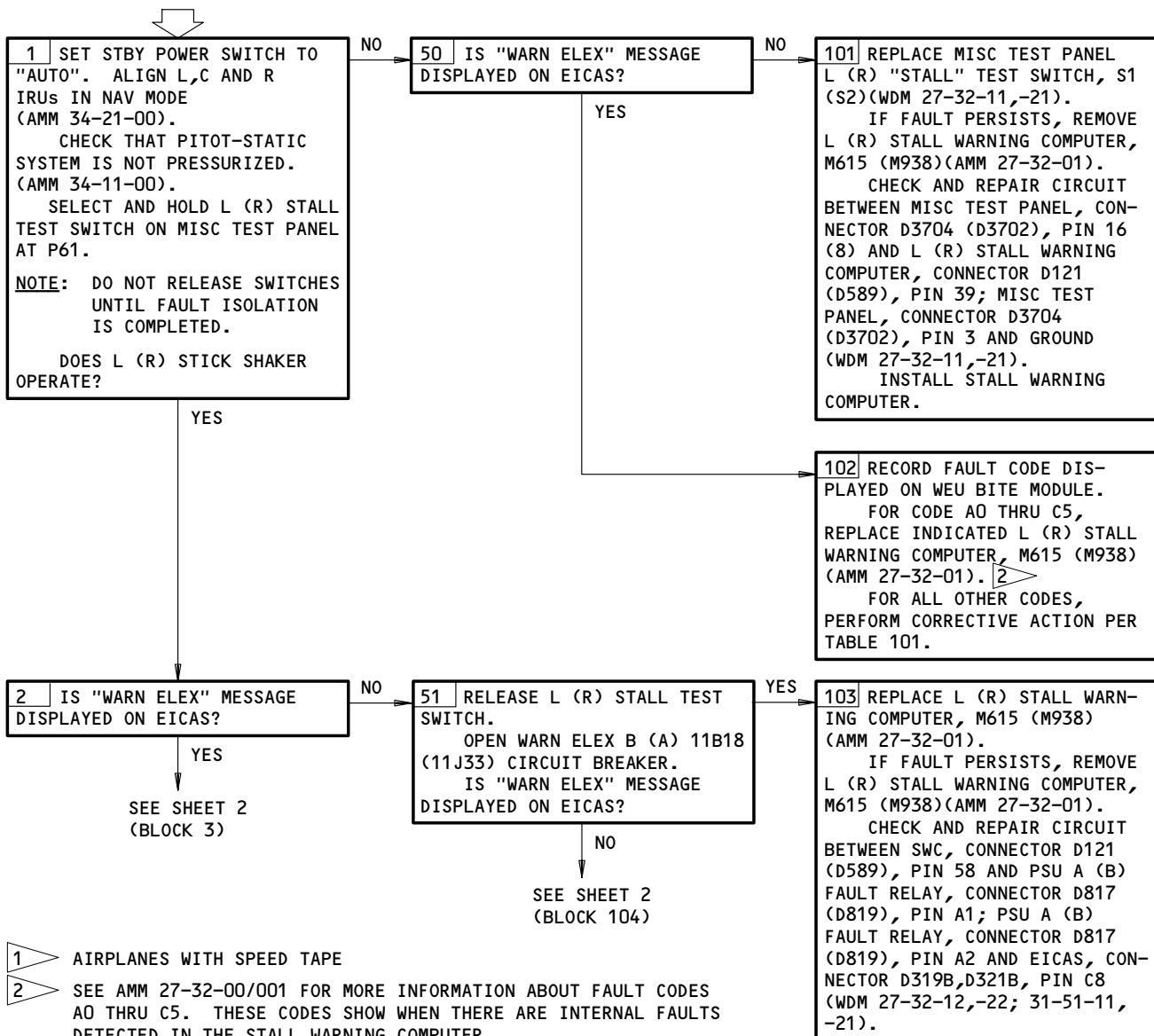
Page 103  
Jun 20/93

**STALL WARNING  
COMPUTER (SWC)  
BITE PROCEDURE**

**PREREQUISITES**

ELECTRICAL POWER (AMM 24-22-00)  
FLAP/SLAT ELECTRONIC UNIT (AMM 27-51-00)  
AIR DATA COMPUTER SYSTEM (AMM 34-12-00)  
AIR/GROUND SYSTEM (AMM 32-09-02)  
ENGINE INDICATING/CREW ALERTING SYSTEM (EICAS)  
(AMM 31-41-00)  
INERTIAL REFERENCE SYSTEM (AMM 34-21-00)  
FLIGHT MANAGEMENT COMPUTER SYSTEM (AMM 34-61-00) ▶ 1

CB'S: 11B18,11C11,11J21,11J33



Stall Warning Computer (SWC) BITE Procedure  
Figure 103 (Sheet 1)

EFFECTIVITY

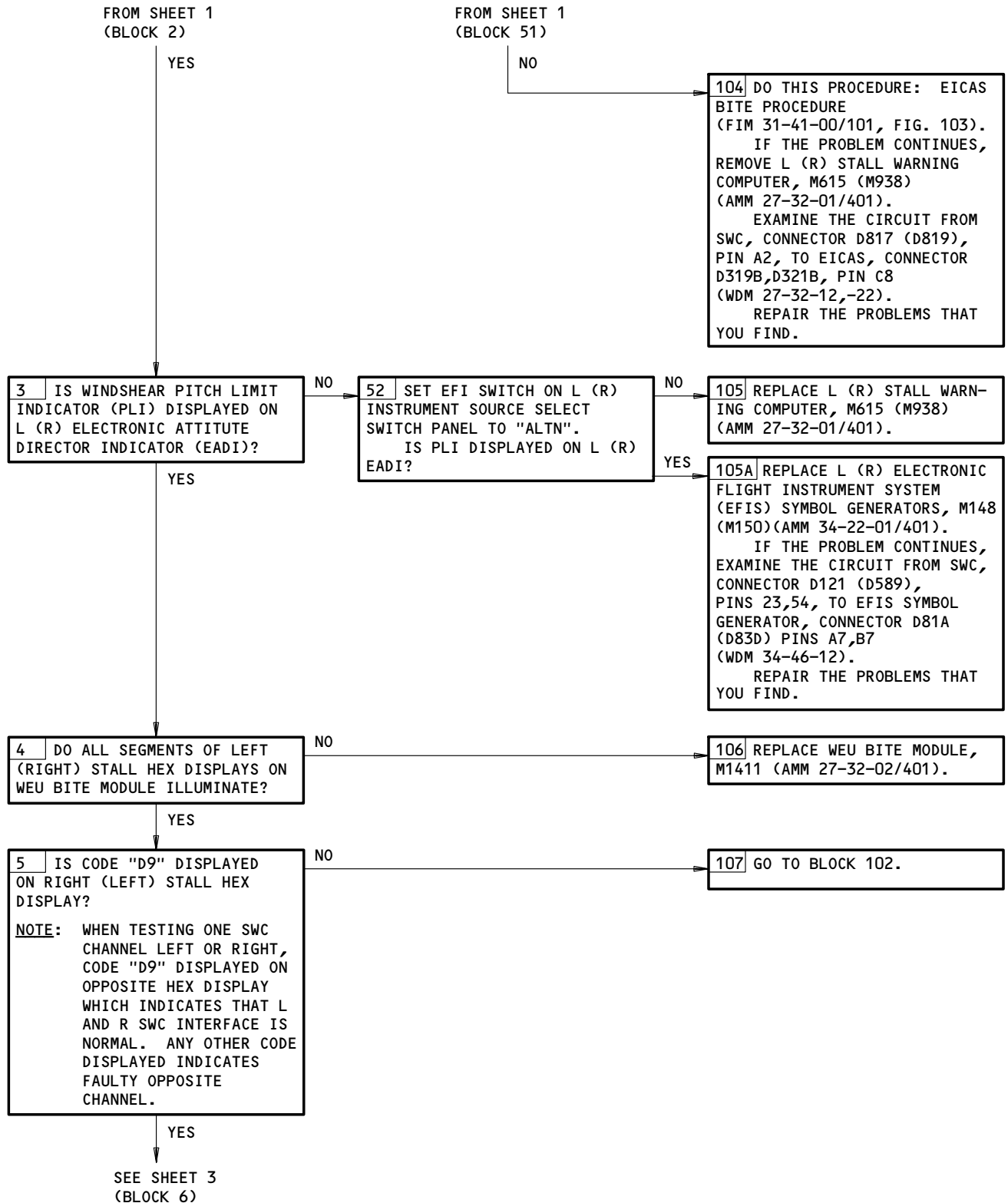
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**27-32-00**

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Page 104  
Jun 20/93

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Stall Warning Computer (SWC) BITE Procedure  
Figure 103 (Sheet 2)

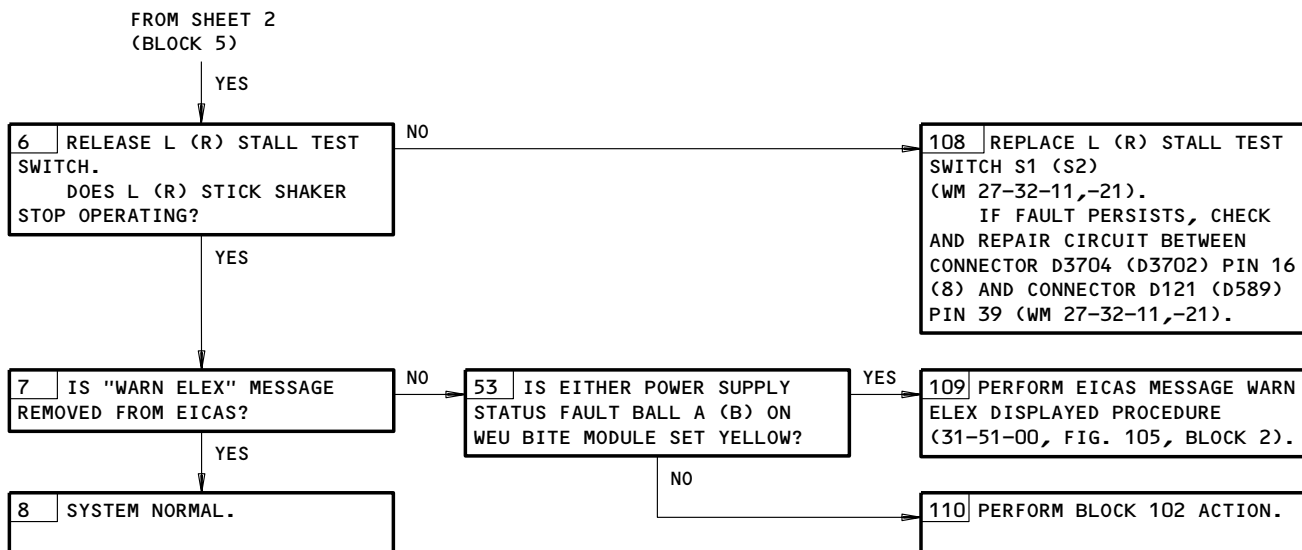
EFFECTIVITY

ALL

27-32-00

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Page 105  
Mar 20/88



Stall Warning Computer (SWC) BITE Procedure  
Figure 103 (Sheet 3)

EFFECTIVITY

ALL
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27-32-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

TABLE 101	
FAULT CODE	CORRECTIVE ACTION
D0	REPLACE L (R) STICK SHAKER M240 (M952)(MM 27-32-05). IF FAULT PERSISTS, CHECK AND REPAIR CIRCUIT BETWEEN L (R) STICK SHAKER CB C1039 (C4209) AND CONNECTOR D121 (D589) PIN 34 (WM 27-32-11,-21).
D1	PERFORM L (R) ADC BITE PROCEDURE (34-12-00, FIG. 109, BLOCK 1).
D2	PERFORM FLAPS/SLATS ELECTRONIC UNIT BITE PROCEDURE (27-51-00, FIG. 104, BLOCK 1). IF FAULT PERSISTS, CHECK AND REPAIR CIRCUIT BETWEEN L (R) SWC CONNECTOR D121 (D589) PIN 31 AND FSEU-2 (FSEU-3) CONNECTOR D3258B (D3260B) PIN 13 (WM 27-32-11,-21).
D4	PERFORM FSEU BITE PROCEDURE (27-51-00, FIG. 104, BLOCK 1). REPEAT STALL WARNING BITE PROCEDURE. IF FAULT PERSISTS, CHECK AND REPAIR CIRCUIT BETWEEN L (R) SWC CONNECTOR D121 (D589) PINS 38,4,37 (4,7,37) AND FSEU-2 (FSEU-3,FSEU-1) CONNECTOR D3258B (D3260B,D3312A) PINS H10,E10,A10 (E10,H11,A10)(WM 27-32-11,-21).
D5	PERFORM FSEU BITE PROCEDURE (27-51-00, FIG. 104, BLOCK 1). REPEAT STALL WARNING BITE PROCEDURE. IF FAULT PERSISTS, CHECK AND REPAIR CIRCUIT BETWEEN L (R) SWC CONNECTOR D121 (D589) PINS 38,4,37 (4,7,37) AND FSEU-2 (FSEU-3,FSEU-1) CONNECTOR D3258B (D3260B,D3312A) PINS H10,E10,A10 (E10,H11,A10)(WM 27-32-11,-21).
D6	PERFORM IRS BITE TEST (34-21-00, FIG. 107, BLOCK 1).
D7	PERFORM FLIGHT MANAGEMENT COMPUTER SYSTEM BITE PROCEDURE (34-61-00, FIG. 109, BLOCK 1). IF FAULT PERSISTS, CHECK AND REPAIR CIRCUIT BETWEEN L (R) SWC CONNECTOR D121 (D589) PINS 19,20 AND TB201 PINS Z104,Z103 (TB203 PINS Z83,Z82)(WM 27-32-11,-21).
D8	SET L (R) IRS SOURCE SELECT SWITCH TO "ALTN". IF FAULT CODE D8 REMAINS, PERFORM ADC BITE PROCEDURE (34-12-00, FIG. 109, BLOCK 1). IF FAULT CODE D8 IS CLEARED, PERFORM IRS BITE TEST (34-21-00, FIG. 107, BLOCK 1).
D9	REPLACE THE OTHER STALL WARNING COMPUTER (MM 27-32-01). IF FAULT PERSISTS, CHECK AND REPAIR CIRCUIT BETWEEN L (R) STALL WARNING COMPUTER CONNECTOR D121 (D589) PIN 56 AND CONNECTOR D589 (D121) PIN 11 (WM 27-32-12).
FX	CHECK AND REPAIR CIRCUIT BETWEEN L (R) SWC CONNECTOR D589 (D121) PINS 42,44, AND GROUND (WM 27-32-12,-22).

NOTE: FAULT CODES NOT LISTED ARE NOT USED.

Stall Warning Computer (SWC) BITE Procedure  
Figure 103 (Sheet 4)

EFFECTIVITY

ALL

27-32-00

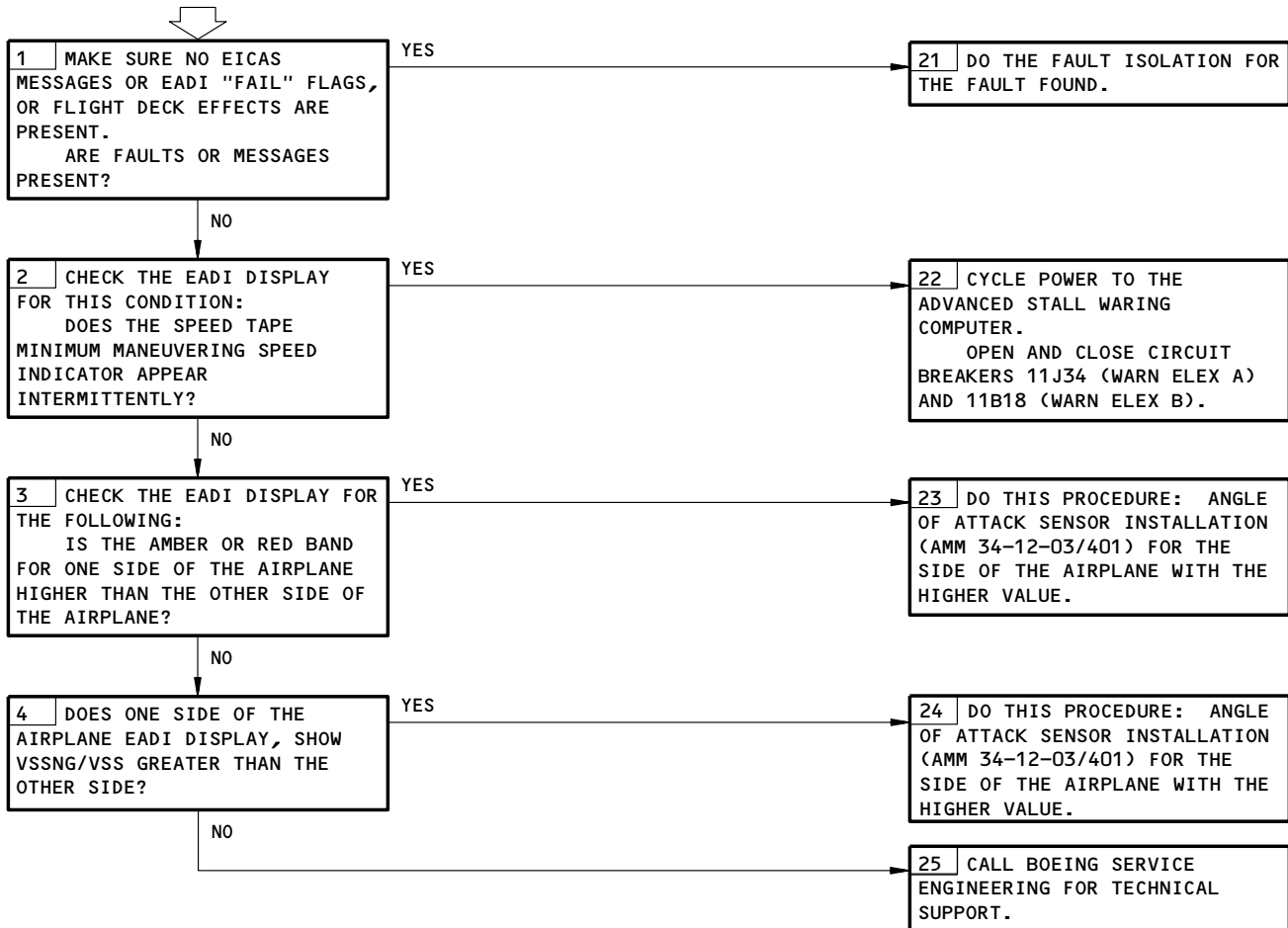
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Page 107  
Jun 20/88

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**EXCESSIVE DIFFERENCES  
BETWEEN AMBER OR  
RED BAND VALUES  
ON THE SPEED TAPE  
EICAS DISPLAY**

**PREREQUISITES**  
NONE



Excessive Differences Between AMBER or RED BAND Values  
On the Speed Tape EICAS Display  
Figure 104

<b>EFFECTIVITY</b>	ALL
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27-32-00





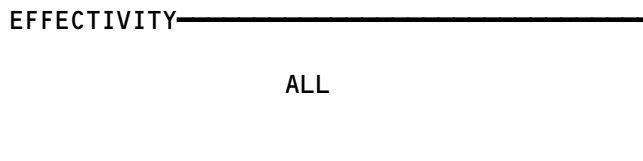
757  
 FAULT ISOLATION/MAINT MANUAL

ELEVATOR POSITION INDICATING SYSTEM

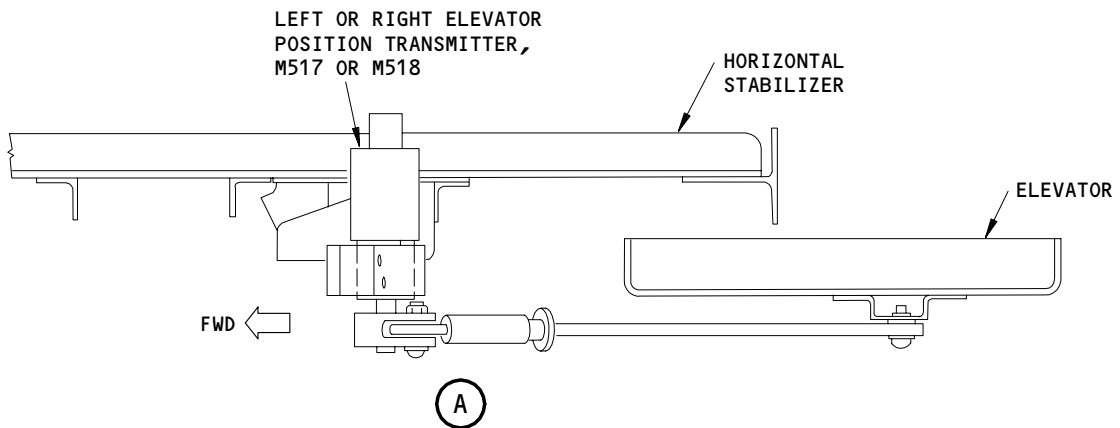
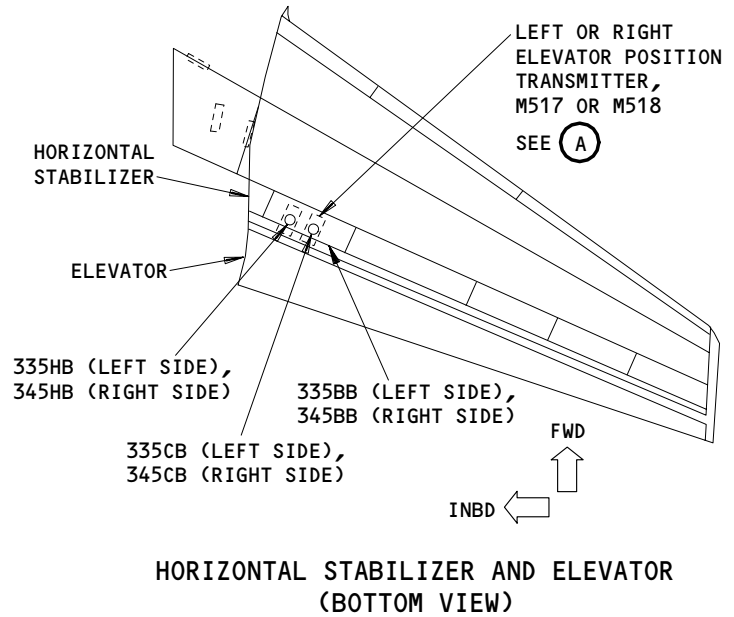
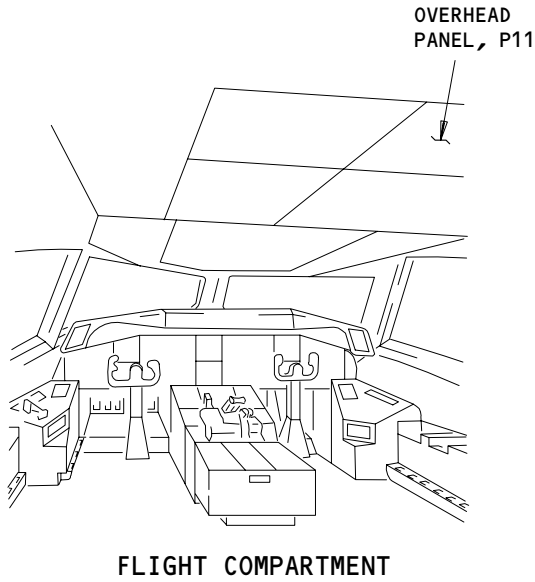
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER - ELEVATOR POS L, C4101 ELEVATOR POS R, C4102	--	1 1	FLIGHT COMPARTMENT, P11 PANEL 11J13 11J22	* *
COMPUTER - (FIM 31-41-00/101) EICAS L, M10181 EICAS R, M10182	--	1	335CB,335HB,335BB, STABILIZER	27-38-02
TRANSMITTER - ELEVATOR POSITION LEFT, M517 TRANSMITTER - ELEVATOR POSITION RIGHT, M518	-- --	1 1	345CB,345HB,345BB, STABILIZER	27-38-02

\* SEE THE WDM EQUIPMENT LIST

Elevator Position Indicating System - Component Index  
 Figure 101



27-38-00



Elevator Position Indicating System - Component Location  
Figure 102

EFFECTIVITY	ALL
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27-38-00

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

HORIZONTAL STABILIZER TRIM CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR - STAB TRIM BALLSCREW	3	1	311AL, AFT FUSELAGE	27-41-10
BRAKE - STAB TRIM SECONDARY	3	4	311AL, AFT FUSELAGE	27-41-13
CIRCUIT BREAKER -			FLIGHT COMPARTMENT, P11 PANEL	
STAB TRIM CONT L, C1017		1	11H11 OR 11C5	*
STAB TRIM CONT R, C1018		1	11H20	*
STAB TRIM POS IND L, C1002		1	11H10	*
STAB TRIM POS IND R, C1009		1	11H19	*
STAB TRIM SHUTOFF L, C1528		1	11C12	*
STAB TRIM SHUTOFF R, C1529		1	11C13	*
COMPUTER - (FIM 31-41-00/101)				
EICAS L, M10181				
EICAS R, M10182				
GIMBAL - STAB TRIM	3	2	311AL, AFT FUSELAGE	27-41-14
INDICATOR - (FIM 27-48-00/101)				
STAB TRIM POSITION, N68,N69				
MODULE - (FIM 27-09-00/101)				
STABILIZER TRIM/ELEV ASYM LIMIT L, M524				
STABILIZER TRIM/ELEV ASYM LIMIT R, M525				
MODULE - STAB TRIM CONTROL LEFT, M10897	3	1	311AL, AFT FUSELAGE	27-41-05
MODULE - STAB TRIM CONTROL RIGHT, M10898	3	1	311AL, AFT FUSELAGE	27-41-05
MODULE - (FIM 27-48-00/101)				
STAB TRIM LIMIT SWITCH AND POSITION TRANSMITTER, M10899,M10896,M10895				
MOTOR - STAB TRIM, HYDRAULIC	3	2	311AL, AFT FUSELAGE	27-41-11
PANEL - (FIM 30-31-00/101)				
LIGHT - STAB TRIM, L13				
LIGHT - UNSCHED STAB TRIM, L17				
PANEL - (FIM 76-11-00/101)				
FUEL CONTROL, M73				
RELAY - TRIM LIMIT SELECT LEFT, K574		1	119BL, MAIN EQUIPMENT CENTER, E3-1 SHELF	*
RELAY - TRIM LIMIT SELECT RIGHT, K575		1	119BL, MAIN EQUIPMENT CENTER, E4-1 SHELF	*
SWITCH - ALTERNATE STAB TRIM, S10580	1	1	FLIGHT COMPARTMENT, P10 PANEL	27-41-03
SWITCH - MANUAL STAB TRIM, S80,S81	1	2	FLIGHT COMPARTMENT, CONTROL WHEELS	27-41-01
SWITCH - STAB TRIM BRAKE PRESSURE, YB4S1, YB5S1	3	2	311AL, AFT FUSELAGE, STABILIZER TRIM CONTROL MODULES, M211,M212	*
SWITCH - STAB TRIM CUTOFF, S334,S335,S337, S338,S10234,S10235,S10236,S10237	2	8	113AL, FORWARD EQUIPMENT CENTER, CONTROL COLUMNS BASE	
SWITCH - STAB TRIM SHUTOFF CENTER, S5	1	1	FLIGHT COMPARTMENT, P10 PANEL, FUEL CONTROL PANEL M73	*
SWITCH - STAB TRIM SHUTOFF RIGHT, S6	1	1	FLIGHT COMPARTMENT, P10 PANEL, FUEL CONTROL PANEL M73	*
SWITCH - (FIM 29-31-00/101)				
HYD SYST C - ACMP PRESS, S10002				
HYD SYST R - ACMP PRESS, S32				
UNIT - (FIM 27-51-00/101)				
FLAP/SLAT ELECTRONIC, M10331,M10333				

\* SEE THE WDM EQUIPMENT LIST

Horizontal Stabilizer Trim Control System - Component Index  
Figure 101

EFFECTIVITY

ALL

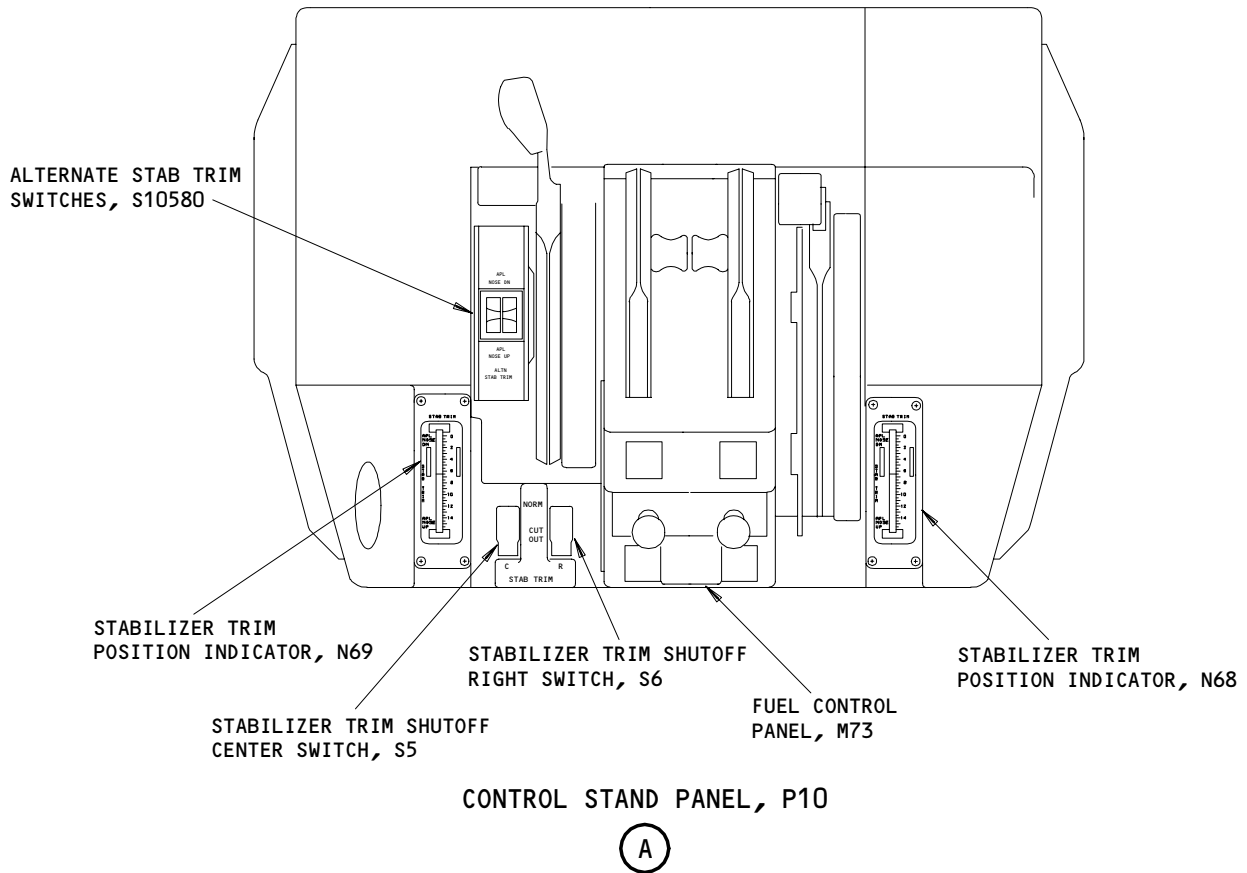
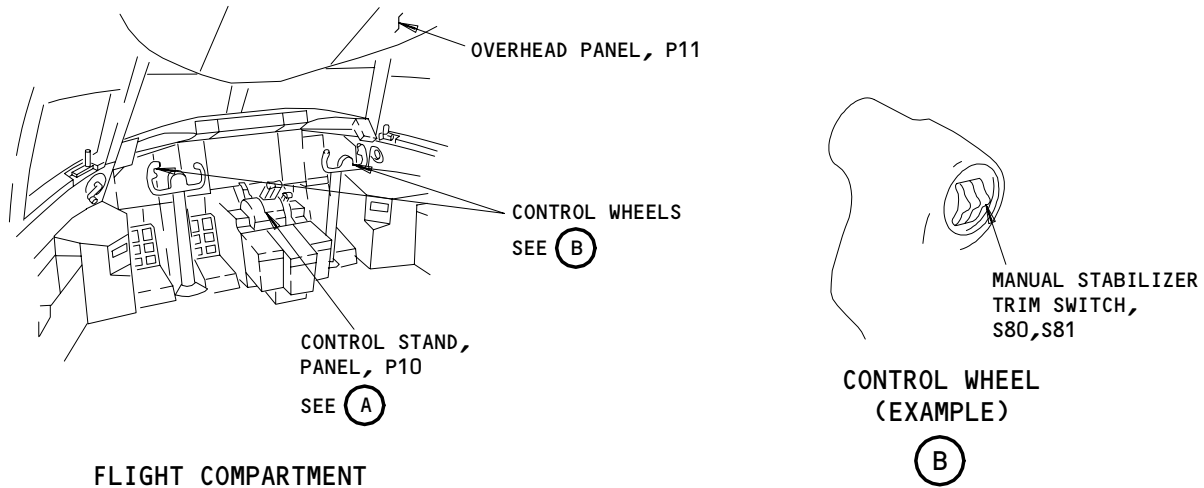
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Page 101  
Mar 20/94

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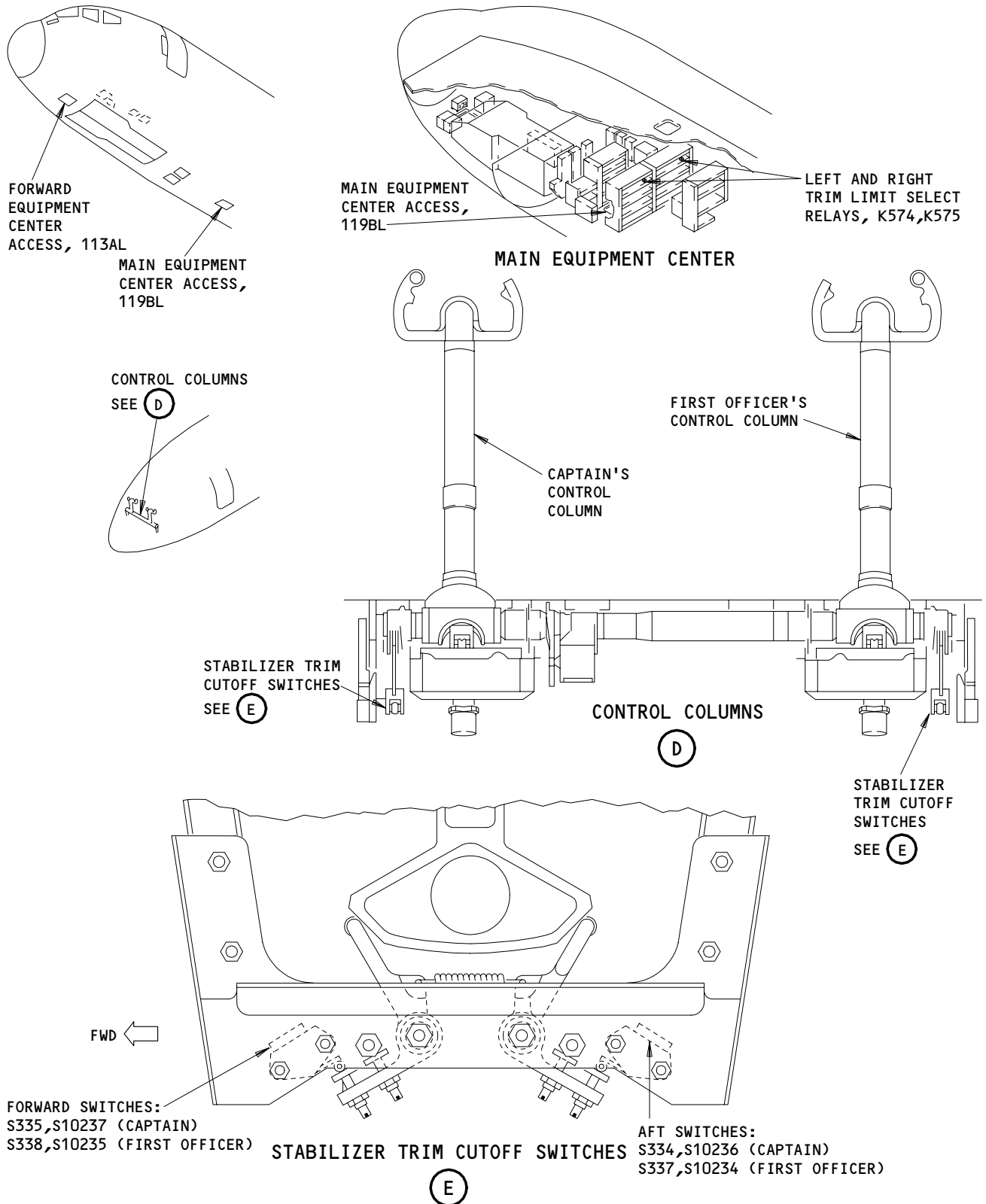
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FAULT ISOLATION/MAINT MANUAL



Horizontal Stabilizer Trim Control System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

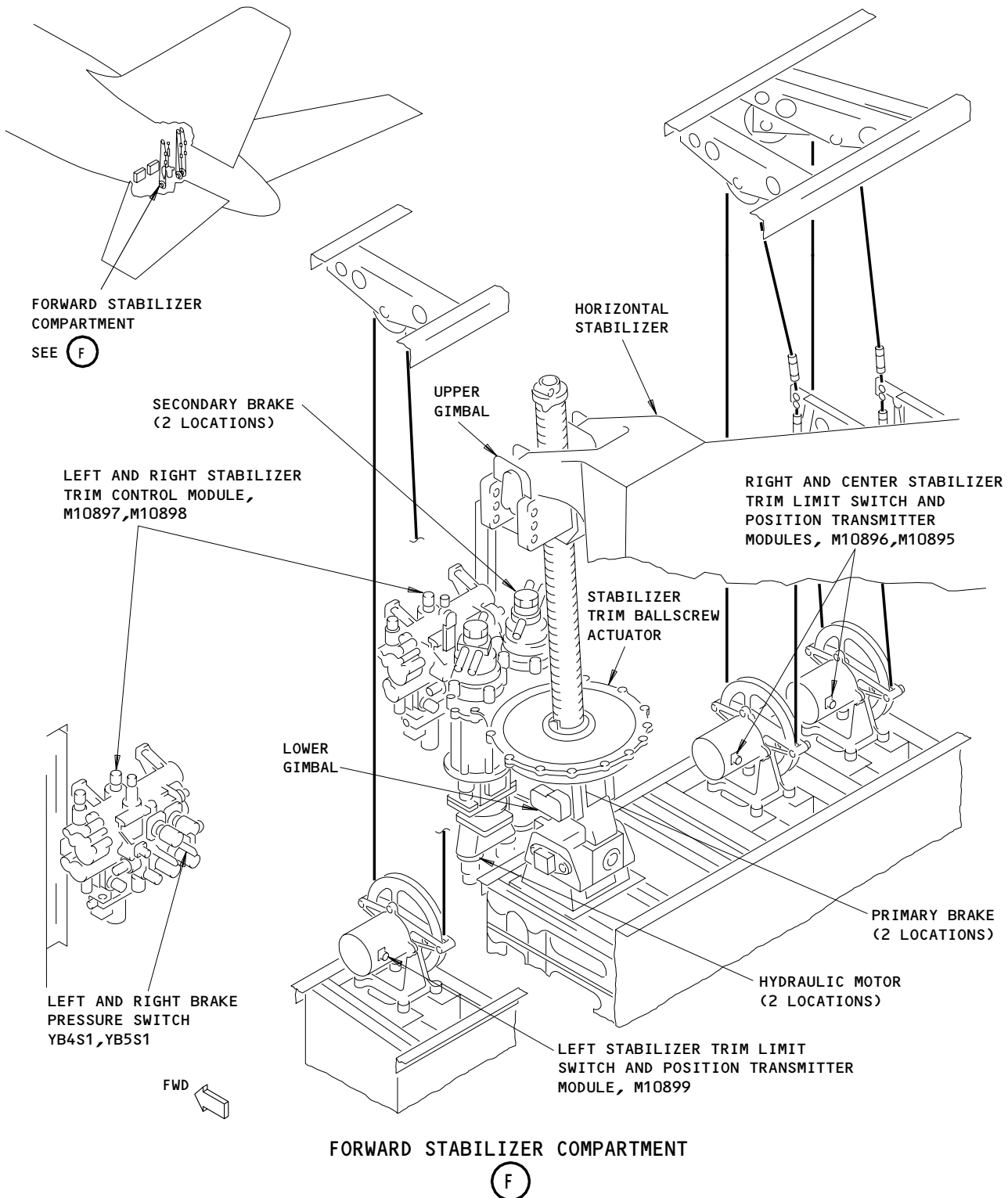
27-41-00



Horizontal Stabilizer Trim Control System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

27-41-00



Horizontal Stabilizer Trim Control System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY	
ALL	

27-41-00

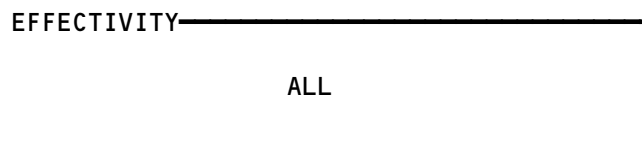

**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

STABILIZER TRIM POSITION INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS -	2		FLT COMPT, P11	
STAB POS MOD C, C1525		1	11F19	*
STAB POS MOD L, C1523		1	11G15	*
STAB POS MOD R, C1526		1	11G24	*
STAB TRIM POS IND L, C1002		1	11H10	*
STAB TRIM POS IND R, C1009		1	11H19	*
INDICATOR - STAB TRIM POS L, N69	2	1	FLT COMPT, CONT STAND, P10	27-48-06
INDICATOR - STAB TRIM POS R, N68	2	1	FLT COMPT, CONT STAND, P10	27-48-06
MODULE - STAB TRIM LIMIT SW & POS XMTR C, M10895	3	1	311AL, AFT FUSELAGE	27-48-01
MODULE - STAB TRIM LIMIT SW & POS XMTR L, M10899	3	1	311AL, AFT FUSELAGE	27-48-01
MODULE - STAB TRIM LIMIT SW & POS XMTR R, M10896	3	1	311AL, AFT FUSELAGE	27-48-01
MODULE STABILIZER POSITION C, M10409	4	1	119BL, MAIN EQUIP CTR, P50	27-48-03
MODULE STABILIZER POSITION L, M10408	4	1	119BL, MAIN EQUIP CTR, P50	27-48-03
MODULE STABILIZER POSITION R, M10410	4	1	119BL, MAIN EQUIP CTR, P50	27-48-03
TRANSFORMER - (REF 31-01-36-1, FIG. 101) CTR STAB POS PWR, T10031				

\* SEE THE WDM EQUIPMENT LIST

Stabilizer Trim Position Indicating System - Component Index  
Figure 101



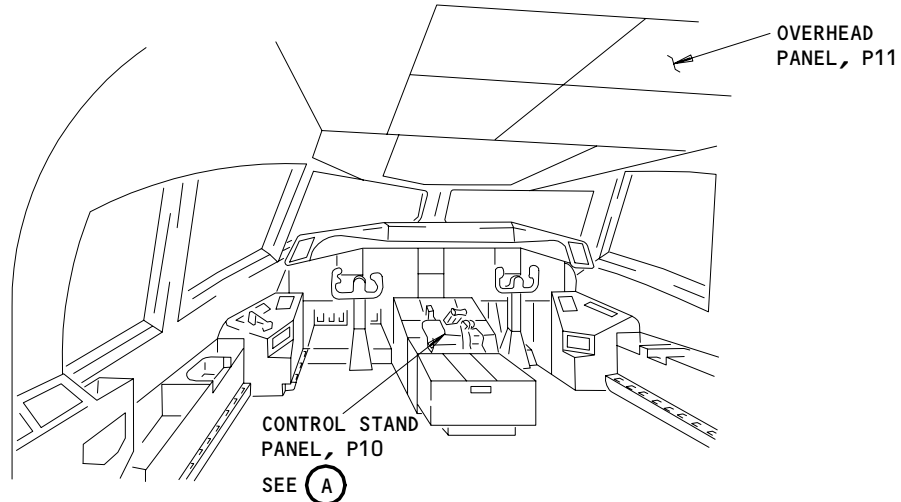
**27-48-00**

03

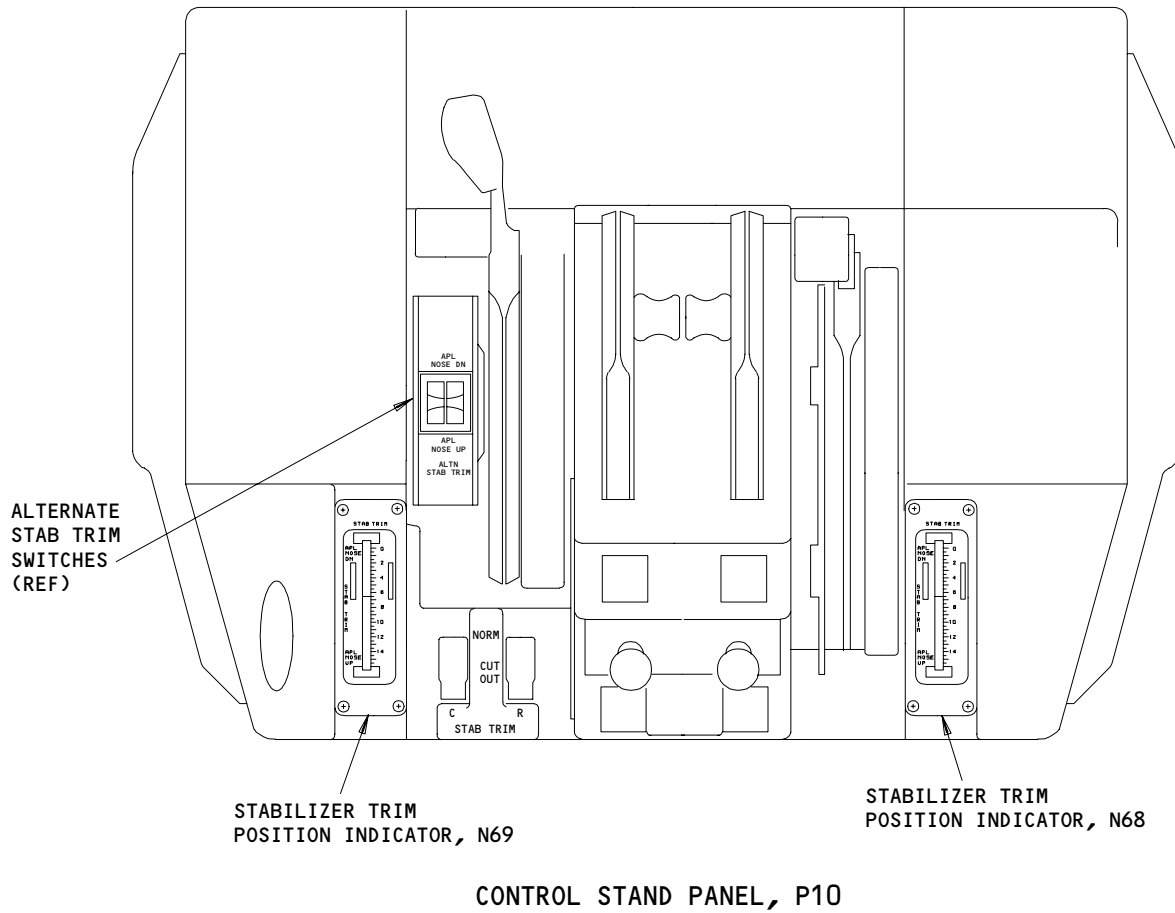
Page 101  
Mar 20/91

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 757  
 FAULT ISOLATION/MAINT MANUAL



FLIGHT COMPARTMENT



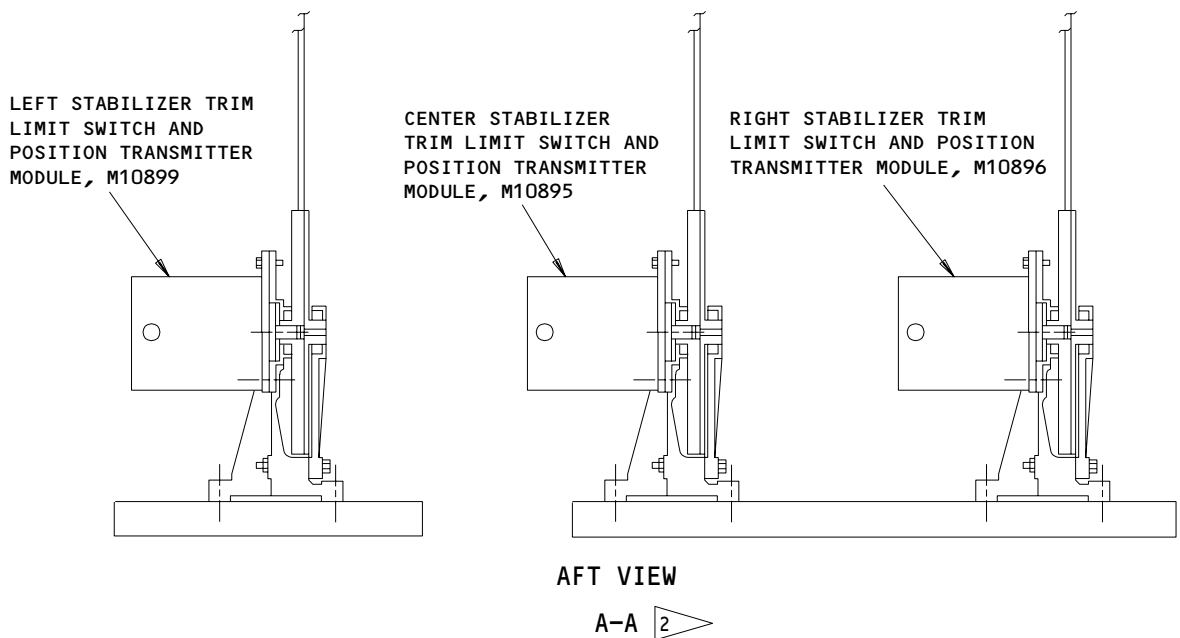
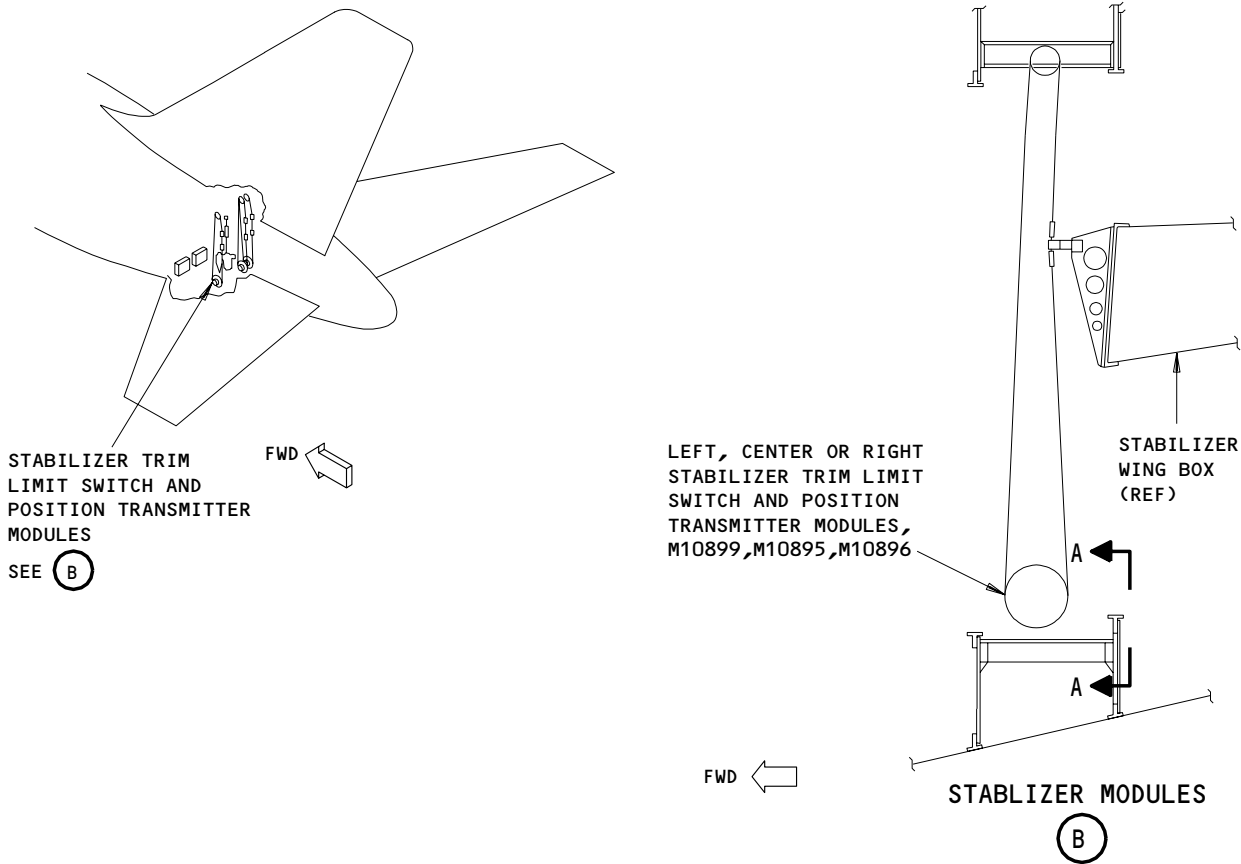
(A)

Horizontal Stabilizer Trim Control System - Component Location  
 Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

27-48-00

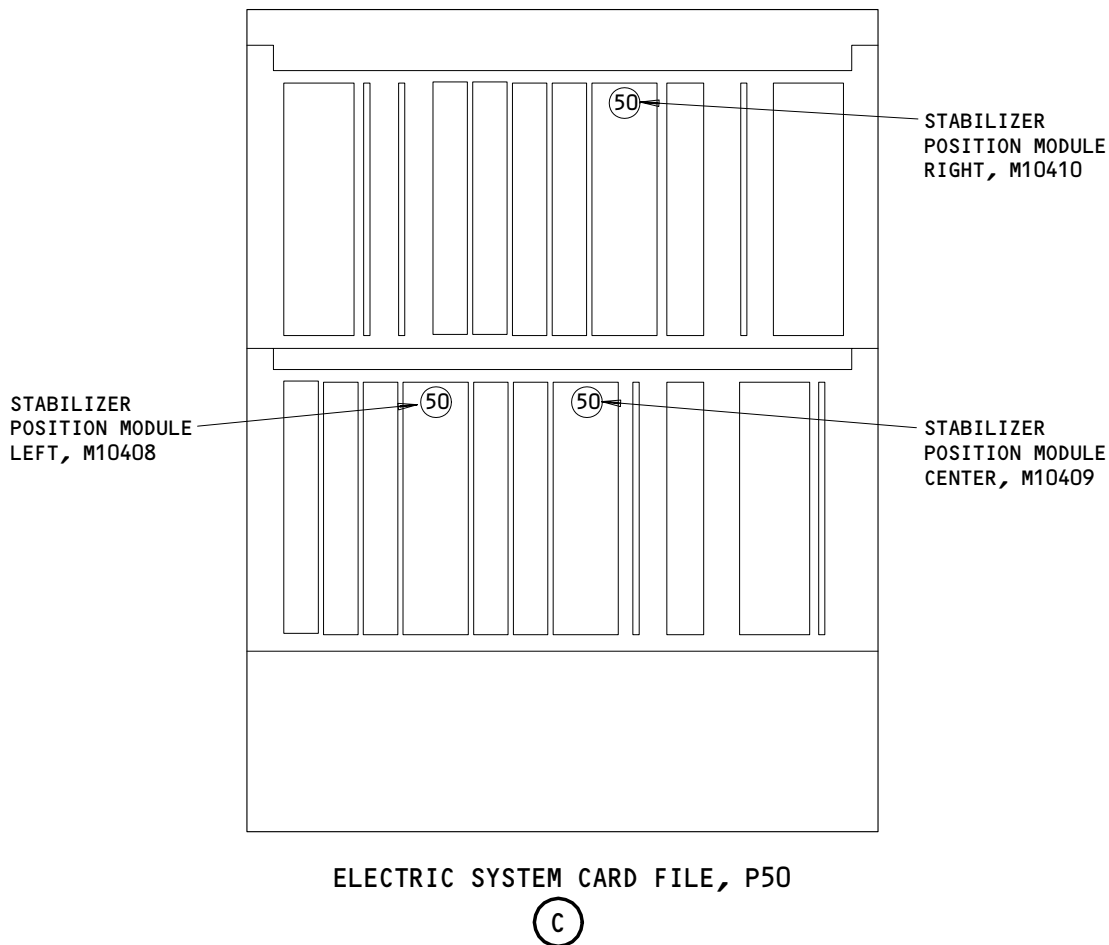
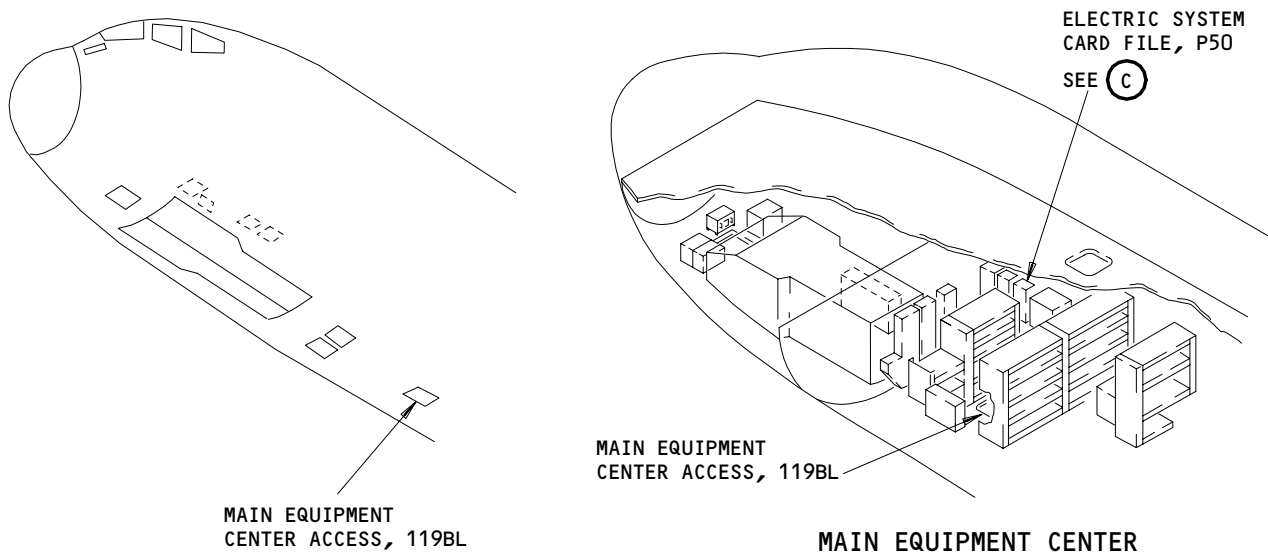




Horizontal Stabilizer Trim Control System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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27-48-00



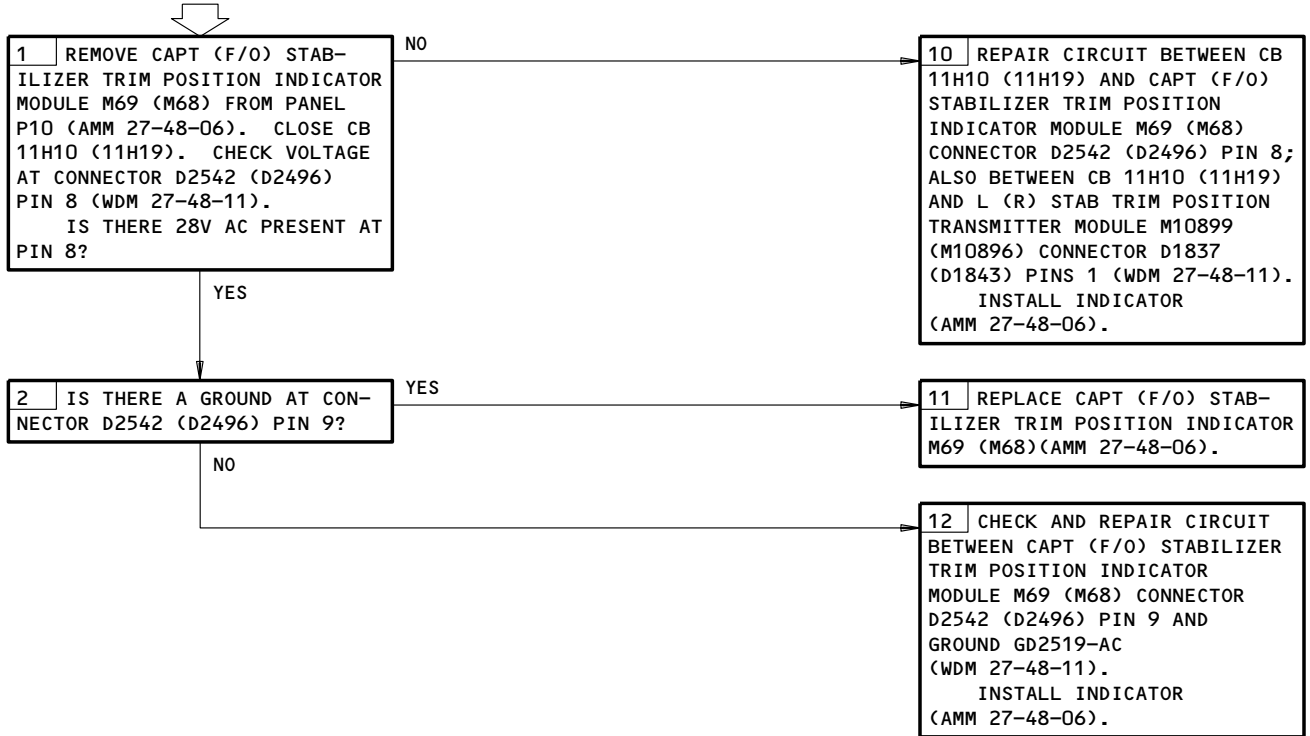
Horizontal Stabilizer Trim Control System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY	ALL
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27-48-00

**PREREQUISITES**  
ELECTRICAL POWER (AMM 24-22-00)  
CB: 11H10,11H19

**STABILIZER POSITION INDICATOR OFF FLAG IN VIEW**



Stabilizer Position Indicator OFF Flag in View  
Figure 103

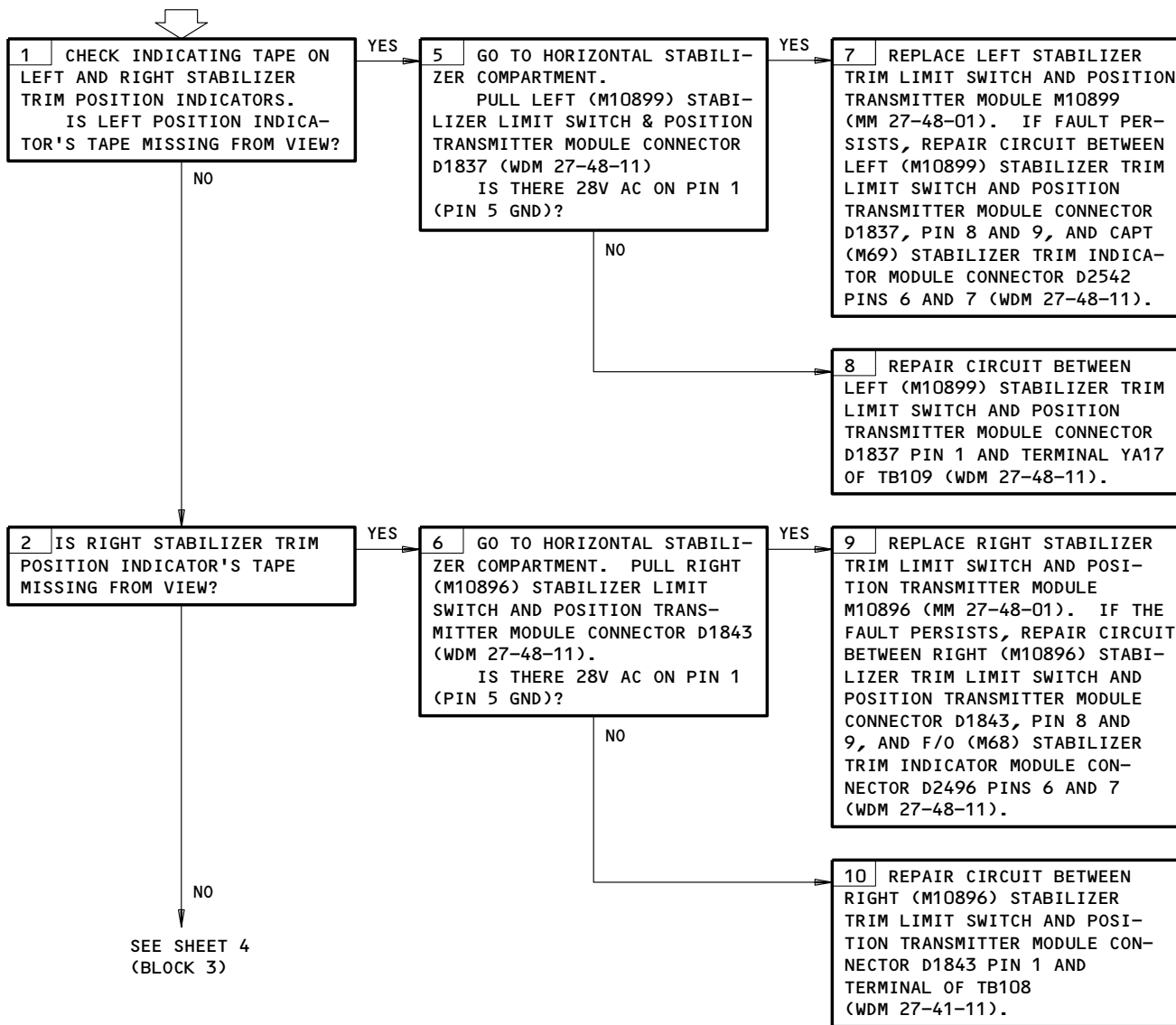
EFFECTIVITY	ALL
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**27-48-00**

**PREREQUISITES**  
ELECTRICAL POWER (MM 24-22-00)  
HYDRAULIC POWER (MM 29-11-00)  
CB: 11C12,11C13,11H10,11H19

**WARNING:** AILERONS, ELEVATOR, RUDDER, FLAPS, SLAT, SPOILER, AND STABILIZER ARE FULLY POWERED SURFACES. CHECK THAT ALL PERSONNEL AND EQUIPMENT ARE CLEAR BEFORE PROVIDING HYDRAULIC POWER. INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT COULD OCCUR.

**STABILIZER POSITION INDICATORS DIFFER**

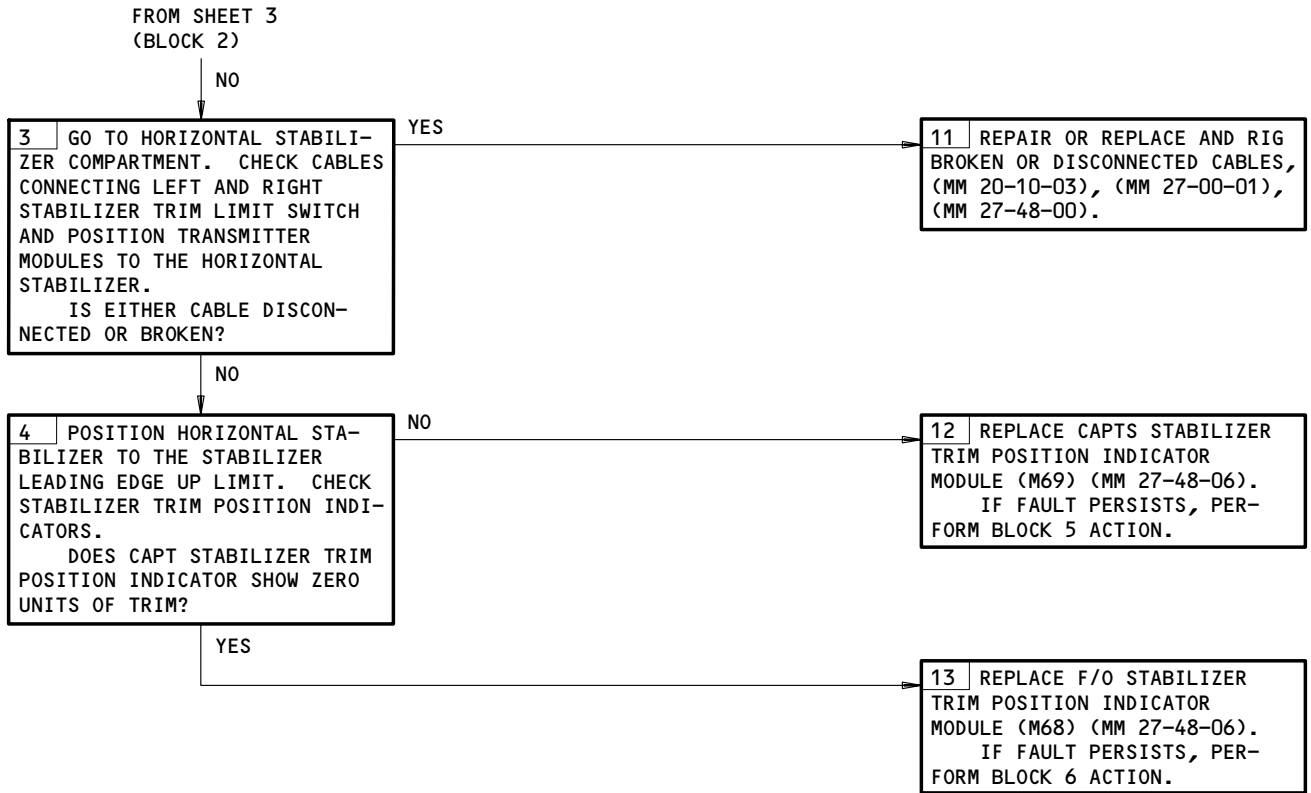


Stabilizer Position Indicators Differ  
Figure 104 (Sheet 1)

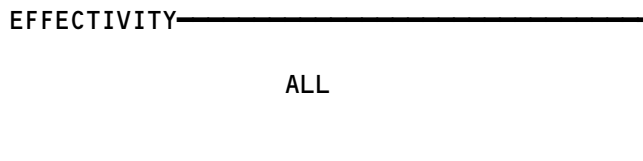
EFFECTIVITY

ALL

**27-48-00**



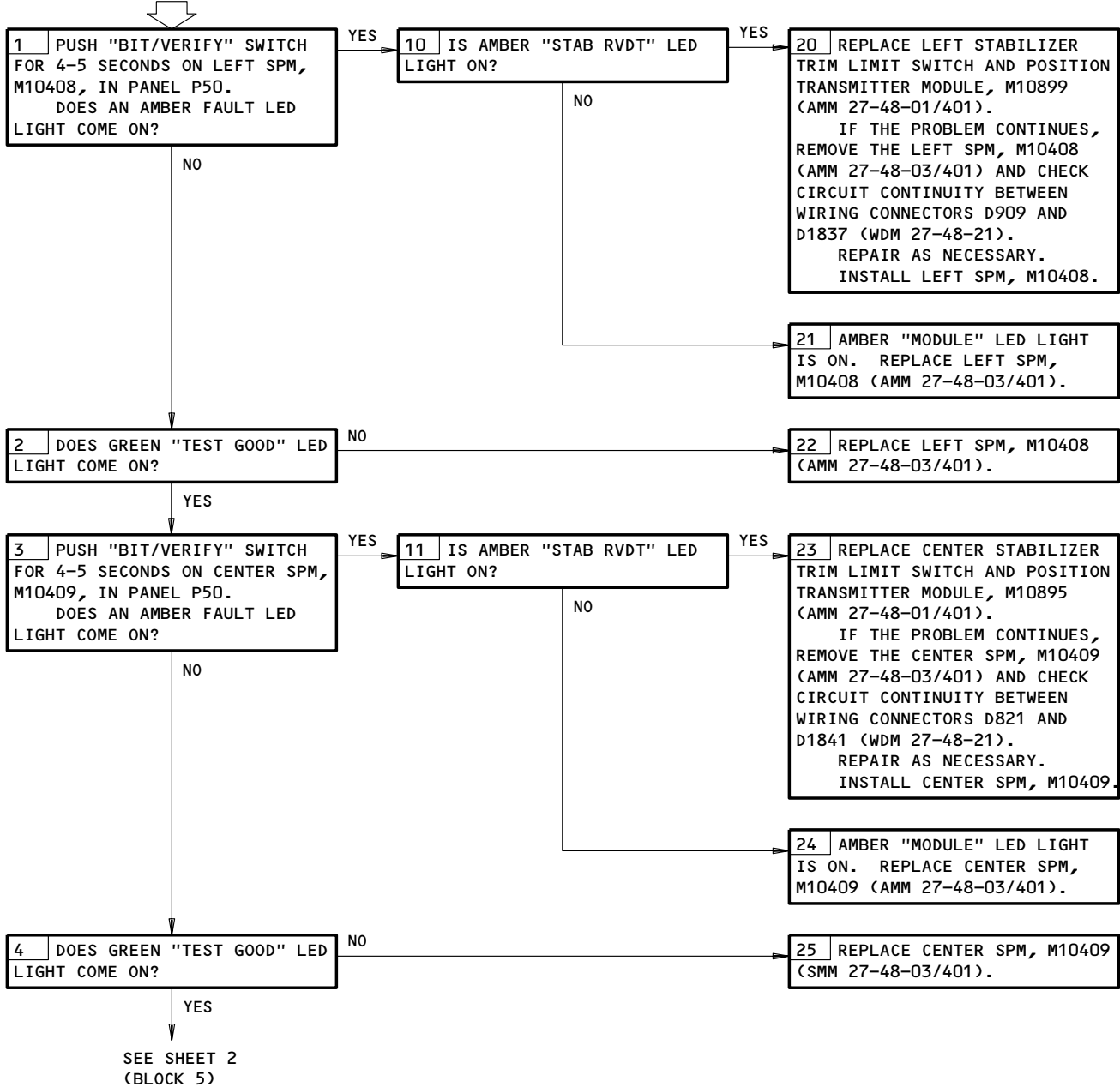
Stabilizer Position Indicators Differ  
Figure 104 (Sheet 2)



27-48-00

**STABILIZER POSITION  
MODULE (SPM) BITE  
PROCEDURE**

**PREREQUISITES**  
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11G15,11F19,11G24  
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

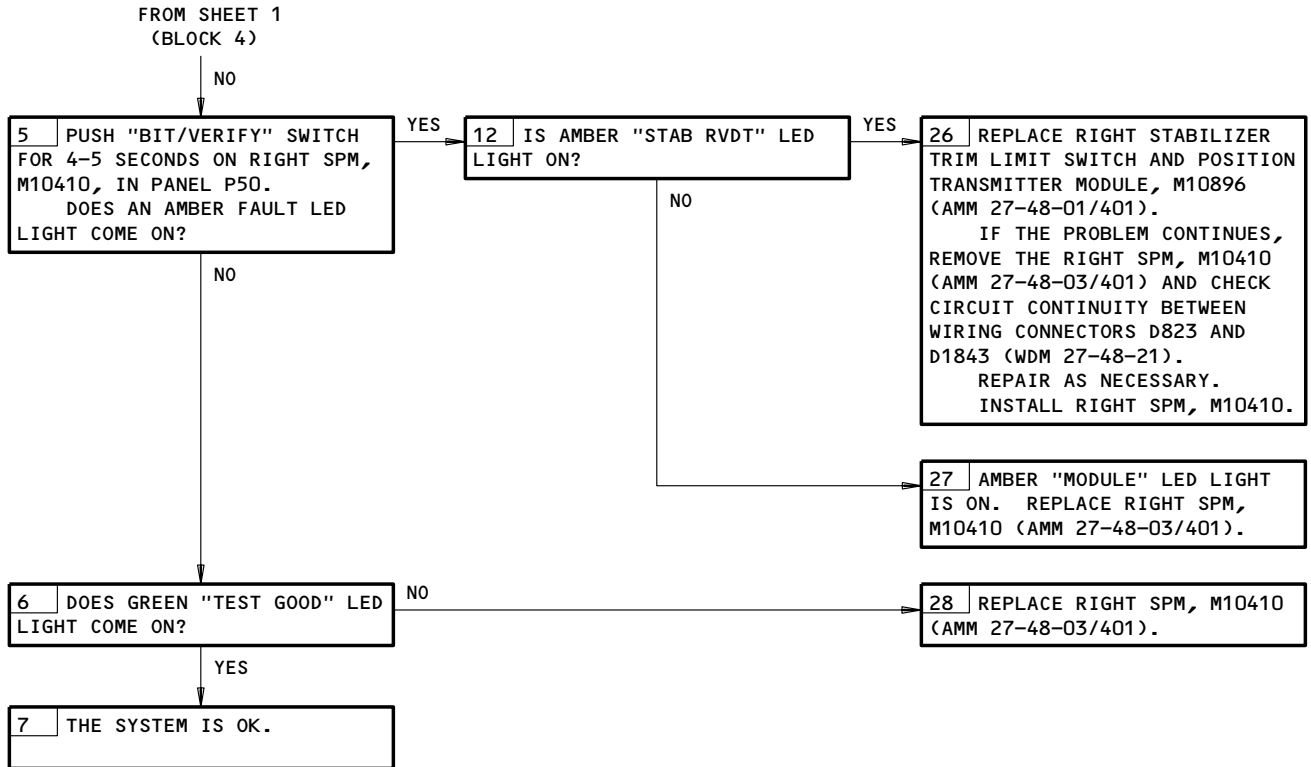


Stabilizer Position Module (SPM) BITE Procedure  
Figure 105 (Sheet 1)

EFFECTIVITY

ALL
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**27-48-00**



Stabilizer Position Module (SPM) BITE Procedure  
Figure 105 (Sheet 2)

EFFECTIVITY	ALL
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27-48-00

TRAILING EDGE FLAP SYSTEM

1. ARINC Data Bus Charts

A. General

**CAUTION:** DO NOT DIRECTLY TOUCH THE CONNECTORS. USE A BREAKOUT BOX OR YOU CAN CAUSE DAMAGE TO THE CONNECTORS.

(1) The ARINC 429 data bus charts give data necessary to make an analysis of ARINC 429 transmitters, receivers, and data buses. For the test, use a breakout box at the available terminal or at the LRU connectors.

B. Equipment

(1) Standard multi-meter  
 (2) 429EBP Data Bus Analyzer (recommended)  
 JcAIR Instrumentation  
 400 Industrial Parkway  
 Industrial Airport, KS 66031

429-2 Data Bus Analyzer (alternative)  
 Interface Technology  
 150 E. Arrow Highway,  
 San Dimas, CA 91773

(3) A34011-1 Breakout Box (recommended)  
 A34011-112 Breakout Box (alternative)

2. ARINC Data Bus Charts

FSEU							
DIGITAL OUTPUT BUS CHART							
BUS NAME			CON	PINS	BUS	BIT	DATA
SOURCE	TYPE	BUS			FORMAT	RATE	BUS
FSEU (1 2)	A	1	B	J13 K13	429	LO	FSEU DATA BUS

EFFECTIVITY

ALL

**27-51-00**

01

Page 101  
Sep 20/98



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

TRAILING EDGE FLAP SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
BALLSCREW - INBOARD FLAP	6	4	MAIN GEAR WHEEL WELLS AND WING	27-51-11
BALLSCREW - OUTBOARD FLAP	7	4	WING	27-51-21
CARRIAGE - INBOARD FLAP	6	4	MAIN GEAR WHEEL WELLS AND WING	27-51-05
CARRIAGE - OUTBOARD FLAP	7	4	WING	27-51-16
CIRCUIT BREAKERS	1		FLT COMPT, P6,P11	
ALTN FLAP PWR, C323			6D23	*
FLAP LOAD RELIEF, C1022			11J18	*
FLAP POS IND L, C1008			11H12	*
FLAP POS IND R, C1522			11H13	*
FLAP/SLAT ALTN DRIVE SHUTOFF ARM, C4212			11H23	*
FLAP/SLAT SHUTOFF 1, C4110			11C18	*
FLAP/SLAT ALTN DR SHUTOFF 2, C4271			11H24	*
FLAP/SLAT ELEC UNIT 1 CONT, C1539			11G13	*
FLAP/SLAT ELEC UNIT 2 CONT, C1541			11C15	*
FLAP/SLAT ELEC UNIT 3 CONT, C1540			11G22	*
FLAP/SLAT ELEC UNIT 1 PWR, C1025			11G12	*
FLAP/SLAT ELEC UNIT 2 PWR, C1521			11C14	*
FLAP/SLAT ELEC UNIT 3 PWR, C4210			11G21	*
FLAP/SLAT ELEC UNIT 1 SENSOR, C1037			11G14	*
FLAP/SLAT ELEC UNIT 2 SENSOR, C1524			11C16	*
FLAP/SLAT ELEC UNIT 3 SENSOR, C1038			11G23	*
COMPUTER - (REF 31-41-00, FIG. 101)				
EICAS L, M10181				
EICAS R, M10182				
FAIRINGS - INBOARD FLAP TRACK	1	2	WING	27-51-30
FAIRINGS - OUTBOARD FLAP TRACK	1	4	WING	27-51-31
FLAP - INBOARD TE	1	2	WING TRAILING EDGE	27-51-02
FLAP - INBOARD TE FLAP AFT	1	2	INBOARD FLAP TRAILING EDGE	27-51-12
FLAP - OUTBOARD TE	1	2	WING TRAILING EDGE	27-51-14
FLAP - OUTBOARD TE FLAP AFT	1	2	OUTBOARD FLAP TRAILING EDGE	27-51-22
GEARBOX - INBOARD ANGLE, INBOARD FLAP	5	2	MAIN GEAR WHEEL WELLS	27-51-09
GEARBOX - OUTBOARD ANGLE, INBOARD FLAP	6	2	WING	27-51-10
GEARBOX - INBOARD TEE, INBOARD FLAP	5	2	MAIN GEAR WHEEL WELLS	27-51-07
GEARBOX - OUTBOARD TEE, INBOARD FLAP	5	2	551BB,651BB	27-51-08
GEARBOX - TEE, OUTBOARD FLAP	5	4	WING	27-51-18
INDICATOR - FLAP/SLAT POSITION, N15	2	1	FLT COMPT, P3	*
LEVER - FLAP CONTROL	2	1	FLT COMPT, P10	27-51-32
LIGHT - TRAILING EDGE, L434	2	1	FLT COMPT, P3	*
MODULE - FLAP PDU CONTROL VALVE	4	1	LEFT MAIN GEAR WHEEL WELL, TE FLAP PDU	27-51-28
MODULE - FLAP/SLAT DEPRESSURIZATION, V10060	3	1	FORWARD BULKHEAD LEFT MAIN GEAR WHEEL WELL	27-51-29
MOTOR - ALTERNATE TE FLAPS DRIVE, M547	4	1	MAIN GEAR WHEEL WELL, TE FLAP PDU	*
MOTOR - HYDRAULIC	4	1	MAIN GEAR WHEEL WELL, TE FLAP PDU	*

\* SEE THE WDM EQUIPMENT LIST

Trailing Edge Flap System - Component Index  
Figure 101 (Sheet 1)

EFFECTIVITY

ALL

27-51-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAY - (REF 31-01-33, FIG. 101) ALT FLAP EXTEND, K359 ALT FLAP RETRACT, K360 FLAP/SLAT ALT DRIVE ARM, K10095 DEPRESSURIZATION, K10104 RELAY - (REF 31-01-36, FIG. 101) LE/TE TRANSFER, K10244 FLAP LOAD RELIEF, K10245 SOLENOID - FLAP LOAD RELIEF	4	1	LEFT MAIN GEAR WHEEL WELL, FLAP PDU CONTROL VALVE MODULE	27-51-28
SWITCH - ALTERNATE FLAPS/SLATS POSITION SELECTOR, S10256	2	1	FLT COMPT, P3	*
SWITCH - FLAP/SLAT DEPRESSURIZATION PRESSURE, S1	3	1	LEFT MAIN GEAR WHEEL WELL	27-51-29
SWITCH - (REF 27-81-00, FIG. 101) LE SLAT ALTERNATE ARM, S10255	2	1	FLT COMPT, P3	*
SWITCH - TRAILING EDGE ALTERNATE DRIVE ARMING, S10254	6	4	MAIN GEAR WHEEL WELL AND WING	27-51-03
TRACK - INBOARD FLAP	7	4	WING	27-51-15
TRACK - OUTBOARD FLAP				
TRANSFORMER - (REF 31-01-70, FIG. 101) FSEU-2 POWER, T153	6	4	MAIN GEAR WHEEL WELL AND WING	27-51-06
TRANSMISSIONS - INBOARD FLAP	7	4	WING	27-51-17
TRANSMISSIONS - OUTBOARD FLAP	2	1	FLIGHT COMPT, P10	27-51-33
TRANSMITTER - FLAP LEVER POSITION, TS5046	4	1	LEFT MAIN GEAR WHEEL WELL TE FLAP PDU	27-51-27
TRANSMITTER - PDU POSITION, TS5050				
TRANSMITTERS - L FLAP POSITION, TS5049	5	1	OUTBD END FLAP DRIVE L WING	27-58-03
R FLAP POSITION, TS5051	5	1	OUTBD END FLAP DRIVE R WING	27-58-03
TRANSMITTER - (REF 27-81-00, FIG. 101) SLAT PDU POSITION, TS5048				
TRANSMITTERS - (REF 27-81-00, FIG. 101) L SLAT POSITION, TS5083 R SLAT POSITION, TS5047				
TUBE - TE FLAP TORQUE	8		FORWARD BULKHEAD MAIN GEAR WHEEL WELLS, WING REAR SPARS	27-51-25
UNIT - FLAP/SLAT ELECTRONIC, M10331,M10332, M10333	8	3	821, FWD CARGO COMPT, E5	27-51-01
UNIT - TE FLAP POWER DRIVE	3	1	FORWARD BULKHEAD LEFT MAIN GEAR WHEEL WELL	27-51-26
VALVE - TE FLAP BYPASS, V105	4	1	LEFT MAIN GEAR WHEEL WELL	27-51-27
VALVE - FLAP/SLAT DEPRESSURIZATION PRIORITY	3	1	LEFT MAIN GEAR WHEEL WELL	27-51-29
VALVE - FLAP/SLAT DEPRESSURIZATION SEQUENCE	3	1	LEFT MAIN GEAR WHEEL WELL	27-51-29
VALVE - FLAP/SLAT DEPRESSURIZATION SHUTOFF	3	1	LEFT MAIN GEAR WHEEL WELL	27-51-29
VALVE - FLAP/SLAT DEPRESSURIZATION SOLENOID, V1	3	1	LEFT MAIN GEAR WHEEL WELL	27-51-29

\* SEE WM EQUIPMENT LIST

Component Index  
Figure 101 (Sheet 2)

EFFECTIVITY

ALL

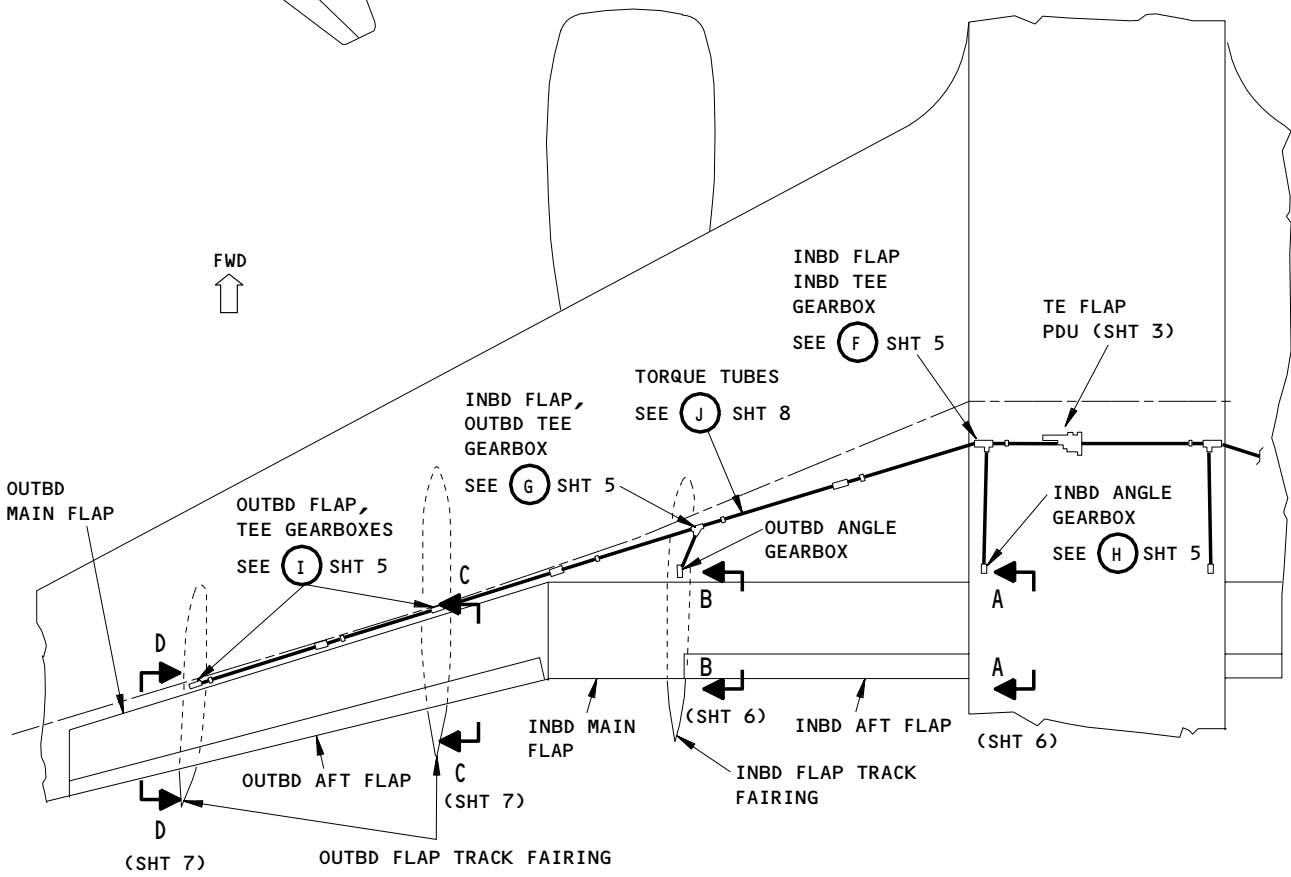
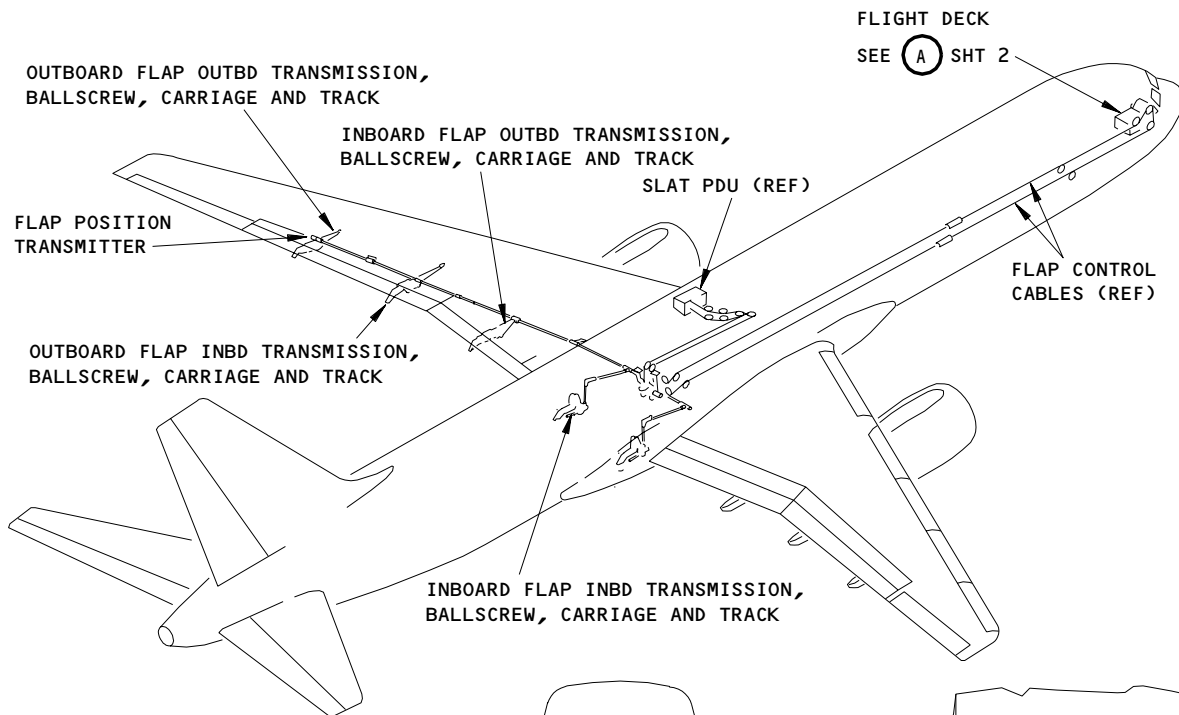
27-51-00

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Page 103  
Sep 20/98

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



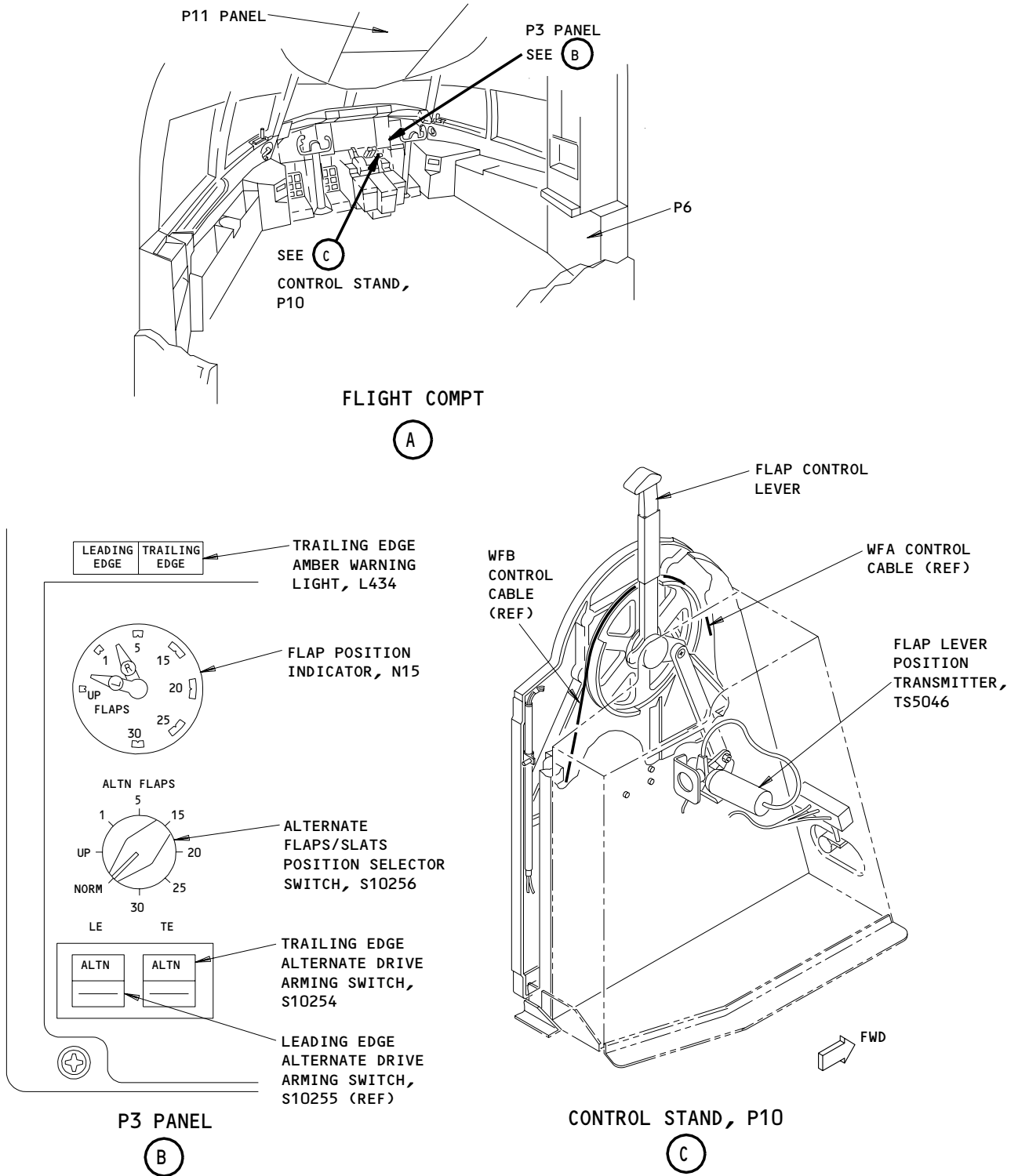
Trailing Edge Flap System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	ALL
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27-51-00

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

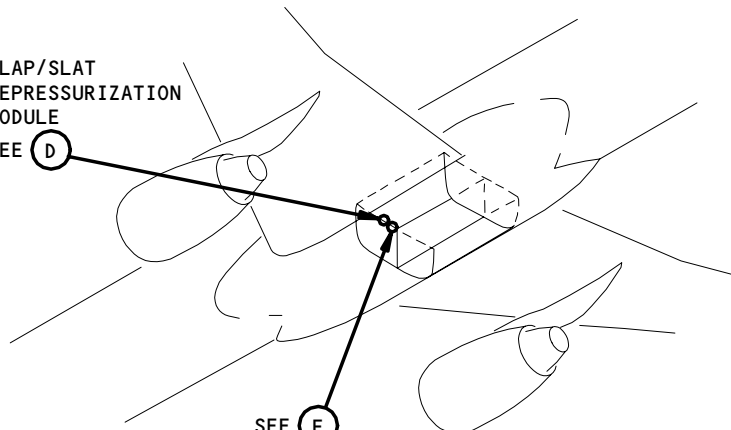


Component Location  
Figure 102 (Sheet 2)

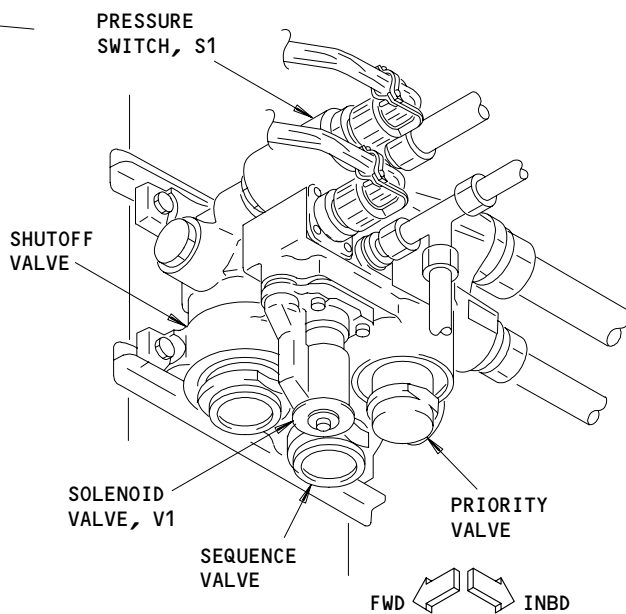
EFFECTIVITY	ALL
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27-51-00

FLAP/SLAT  
DEPRESSURIZATION  
MODULE  
SEE (D)

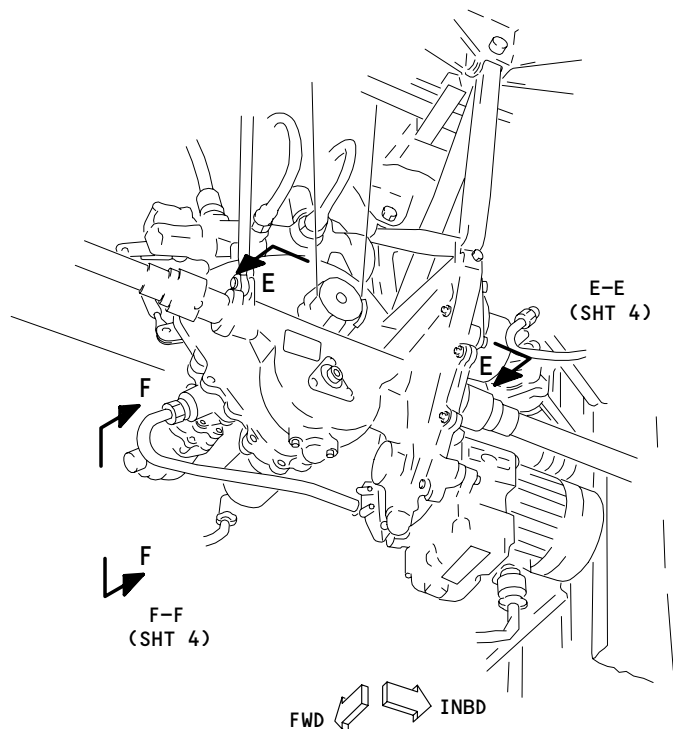


SEE (E)  
TE FLAP POWER  
DRIVE UNIT



FLAP/SLAT DEPRESSURIZATION  
MODULE, V10060

(D)



TE FLAP POWER DRIVE UNIT

(E)

Component Location  
Figure 102 (Sheet 3)

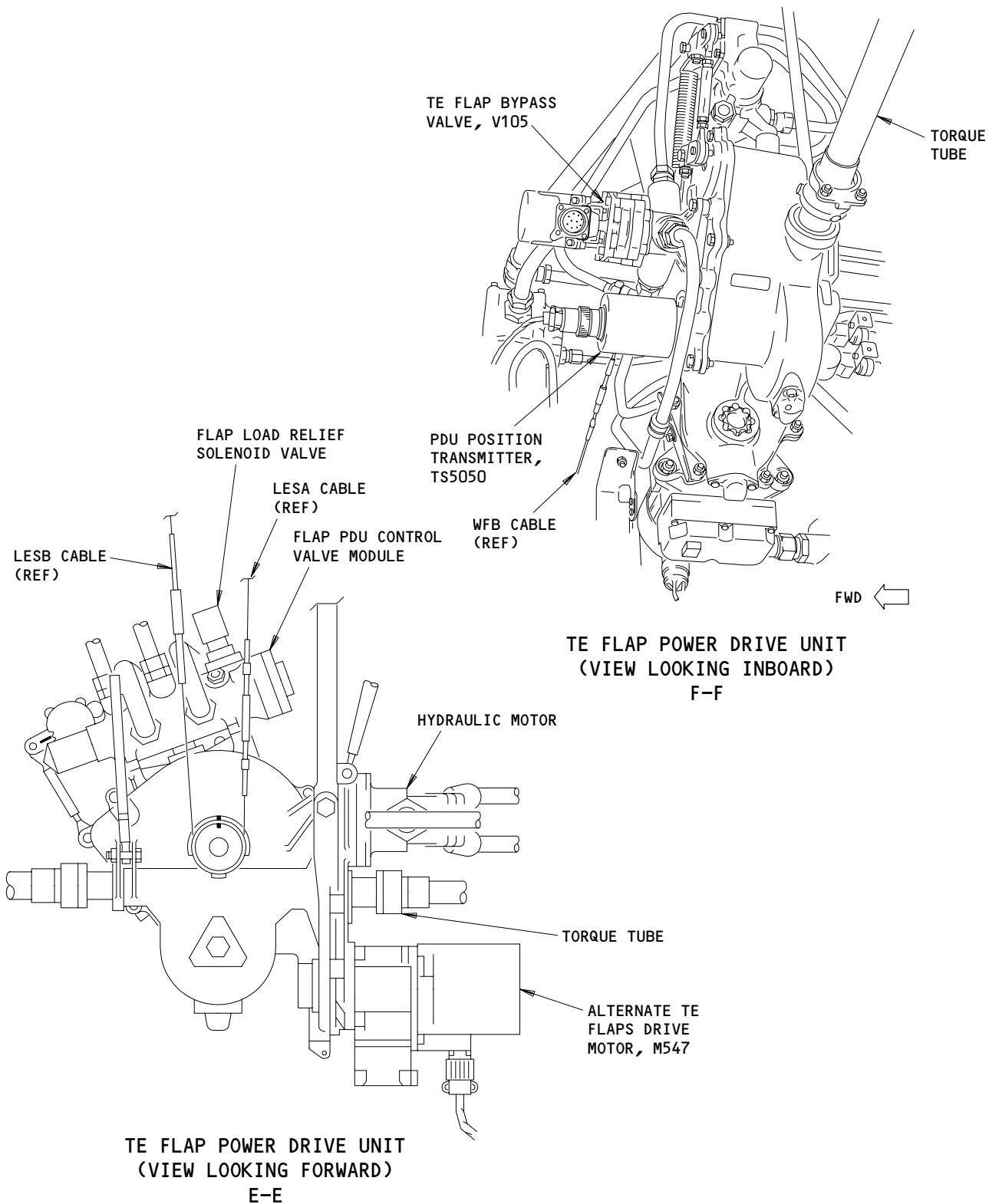
EFFECTIVITY

ALL

27-51-00

01

Page 106  
Sep 20/98



Component Location  
Figure 102 (Sheet 4)

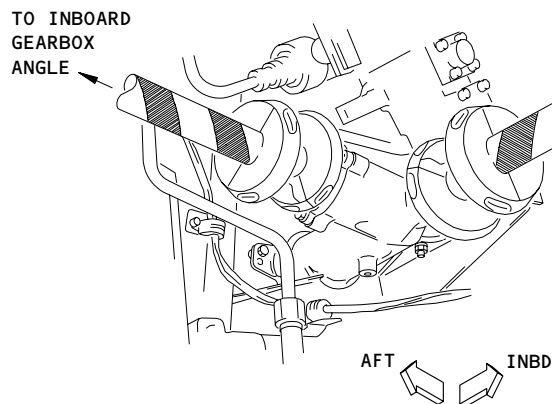
EFFECTIVITY

ALL

27-51-00

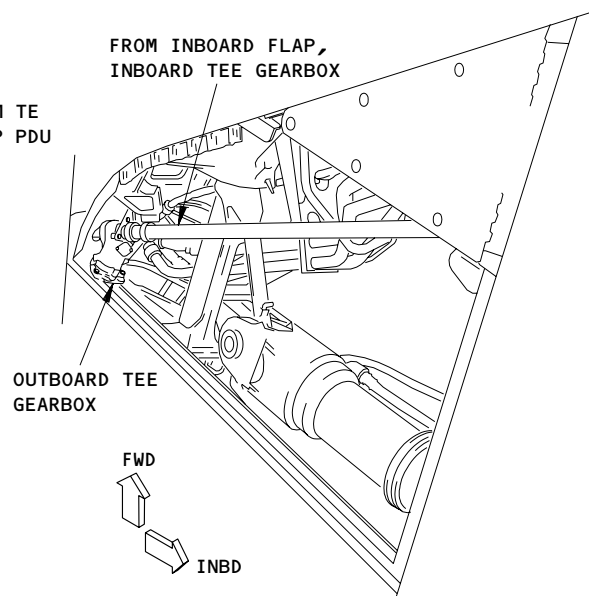
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Page 107  
Sep 20/98



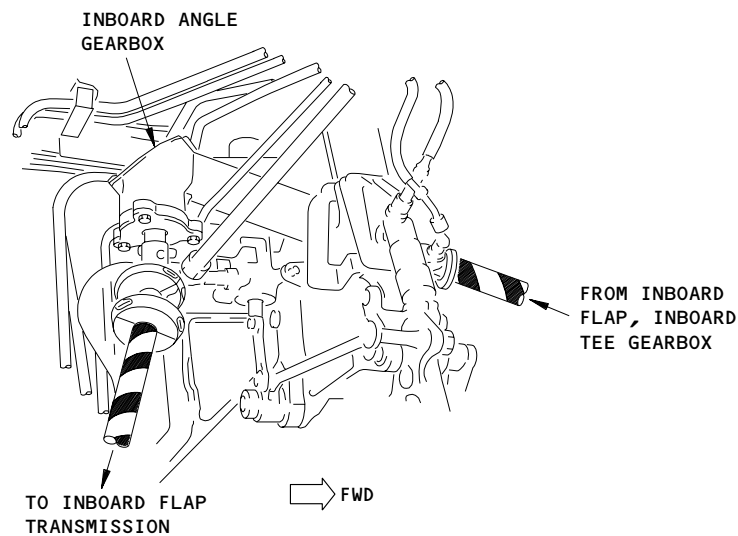
**INBOARD FLAP, INBOARD TEE GEARBOX  
(VIEW IN THE UP DIRECTION)**

F



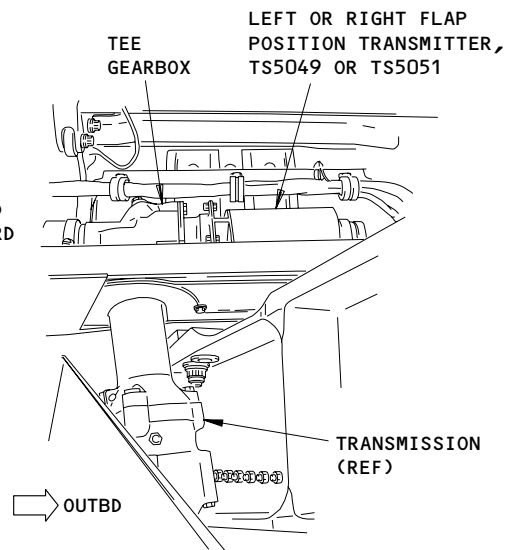
**INBOARD FLAP, OUTBOARD TEE GEARBOX  
(VIEW IN THE UP DIRECTION)**

G



**INBOARD ANGLE GEARBOX  
(VIEW IN THE OUTBOARD DIRECTION)**

H



**(OUTBOARD FLAP, OUTBOARD TEE GEARBOX IS SHOWN, OUTBOARD FLAP, INBOARD TEE GEARBOX IS EQUIVALENT.)** 1

**(VIEW IN THE FORWARD DIRECTION)**

I

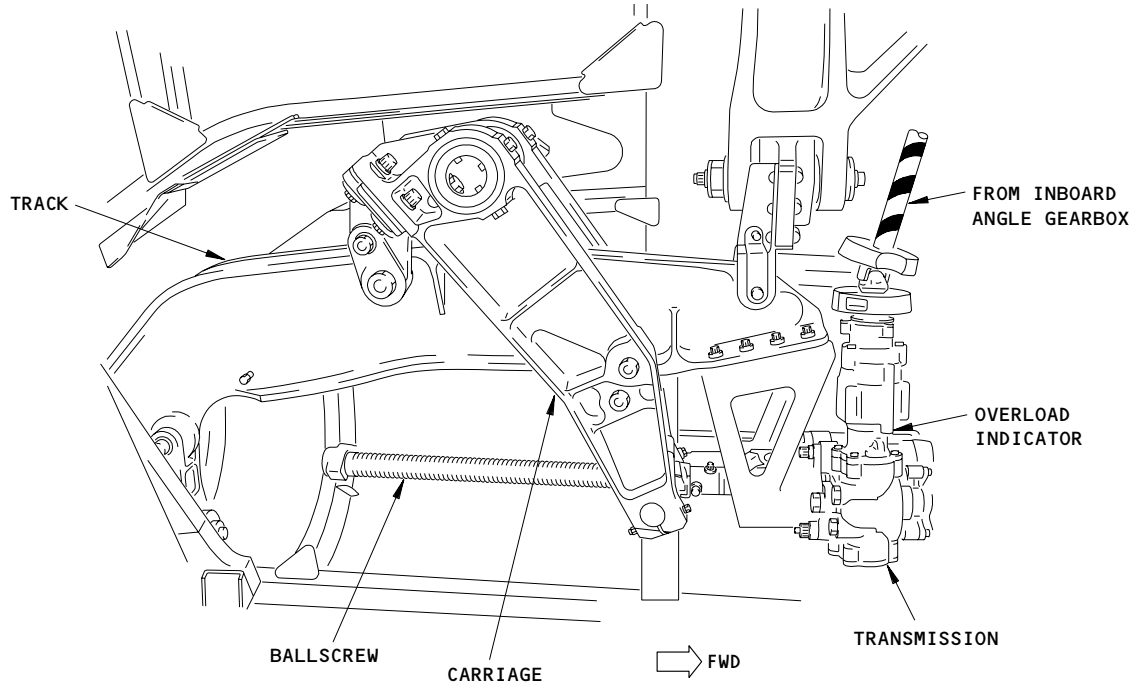
1 FLAP POSITION TRANSMITTERS INSTALLED ONTO OUTBOARD TEE GEARBOXES. INBOARD TEE GEARBOXES CONNECT TO TORQUE TUBES.

**Trailing Edge Flap System - Component Location  
Figure 102 (Sheet 5)**

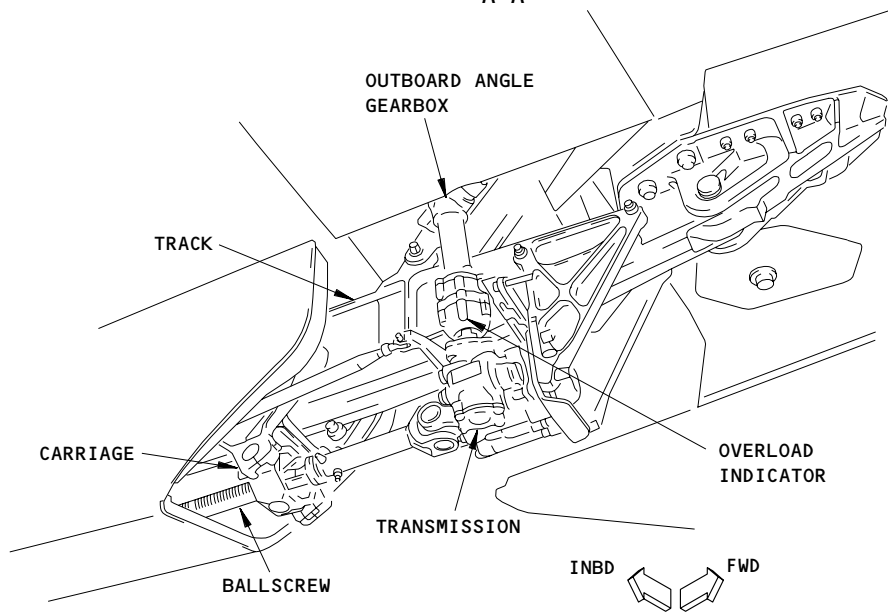
EFFECTIVITY	ALL
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**27-51-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



INBOARD FLAP, INBOARD DRIVE  
(VIEW IN THE OUTBOARD DIRECTION)  
A-A



INBOARD FLAP, OUTBOARD DRIVE  
B-B

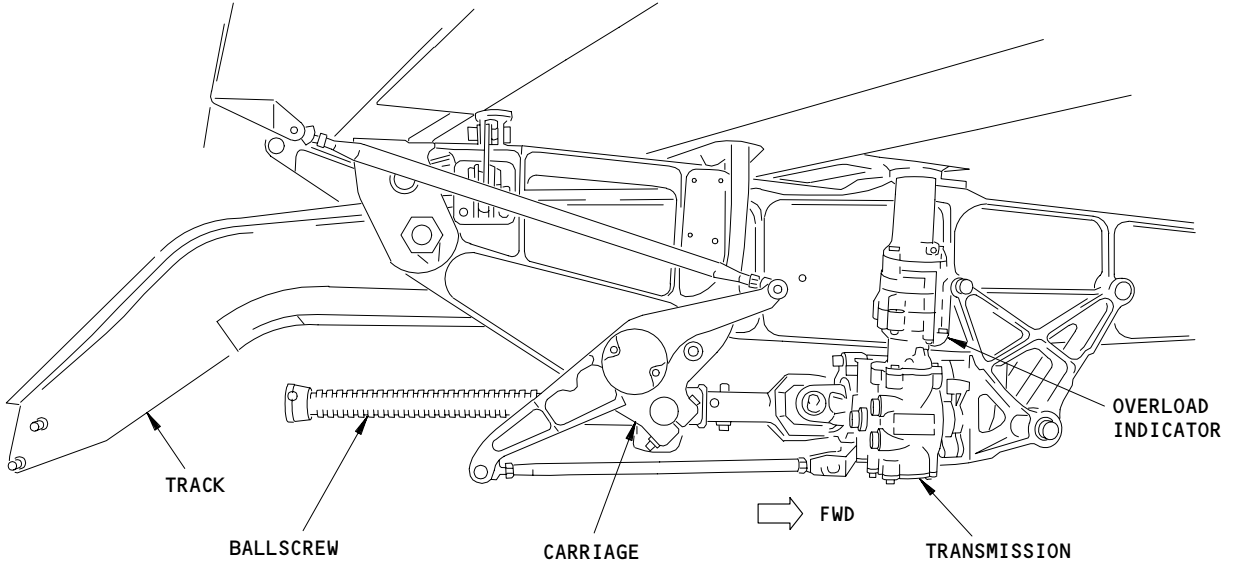
Trailing Edge Flap System - Component Location  
Figure 102 (Sheet 6)

EFFECTIVITY	ALL
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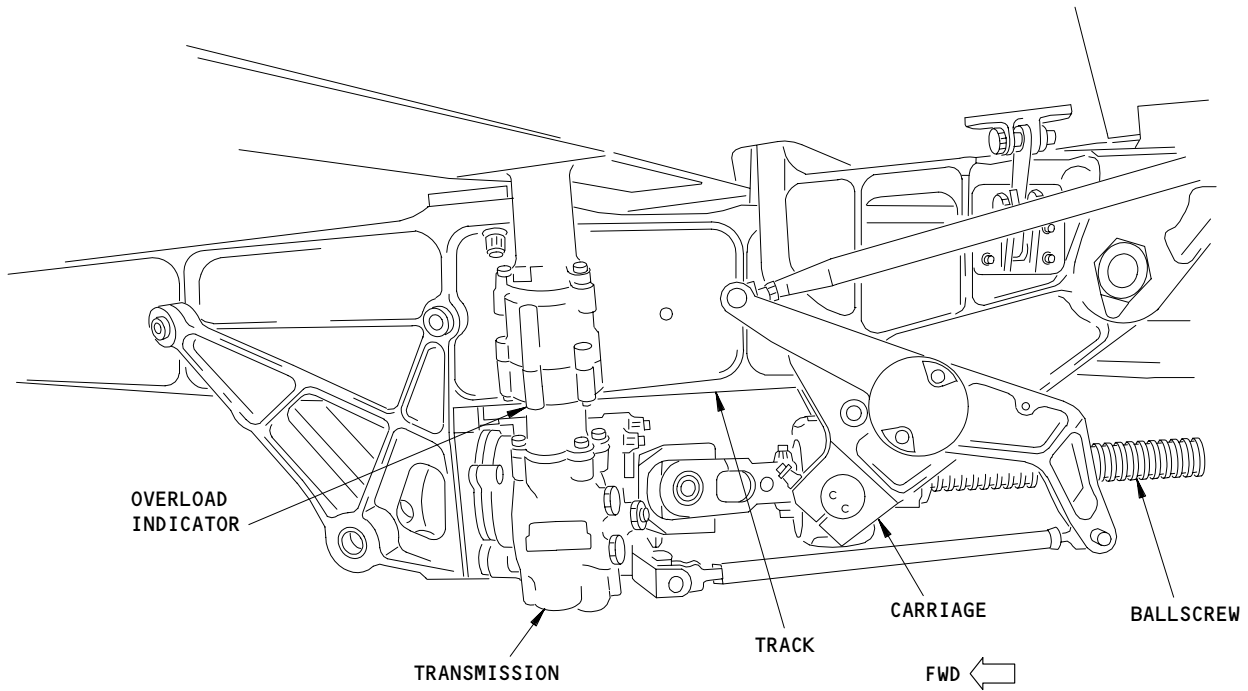
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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



OUTBOARD FLAP, INBOARD DRIVE  
 (LOOKING OUTBOARD)  
 C-C



OUTBOARD FLAP, OUTBOARD DRIVE  
 (LOOKING OUTBOARD)  
 D-D

Trailing Edge Flap System - Component Location  
 Figure 102 (Sheet 7)

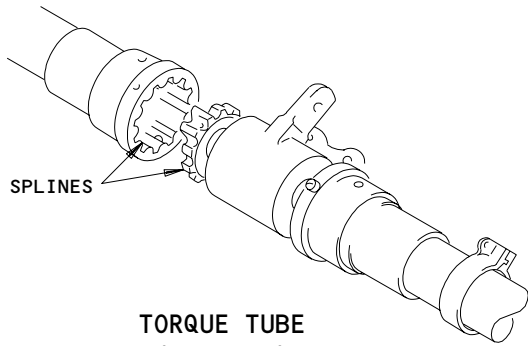
EFFECTIVITY	
	ALL

27-51-00

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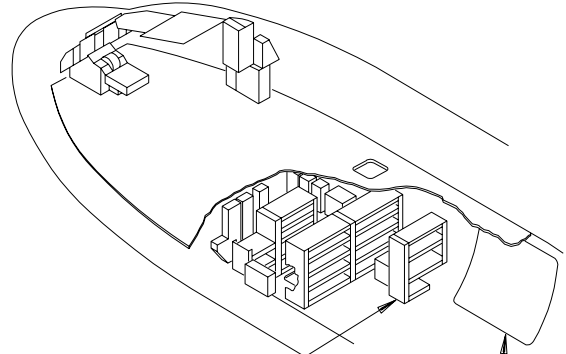
Page 110  
 Sep 20/98

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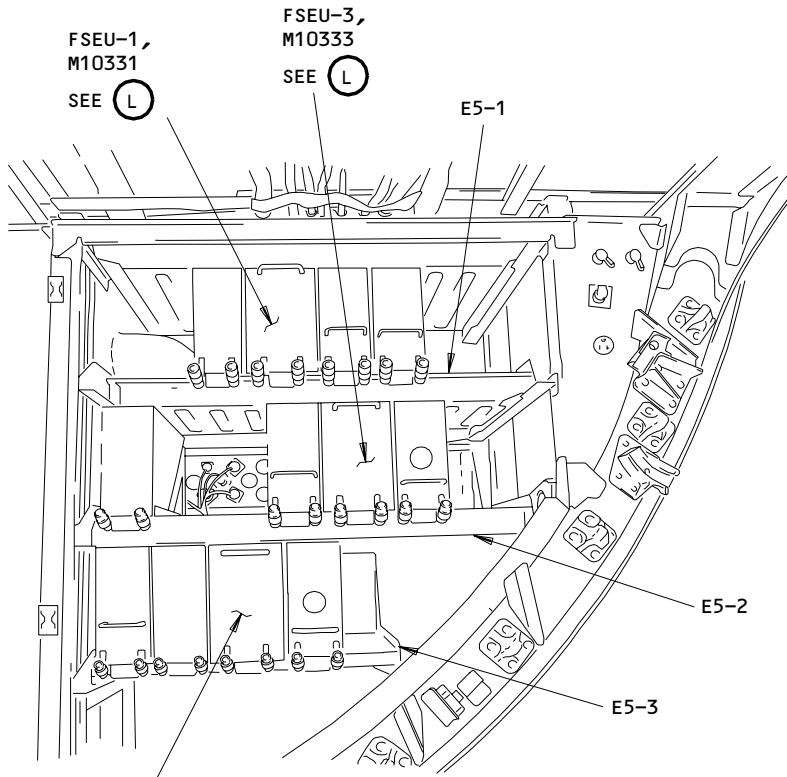
**TORQUE TUBE  
(EXAMPLE)**

(J) FROM SHT 1



**E5 EQUIPMENT RACK  
SEE (K)**

FORWARD CARGO DOOR, 821



FSEU-1,  
M10331  
SEE (L)

FSEU-3,  
M10333  
SEE (L)

E5-1

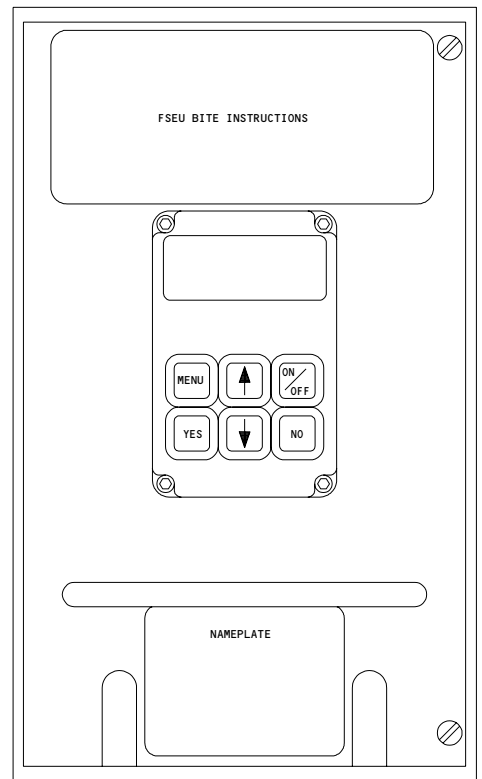
E5-2

E5-3

FSEU-2,  
M10332  
SEE (L)

**E5 EQUIPMENT RACK  
(AFT VIEW)**

(K)



**FSEU  
(EXAMPLE)**

(L)

**Component Location  
Figure 102 (Sheet 8)**

EFFECTIVITY

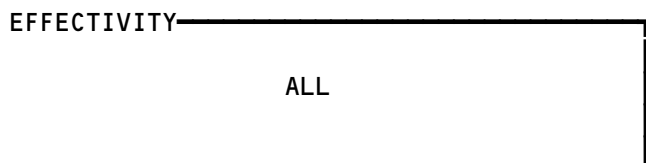
ALL

**27-51-00**

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Page 111  
Sep 20/98

Not Used  
Figure 103



27-51-00

04

Page 112  
Sep 20/98

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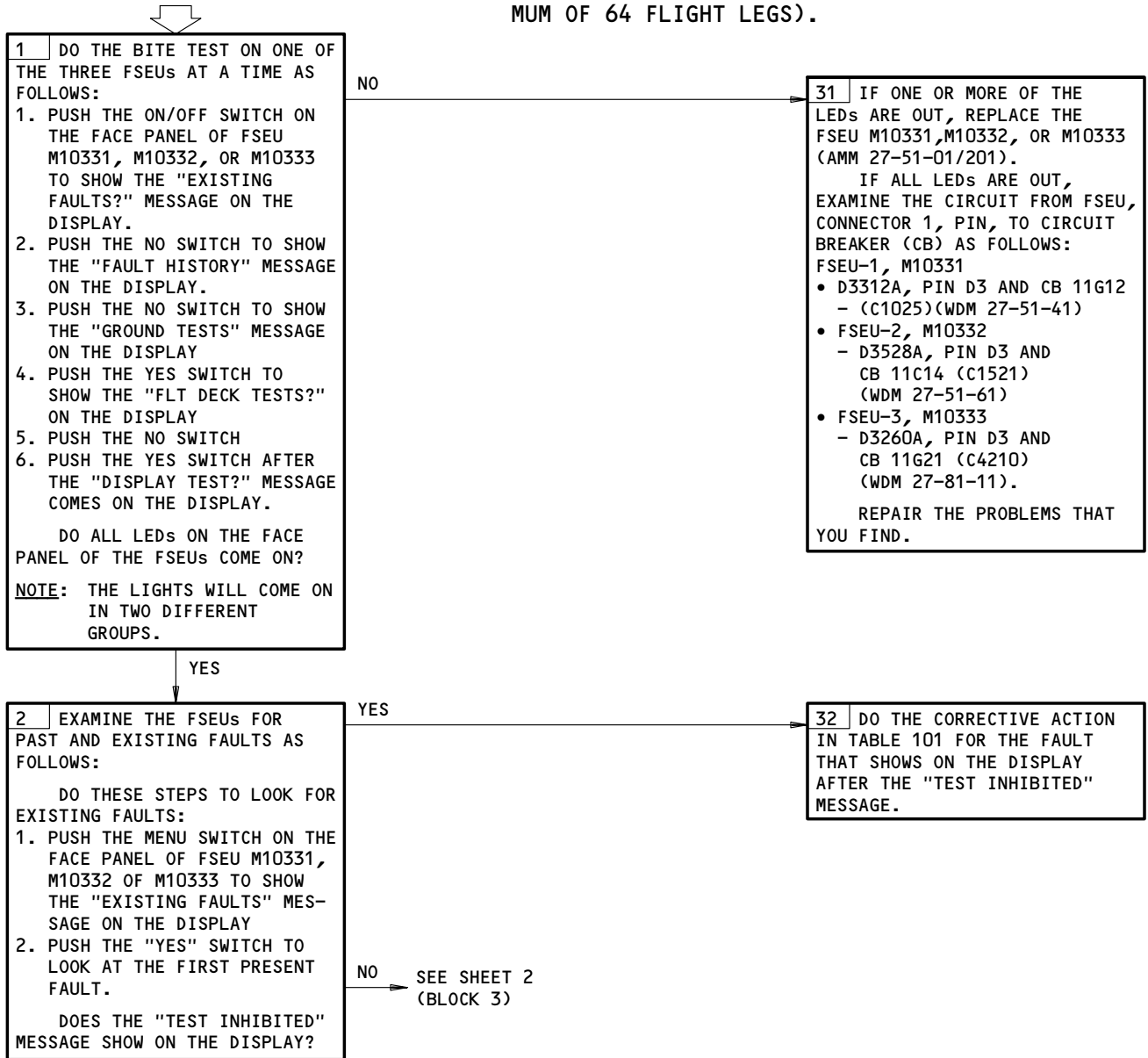
**FLAP/SLAT ELECTRONIC UNIT (FSEU) BITE PROCEDURE**

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6D23, 11C14, 11C15, 11C16, 11C18, 11G12, 11G13, 11G14,  
11G21, 11G23, 11H12, 11H13, 11H23, 11H24, 11J18

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**NOTE:** THE -40 FSEU HAS A NON-VOLATILE MEMORY WHICH STORES FAULTS FROM THE LAST FLIGHT LEG AND FLIGHT LEGS BEFORE THE LAST ONE (UP TO A MAXIMUM OF 64 FLIGHT LEGS).



FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
Figure 104 (Sheet 1)

EFFECTIVITY

ALL

**27-51-00**

03

Page 113  
Sep 20/98

819039


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)

NO

**3** AFTER THE FAULT MESSAGE SHOWS, PUSH THE DOWN ARROW TO SHOW THE "FAULT DETAILS?" MESSAGE ON THE DISPLAY.  
 PUSH THE DOWN ARROW AGAIN IF YOU WANT TO LOOK AT A DIFFERENT FAULT.  
 WHEN YOU GET TO THE "FAULT DETAILS?" MESSAGE FOR THE FAULT THAT YOU WANT, PUSH THE "YES" SWITCH TO LOOK AT THE DETAILS OF THAT FAULT.

NOTE: AT THE END OF THE SEARCH OR AT A TIME DURING THE SEARCH, YOU CAN PUSH THE "MENU" SWITCH UNTIL THE "EXISTING FAULTS" MESSAGE SHOWS ON THE DISPLAY. THIS WILL LET YOU GO BACK TO AN EARLIER MENU IF IT IS NECESSARY.

DO THESE STEPS TO LOOK FOR PAST FAULTS:

PUSH THE "MENU" SWITCH ON THE FACE PANEL OF FSEU M10331, M10332, OR M10333 TO SHOW THE "EXISTING FAULTS?" MESSAGE ON THE DISPLAY.  
 PUSH THE "NO" SWITCH TO SHOW THE "FAULT HISTORY?" MESSAGE ON THE DISPLAY.  
 PUSH THE "YES" SWITCH IF YOU WANT TO SEE THE "FLIGHT LEG (#)?" MESSAGE ON THE DISPLAY.  
 PUSH THE "YES" SWITCH IF YOU WANT TO SEE THE FAULTS IN THAT FLIGHT LEG.

NOTE: FLIGHT LEG -0 IS THE PRESENT FAULT LEG. FLIGHT LEG -1 IS THE FLIGHT LEG JUST BEFORE THE PRESENT FLIGHT LEG, AND SO ON.

PUSH THE DOWN ARROW IF YOU WANT TO PAGE THROUGH THE OTHER FLIGHT LEGS. WHEN YOU FIND THE FLIGHT LEG YOU WANT TO EXAMINE, PUSH THE "YES" SWITCH TO SHOW THE FIRST FAULT.  
 PUSH THE DOWN ARROW TO SHOW THE "FAULT DETAILS?" MESSAGE ON THE DISPLAY.  
 IF YOU WANT TO LOOK AT THAT FAULT, PUSH THE "YES" SWITCH.  
 IF YOU WANT TO LOOK AT A DIFFERENT FAULT, PUSH THE DOWN ARROW UNTIL THE FAULT NUMBER THAT YOU WANT SHOWS ON THE DISPLAY.

DO PAST OR PRESENT FAULTS SHOW ON THE DISPLAY?

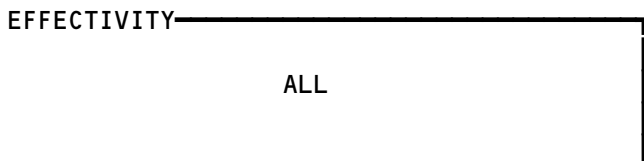
YES

**33** MAKE A RECORD OF ALL THE APPLICABLE FAULTS FROM ALL THREE FSEU'S.  
 DO THE CORRECTIVE ACTION AS SHOWN IN TABLE 101.

NO

**4** TEST COMPLETE.

FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
Figure 104 (Sheet 2)



27-51-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

MESSAGE	MESSAGE NUMBERS	CORRECTIVE ACTION
L-ADC FAILED	208	DO THE L-ADC BITE PROCEDURE IN ADC (FIM 34-00/101) AND DO THE CORRECTIVE ACTION.
L-ADC NO DATA	207	MAKE SURE THE L-ADC IS IN POSITION, DO THE L-ADC BITE PROCEDURE IN ADC (FIM 34-12-00/101), AND THE CORRECTIVE ACTION. IF THE PROBLEM CONTINUES, EXAMINE THE WIRING FROM FSEU-1 TO L-ADC. REPAIR THE PROBLEMS THAT YOU FIND.
L-ADC IN-TEST		MAKE SURE A TEST IS NOT RUN AT THE SAME TIME THAT YOU DO THE BITE TEST. FSEU BITE CAN NOT BE RUN WHEN L-ADC IS IN SELF-TEST.
FSEU 1 NO DATA	209	MAKE SURE THE FSEU-1 IS IN POSITION AND HAS POWER, RUN THE TEST AGAIN. IF THE PROBLEM CONTINUES, EXAMINE WIRING FROM FSEU-1 TO FSEU-2 (WDM 27-58-31). REPAIR THE PROBLEMS THAT YOU FIND.
FSEU 2 NO DATA	210	MAKE SURE THE FSEU-2 IS IN POSITION AND HAS POWER, RUN THE TEST AGAIN. IF THE PROBLEM CONTINUES, EXAMINE WIRING FROM FSEU-2 TO FSEU-3 (WDM 27-58-31). REPAIR THE PROBLEMS THAT YOU FIND.
-14/17 IN CHANNEL 1		MAKE SURE THE -40 FSEU IS IN THE FSEU-1 POSITION.
FSEU FAILED	101-115,301,306,311,316,332,336	REPLACE THE FSEU THAT SHOWED THE MESSAGE.
MODE SELECT	202	<p>REMOVE THE FSEU THAT YOU TESTED (AMM 27-51-01/201). EXAMINE AND REPAIR, IF NECESSARY, THESE CONDITIONS ON THE FSEU THAT YOU REMOVED:</p> <ul style="list-style-type: none"> <li>• FSEU-1 (M10331): MAKE SURE YOU HAVE CONTINUITY BETWEEN D3312A, PINS H10 AND H8, AND BETWEEN PINS A11 AND A8. MAKE SURE YOU HAVE GROUND ON PIN K15</li> <li>• FSEU-2 (M10332): MAKE SURE YOU HAVE CONTINUITY BETWEEN D3258A, PINS A11 AND A8, PINS B11 AND B8, AND PINS J10 AND J8. MAKE SURE YOU HAVE GROUND ON PIN K15</li> <li>• FSEU-3 (M10333): MAKE SURE YOU HAVE CONTINUITY BETWEEN D3260A, PINS K10 AND K8 AND BETWEEN PINS B11 AND B8. MAKE SURE YOU HAVE GROUND ON PIN K15.</li> </ul> <p>INSTALL THE FSEU THAT YOU REMOVED (AMM 27-51-01/201).</p>
FSEU 3 DISCRETE	203	GO TO BLOCK 15, SHEET 8.
DISCRETE OUTPUT OR ANALOG OUTPUT	204,205,206	GO TO THE "SHOP DETAILS" ON THE FSEU AND GET THE CONNECTOR AND PIN NUMBER THAT HAS A FAILURE. DO THE ACTION IN TABLE 102 FOR THAT CONNECTOR AND PIN NUMBER FOR THE FSEU (CHANNEL) THAT HAS THE FAILURE. IF THE CONNECTOR AND PIN NUMBER ARE NOT FOUND IN THE TABLE, DO A CHECK AND REPAIR ON THE NECESSARY CIRCUITS (WDM 27-58-31).
28V AC POWER OR 28V DC POWER	212	<p>THIS INDICATED THAT THE 28V AC OR 28V DC POWER INTO THE FSEU WAS LOST FOR MORE THAN 5 SECONDS. MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:</p> <p>FSEU-1 CONT CB 11G13,C1539 AND SENSOR CB 11G14,C1037          FSEU-2 CONT CB 11C15,C1541 AND SENSOR CB 11C16,C1524          FSEU-3 CONT CB 11G22,C1540 AND SENSOR CB 11G23,C1038</p> <p><u>NOTE:</u> THE -40 FSEUs CAN NOT DETECT LOSS OF 28V DC POWER.</p> <p>MAKE SURE NO PRESENT FAULTS EXIST IN THE "EXISTING FAULTS?" TEST IN THE FSEU. IF THE PROBLEM CONTINUES, GO TO BLOCK 23, SHEET 9.</p>

TABLE 101 CONTINUED ON SHEET 4

FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
 Figure 104 (Sheet 3)

EFFECTIVITY

ALL

27-51-00

07

Page 115  
Sep 28/07

819056


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

MESSAGE	MESSAGE NUMBERS	CORRECTIVE ACTION
FLAP ARM CHAN #	213	REPLACE THE FLAP ARM SWITCH, S10254, FOR THE CHANNEL NUMBER THAT WAS SHOWN ON THE DISPLAY. IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT FROM THE FLAP ARM SWITCH TO THE FSEU. REPAIR THE PROBLEMS THAT YOU FIND. <ul style="list-style-type: none"> <li>• FSEU-1 (WDM 27-51-21)</li> <li>• FSEU-2 (WDM 27-51-61)</li> <li>• FSEU-3 (WDM 27-51-11).</li> </ul>
SLAT ARM CHAN #	213	REPLACE THE SLAT ARM SWITCH, S10255, FOR THE CHANNEL NUMBER THAT WAS SHOWN ON THE DISPLAY. IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT FROM THE SLAT ARM SWITCH TO THE FSEU. REPAIR THE PROBLEMS THAT YOU FIND. <ul style="list-style-type: none"> <li>• FSEU-1 (WDM 27-51-21)</li> <li>• FSEU-2 (WDM 27-51-61)</li> <li>• FSEU-3 (WDM 27-51-11).</li> </ul>
NO HYD PRESSURE	214,216,302, 307	GO TO FIG. 115.
NO HYD DEPRESS	215	SYSTEM FAILED TO DEPRESSURIZE AFTER THE SYSTEM SHUTDOWN OR AFTER THE ALTERNATE SYSTEM WAS ARMED FOR 25 SECONDS. GO TO FIG. 115.
FLA FAIL	217, 304	GO TO FIG. 107.
LT FLAP XMT RT FLAP XMT LT SLAT XMT RT SLAT XMT LEVER XMT FLAP PDU XMT SLAT PDU XMT	220-226,312, 313,322,323, 333,334,342, 343,346	DO THE ADJUSTMENT OF THE POSITION TRANSMITTER FOR THE MESSAGE THAT WAS GIVEN. IF THE PROBLEM CONTINUES, EXAMINE AND REPAIR THE STRAIN RELIEF BACKSHELL ON THE POSITION TRANSMITTER CONNECTOR FOR DAMAGE OR SHORTING TO THE SHELL. IF THERE IS NO DAMAGE OR SHORT, EXAMINE AND REPAIR THE CIRCUIT FOR THE POSITION TRANSMITTER: <ul style="list-style-type: none"> <li>• R SLAT XMTR, TS5047, AND FSEU-1 (WDM 27-51-41) AND FSEU-2 (WDM 27-51-61)</li> <li>• R FLAP XMTR, TS5051, AND FSEU-1 (WDM 27-51-41) AND FSEU-2 (WDM 27-51-61)</li> <li>• L FLAP XMTR, TS5049, AND FSEU-1 (WDM 27-51-41) AND FSEU-2 (WDM 27-51-61)</li> <li>• L SLAT XMTR, TS5083, AND FSEU-1 (WDM 27-51-41) AND FSEU-2 (WDM 27-51-61)</li> <li>• FLAP LEVER XMTR, TS5046, AND FSEU-1 (WDM 27-51-41)</li> <li>• SLAT PDU XMTR, TS5048, AND FSEU-3 (WDM 27-81-11), OR FLAP PDU XMTR, TS5050, AND FSEU-3 (WDM 27-51-11).</li> </ul>
LEVER DISAGREE	303	MAKE SURE THE FLAP CONTROL LEVER IS CORRECTLY SEATED IN THE THE SAME DETENT AS THE POSITION OF THE TE FLAPS AND LE SLATS. GO TO BLOCK 3, SHEET 2. IF THE "LEVER XMTR" MESSAGE SHOWS, ADJUST THE POSITION TRANSMITTER FOR THE FLAP CONTROL LEVER (AMM 27-58-01/501). IF THE "LEVER XMTR" MESSAGE DOES NOT SHOW, THE FLAP CONTROL LEVER WAS NOT CORRECTLY SEATED A DETENT FOR MORE THAN 25 SECONDS.
FLAP DISAGREE	305,328	IF THE FAULT OCCURRED DURING NORMAL HYDRAULIC OPERATION, GO TO FIG. 105, BLOCK 2. IF THE FAULT OCCURRED DURING ALTERNATE ELECTRICAL OPERATION, MAKE SURE NO OVERLOAD INDICATORS ON THE FLAP TRANSMISSIONS CAME ON. IF AN INDICATOR DID COME ON, GO TO FIG. 105, BLOCK 18. IF NO INDICATORS CAME ON, GO TO FIG. 112, BLOCK 4.
SLAT DISAGREE	310,331	IF THE FAULT OCCURRED DURING NORMAL HYDRAULIC OPERATION, GO TO FIM 27-81-00/101, FIG. 104, BLOCK 2. IF THE FAULT OCCURRED DURING ALTERNATE ELECTRICAL OPERATION, MAKE SURE NO OVERLOAD INDICATORS ON THE PDU TORQUE LIMITERS CAME ON. IF AN INDICATOR DID COME ON, GO TO FIM 27-81-00/101, FIG. 104, BLOCK 3. IF NO INDICATORS CAME ON, GO TO FIG. 107, BLOCK 4.
AUTOSLAT FAIL	309	GO TO LE SLAT (FIM 27-81-00/101, FIG. 109).

TABLE 101 CONTINUED ON SHEET 5

FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
 Figure 104 (Sheet 4)

EFFECTIVITY

ALL

27-51-00

05

Page 116  
Jan 28/06

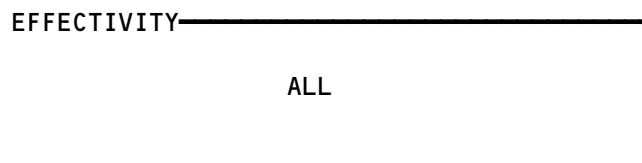
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 757  
 FAULT ISOLATION/MAINT MANUAL

AUTOSLAT CIRCUIT	201	THIS SHOWS THERE WAS A PROBLEM IN THE AUTOSLAT CIRCUIT FROM FSEU-1 OR FSEU-2 TO THE SOLENOID IN THE CONTROL VALVE FOR THE LE SLAT PDU. REMOVE CONNECTOR D3050 FROM THE AUTOSLAT VALVE SOLENOID, M10304, AND MAKE SURE THERE IS CONTINUITY FROM PIN 1 TO PIN 2 (IF THE FAULT OCCURRED ON FSEU-1) OR PINS 3 AND 4 (IF THE FAULT OCCURED ON FSEU-2) (WDM 27-81-21). IF CONTINUITY DOES NOT EXIST, REPLACE THE AUTOSLAT SOLENOID VALVE, M10304 (WDM 27-81-21). IF THE CONTINUITY DOES EXIST, EXAMINE THE CIRCUIT FROM THE FSEU TO THE SOLENOID VALVE AND FROM THE SOLENOID VALVE TO GROUND (WDM 27-81-21).
LT FLAP DRIVE	314,335	GO TO BLOCK 6, SHEET 6.
RT FLAP DRIVE	315,347	GO TO BLOCK 10, SHEET 7.
SLAT LOSS	317,337	DO THIS PROCEDURE: EICAS MESSAGE "LE SLAT ASYM" DISPLAYED (FIM 27-81-00/101, FIG. 105, BLOCK 3).
LT SLAT DRIVE	324,344	GO TO BLOCK 8, SHEET 6.
RT SLAT DRIVE	325,345	GO TO BLOCK 12, SHEET 7.
FSEU 3 INOP	326,329	REPLACE THE FSEU-3 (AMM 27-51-01/201).
FLAP ARM DISAGREE OR SLAT ARM DISAGREE	327,330	GO TO BLOCK 26, SHEET 10.
MULT ALT COMMAND	211	THIS MESSAGE WILL SHOW IF FSEU-2 OR FSEU-3 RECEIVES MORE THAN ONE GROUND COMMAND FROM THE POSITION SELECTOR SWITCH FOR THE FLAP/SLAT ALTERNATE DRIVE. PUSH THE ARMING SWITCHES FOR THE FLAP AND SLAT ALTERNATE DRIVES TO ARM THE FLAP AND SLAT ALTERNATE DRIVES. TURN THE POSITION SELECTOR SWITCH, ON THE P3 PANEL, TO THE "NORM" DETENT, THEN TO THE "UP" THRU "30" DETENTS AND STOP FOR 5 SECONDS AT THE DETENTS. IF THE "FLAP/SLAT ELEC" MESSAGE DOES NOT SHOW ON THE EICAS DISPLAY, DO A TEST ON THE NORMAL HYDRAULIC OPERATION (AMM 27-51-00/501) TO MAKE SURE THE FAULT DOES NOT IF THE "FLAP/SLAT ELEC" MESSAGE DOES SHOW ON THE EICAS DISPLAY, EXAMINE THE CIRCUIT FROM THE POSITION SELECTOR SWITCH, S10256, TO FSEU-2, M10332, (WDM 27-51-61) OR FSEU-3, M1-333 (WDM 27-51-11).

TABLE 101

FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
 Figure 104 (Sheet 5)



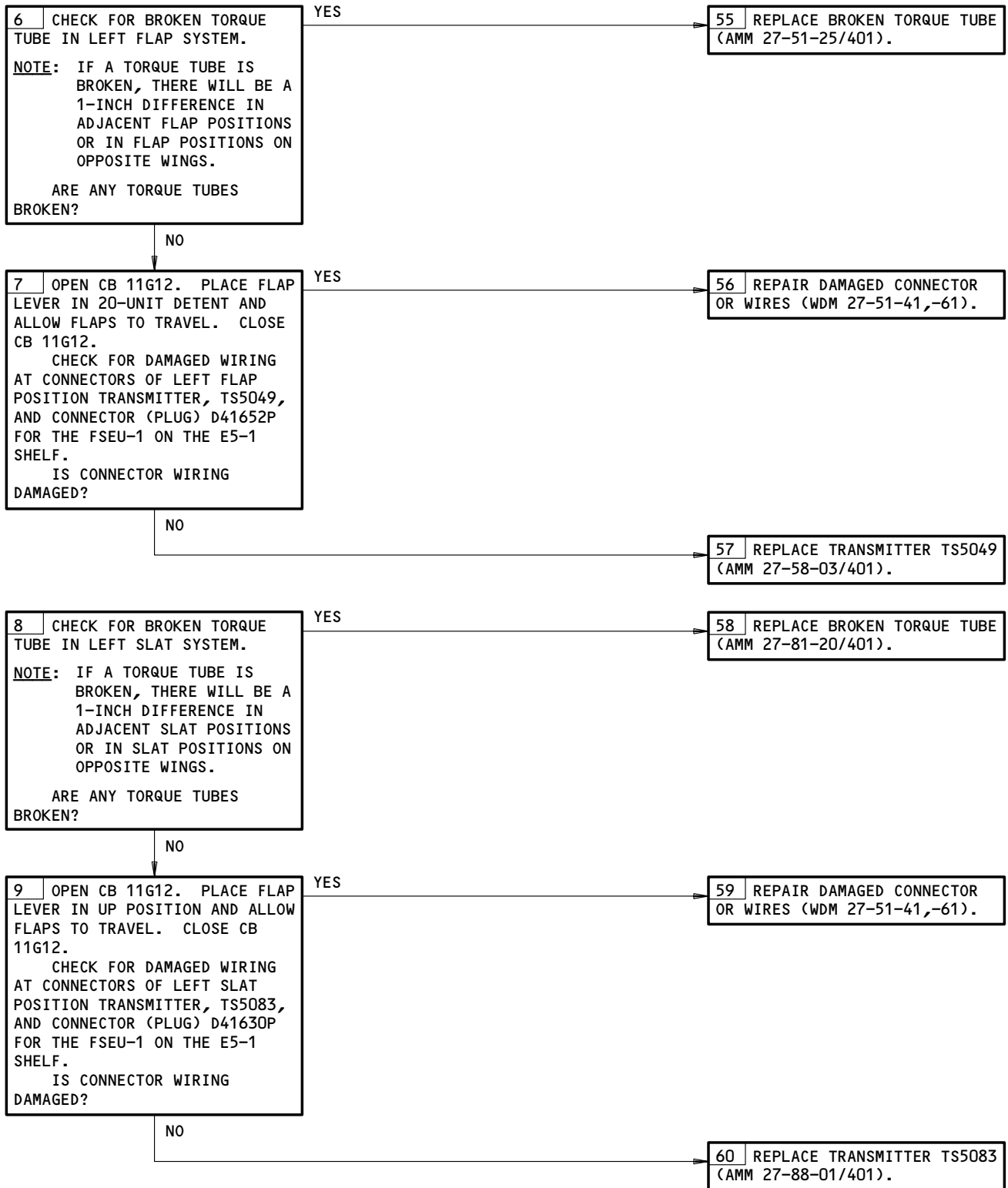
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Page 117  
May 28/05

819064



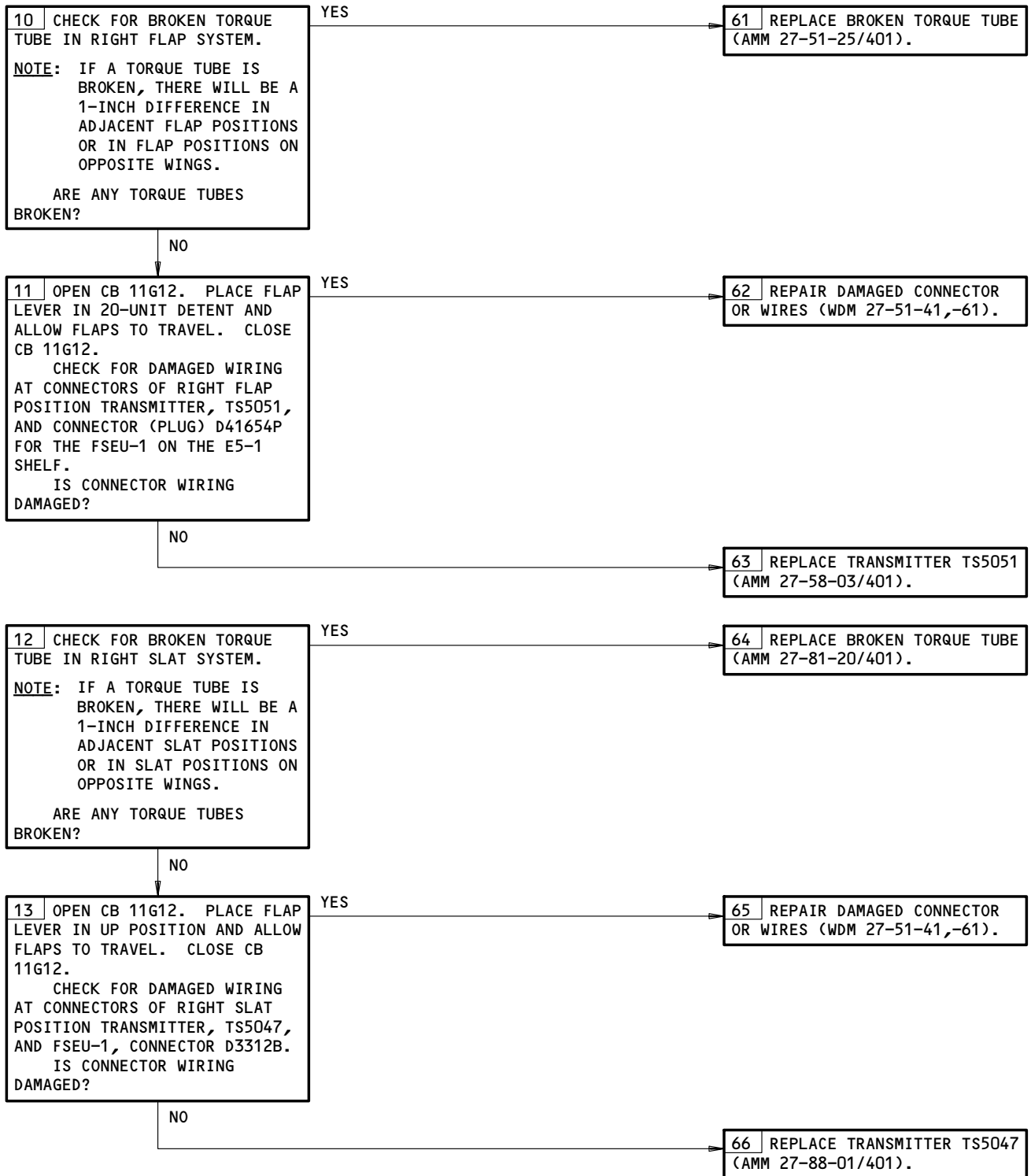


FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
Figure 104 (Sheet 6)

EFFECTIVITY

ALL

27-51-00

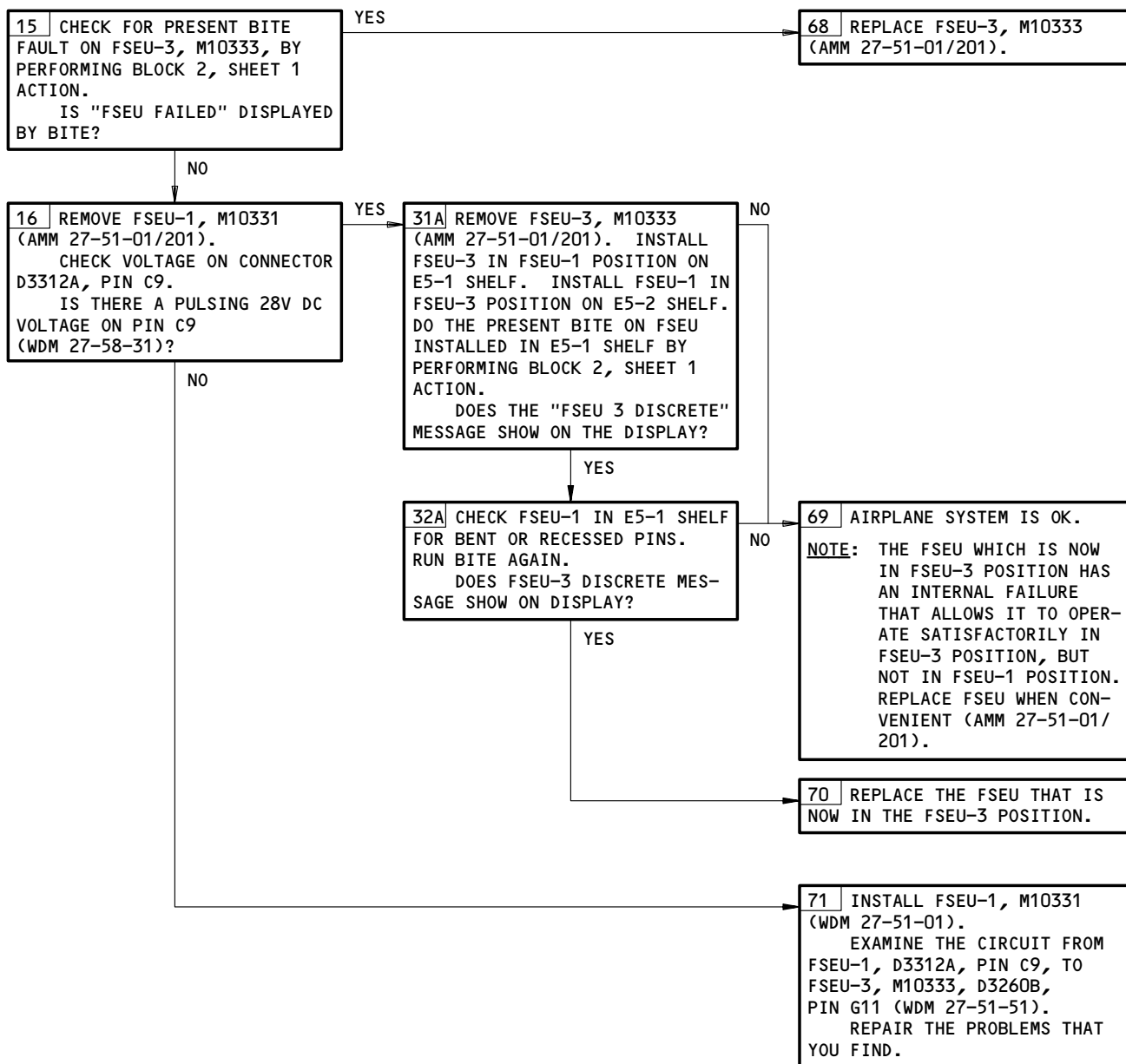


FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
Figure 104 (Sheet 7)

EFFECTIVITY

ALL
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27-51-00

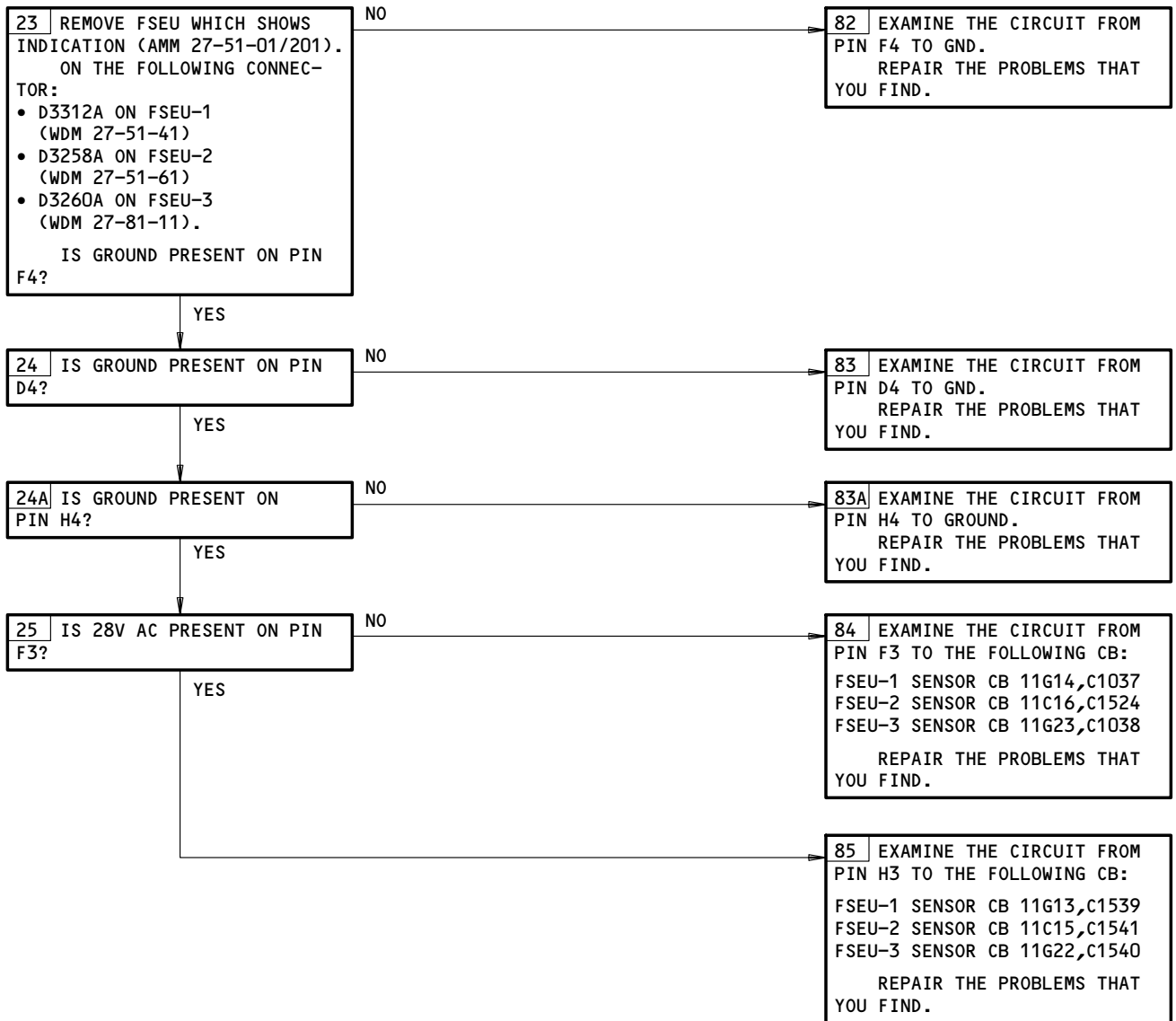


FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
Figure 104 (Sheet 8)

EFFECTIVITY

ALL
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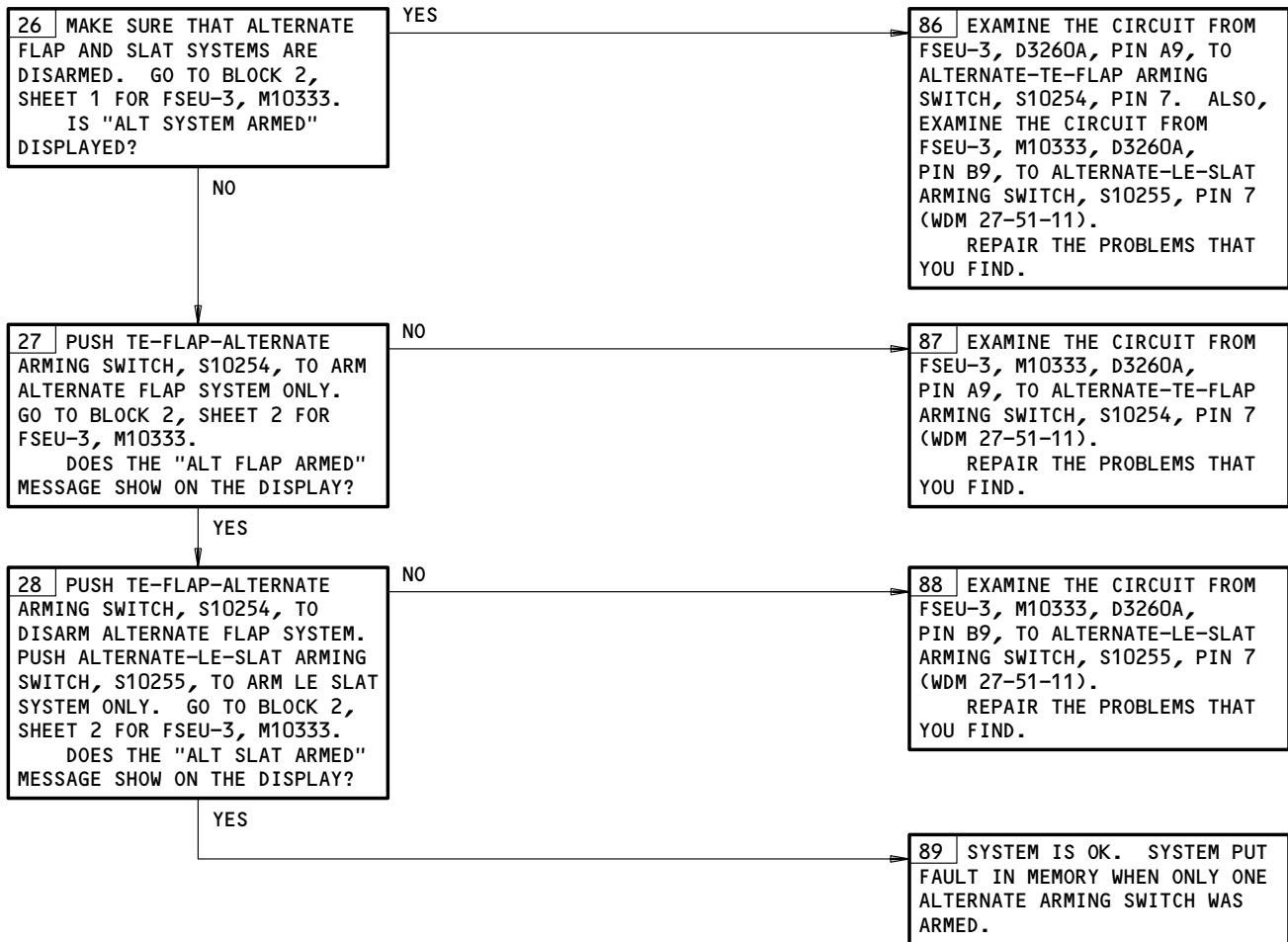
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FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
Figure 104 (Sheet 9)

EFFECTIVITY	ALL
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**27-51-00**



Flap/Slat Electronic Unit BITE Procedure  
Figure 104 (Sheet 10)

EFFECTIVITY	ALL
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27-51-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

TABLE 102	
CONNECTOR; PIN # FSEU, CIRCUIT BREAKER	MAINTENANCE ACTION
B;C5 FSEU-1, C1022 (11J18)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C1022 AND FSEU-1, D3312B, PIN C5 (WDM 27-51-51). IF NO DAMAGE WAS FOUND, REPLACE FLAP LOAD RELIEF RELAY, K10245 (WDM 27-51-51).
B;E6 FSEU-1, C4212 (11H23)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C4212 AND FSEU-1, D3312B, PIN E6 (WDM 27-51-21). IF NO DAMAGE WAS FOUND, REPLACE FLAP/SLAT ALT DRIVE ARM RELAY, K10095 (WDM 27-51-21).
B;C8 FSEU-1, C1017 (11H11)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C1017 AND FSEU-1, D3312B, PIN C8 (WDM 27-41-11). IF NO DAMAGE WAS FOUND, REPLACE TRIM LIMIT SELECT LEFT RELAY, K574 (WDM 27-41-11).
B;D8 FSEU-2, C1254 (11P9)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C1254 AND FSEU-2, D3258B PIN D8 (WDM 33-24-11). IF NO DAMAGE WAS FOUND, REPLACE FASTEN SEAT BELT RELAY, K10028 (WDM 33-24-11).
B;H8 FSEU-2, C4107 (11L7)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C4107 AND FSEU-2, D3258B PIN H8 (WDM 76-11-21). IF NO DAMAGE WAS FOUND, REPLACE LEFT FLAP SIGNAL RELAY, K10349 (WDM 76-11-21).
B;C8 FSEU-3, C1018 (11H20)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C1018 AND FSEU-3 D3260B, PIN C8 (WDM 27-41-21). IF NO DAMAGE WAS FOUND, REPLACE TRIM LIMIT SELECT RIGHT RELAY, K575 (WDM 27-41-21).
B;H8 FSEU-3, C4108 (11L33)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C4108 AND FSEU-3, D3260B PIN H8 (WDM 76-11-21). IF NO DAMAGE WAS FOUND, REPLACE RIGHT FLAP SIGNAL RELAY, K10348 (WDM 76-11-21).
B;A10 FSEU-3, C660 (11P14)	DO A CHECK AND REPAIR CIRCUIT BETWEEN C660 AND FSEU-3, D3260B PIN A10. IF NO DAMAGE WAS FOUND, REPLACE SMOKE CLEAR BYPASS RELAY, K10497 (WDM 21-25-11).

FLAP/SLAT ELECTRONIC UNIT BITE Procedure  
 Figure 104 (Sheet 11)

EFFECTIVITY

ALL

27-51-00

04

Page 123  
Sep 20/98

819074

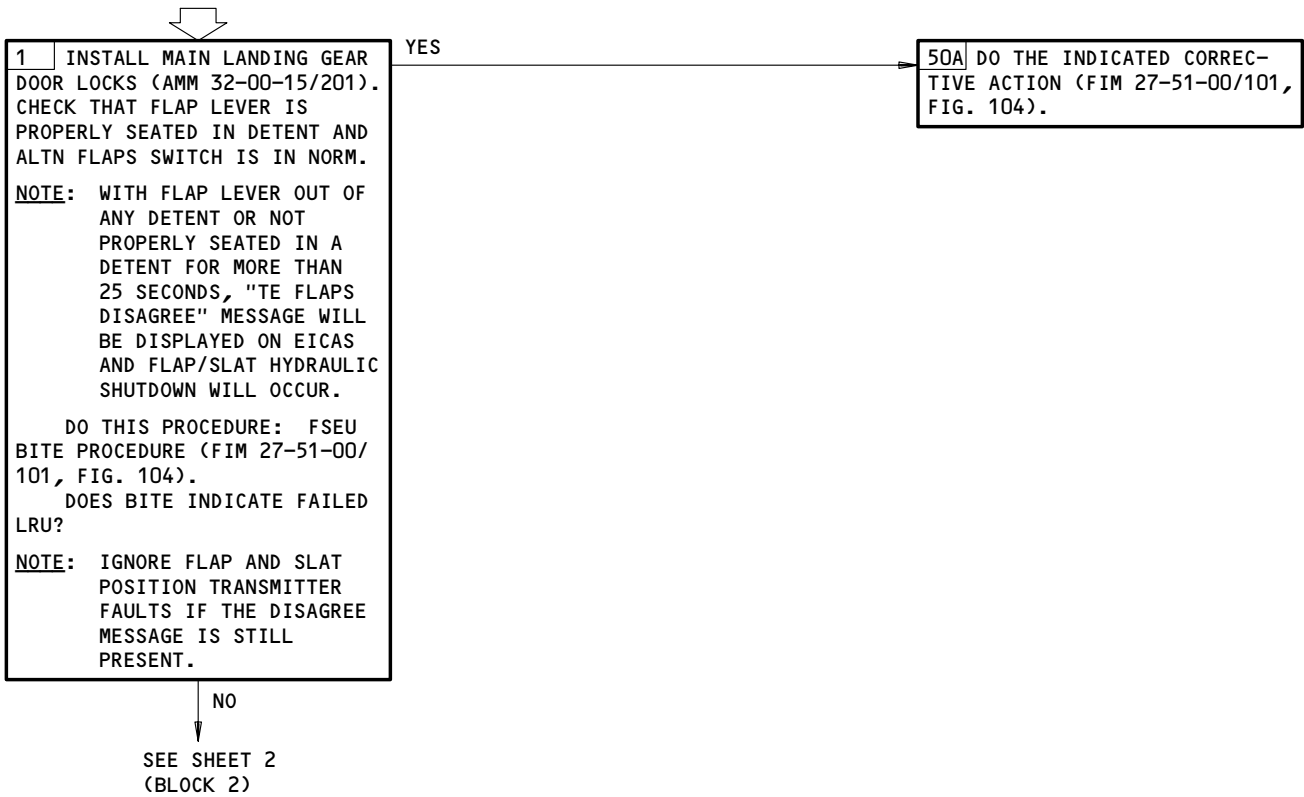
EICAS MESSAGE "TE  
FLAPS DISAGREE"  
DISPLAYED WITH THE  
FLAP CONTROL LEVER  
IN ANY DETENT DURING  
NORMAL OPERATION

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C14,11C15,11C16,11G13,11C18,11G12,11G14,11G21,  
11G22,11G23,11H12,11H13,11H23,11H24,11J18

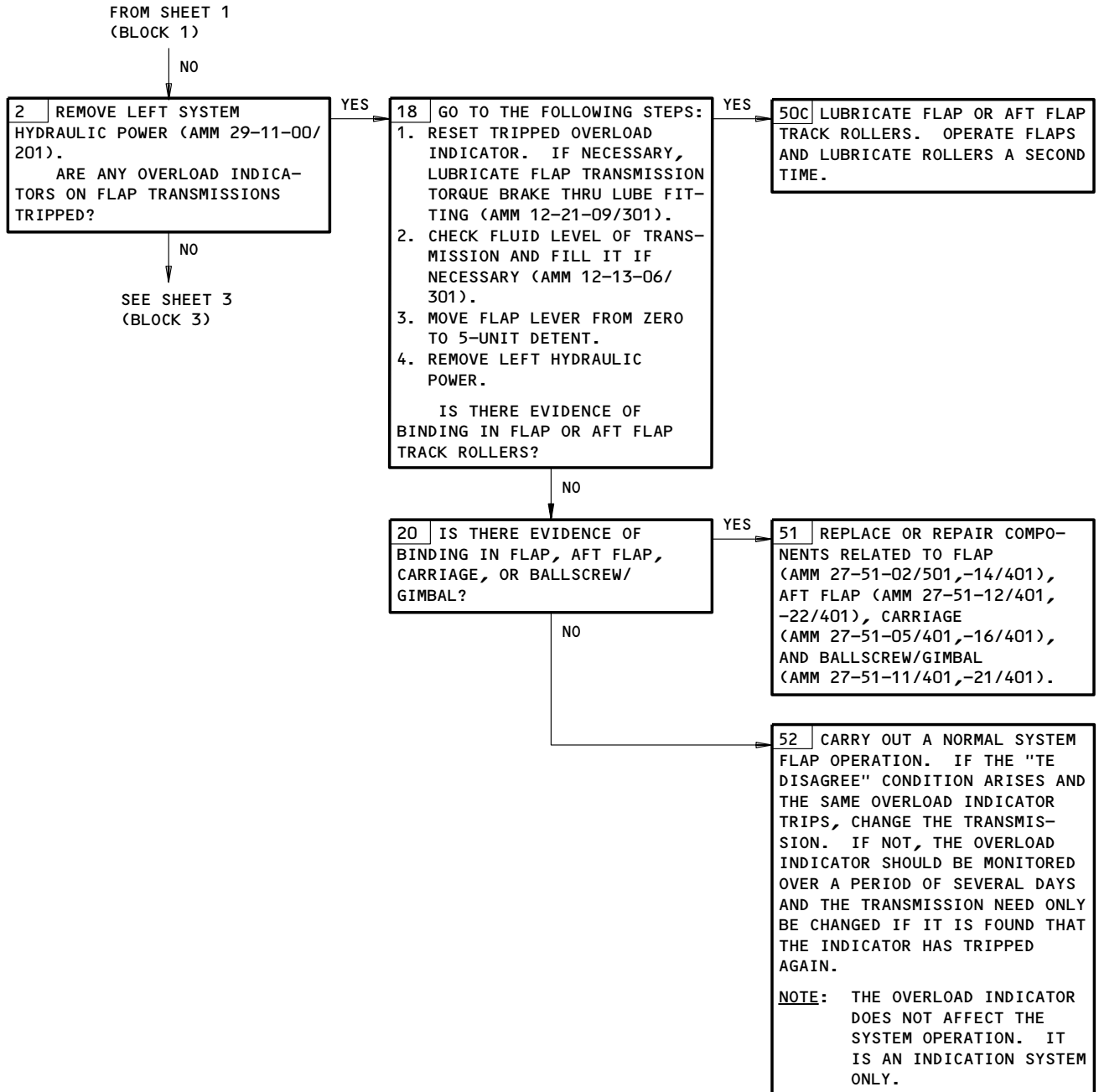
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
LEFT HYDRAULIC SYSTEM PRESSURIZED (AMM 29-11-00/  
201)



EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever  
in any Detent During Normal Operation  
Figure 105 (Sheet 1)

EFFECTIVITY	ALL
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**27-51-00**



EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever  
in any Detent During Normal Operation  
Figure 105 (Sheet 2)

EFFECTIVITY

ALL

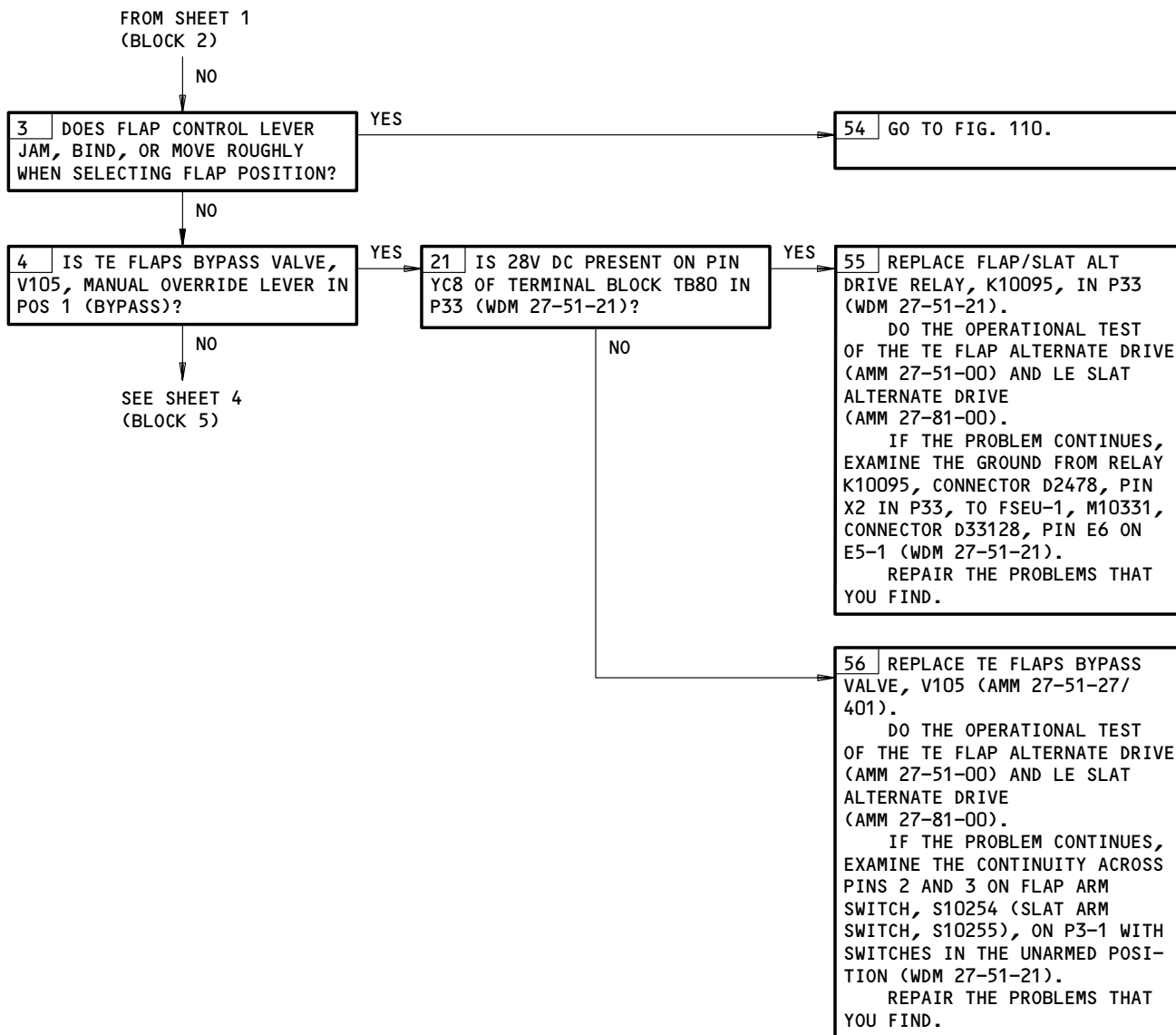
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Page 125  
May 28/02



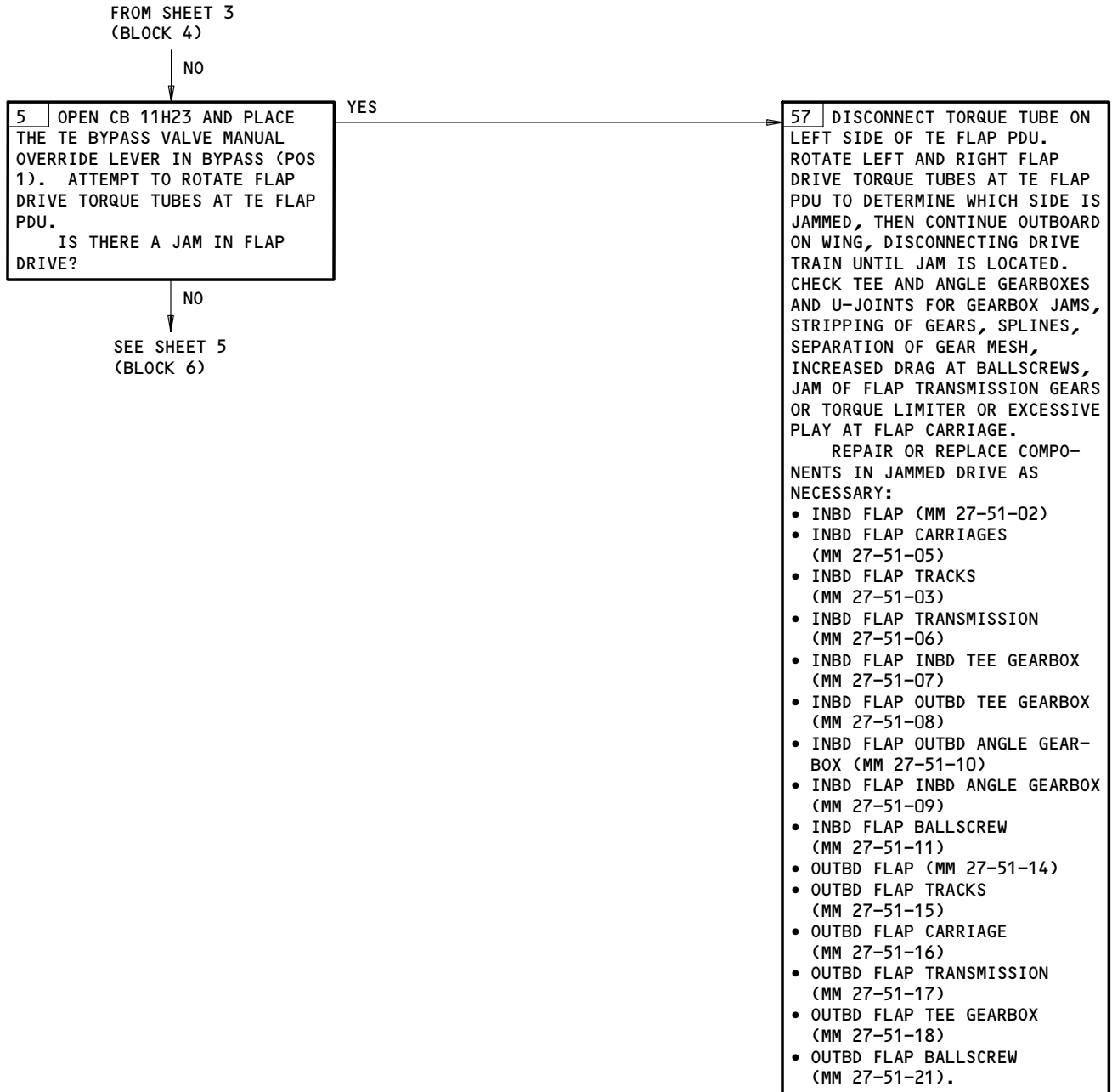
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757  
FAULT ISOLATION/MAINT MANUAL



EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever  
in any Detent During Normal Operation  
Figure 105 (Sheet 3)

EFFECTIVITY	ALL
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27-51-00

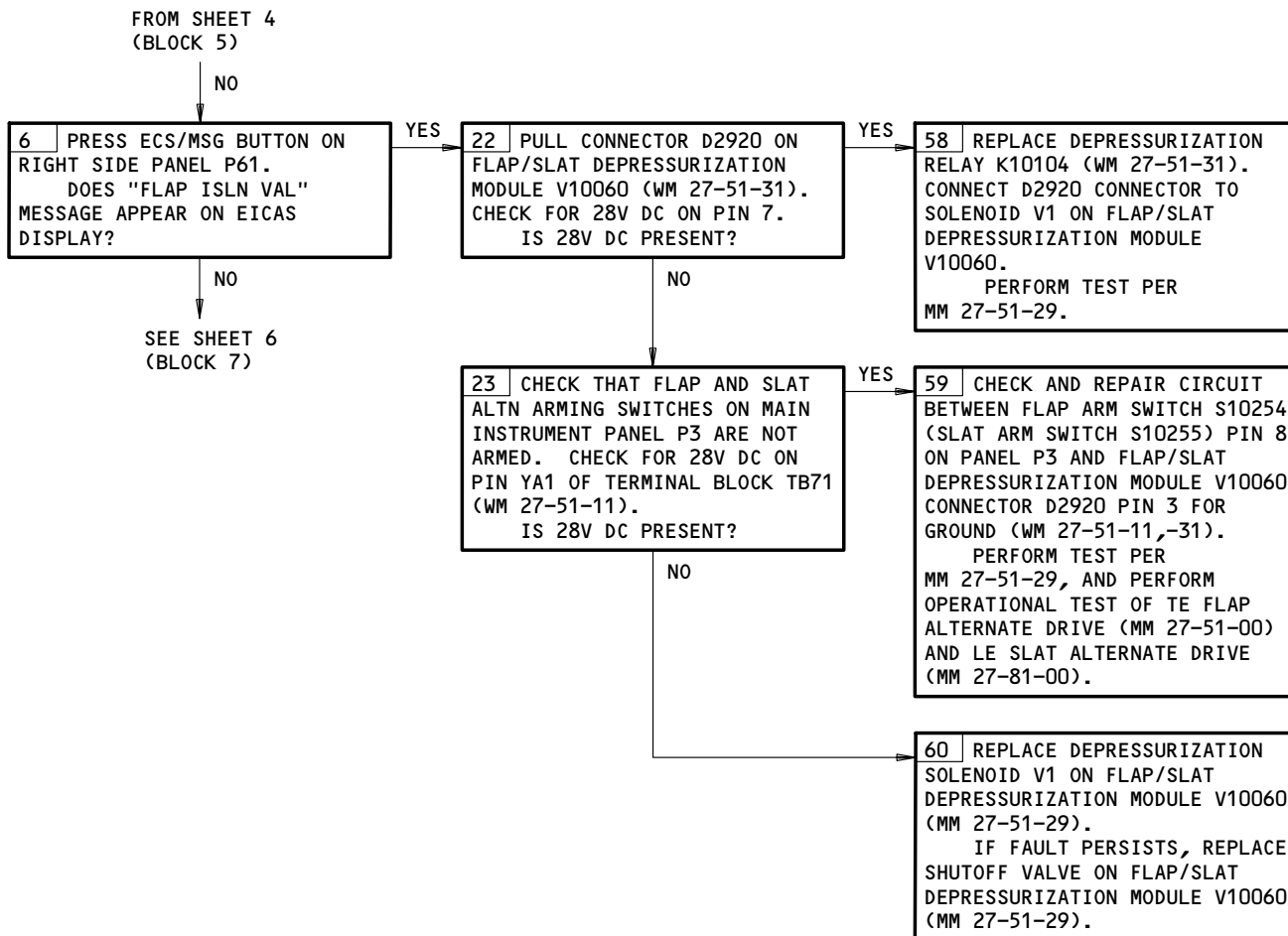


EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever  
 in any Detent During Normal Operation  
 Figure 105 (Sheet 4)

EFFECTIVITY	ALL
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27-51-00

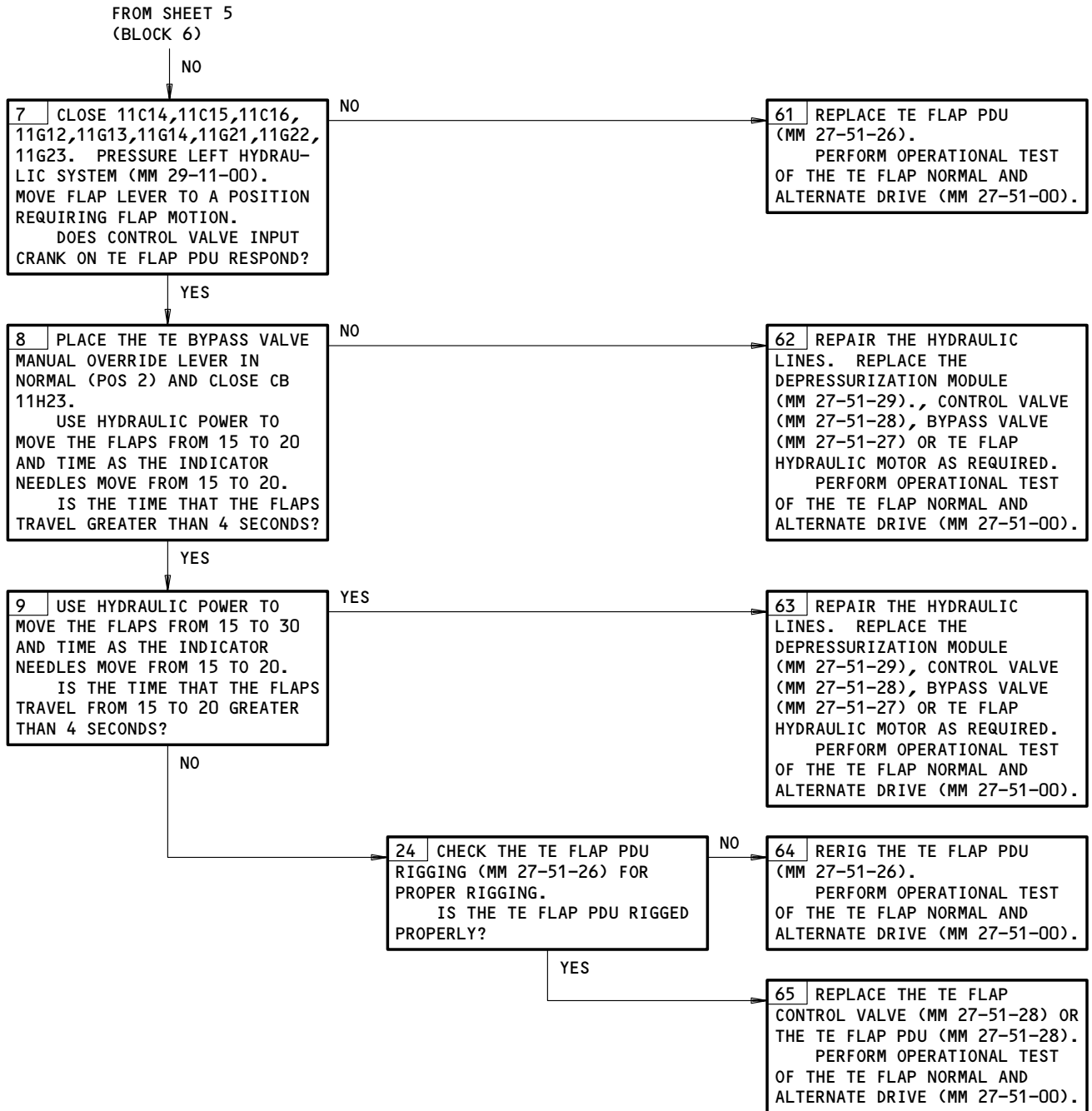
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever  
in any Detent During Normal Operation  
Figure 105 (Sheet 5)

EFFECTIVITY	ALL
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27-51-00



EICAS Message TE FLAPS DISAGREE Displayed with the Flap Control Lever  
in any Detent During Normal Operation  
Figure 105 (Sheet 6)

EFFECTIVITY	ALL
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27-51-00

**PREREQUISITES**  
ELECTRICAL POWER (MM 24-22-00)  
MAIN LANDING GEAR DOOR LOCKS INSTALLED (MM 32-00-15)  
CB'S: 11C14,11C15,11C16,11C18,11G12,11G13,11G21,  
11G22,11G23,11J18,11H12,11H13,11H23,11H24

FLAP CONTROL LEVER IS IN ONE UNIT OR MORE POSITION, "TE FLAPS ASYM" MESSAGE DISPLAYED ON EICAS, NO FLAP MOVEMENT

**WARNING:** TO PREVENT DAMAGE, CLEAR AREA AROUND FLIGHT CONTROL SURFACES BEFORE PROVIDING HYDRAULIC POWER. KEEP AREA CLEAR DURING FAULT ISOLATION.

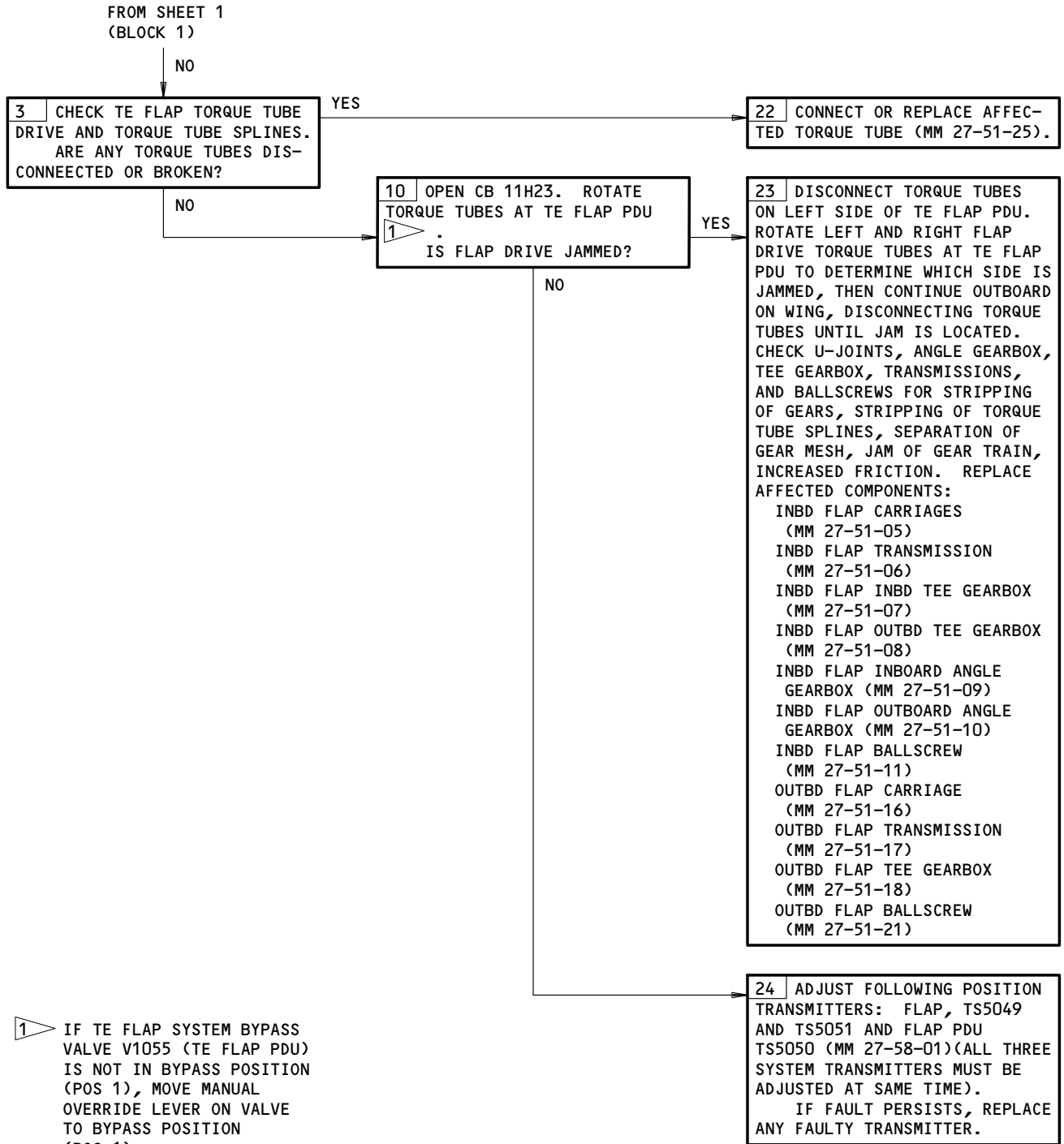


Flap Control Lever is in One Unit or More Position,  
TE FLAP ASYM Displayed on EICAS, No Flap Movement  
Figure 106 (Sheet 1)

EFFECTIVITY	ALL
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**27-51-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Flap Control Lever is in One Unit or More Position  
TE FLAP ASYM Displayed on EICAS, No Flap Movement  
Figure 106 (Sheet 2)

EFFECTIVITY

ALL

**27-51-00**

04

Page 131  
Sep 20/98

116178

EICAS MESSAGE:  
"FLAP LD RELIEF"  
DISPLAYED. FLAPS  
30 SELECTED. FLAPS  
FAILED TO RETRACT  
TO POS 25 WITH A/S  
MORE THAN 170K.

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C14, 11C15, 11C16, 11C18, 11G12, 11G13, 11G14,  
11G21, 11G22, 11G23, 11H12, 11H13, 11H24, 11J18

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER (AMM 29-11-00/201)

**WARNING:** TO PREVENT INJURY OR DAMAGE, CLEAR  
PERSONNEL AND EQUIPMENT FROM CONTROL  
SURFACES BEFORE PROVIDING HYDRAULIC POWER.  
KEEP AREA CLEAR WHEN OPERATING CONTROL  
SURFACES.

1 CHECK THAT FLAP CONTROL  
LEVER IS IN 30-UNIT DETENT,  
THAT FLAPS ARE FULLY EXTENDED  
(FLAPS 30), AND THAT MAIN  
LANDING GEAR DOOR LOCKS ARE  
INSTALLED (AMM 32-00-15/201).  
PLACE FLAP CONTROL LEVER  
FROM THE 30-UNIT POSITION TO  
THE 20-UNIT POSITION.  
DO THE FLAPS RETRACT?

NO

22 GO TO FIG. 105.

YES

2 PLACE FLAP LEVER TO  
30-UNIT POSITION. OPERATE FLA  
TEST SWITCH, S10329 (E/E  
COMPT).  
DO FLAPS RETRACT TO  
25-UNIT DETENT?

NO

10 GO TO LEFT MAIN GEAR WHEEL  
WELL. PULL FLAP LOAD RELIEF  
SOLENOID, CONNECTOR D3024.  
CHECK FOR 28V DC ON PIN 2  
(PIN 1, GND) AND 28V DC ON  
PIN 4 (PIN 3, GND)  
(WDM 27-51-51).  
IS THERE POWER ON PIN 2  
AND PIN 4?

NO

23 REPLACE FLAP LOAD RELIEF  
RELAY, K10245 (WDM 27-51-51).  
DO THE FLAP LOAD RELIEF  
SYSTEM TEST (AMM 27-51-00/  
201).  
IF THE PROBLEM CONTINUES  
EXAMINE THE CIRCUIT FROM FLAP  
LOAD RELIEF SOLENOID, M10303,  
CONNECTOR D3024, PIN 3 AND  
PIN 5, TO FLAP LOAD RELIEF  
RELAY, K10245, CONNECTOR  
D3022, PIN A1 ON P36  
(WDM 27-51-51). REPAIR THE  
PROBLEMS THAT YOU FIND.  
EXAMINE THE CIRCUIT FROM  
FLAP LOAD RELIEF RELAY,  
CONNECTOR D3022, PIN A2, TO  
CIRCUIT BREAKER 11J18 (C1022).  
REPAIR THE PROBLEMS THAT YOU  
FIND.  
EXAMINE THE CIRCUIT FROM  
CONNECTOR D3022, PIN X2, TO  
FSEU-1, M10331, CONNECTOR  
D3312B, PIN C5. REPAIR THE  
PROBLEMS THAT YOU FIND.

YES

SEE BLOCK 4  
(SHEET 2)

YES

24 REPLACE FLAP LOAD RELIEF  
SOLENOID, M10303  
(AMM 27-51-28/201).  
IF THE PROBLEM CONTINUES,  
REPLACE TE PDU CONTROL VALVE  
MODULE (AMM 27-51-28/201).

EICAS Message FLAP LD RELIEF Displayed. Flaps 30 Selected.  
Flaps Failed to Retract to Pos 25 with A/S More Than 170K.  
Figure 107 (Sheet 1)

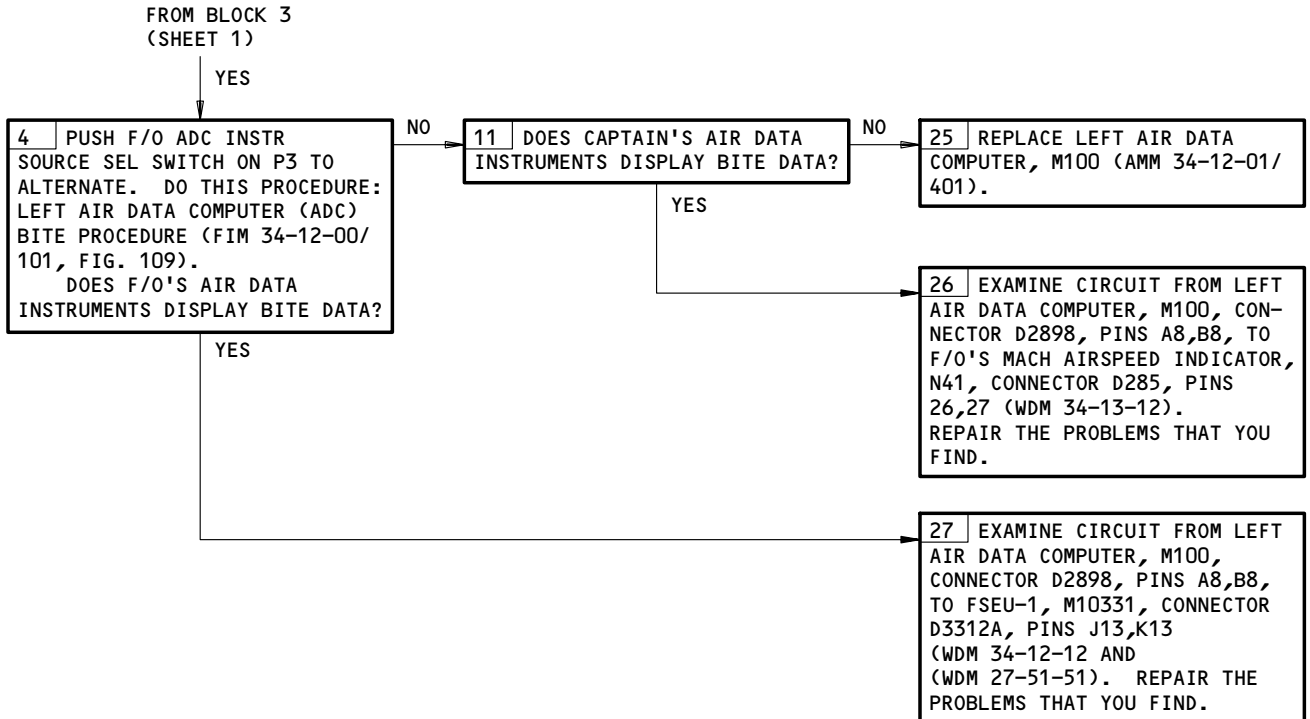
EFFECTIVITY

ALL

27-51-00

04

Page 132  
Sep 28/00



EICAS Message: FLAP LD RELIEF Displayed. Flaps 30 Selected.  
 Flaps Failed to Retract to Pos 25 with A/S More Than 170K.  
 Figure 107 (Sheet 2)

EFFECTIVITY	ALL
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**27-51-00**



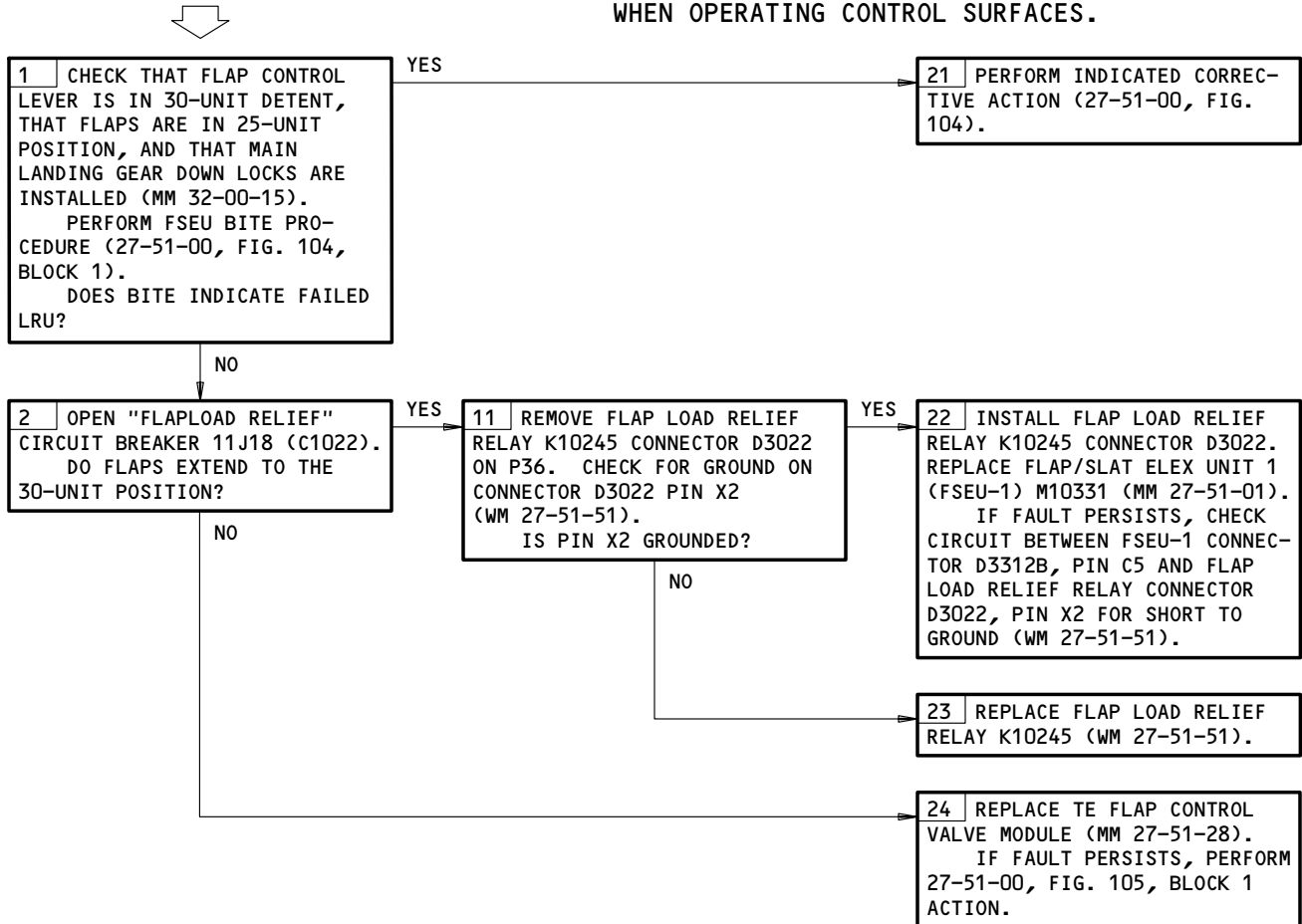
EICAS MESSAGE  
"TE FLAP DISAGREE"  
DISPLAYED. FLAPS  
30 SELECTED. FLAPS  
FAILED TO EXTEND  
TO POS 30 WITH A/S  
LESS THAN 165K.

**PREREQUISITES**

ELECTRIC POWER (MM 24-22-00)  
HYDRAULIC POWER (MM 29-11-00)

CB'S: 11C14,11C15,11C16,11C18,11G12,11G13,11G14,  
11G21,11G22,11G23,11H12,11H13,11H24,11J18

**WARNING:** TO PREVENT INJURY OR DAMAGE, CLEAR PERSONNEL AND EQUIPMENT FROM CONTROL SURFACES BEFORE PROVIDING HYDRAULIC POWER. KEEP AREA CLEAR WHEN OPERATING CONTROL SURFACES.



EICAS Message TE FLAP DISAGREE Displayed. Flaps 30 Selected.  
Flaps Failed to Extend to Pos 30 with A/S Less Than 165K.  
Figure 108

EFFECTIVITY	ALL
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**27-51-00**

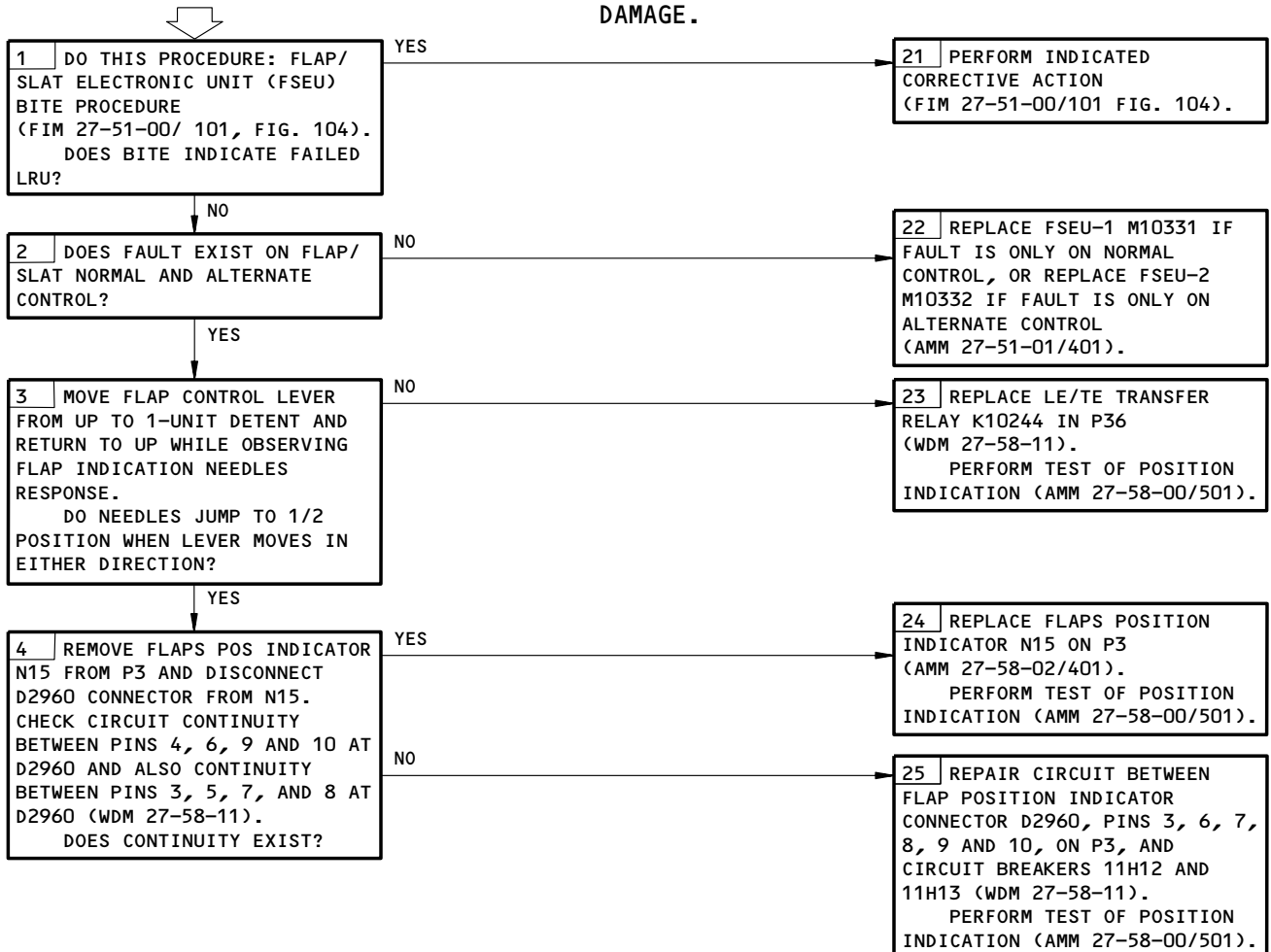
**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C14, 11C15, 11C16, 11C18, 11G12, 11G13, 11G14,  
11G21, 11G22, 11G23, 11H12, 11H13, 11H24, 11J18

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER (AMM 29-11-00/201)

**WARNING:** KEEP PERSONNEL AND EQUIPMENT CLEAR OF ALL CONTROL SURFACES TO PREVENT INJURY AND DAMAGE. ALL TE FLAPS AND LE SLATS WILL BE POWERED IN PREPARATION FOR CHANGE OF POSITION. AILERON, SPOILER, RUDDER, AND ELEVATOR CONTROL SURFACES WILL ALSO BE POWERED. CHECK THAT ENGINE FAN DUCT COWLING WILL NOT BE IN PATH OF LE SLATS TO PREVENT DAMAGE.

**FLAP POSITION INDICATOR NEEDLE(S) INOPERATIVE (STICK) DURING TE FLAPS OPERATION**



Flap Position Indicator Needle(s) Inoperative During TE Flaps Operation  
Figure 109

EFFECTIVITY

ALL

**27-51-00**

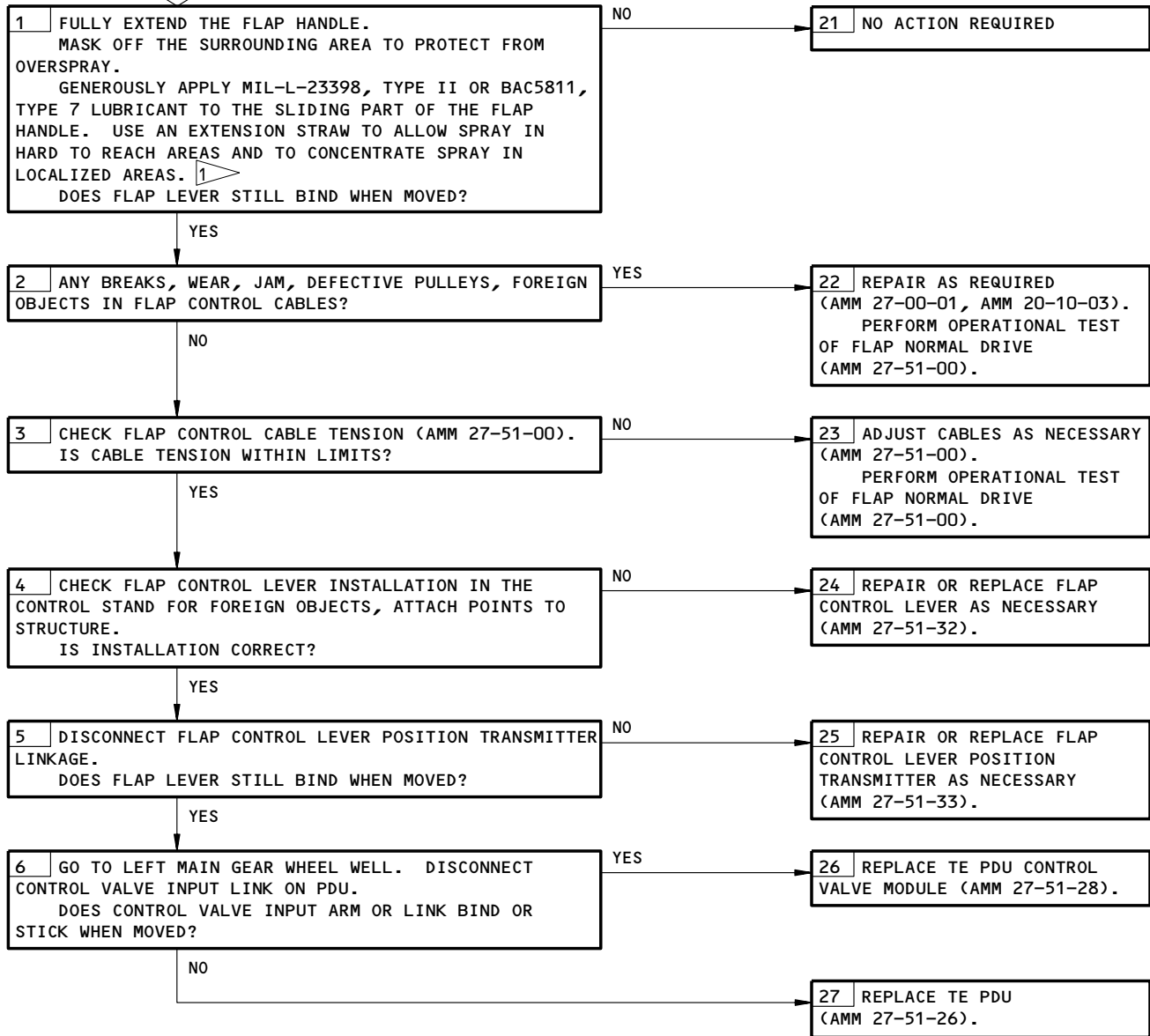
04

Page 135  
May 28/07

601913

**FLAP LEVER JAMS,  
BINDS OR IS ROUGH  
WHEN SELECTING ANY  
FLAP POSITION**

**PREREQUISITES**  
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
MAIN LANDING GEAR DOOR LOCKS INSTALLED  
(AMM 32-00-15/201)



1 ALLOW TO AIRDRY IF POSSIBLE. THE LUBRICANT WILL DRY WITHIN MINUTES, HOWEVER, THE COATING (RESIN SYSTEM) THAT HOLDS THE PIGMENTS WILL CURE IN 6 HOURS AT 77 +/-3 DEGREES F (25 +/-2 DEGREEES C). 24 HOURS GIVES THE BEST WEAR AND CORROSION PROTECTION.

Flap Lever Jams, Binds or is Rough When Selecting Any Flap Position  
Figure 110

EFFECTIVITY	ALL
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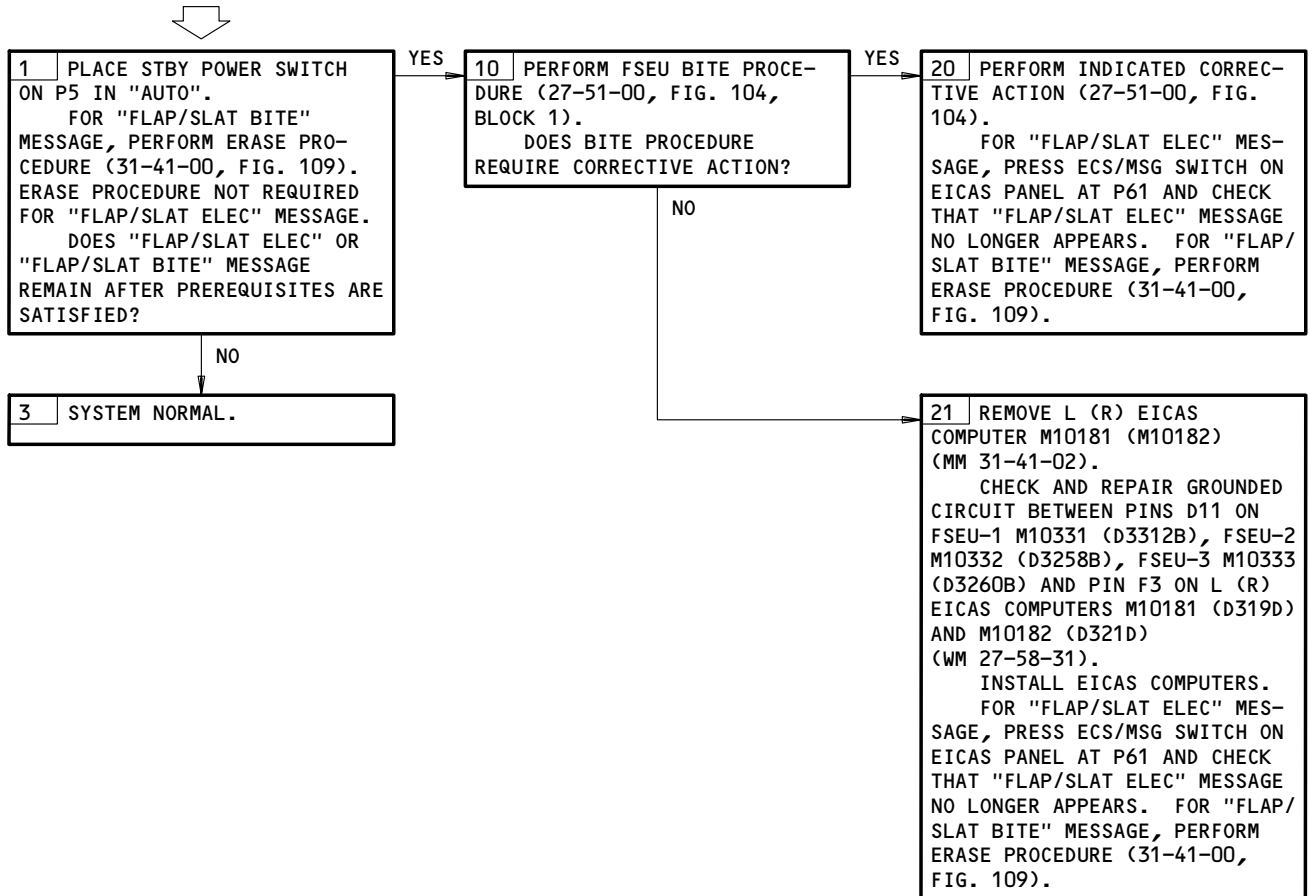
**27-51-00**

EICAS MESSAGE  
"FLAP/SLAT ELEC"  
OR "FLAP/SLAT BITE"  
DISPLAYED

**PREREQUISITES**

ELECTRICAL POWER (MM 24-22-00)  
AIR DATA SYSTEM (MM 34-12-00)  
EICAS (MM 31-41-00)

CB'S: 6D23,11C14,11C15,11C16,11C18,11G12,11G13,11G14,  
11G21,11G23,11H12,11H13,11H23,11H24,11J18



EICAS Message FLAP/SLAT ELEC or FLAP/SLAT BITE Displayed  
Figure 111

EFFECTIVITY	ALL
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**27-51-00**

04

Page 137  
Sep 20/98

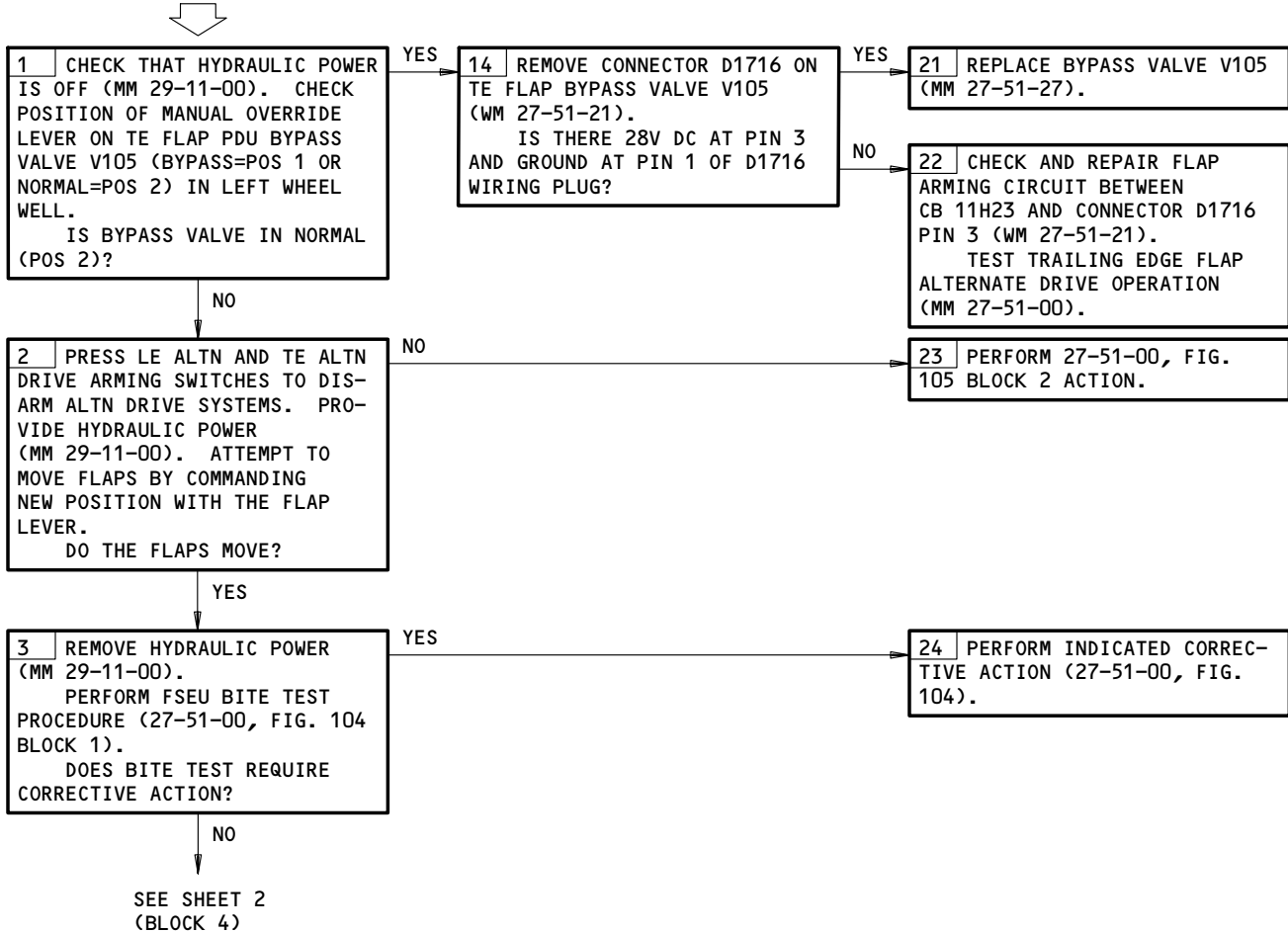
601916

EICAS MESSAGE "TE  
FLAP DISAGREE"  
DISPLAYED WITH ALTN  
FLAPS ROTARY SWITCH  
IN A COMMANDED  
POSITION AND TE  
ARMING SWITCH IN  
"ALTN"

**PREREQUISITES**

ELECTRICAL POWER (MM 24-22-00)  
HYDRAULIC POWER (MM 29-11-00)  
EICAS (MM 31-41-00)

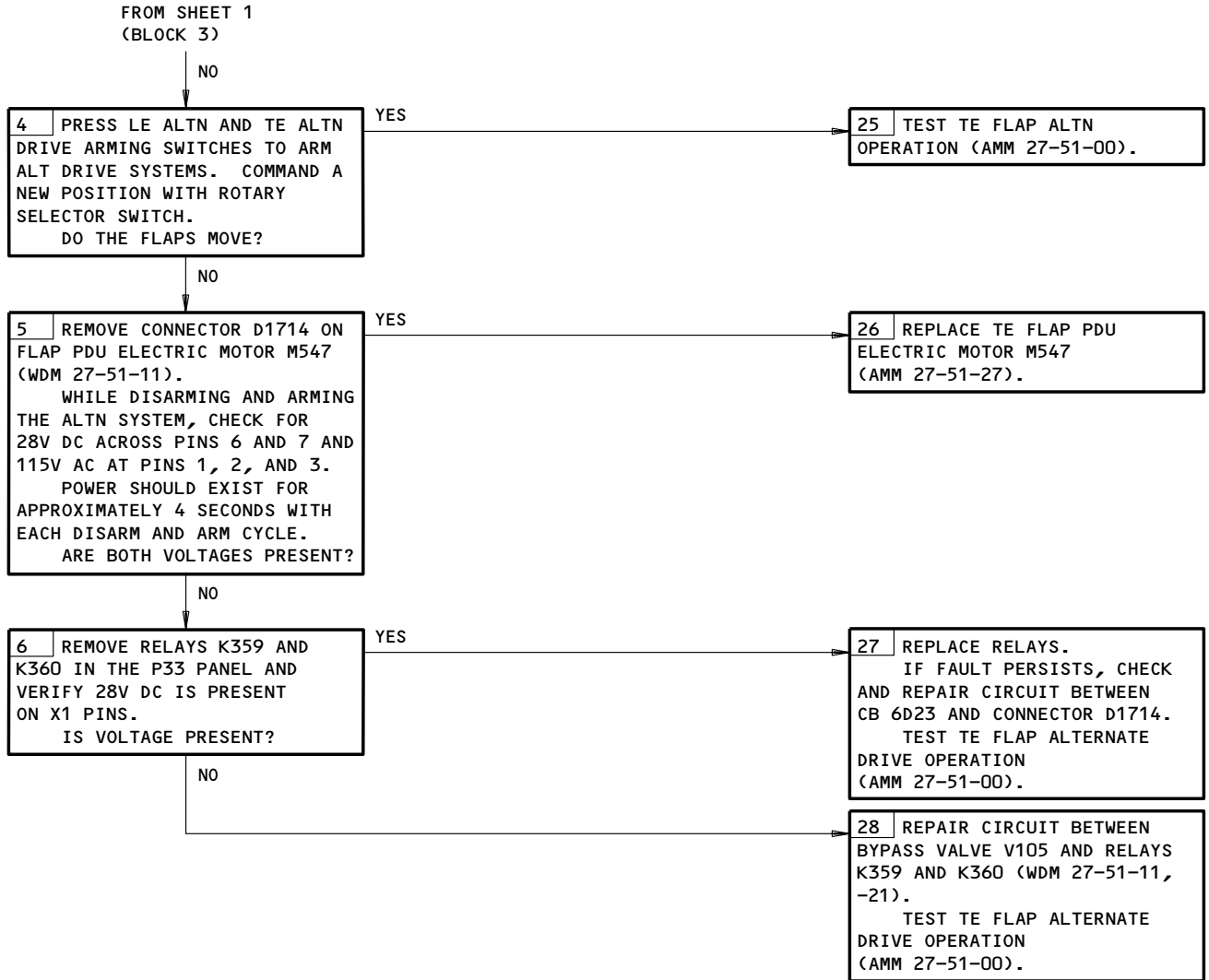
CB'S: 6D20,6D23,11C14,11C15,11C16,,11C18,11G12,11G13,  
11G14,11G21,11G22,11G23,11H12,11H13,11H23,11H24



EICAS Message TE Flap DISAGREE Displayed with ALTN FLAPS Rotary Switch in a  
Commanded Position and TE Arming Switch in ALTN  
Figure 112 (Sheet 1)

EFFECTIVITY	ALL

**27-51-00**



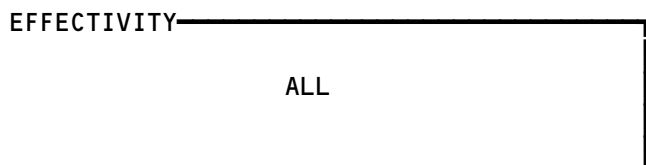
EICAS Message TE FLAP DISAGREE Displayed with ALTN FLAPS Rotary  
Switch in a Commanded Position and TE Arming Switch in ALTN  
Figure 112 (Sheet 2)

EFFECTIVITY

ALL

**27-51-00**

Not Used  
Figure 113



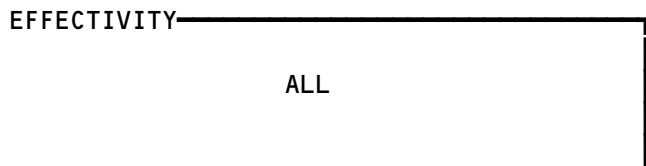
27-51-00

06

Page 140  
Sep 20/98

116228

Not Used  
Figure 114



27-51-00

07

Page 141  
Sep 20/98

116229



**PREREQUISITES**

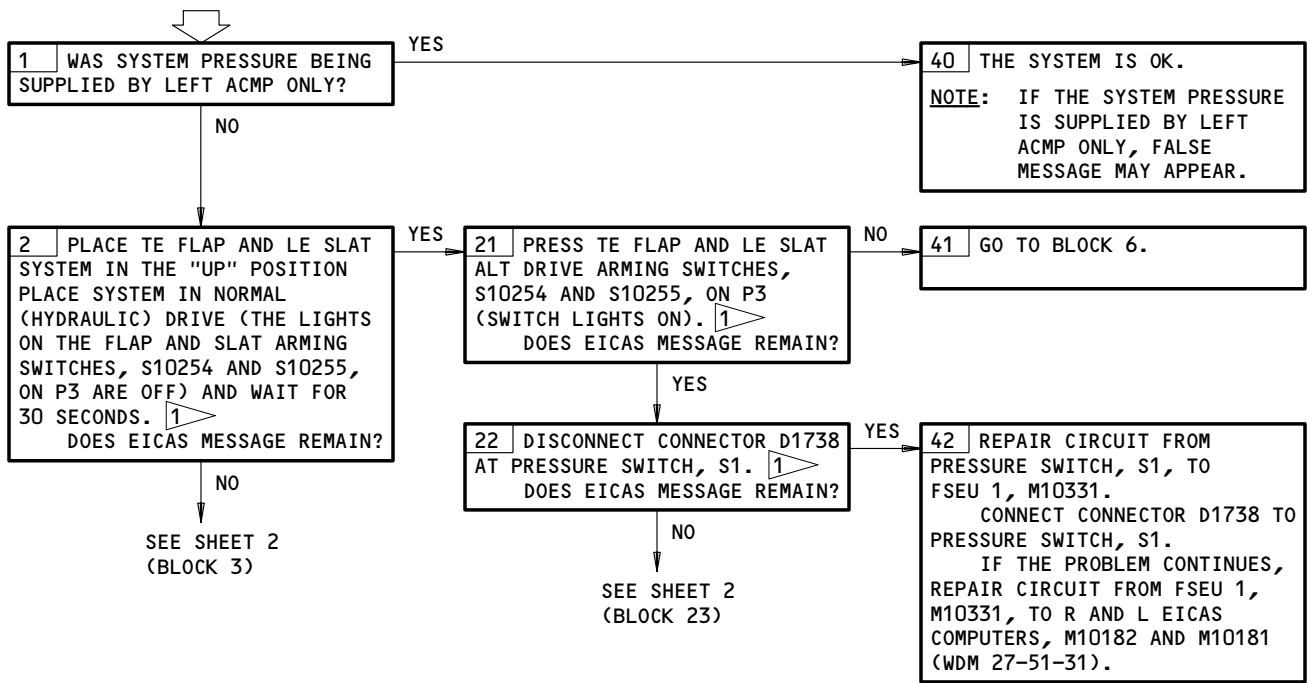
MAKE SURE THIS SYTSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C17,11G12,11G13,11G14,11H24

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
LEFT SYS HYDRAULIC POWER (AMM 29-11-00/201)  
INSTALL MAIN LANDING GEAR DOOR LOCKS  
(AMM 32-00-15/201)

EICAS MESSAGE "FLAP ISLN VAL" OR "FLAP LOAD RELIEF" OR "TE FLAP DISAGREE" OR LE SLAT DISAGREE" DISPLAYED

**WARNING:** TO PREVENT INJURY OR DAMAGE, CLEAR PERSONNEL AND EQUIPMENT FROM CONTROL SURFACES BEFORE PROVIDING HYDRAULIC POWER. KEEP AREA CLEAR WHEN PERFORMING FAULT ISOLATION. CHECK THAT FAN DUCT COWLING WILL NOT BE IN PATH OF LEADING EDGE SLATS.



1 DO THIS PROCEDURE: EICAS STATUS/MAINTENANCE MESSAGE ERASE PROCEDURE (FIM 31-41-00/101, FIG. 109).

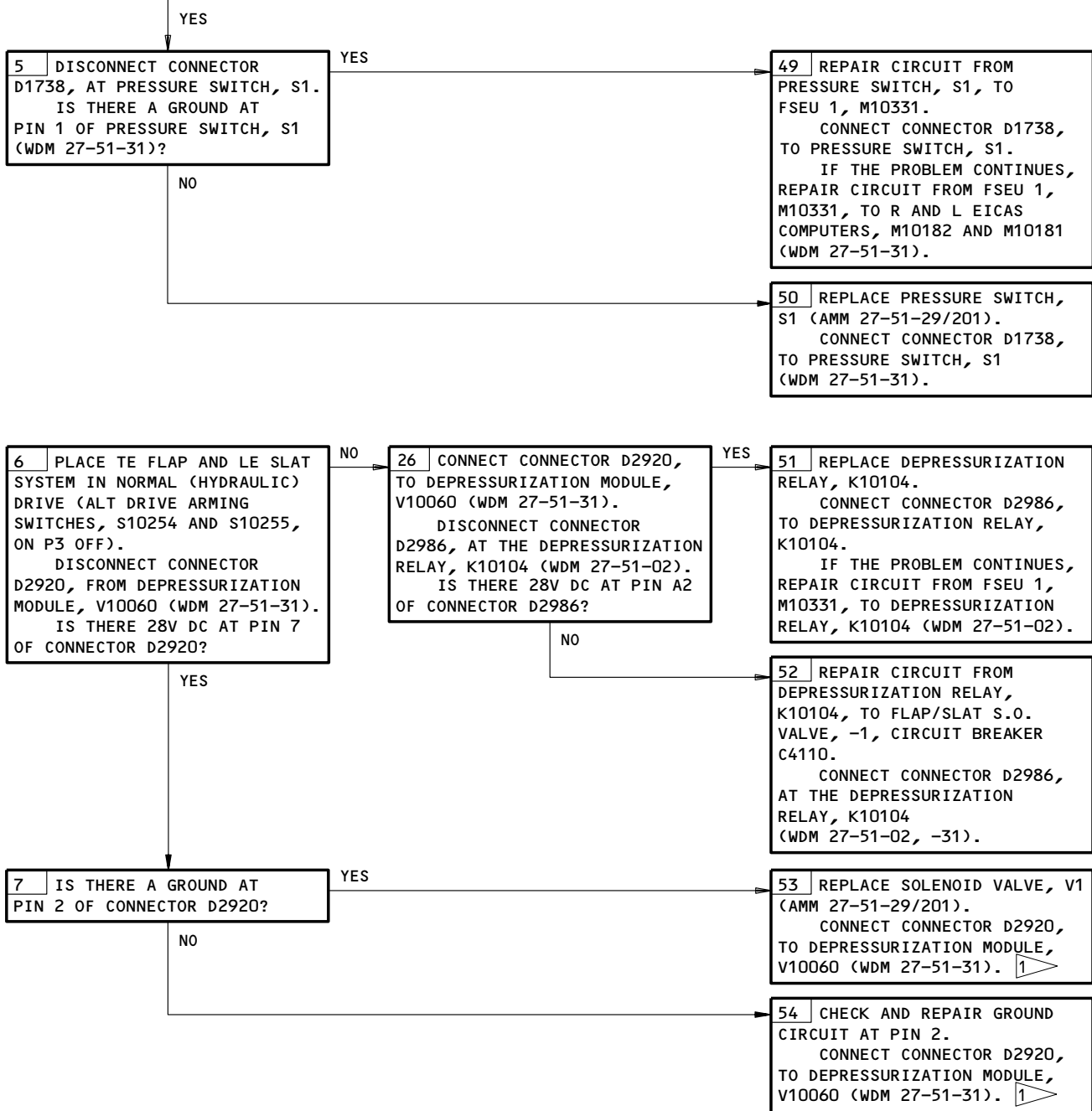
EICAS Message FLAP ISLN VAL or FLAP LOAD RELIEF or  
TE FLAP DISAGREE or LE SLAT DISAGREE Displayed  
Figure 115 (Sheet 1)

EFFECTIVITY	ALL
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**27-51-00**



FROM SHEET 2  
(BLOCK 4)



EICAS Message FLAP ISLN VAL or FLAP LOAD RELIEF or  
TE FLAP DISAGREE or LE SLAT DISAGREE Displayed  
Figure 115 (Sheet 3)

EFFECTIVITY

ALL

**27-51-00**

04

Page 144  
May 28/99

**PREREQUISITES**

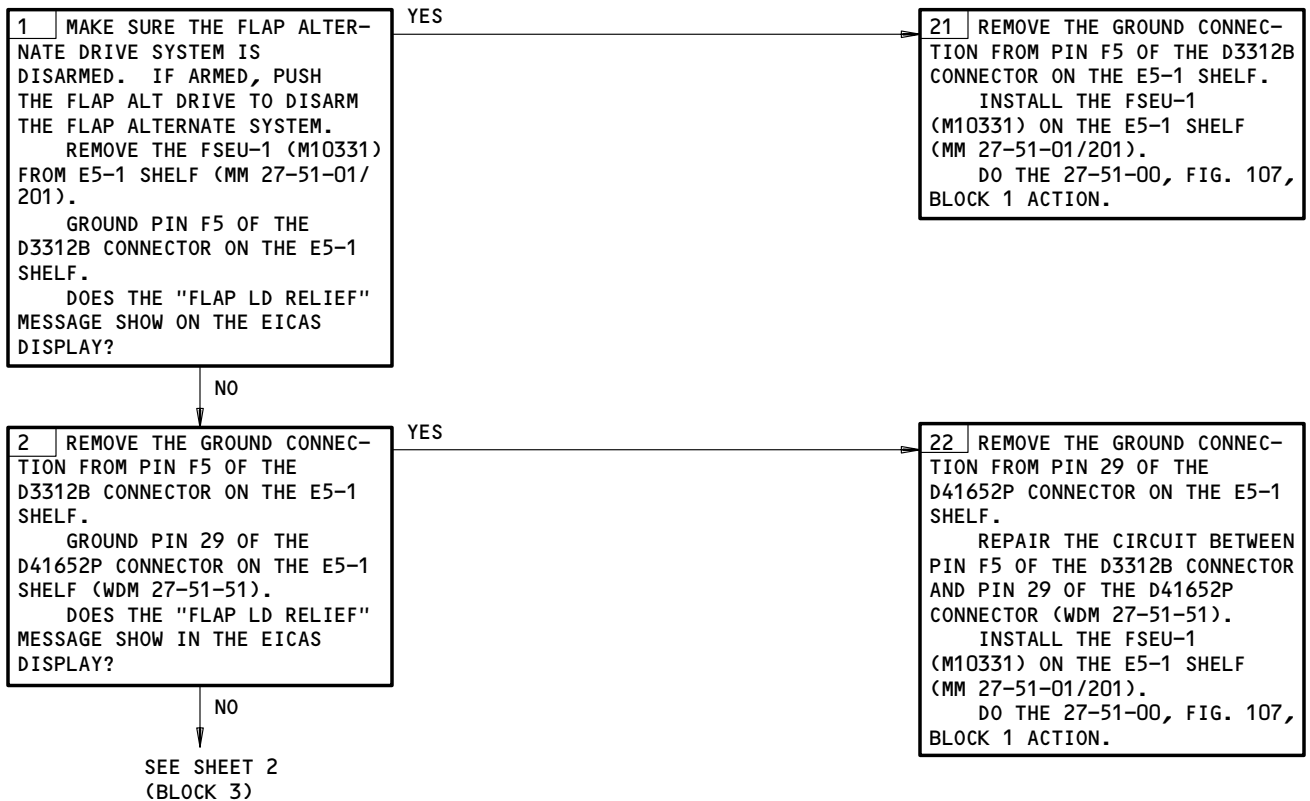
ELECTRICAL POWER (MM 24-22-00/201)  
HYDRAULIC POWER (MM 29-11-00/201)  
EICAS (MM 31-41-00/201)

CB'S: 11C14,11C15,11C16,11G12,11G13,11G14,11G21,  
11G22,11G23,11H12,11H13,11H14,11H24,11J18;  
11C17

FLAPS SET TO 30  
DETENT. FLAPS DO  
NOT RETRACT TO POS  
25 WITH A/S MORE  
THAN 170K



**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZERS ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.



- 1 EBL-EBR
- 2 EBS-999

Flaps Set to 30 Detent. Flaps do not Retract to Pos 25 with A/S more than 170K  
Figure 116 (Sheet 1)

EFFECTIVITY

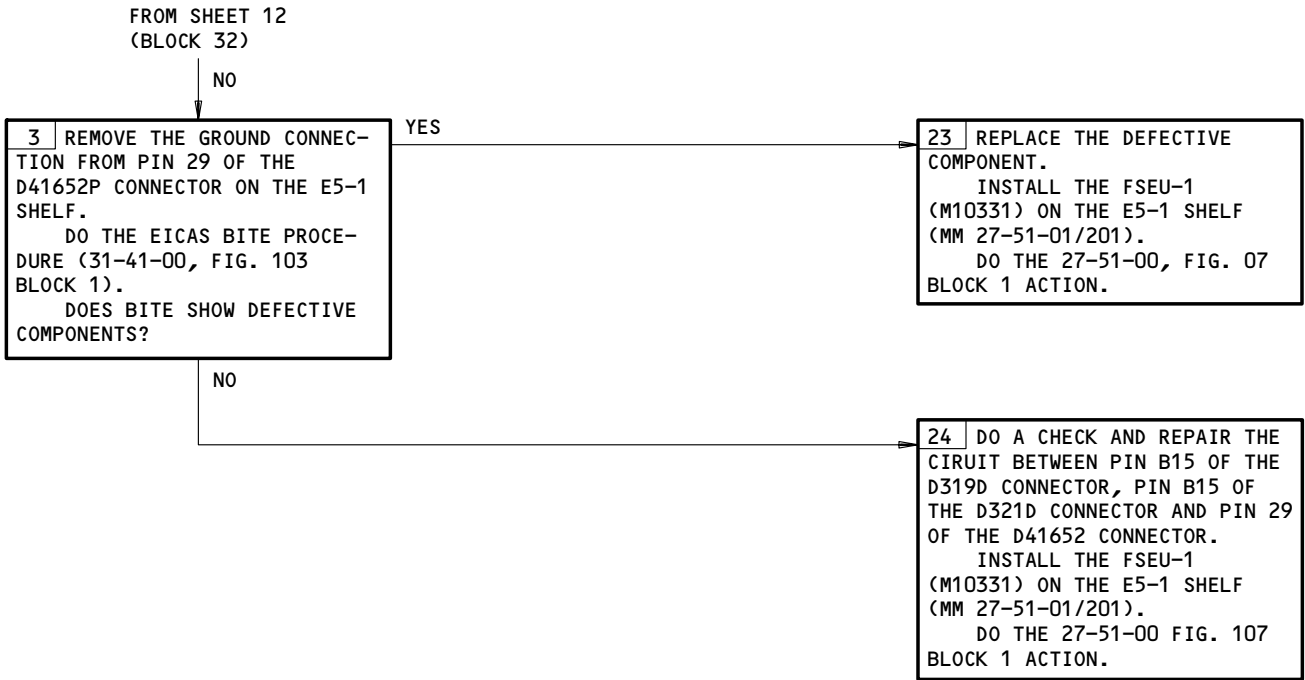
ALL

**27-51-00**

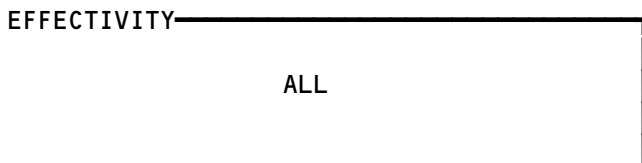
04

Page 145  
Sep 20/98

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Flaps Set to 30 Detent. Flaps do not Retract to Pos 25  
with A/S More Than 170K  
Figure 116 (Sheet 2)



27-51-00

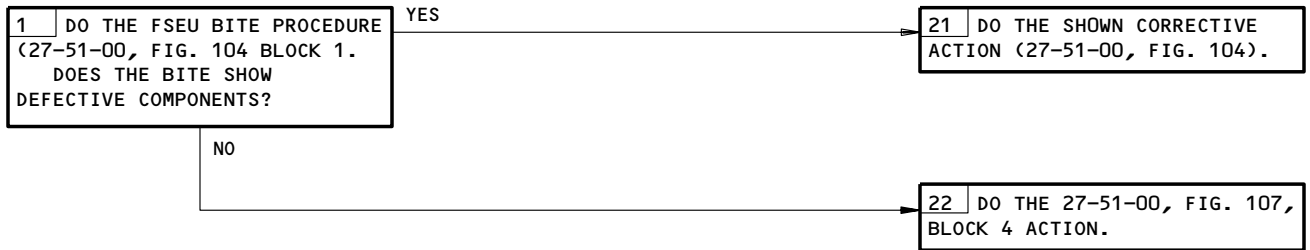
**PREREQUISITES**

ELECTRICAL POWER (MM 24-22-00/201)  
MAIN LANDING GEAR DOOR LOCKS INSTALLED  
(MM-32-00-15/201).  
EICAS (MM 31-41-00/201)

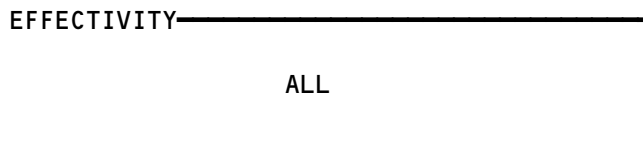
CB'S: 11C14,11C15,11C16,11G12,11G13,11G14,11G21,  
11G22,11G23,11H12,11H13,11H23,11H24,11J18

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZERS ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

FLAPS RETRACT AT THE WRONG AIRSPEED OR FLAPS EXTEND AT THE WRONG AIRSPEED

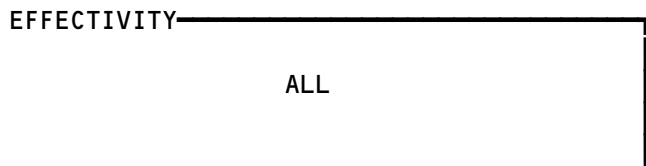


Flaps Retract at the Wrong Airspeed or  
Flaps Extend at the Wrong Airspeed  
Figure 117



**27-51-00**

Not Used  
Figure 118



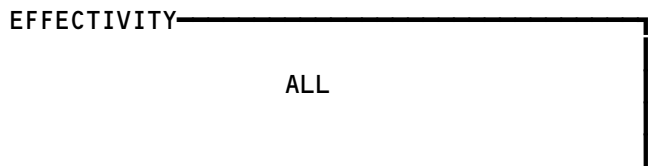
**27-51-00**

04

Page 148  
Jan 20/99

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Not Used  
Figure 119



27-51-00

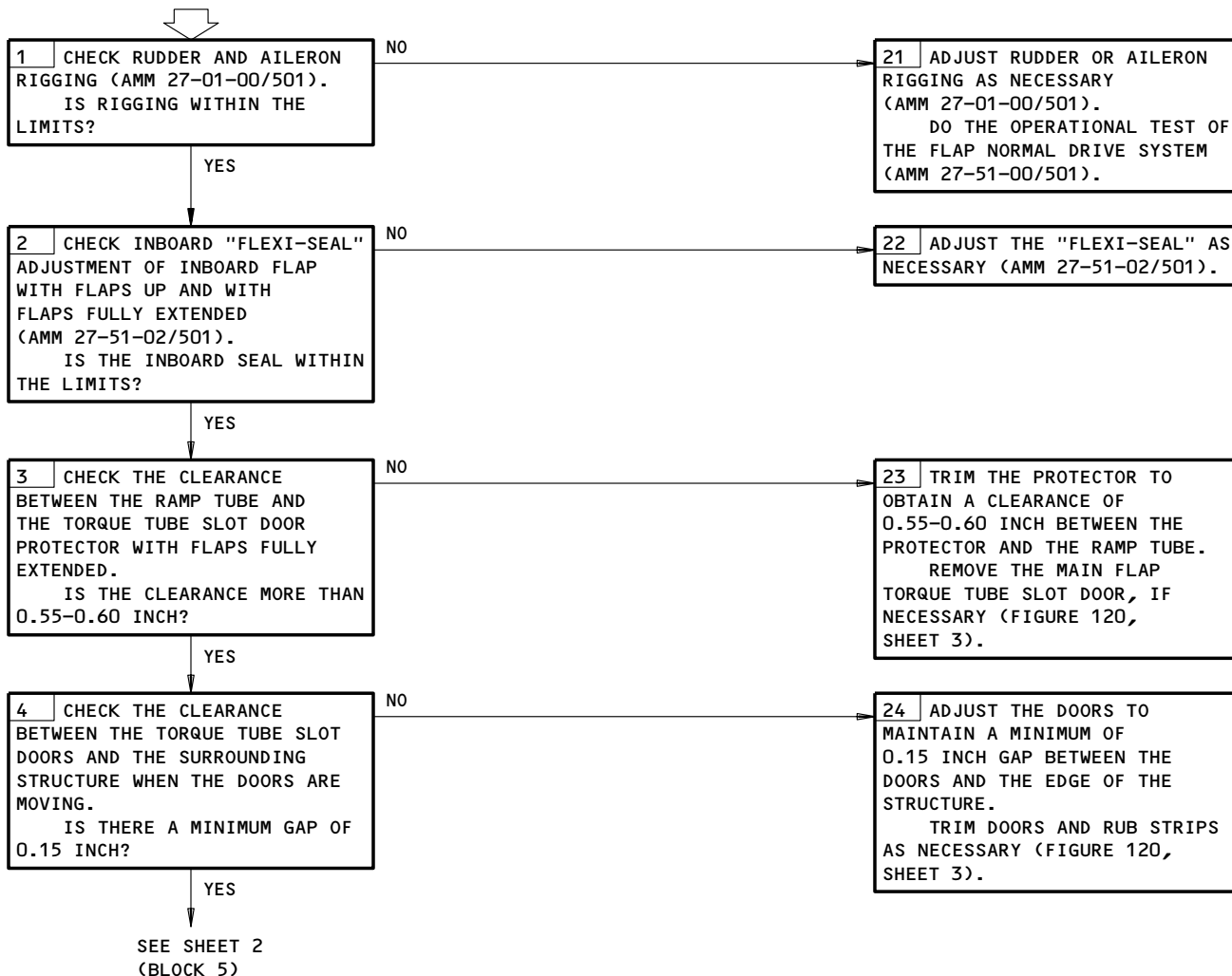


**PREREQUISITES**

MAIN LANDING GEAR DOOR LOCKS INSTALLED  
(AMM 32-00-15/201)

**WARNING:** TO PREVENT INJURY OR DAMAGE, CLEAR PERSONNEL AND EQUIPMENT FROM CONTROL SURFACES BEFORE PROVIDING HYDRAULIC POWER. KEEP AREA CLEAR WHEN PERFORMING FAULT ISOLATION. CHECK THAT FAN DUCT COWLING WILL NOT BE IN PATH OF LEADING EDGE SLATS.

**AIRPLANE ROLLS WHEN FLAP POSITION 25 OR GREATER IS SELECTED**

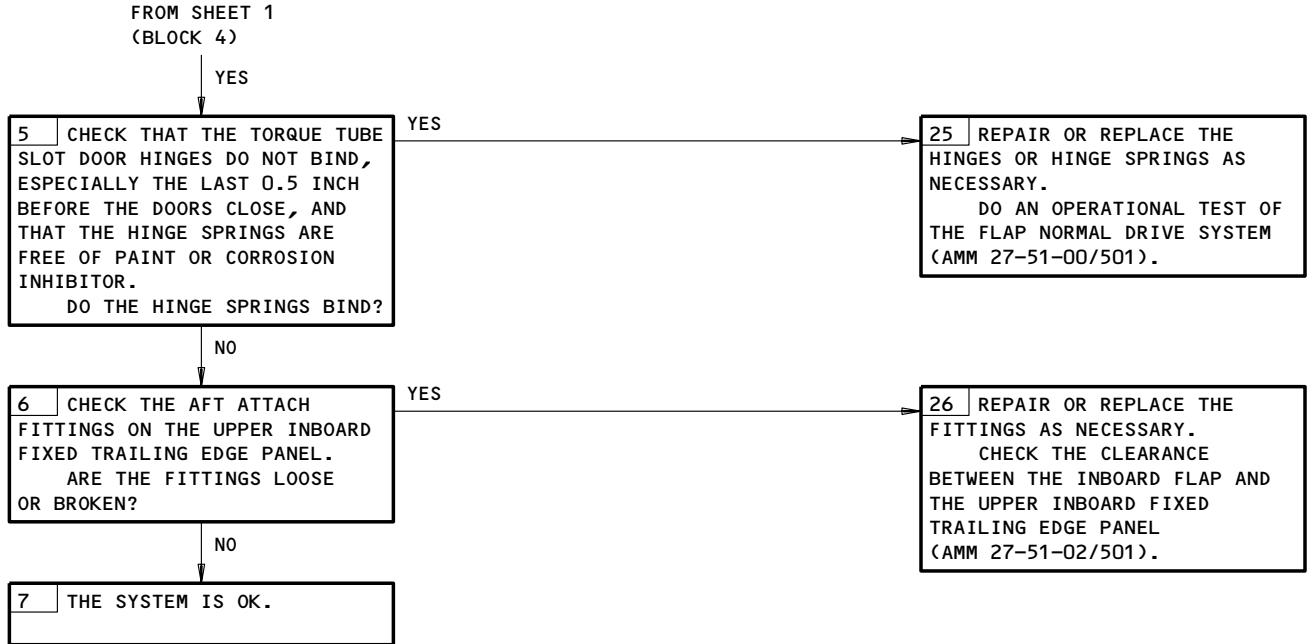


Airplane Rolls When Flap Position 25 or Greater is Selected  
Figure 120 (Sheet 1)

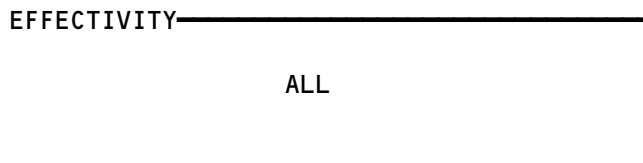
EFFECTIVITY

ALL

**27-51-00**



Airplane Rolls When Flap Position 25 or Greater is Selected  
Figure 120 (Sheet 2)

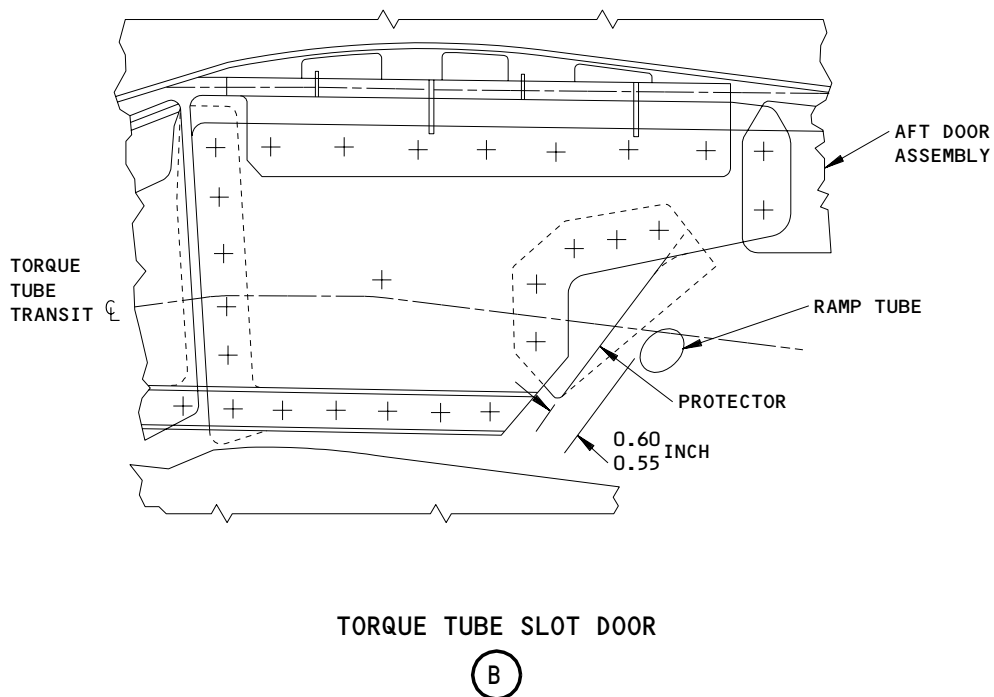
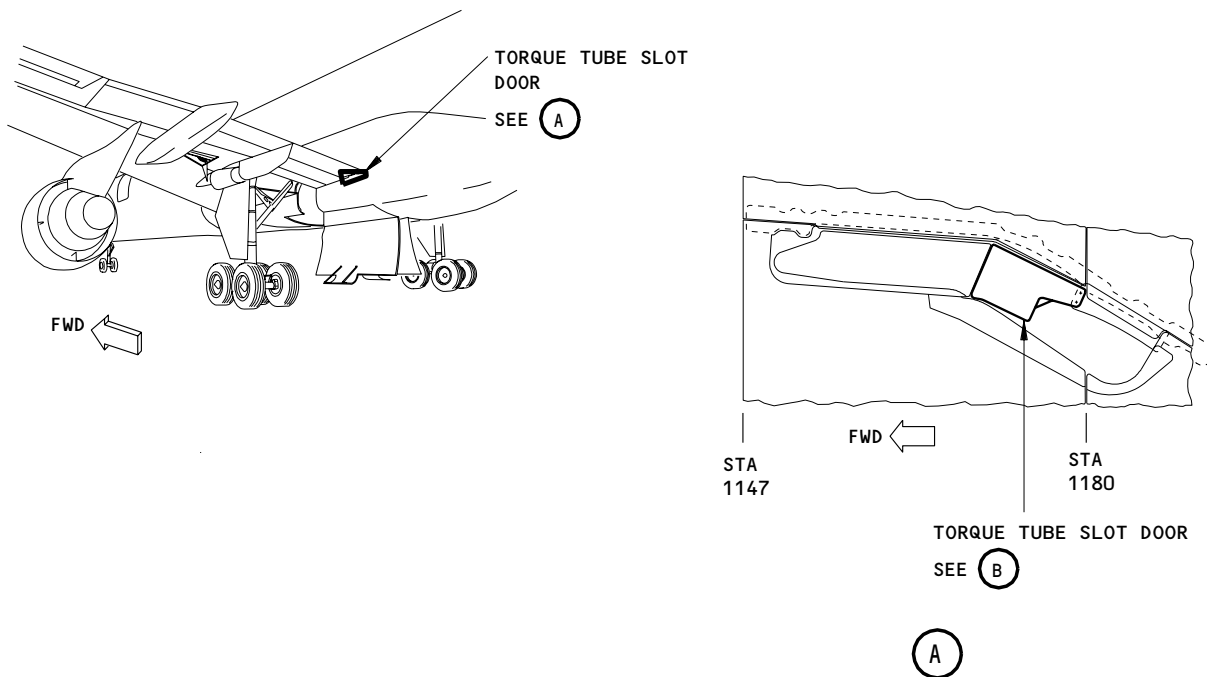


27-51-00

05

Page 151  
Jan 28/02

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Airplane Rolls When Flap Position 25 or Greater is Selected  
Figure 120 (Sheet 3)

EFFECTIVITY	ALL
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27-51-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FSEU ID NOT DEFINED								
OCTAL LABELS CHART								
SIGNAL	TYPE	LABEL	FORMAT	MIN UPDATE RATE	SDI	BINARY RANGE	POSITIVE SENSE	UNITS
FLAP POSITION-L	A	377	BNR	10		±360	ALWAYS POS	DEG'S
FLAP POSITION-L	A	377	BNR	10		±360	ALWAYS POS	DEG'S
FLAP POSITION-L	A	377	BNR	10		±360	ALWAYS POS	DEG'S
FLAP POSITION-R	A	377	BNR	10		±360	ALWAYS POS	DEG'S
FLAP POSITION-R	A	377	BNR	10		±360	ALWAYS POS	DEG'S
FLAP POSITION-R	A	377	BNR	10		±360	ALWAYS POS	DEG'S
SLAT POSITION-L	A	377	BNR	10		±360	ALWAYS POS	DEG'S
SLAT POSITION-L	A	377	BNR	10		±360	ALWAYS POS	DEG'S
SLAT POSITION-L	A	377	BNR	10		±360	ALWAYS POS	DEG'S
SLAT POSITION-R	A	377	BNR	10		±360	ALWAYS POS	DEG'S
SLAT POSITION-R	A	377	BNR	10		±360	ALWAYS POS	DEG'S
SLAT POSITION-R	A	377	BNR	10		±360	ALWAYS POS	DEG'S

EFFECTIVITY

ALL

**27-51-00**

05

Page 153  
Jan 20/99



757  
 FAULT ISOLATION/MAINT MANUAL

SPOILER/SPEEDBRAKE CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR (PCA) - SPOILER POWER CONTROL	2	12	WING REAR SPAR OR MAIN LG BEAM	27-61-02
SPOILER 1 PCA, M306				
SPOILER 2 PCA, M307				
SPOILER 3 PCA, M308				
SPOILER 4 PCA, M309				
SPOILER 5 PCA, M310				
SPOILER 6 PCA, M311				
SPOILER 7 PCA, M312				
SPOILER 8 PCA, M313				
SPOILER 9 PCA, M314				
SPOILER 10 PCA, M315				
SPOILER 11 PCA, M316				
SPOILER 12 PCA, M317				
CIRCUIT BREAKER -	1		FLT COMPT, OVERHEAD PANEL, P11	
CSEU 1L AC, C1538 OR		1	11C6	*
FLT CONT ELEC 1L AC, C1538				
CSEU 1L DC, C1534 OR		1	11C7	*
FLT CONT ELEC 1L DC, C1534				
CSEU 1R AC, C1536 OR		1	11G17	*
FLT CONT ELEC 1R AC, C1536				
CSEU 1R DC, C1531 OR		1	11G18	*
FLT CONT ELEC 1R DC, C1531				
CSEU 2L AC, C1537 OR		1	11C8	*
FLT CONT ELEC 2L AC, C1537				
CSEU 2L DC, C1533 OR		1	11C9	*
FLT CONT ELEC 2L DC, C1533				
CSEU 2R AC, C1535 OR		1	11G27	*
FLT CONT ELEC 2R AC, C1535				
CSEU 2R DC, C1532 OR		1	11G28	*
FLT CONT ELEC 2R DC, C1532				
COMPUTER - (FIM 31-41-00/101)				
L EICAS, M10181				
R EICAS, M10182				
LIGHT - SPOILERS, L14	1	1	FLT COMPT, OVERHEAD PANEL, P5 AUX ANNUN PANEL, M10394	*
MODULE - (FIM 27-09-00/101)				
POWER SUPPLY 1L (PSM 1L), M536				
POWER SUPPLY 1R (PSM 1R), M538				
POWER SUPPLY 2L (PSM 2L), M537				
POWER SUPPLY 2R (PSM 2R), M532				
SPOILER CONTROL 1L (SCM 1L), M530	3	1		
SPOILER CONTROL 1R (SCM 1R), M533	3	1		
SPOILER CONTROL 2L (SCM 2L), M531	3	1		
SPOILER CONTROL 2R (SCM 2R), M534	3	1		
SPOILER CONTROL 3L (SCM 3L), M532	3	1		
SPOILER CONTROL 3R (SCM 3R), M535	3	1		
PANEL - (FIM 30-31-00/101)				
AUXILIARY ANNUNCIATOR, M10394				

\* SEE THE WDM EQUIPMENT LIST

Spoiler/Speedbrake Control System - Component Index  
 Figure 101 (Sheet 1)

EFFECTIVITY

ALL

27-61-00

03

Page 101  
 Sep 20/97

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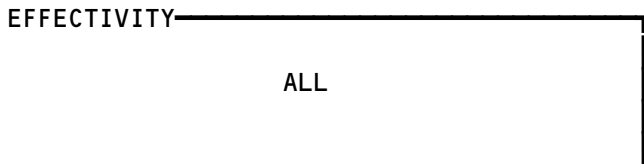
757  
 FAULT ISOLATION/MAINT MANUAL

SPOILER/SPEEDBRAKE CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SCREEN - SPOILER PCA FILTER	2	12	SPOILER PCA	27-61-02
SPOILER - INBOARD, 554,553,653,654	2	4	WING TRAILING EDGE	27-61-01
SPOILER - OUTBOARD, 565,564,563,562,662,663,664,665	2	8	WING TRAILING EDGE	27-61-01
SWITCH - CENTER HYDRAULIC SYSTEM PRESSURE, S10002 (REF 29-11-00, FIG. 101)				
UNIT - CAPTAIN'S CONTROL WHEEL SPOILER TRANSDUCER (RVDT), TS5081	1	1	113AL, FWD EQUIP COMPT, AILERON CONTROL DRUM ASSEMBLY	27-61-04
UNIT - FIRST OFFICER'S CONTROL WHEEL SPOILER TRANSDUCER (RVDT), TS5082	1	1	113AL, FWD EQUIP COMPT, AILERON CONTROL DRUM ASSEMBLY	27-61-04
VALVE (EHSV) - SPOILER PCA ELECTROHYDRAULIC SERVO	2	12	SPOILER PCA	27-61-02

\* SEE THE WDM EQUIPMENT LIST

Spoiler/Speedbrake Control System - Component Index  
 Figure 101 (Sheet 2)



27-61-00

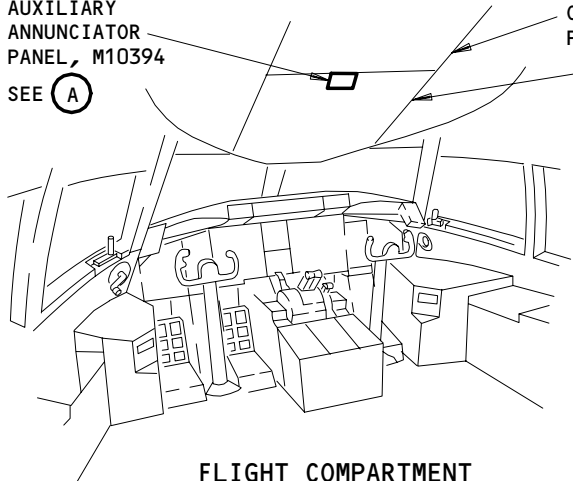
# BOEING

## 757

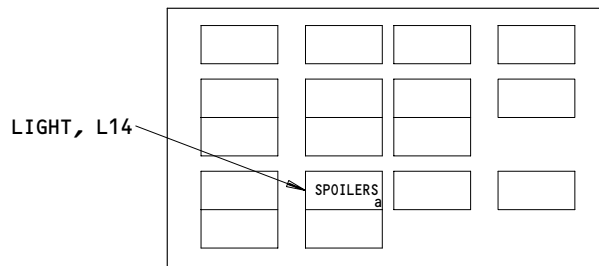
### FAULT ISOLATION/MAINT MANUAL

AUXILIARY ANNUNCIATOR PANEL, M10394  
SEE (A)

OVERHEAD PANEL, P11  
OVERHEAD PANEL, P5

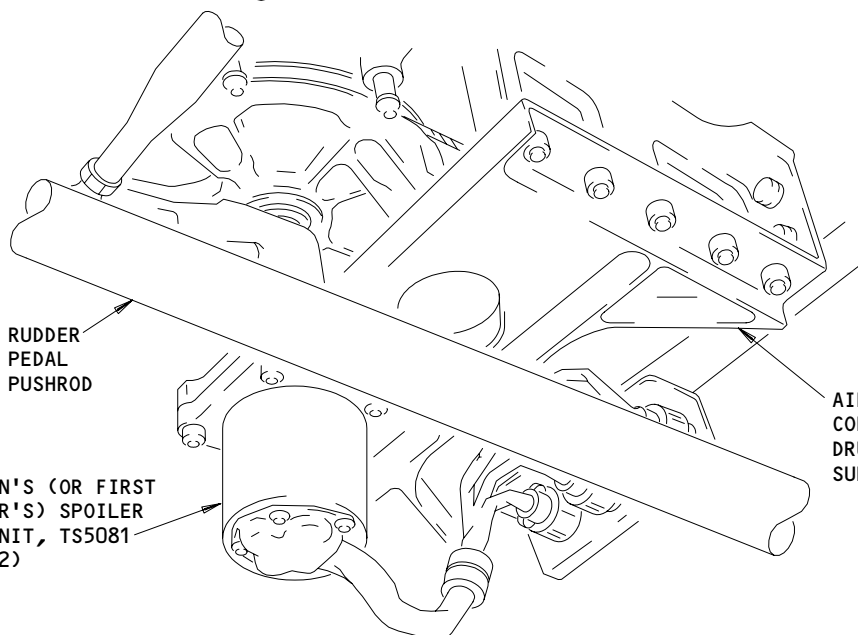
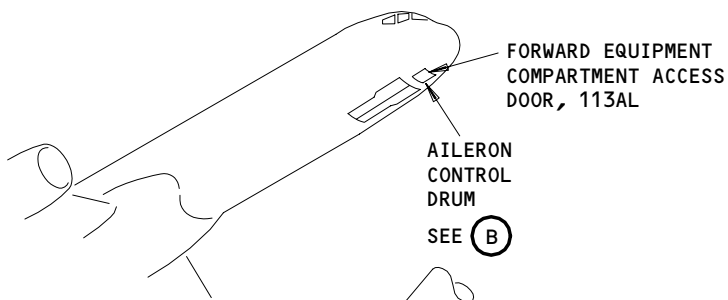


FLIGHT COMPARTMENT



AUXILIARY ANNUNCIATOR PANEL, M10394

(A)



AILERON CONTROL DRUM

(B)

Spoiler/Speedbrake Control System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	ALL
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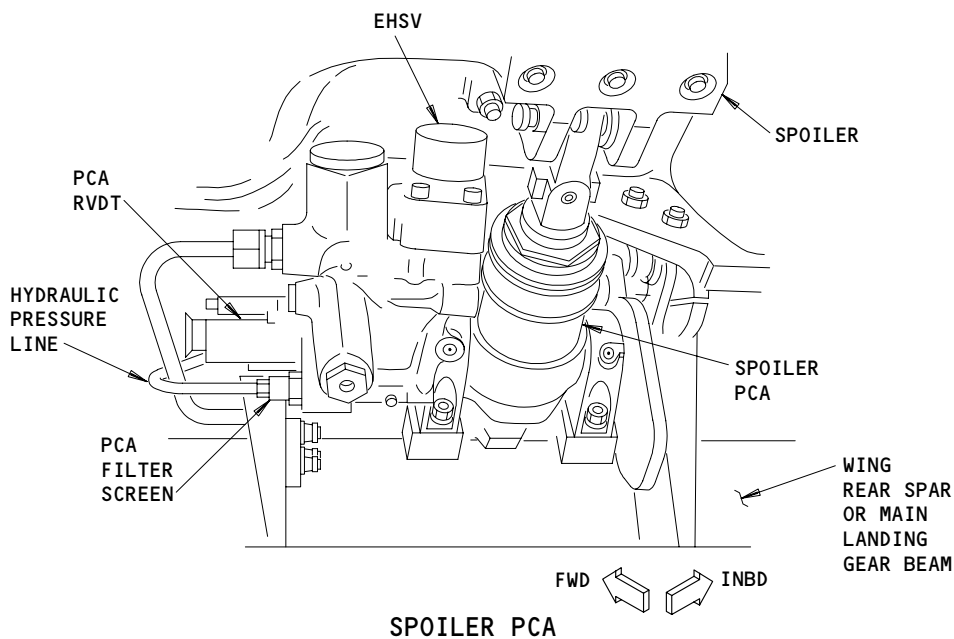
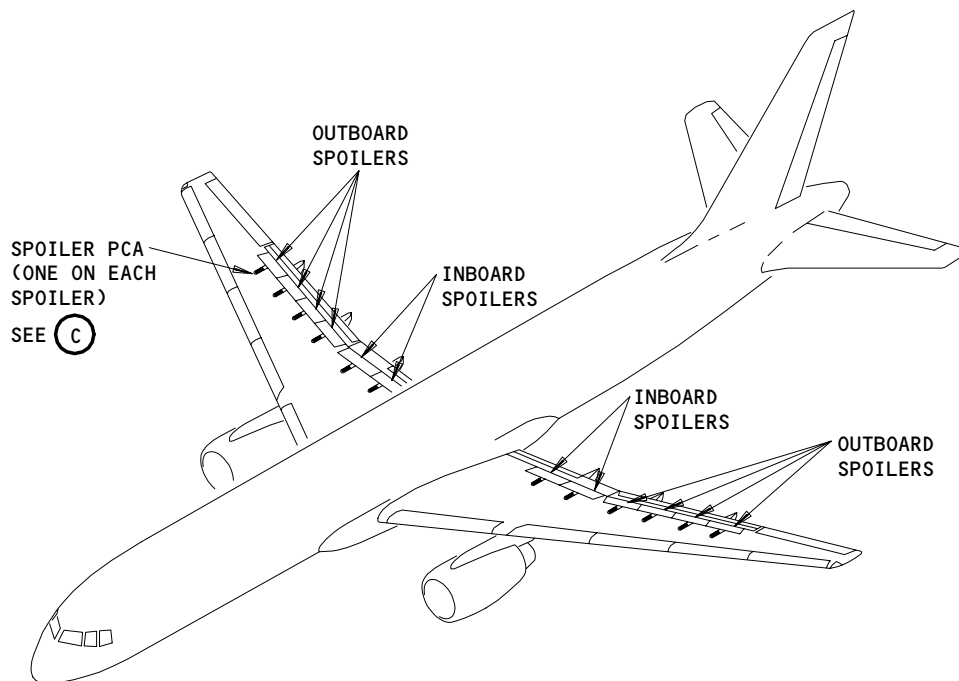
105842

## 27-61-00

01

Page 103  
Dec 20/90

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



(C)

**NOTE:** THE SPOILERS ARE NUMBERED 1 THRU 12 FROM THE OUTBOARD LEFT WING SPOILER TO THE OUTBOARD RIGHT WING SPOILER.

Spoiler/Speedbrake Control System – Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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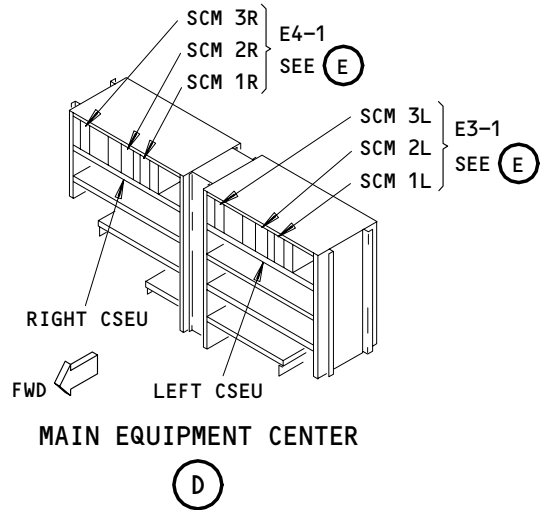
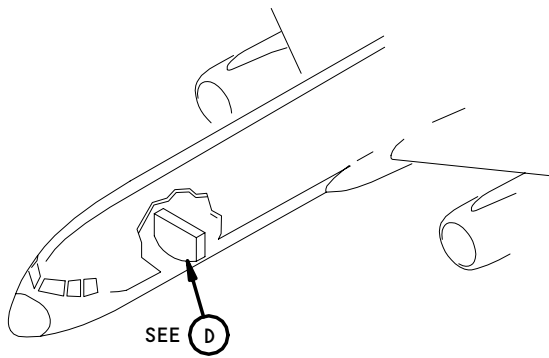
**27-61-00**

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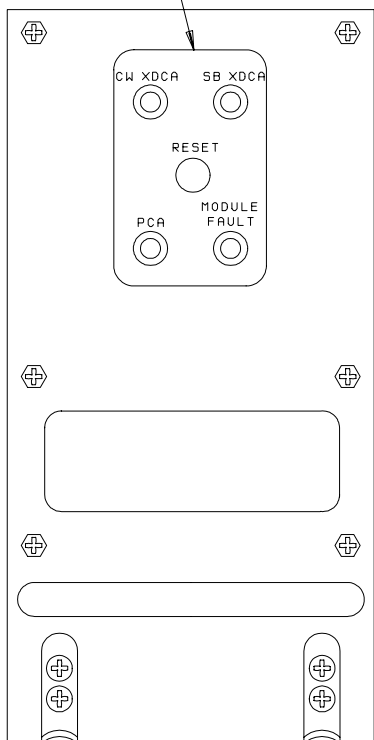
Page 104  
Dec 20/90

105841



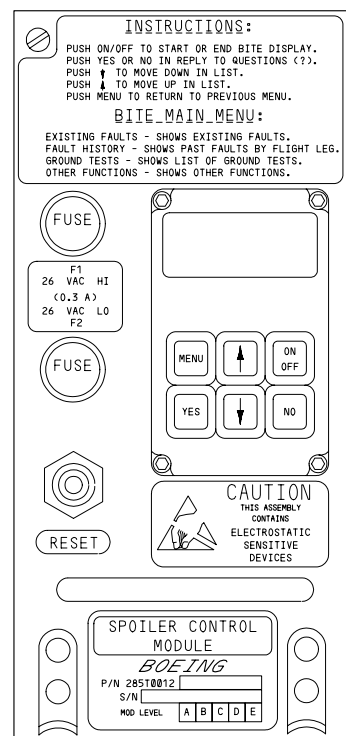


FAULT BALLS  
(4 LOCATIONS)



SPOILER CONTROL MODULE

**E** 1



SPOILER CONTROL MODULE

**E** 2

- 1 -100 SERIES SCMs
- 2 -200 SERIES SCMs

Spoiler/Speedbreak Control System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY

ALL

**27-61-00**

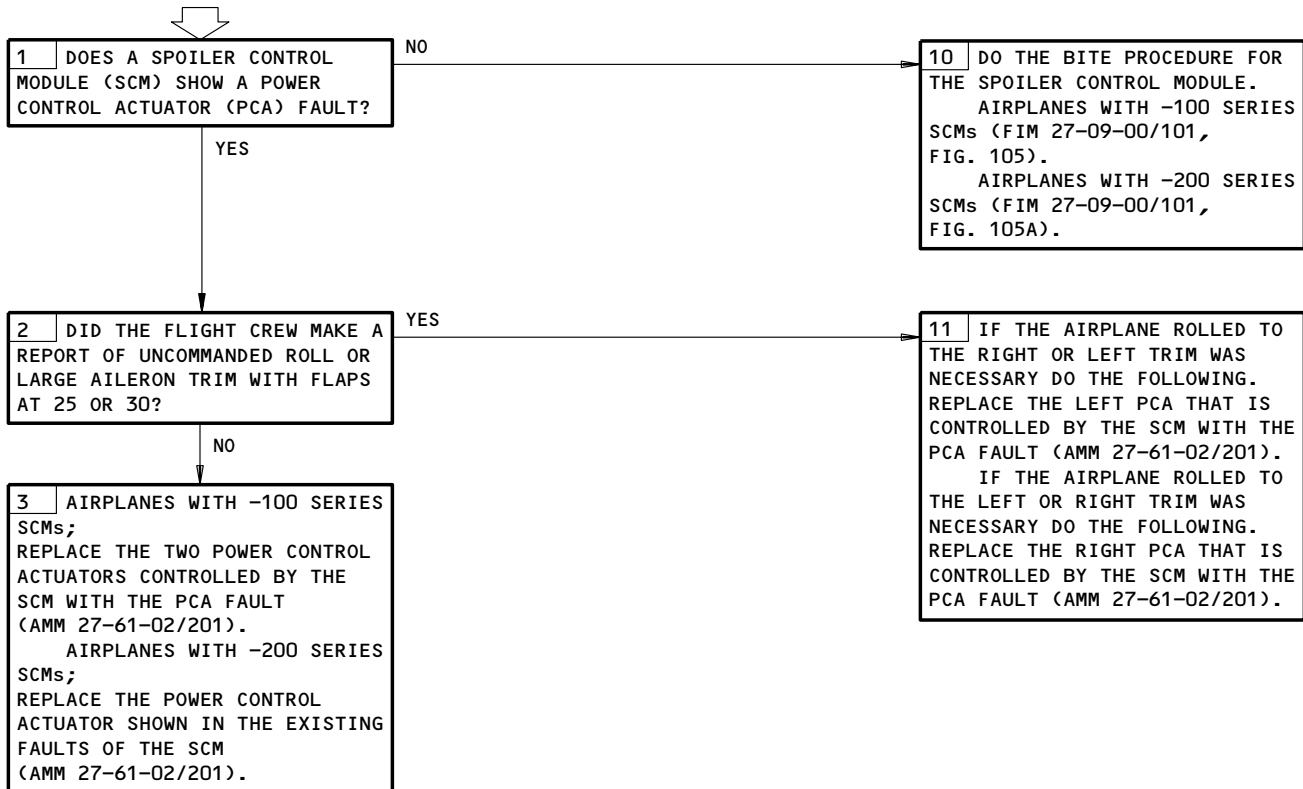
**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 11C6, 11C7, 11C8, 11C9, 11G17, 11G18, 11G27, 11G28  
 MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
 ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
 HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** MAKE SURE YOU HOLD THE SPEEDBRAKE LEVER INPUTS FOR AT LEAST 20 SECONDS. THIS WILL LET THE SPOILER CONTROL SYSTEM FIND ALL THE APPLICABLE SYSTEM FAILURES.

**"SPOILER" CAUTION LIGHT OR "SPOILER" EICAS MESSAGE SHOWED**



SPOILER Caution Light or SPOILER EICAS Message Showed  
Figure 103

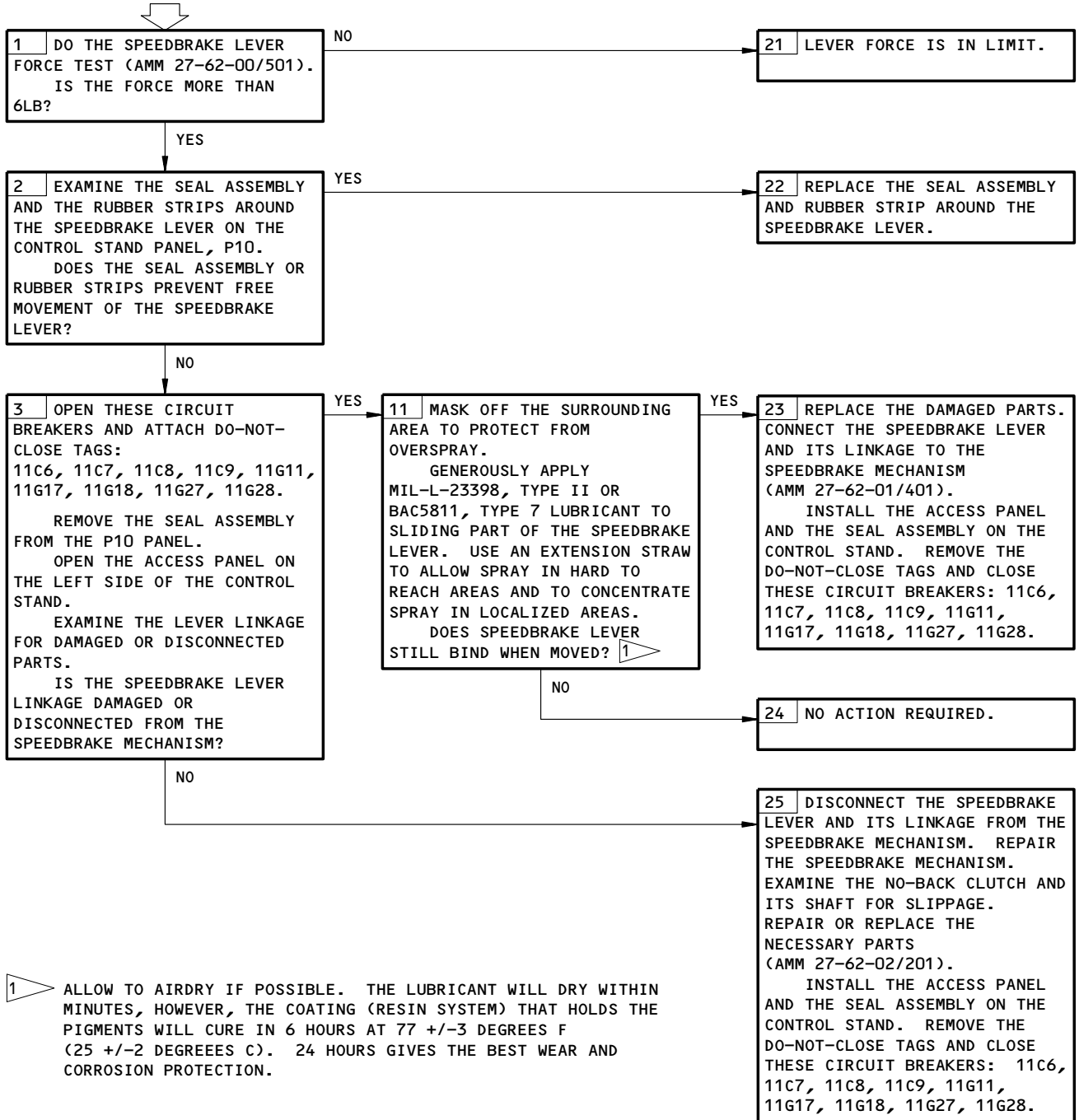
EFFECTIVITY	ALL
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**27-61-00**

PREREQUISITES

NONE

**SPEEDBRAKE LEVER IS BINDING**



1 ALLOW TO AIRDRY IF POSSIBLE. THE LUBRICANT WILL DRY WITHIN MINUTES, HOWEVER, THE COATING (RESIN SYSTEM) THAT HOLDS THE PIGMENTS WILL CURE IN 6 HOURS AT 77 +/-3 DEGREES F (25 +/-2 DEGREEES C). 24 HOURS GIVES THE BEST WEAR AND CORROSION PROTECTION.

Speedbrake Lever is Binding  
Figure 104

EFFECTIVITY

ALL

27-61-00

01

Page 107  
Sep 28/07

**PREREQUISITES**

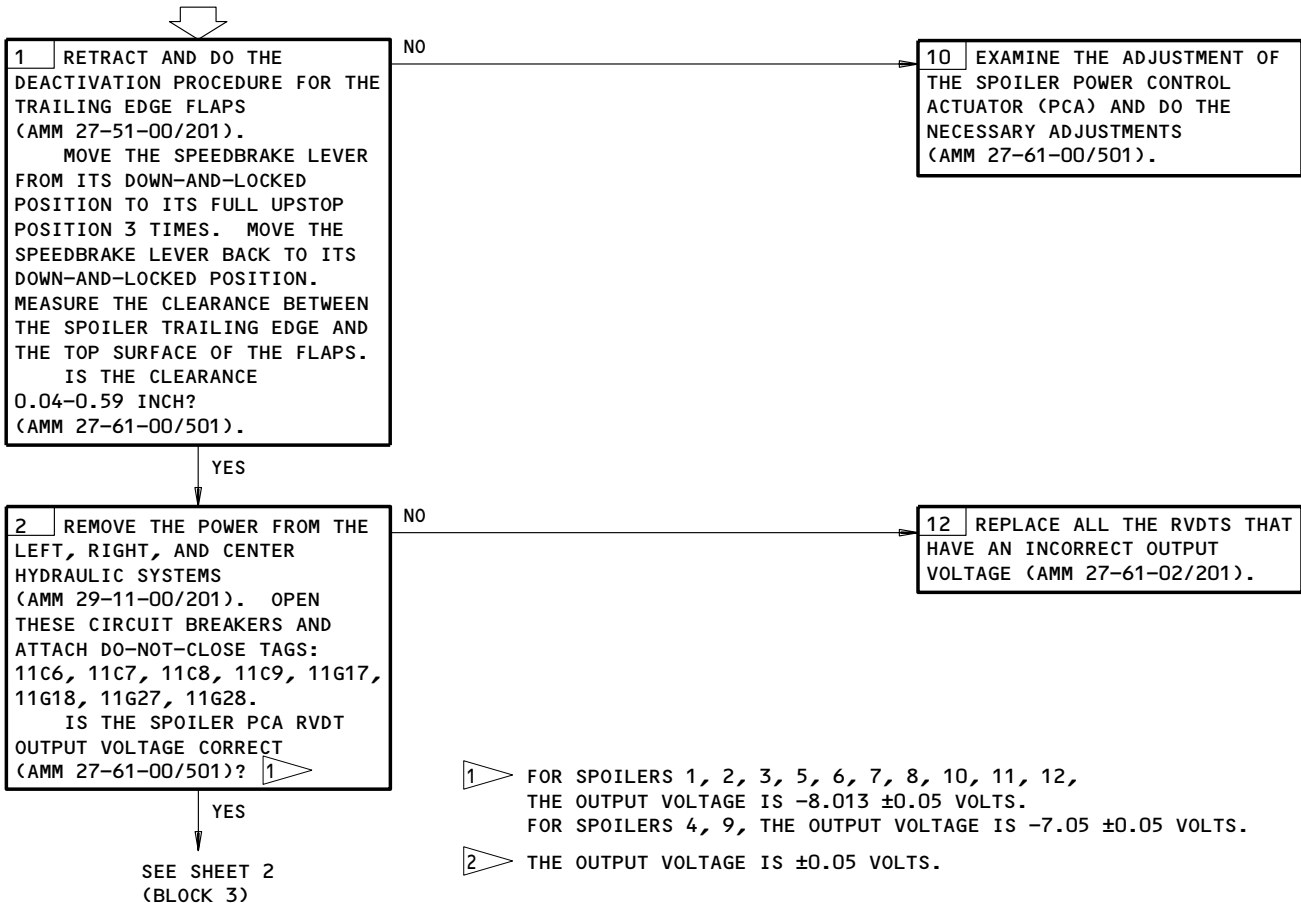
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C6, 11C7, 11C8, 11C9, 11G17, 11G18, 11G27, 11G28

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** MAKE SURE YOU HOLD THE SPEEDBRAKE LEVER INPUTS FOR AT LEAST 20 SECONDS. THIS WILL LET THE SPOILER CONTROL SYSTEM FIND ALL THE APPLICABLE SYSTEM FAILURES.

**SPOILER(S) FLOAT WITH NO "SPOILER" CAUTION LIGHT OR "SPOILER" EICAS MESSAGE**



Spoiler(s) Float With No SPOILER Caution Light or SPOILER EICAS Message  
Figure 104A (Sheet 1)

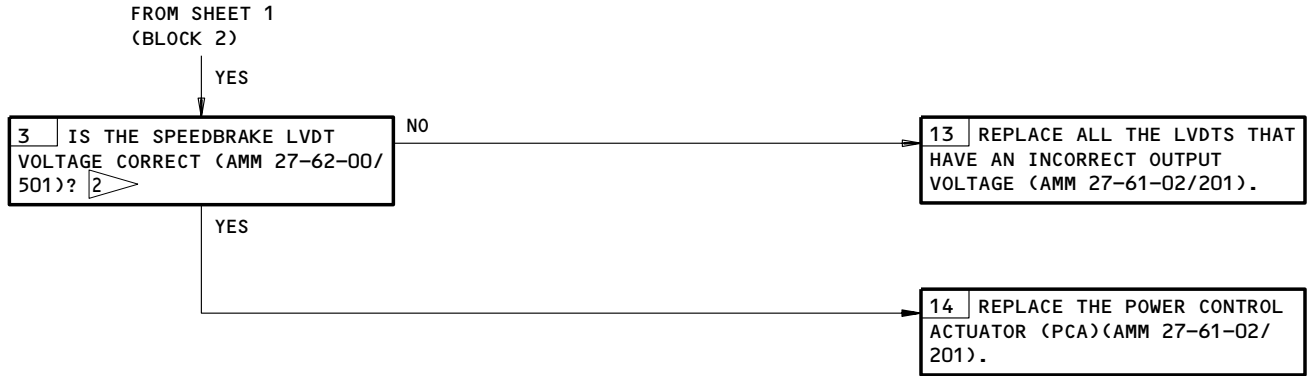
EFFECTIVITY

ALL

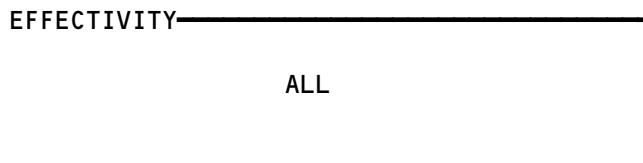
**27-61-00**

01

Page 108  
Sep 28/99



Spoiler(s) Float With No SPOILER Caution Light or SPOILER EICAS Message  
 Figure 104A (Sheet 2)



27-61-00



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Page 109  
Sep 20/97


G74696

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

AUTO-SPEEDBRAKE CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ASSEMBLY - (FIM 22-32-00/101) AUTOTHROTTLE MICROSWITCH PACK, M966 ACTUATOR - AUTO-SPEEDBRAKE, M577	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
CIRCUIT BREAKER - AUTO SPEED BRAKE, C1023	1	1	FLT COMPT, P11 11G11	*
CLUTCH - AUTO SPEEDBRAKE NO-BACK COMPUTER - (FIM 31-41-00/101) L EICAS, M10181 R EICAS, M10182	2	1	FLT COMPT, CONTROL STAND P10	27-62-02
DELAY - (FIM 31-01-36/101) AUTO-SPEEDBRAKE TIME, M963				*
DIODE - (FIM 31-01-37/101) AUTO-SPEEDBRAKE LIGHT ISOL, R10213 				*
LEVER - SPEEDBRAKE LEVERS - (FIM 76-11-00/101) FORWARD THRUST REVERSE THRUST	1	1	FLT COMPT, CONTROL STAND P10	27-62-01
LIGHT - AUTO SPD BRK, L15 MECHANISM - SPEEDBRAKE	1	1	FLT COMPT, P5, AUX ANN M10394 FLT COMPT, CONTROL STAND P10	*
PANEL - (FIM 30-31-00/101) AUXILIARY ANNUNCIATOR, M10394				27-62-02
RELAY - (FIM 32-09-00/101) AIR/GND SYS 1, K167 AIR/GND SYS 2, K211				
RELAY - (FIM 31-01-36/101) AUTO-SPEEDBRAKE AIR/GND 1, K87 AUTO-SPEEDBRAKE AIR/GND 2, K88 AUTO-SPEEDBRAKE EXTEND, K217 AUTO-SPEEDBRAKE RETRACT, K218 AUTO-SPEEDBRAKE WARNING, K220				
RELAY - (FIM 31-01-37/101) LANDING GEAR TILT PRESSURE, K550				
RESISTOR - (FIM 31-01-37/101) AUTO-SPEEDBRAKE LIGHT ISOL, R10214 				

\* SEE THE WDM EQUIPMENT LIST

 IF INSTALLED (POST-SB 31-19)

Auto-Speedbrake Control System - Component Index  
Figure 101 (Sheet 1)

EFFECTIVITY

ALL

27-62-00

01

Page 101  
May 28/99

108803

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

AUTO-SPEEDBRAKE CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SWITCH - AUTO-SPEEDBRAKE ARMING, S371	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
SWITCH - LEFT SPEEDBRAKE RETRACT LEVER POSITION, S10	2	1	113AL, FWD EQUIP COMPT, AUTO- THROTTLE MICROSWITCH PACK ASSEMBLY M966	27-62-07
SWITCH - LEFT GEAR TILT PRESSURE, S452 (REF 32-30-00, FIG. 101)	1	1	FLT COMPT, CONTROL STAND P10	27-62-08
SWITCH - REVERSE THRUST LEVER POSITION, S374	2	1	113AL, FWD EQUIP COMPT, AUTO- THROTTLE MICROSWITCH PACK ASSEMBLY M966	27-62-07
SWITCH - RIGHT SPEEDBRAKE RETRACT LEVER POSITION, S14	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
SWITCH - RIGHT GEAR TILT PRESSURE, S453 (REF 32-30-00, FIG. 101)	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
SWITCH - SPEEDBRAKE LEVER POSITION, S493 (REF 31-51-00, FIG. 101)	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
TRANSDUCER (LVDT) - SPEEDBRAKE UNIT 1, TS35	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
TRANSDUCER (LVDT) - SPEEDBRAKE UNIT 2, TS36	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02
TRANSDUCER (LVDT) - SPEEDBRAKE UNIT 3, TS37	2	1	FLT COMPT, CONTROL STAND P10, SPEEDBRAKE MECHANISM	27-62-02

Auto-Speedbrake Control System - Component Index  
Figure 101 (Sheet 2)

EFFECTIVITY

ALL
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27-62-00

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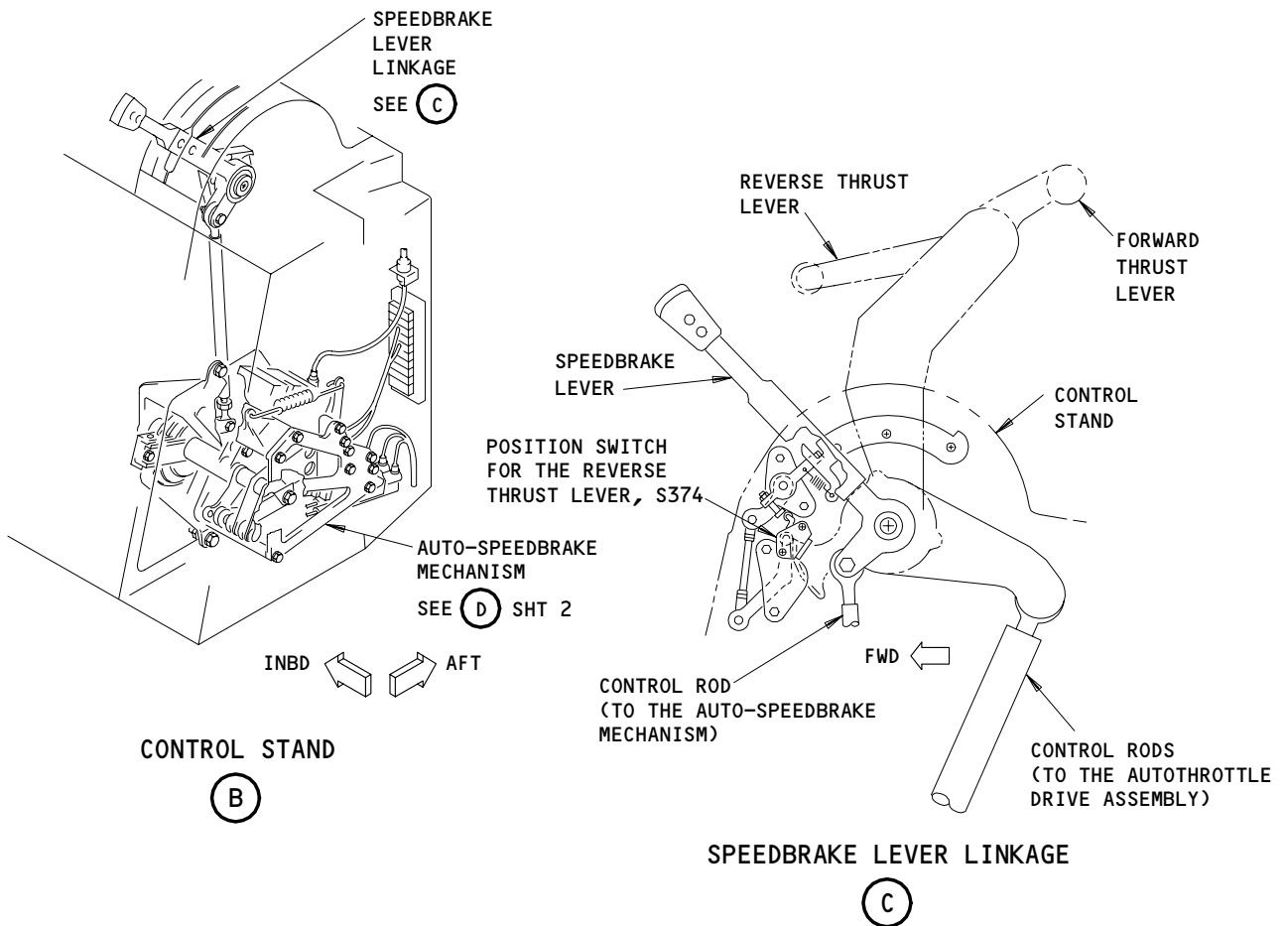
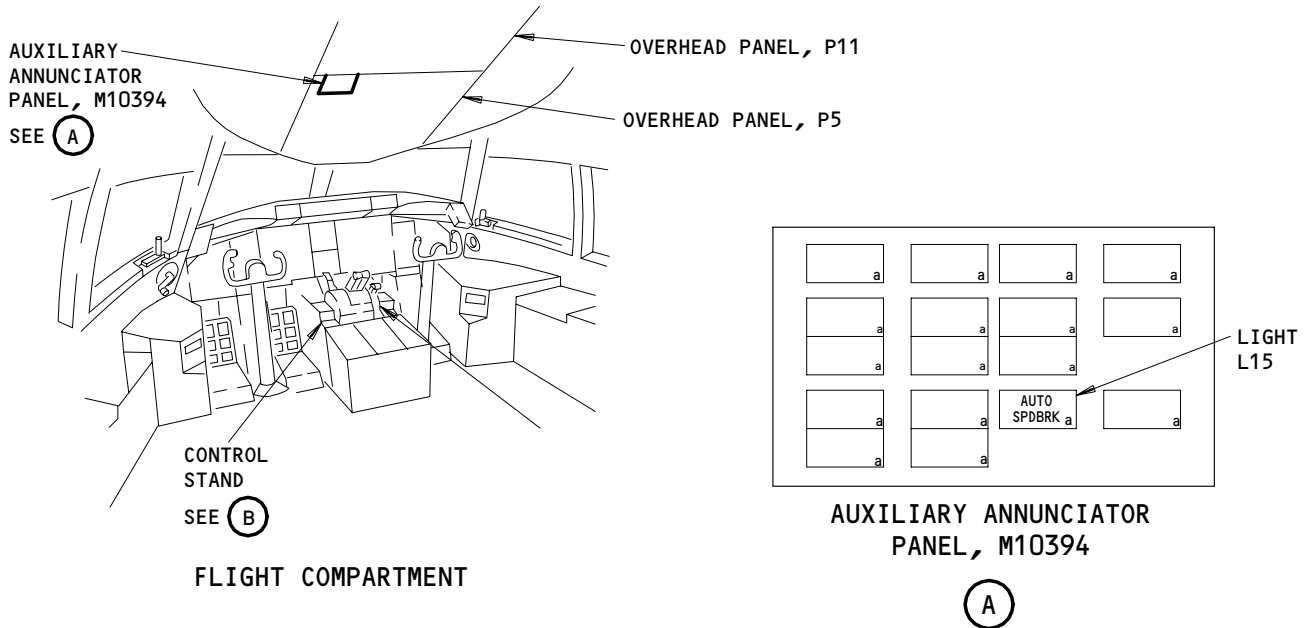
Page 102  
Jun 20/91

108805

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



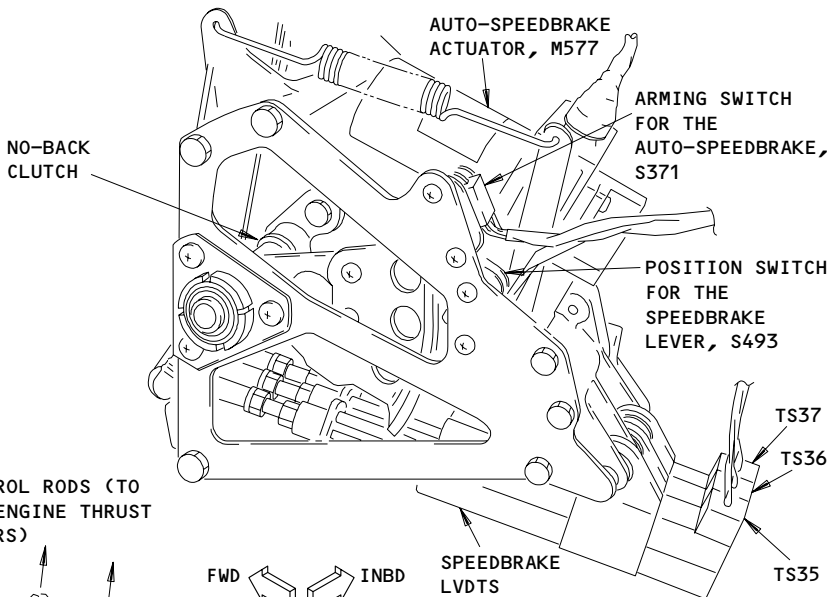
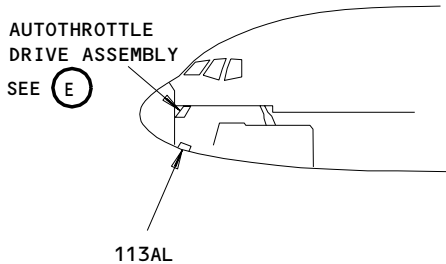
Auto-Speedbrake Control System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

27-62-00

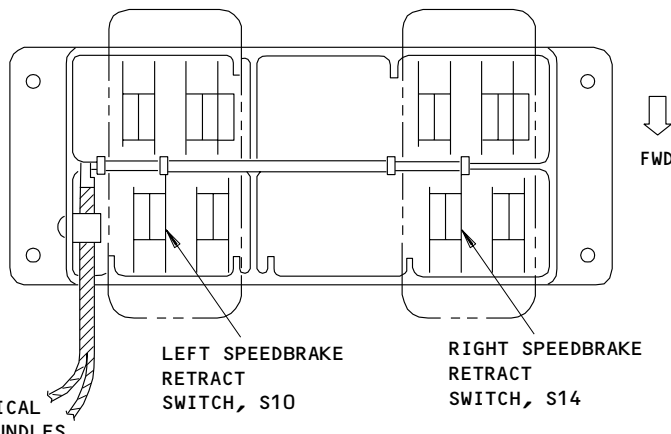
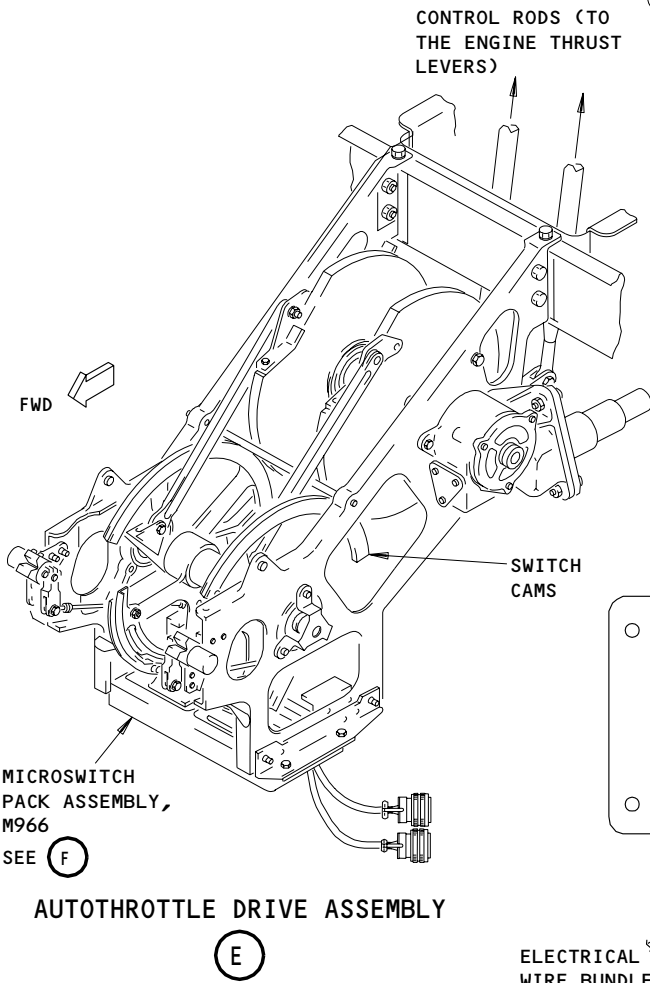


**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



**AUTO-SPEEDBRAKE MECHANISM**

(D) FROM SHT 1



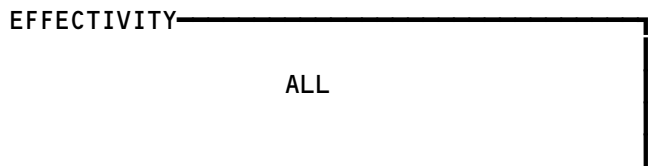
**MICROSWITCH PACK ASSEMBLY, M966  
(BOTTOM VIEW)**

**Auto-Speedbrake Control System - Component Location  
Figure 102 (Sheet 2)**

EFFECTIVITY	
ALL	

**27-62-00**

Not Used  
Figure 103



108806

**27-62-00**

01

Page 105  
Mar 20/96

**PREREQUISITES**

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:  
11G11

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** AFTER YOU MOVE THE SPEEDBRAKE LEVER, STOP FOR AT LEAST 20 SECONDS TO LET THE SYSTEM FIND AND SHOW ALL THE APPLICABLE FAULTS.

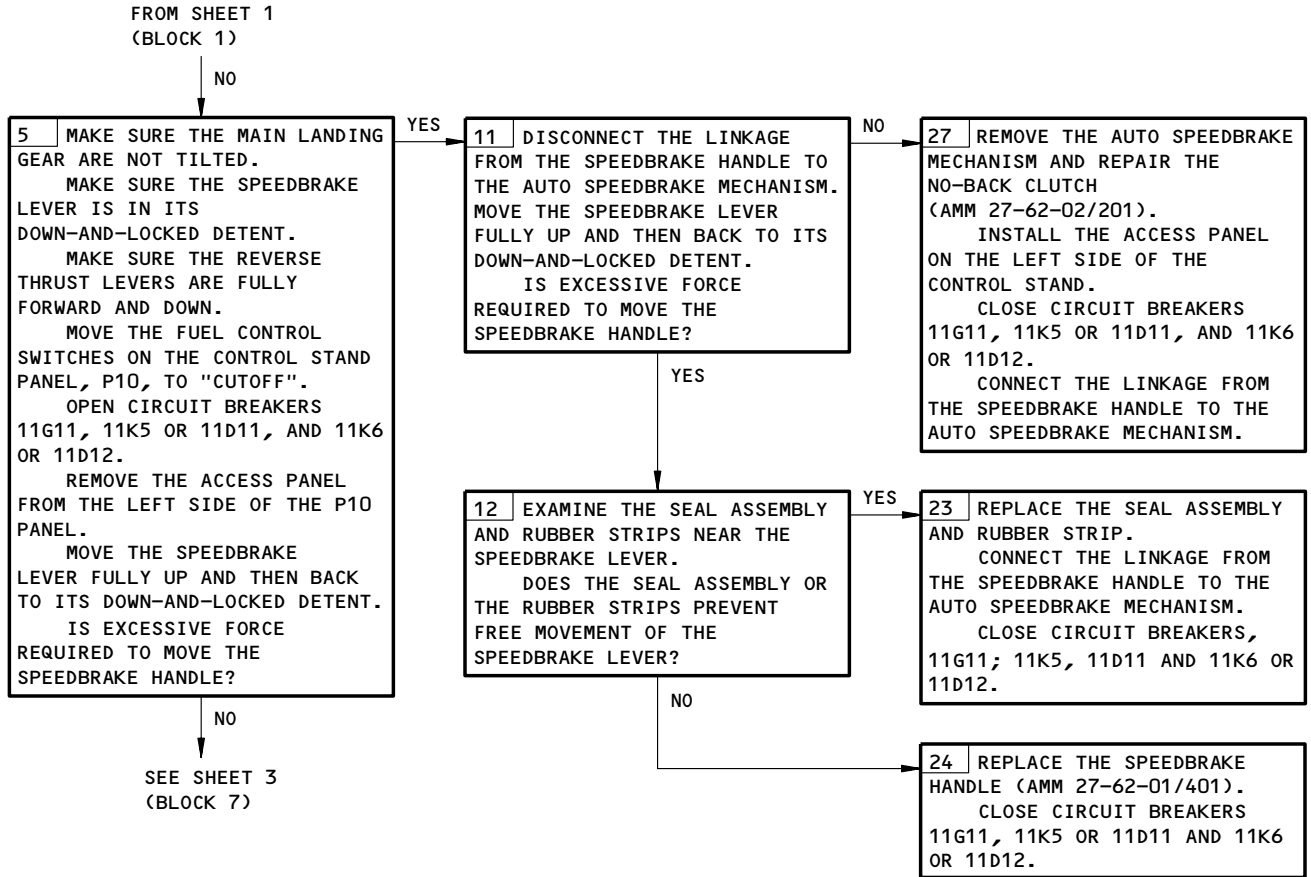
**SPEEDBRAKE LEVER  
FAILED TO EXTEND  
AUTOMATICALLY ON  
LANDING**



Speedbrake Lever Failed to Extend Automatically on Landing  
Figure 104 (Sheet 1)

EFFECTIVITY	ALL
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**27-62-00**

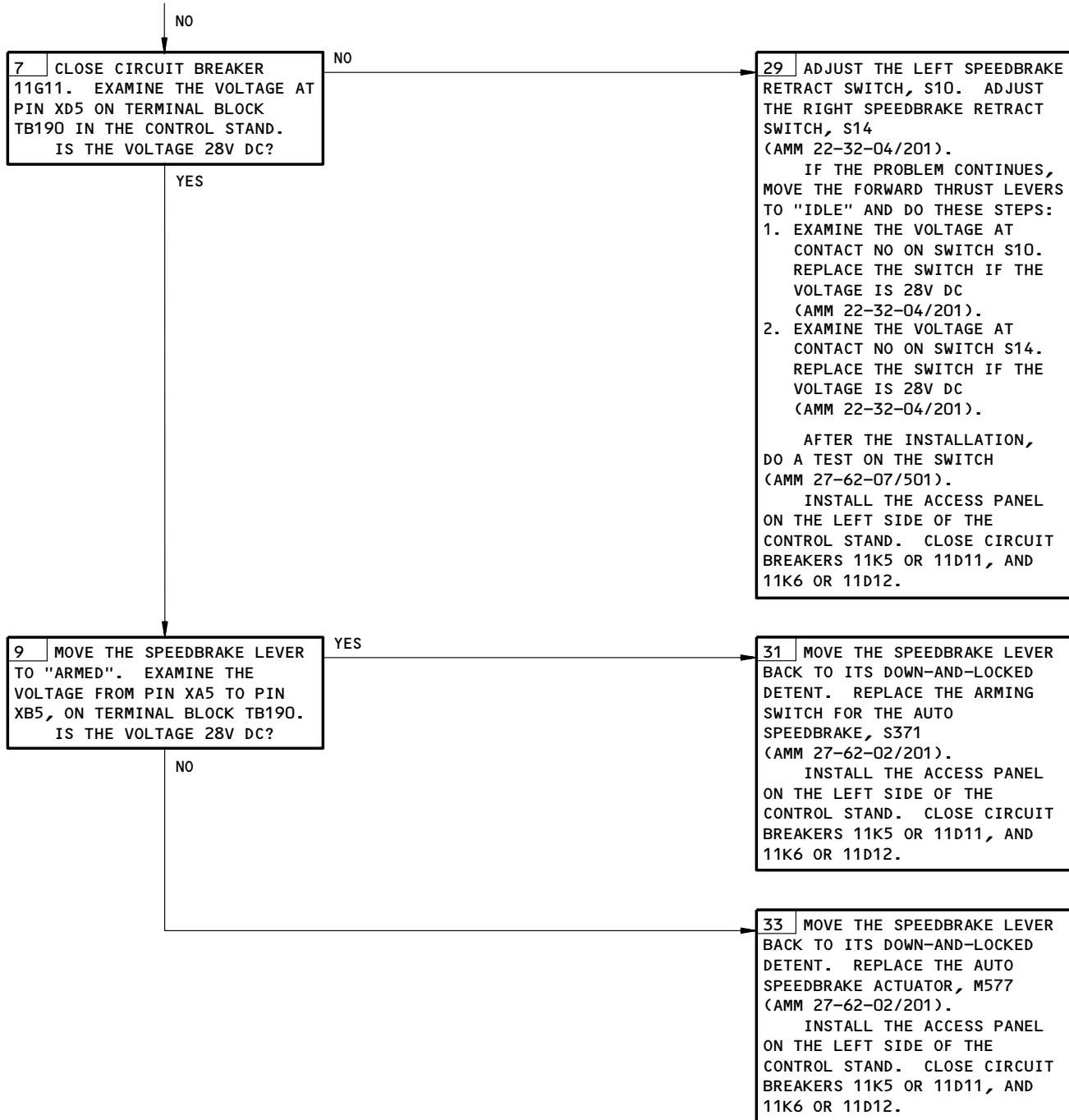


Speedbrake Lever Failed to Extend Automatically on Landing  
Figure 104 (Sheet 2)

EFFECTIVITY	ALL
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27-62-00

FROM SHEET 2  
(BLOCK 5)



Speedbrake Lever Failed to Extend Automatically on Landing  
Figure 104 (Sheet 3)

EFFECTIVITY

ALL

**27-62-00**

**PREREQUISITES**

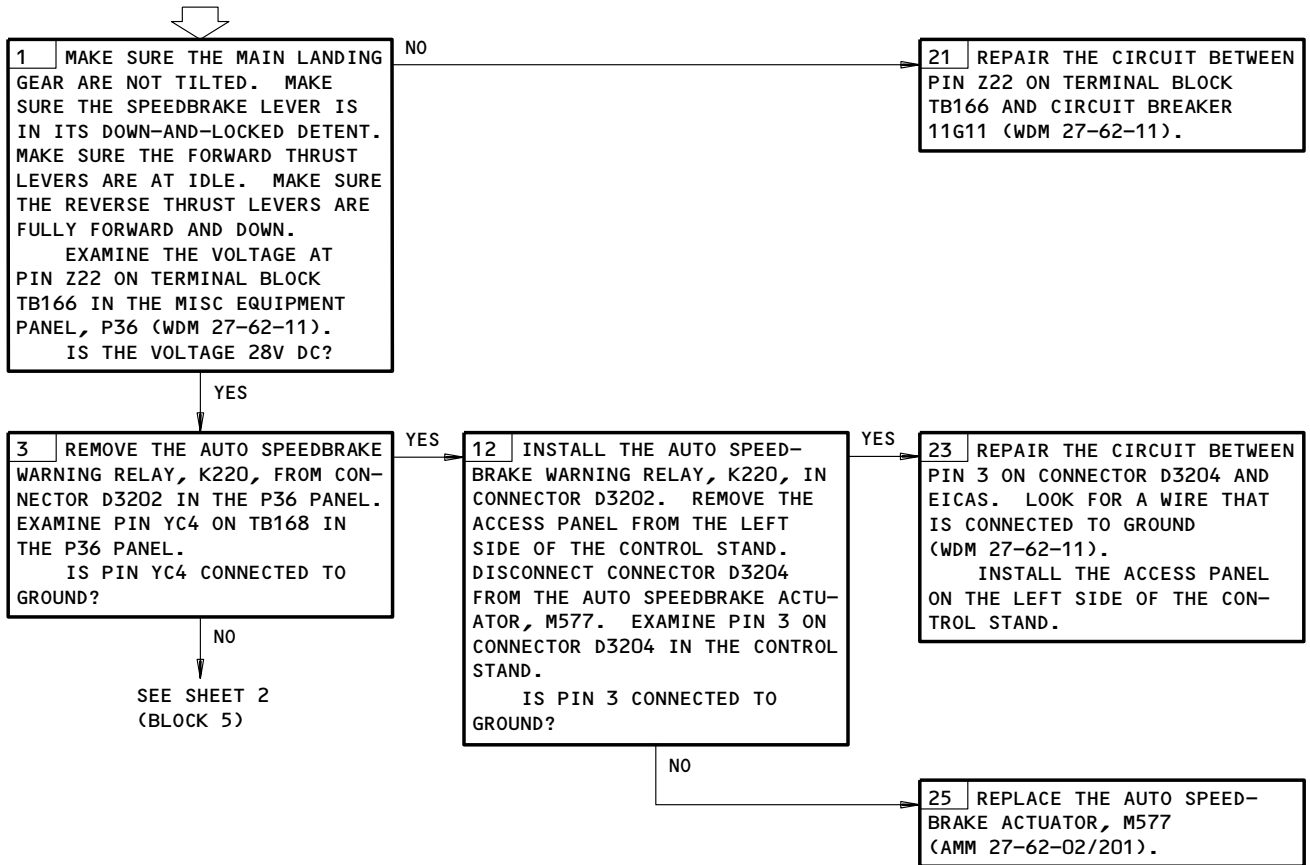
MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:  
11G11

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** AFTER THE SPEEDBRAKE LEVER MOVES, STOP FOR AT LEAST 20 SECONDS TO LET THE SYSTEM FIND AND SHOW ALL THE APPLICABLE FAULTS.

"AUTO SPD BRK" LGT ILLUM WITH SPEED-BRAKE LEVER DOWN.  
EICAS MESSAGE: "AUTO SPEEDBRAKE" DISPLAYED

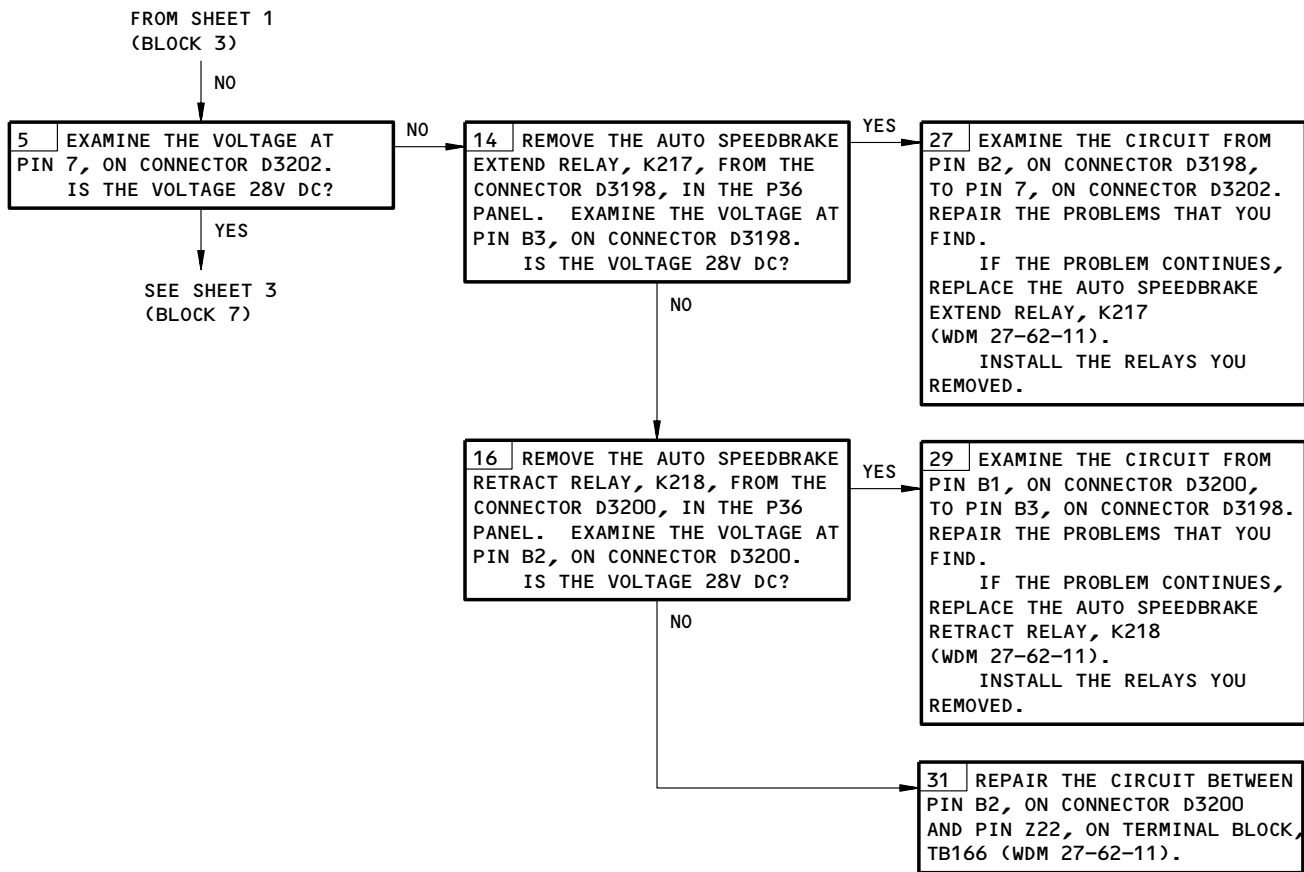


AUTO SPD BRK Lgt Illum with Speedbrake Lever Down. EICAS Message:  
AUTO SPEEDBRAKE Displayed  
Figure 105 (Sheet 1)

EFFECTIVITY	ALL
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**27-62-00**


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



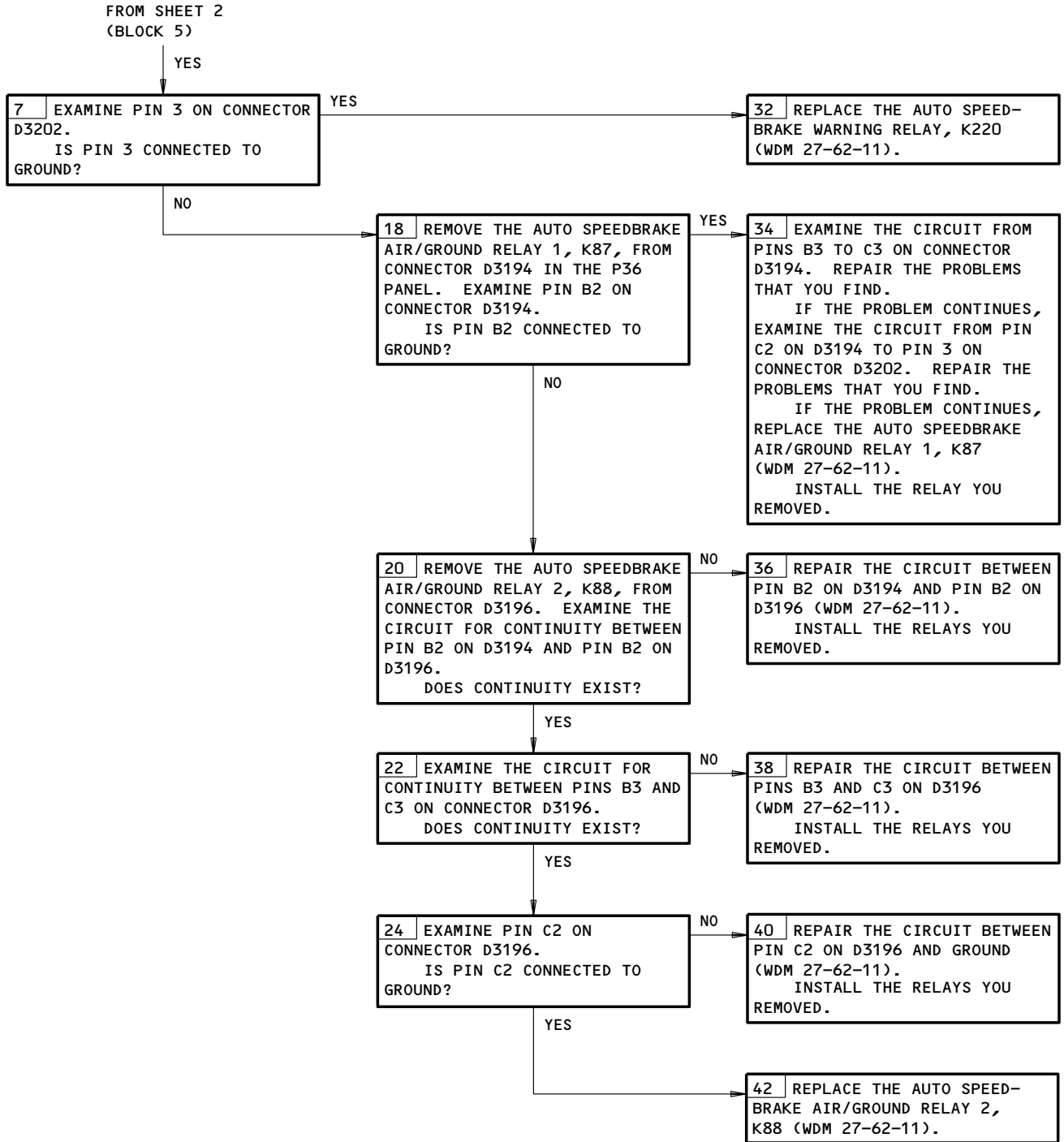
AUTO SPD BRK Lgt Illum with Speedbrake Lever Down. EICAS Message:  
 AUTO SPEEDBRAKE Displayed.  
 Figure 105 (Sheet 2)

EFFECTIVITY

ALL
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27-62-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



AUTO SPD BRK Lgt Illum with Speedbrake Lever Down. EICAS Message:  
AUTO SPEEDBRAKE Displayed.  
Figure 105 (Sheet 3)

EFFECTIVITY

ALL

**27-62-00**

01

Page 111  
Jan 28/00



**PREREQUISITES**

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:  
11G11

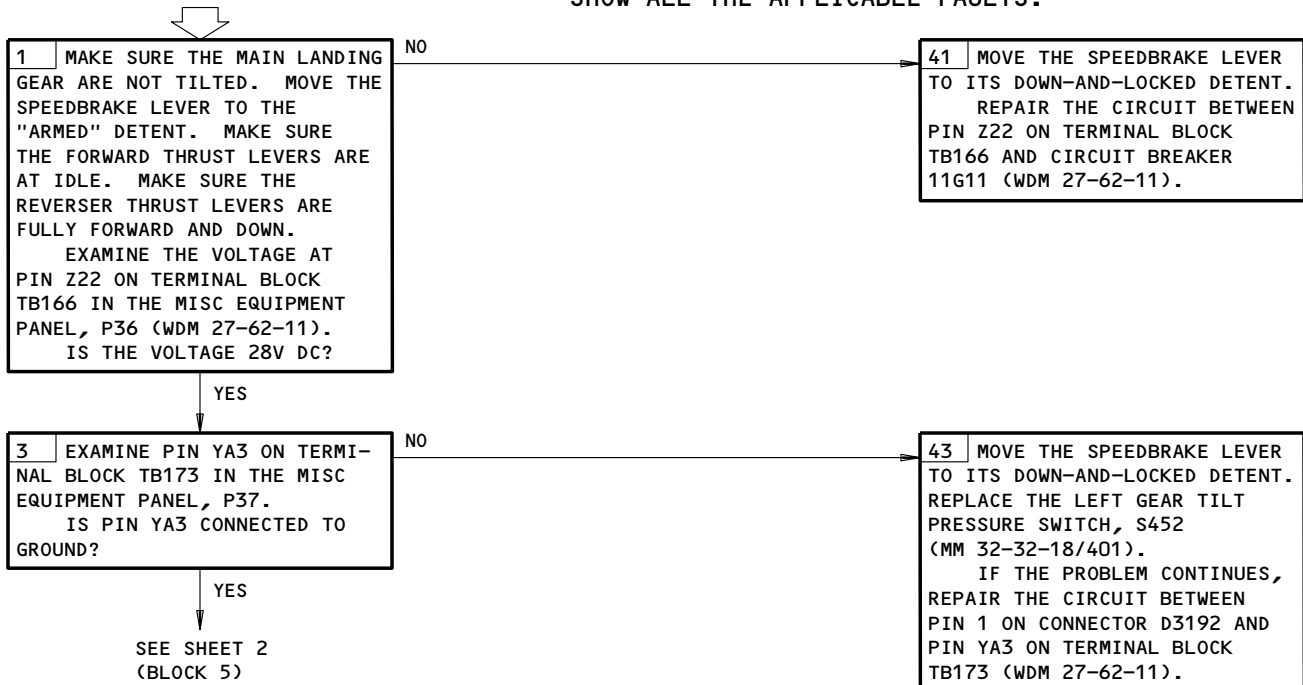
MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

- ELECTRICAL POWER IS ON (MM 24-22-00/201)
- HYDRAULIC POWER IS ON (MM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** AFTER YOU MOVE THE SPEEDBRAKE LEVER, STOP FOR AT LEAST 20 SECONDS TO LET THE SYSTEM FIND AND SHOW ALL THE APPLICABLE FAULTS.

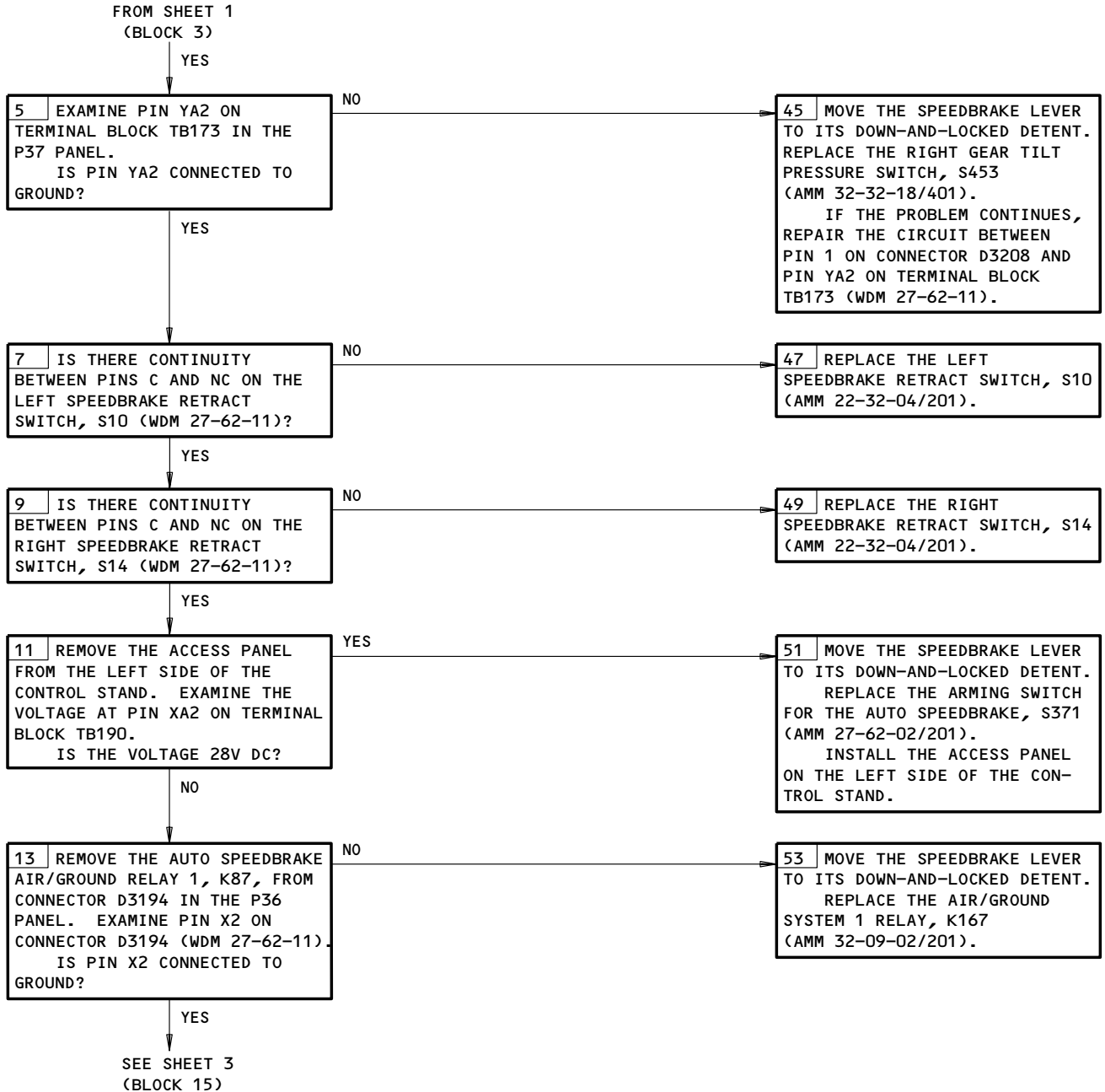
"AUTO SPD BRK" LGT ILLUM WITH SPEED-BRAKE LEVER ARMED.  
EICAS MESSAGE:  
"AUTO SPEEDBRAKE" DISPLAYED



AUTO SPD BRK Lgt Illum with Speedbrake Lever Armed. EICAS Message:  
 AUTO SPEEDBRAKE Displayed  
 Figure 106 (Sheet 1)

EFFECTIVITY	ALL
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**27-62-00**

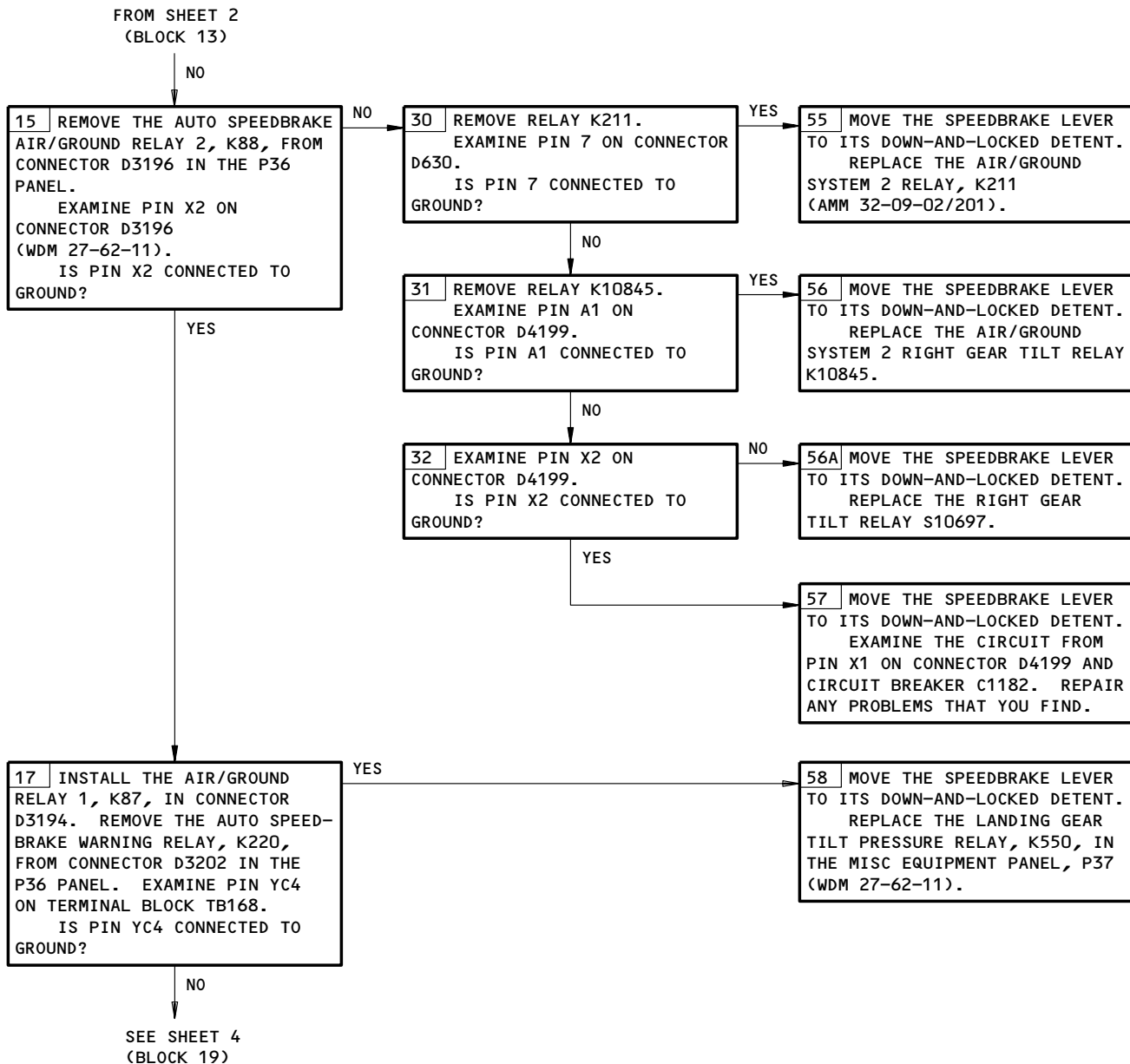


AUTO SPD BRK Lgt Illum with Speedbrake Lever Armed. EICAS Message:  
 AUTO SPEEDBRAKE Displayed  
 Figure 106 (Sheet 2)

EFFECTIVITY	ALL
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27-62-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

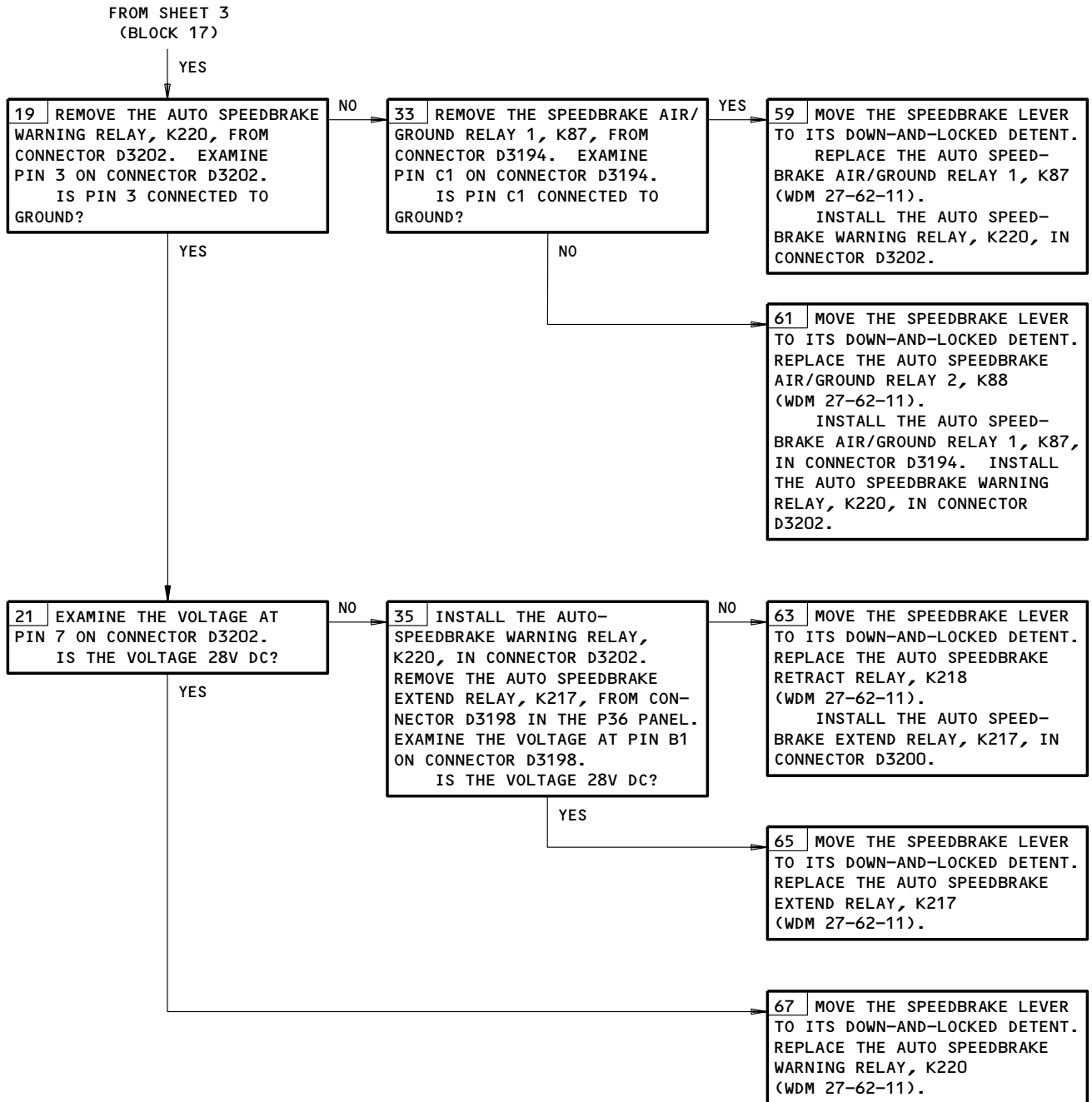


AUTO SPD BRK Lgt Illum with Speedbrake Lever Armed. EICAS Message:  
AUTO SPEEDBRAKE Displayed  
Figure 106 (Sheet 3)

EFFECTIVITY

ALL

27-62-00



AUTO SPD BRK Lgt Illum with Speedbrake Lever Armed. EICAS Message:  
 AUTO SPEEDBRAKE Displayed  
 Figure 106 (Sheet 4)

EFFECTIVITY

ALL

27-62-00

01

Page 115  
May 28/01

853913

**PREREQUISITES**

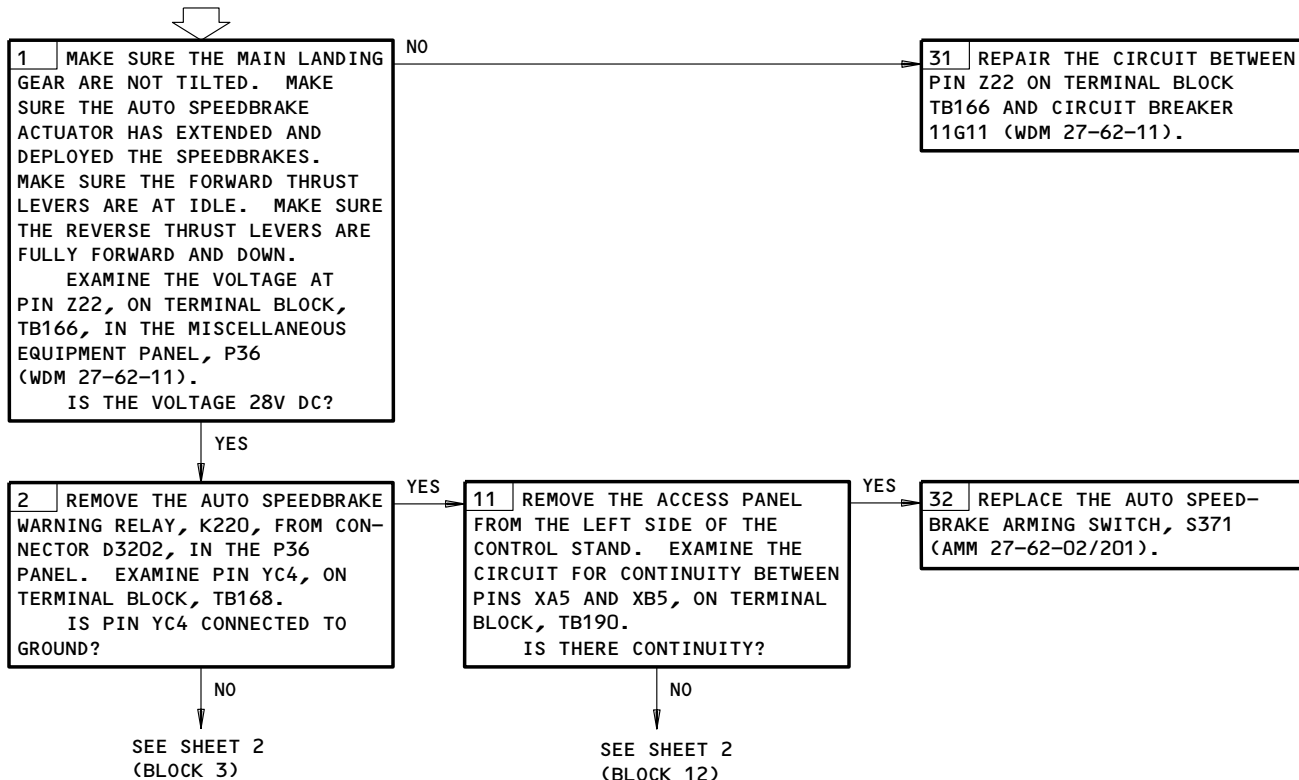
MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:  
11G11

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)

**WARNING:** KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

**NOTE:** AFTER THE SPEEDBRAKE LEVER MOVES, STOP FOR AT LEAST 20 SECONDS TO LET THE SYSTEM FIND AND SHOW ALL THE APPLICABLE FAULTS.

"AUTO SPD BRK" LGT ILLUM WITH SPEED-BRAKE LEVER UP.  
EICAS MESSAGE:  
"AUTO SPEEDBRAKE" DISPLAYED



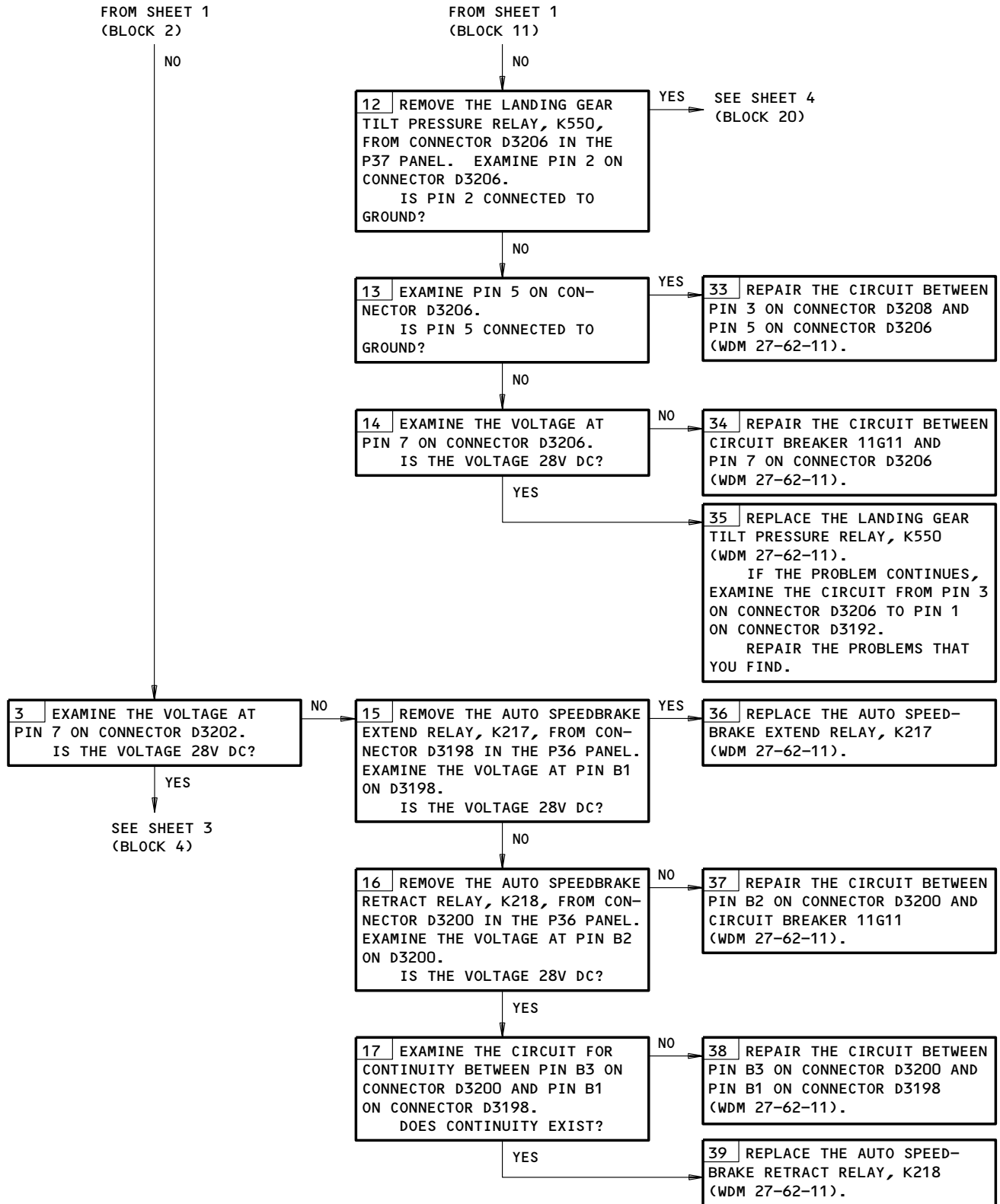
AUTO SPD BRK Lgt Illum with Speedbrake Lever Up. EICAS Message:  
AUTO SPEEDBRAKE Displayed  
Figure 107 (Sheet 1)

EFFECTIVITY

ALL

**27-62-00**

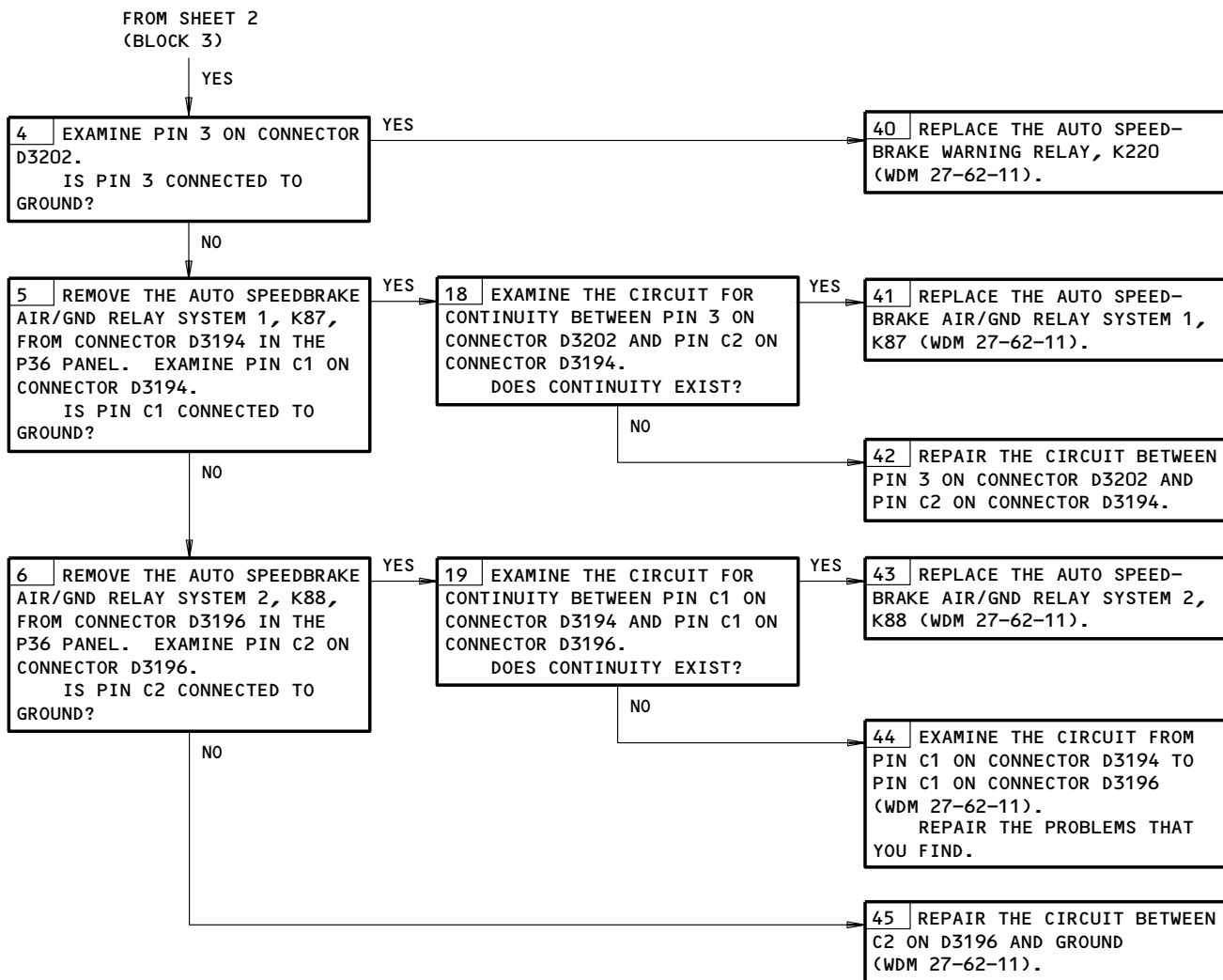
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



AUTO SPD BRK Lgt Illum with Speedbrake Lever Up. EICAS Message:  
AUTO SPEEDBRAKE Displayed  
Figure 107 (Sheet 2)

EFFECTIVITY \_\_\_\_\_  
ALL

**27-62-00**



AUTO SPD BRK Lgt Illum with Speedbrake Lever Up. EICAS Message:  
AUTO SPEEDBRAKE Displayed  
Figure 107 (Sheet 3)

EFFECTIVITY

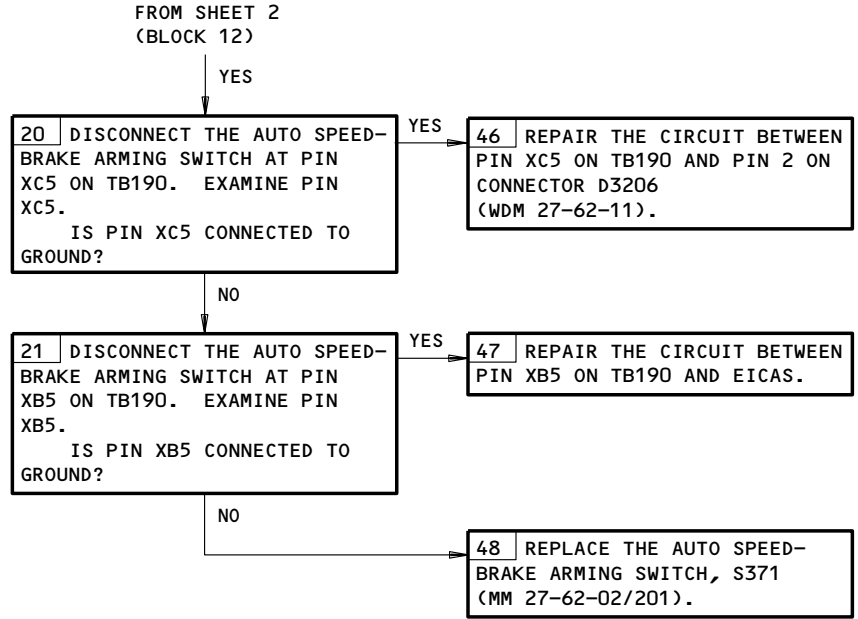
ALL

**27-62-00**

01

Page 118  
Jun 20/96

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



AUTO SPD BRK Lgt Illum with Speedbrake Lever Up. EICAS Message:  
AUTO SPEEDBRAKE Displayed  
Figure 107 (Sheet 4)

EFFECTIVITY	ALL
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27-62-00

01

Page 119  
Jun 20/96

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

LEADING EDGE SLAT SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - ROTARY CIRCUIT BREAKERS	10 1	20	SEE THE SPECIFIC SLAT FLIGHT COMPARTMENT, P6 PANEL, P11 PANEL	27-81-18
ALTN FLAP PWR, C323		1	6D23	*
ALTN SLAT PWR, C3014		1	6D20	*
FLAP/SLAT ALTN DR SHUTOFF 2, C4271		1	11H24	*
FLAP/SLAT ALTN DR SHUTOFF ARM, C4212		1	11H23	*
FLAP/SLAT ELEC UNIT 1 CONT, C1539		1	11G13	*
FLAP/SLAT ELEC UNIT 1 POWER, C1025		1	11G12	*
FLAP/SLAT ELEC UNIT 1 SENSOR, C1037		1	11G14	*
FLAP/SLAT ELEC UNIT 2 CONT, C1541		1	11C15	*
FLAP/SLAT ELEC UNIT 2 POWER, C1521		1	11C14	*
FLAP/SLAT ELEC UNIT 2 SENSOR, C1524		1	11C16	*
FLAP/SLAT ELEC UNIT 3 CONT, C1540		1	11G22	*
FLAP/SLAT ELEC UNIT 3 POWER, C4210		1	11G21	*
FLAP/SLAT ELEC UNIT 3 SENSOR, C1038		1	11G23	*
FLAP/SLAT SHUTOFF 1, C4110		1	11C17	*
STICK SHAKER LEFT, C1039		1	11C11	*
STICK SHAKER RIGHT, C4209		1	11J21	*
WARN ELEX A, C565		1	11J33	*
WARN ELEX B, C566		1	11B18	*
COMPUTER - (REF 31-41-00, FIG. 101)				
EICAS LEFT, M10181				
EICAS RIGHT, M10182				
COMPUTER - (REF 34-12-00, FIG. 101)				
LEFT AIR DATA, M100				
GEARBOX - ANGLE	5	1	511BB,611BB	27-81-15
INDICATOR - FLAP/SLAT POSITION, N15	1	1	FLIGHT COMPARTMENT, P3 PANEL	*
LEVER - (REF 27-51-00, FIG. 101)				
FLAP CONTROL				
LIGHT - LEADING EDGE, L433	1	1	FLIGHT COMPARTMENT, P3 PANEL	*
MODULE - (REF 27-32-00, FIG. 101)				
LEFT STALL WARNING, M615				
RIGHT STALL WARNING, M938				
MODULE - FLAP/SLAT DEPRESSURIZATION, V10060	11	1	LEFT MAIN GEAR WHEEL WELL	27-51-29
MODULE - LE SLAT CONTROL VALVE	4	1	511CB	27-81-06
MOTOR - ALTERNATE LE SLAT DRIVE, M10220	4	1	511CB	27-81-08
MOTOR - HYDRAULIC	4	1	511CB	27-81-08
RELAY - (REF 31-01-33, FIG. 101)				
ALT LE SLAT, K10494				
ALT SLAT EXTEND, K10097				
ALT SLAT RETRACT, K10098				
FLAP/SLAT ALT DRIVE, K10095				
SLAT - INBOARD LE				
SLAT NO. 5	8	1	511DB,511EB,511FB,511GB,511HB, 511JB	27-81-01
SLAT NO. 6	8	1	611DB,611EB,611FB,611GB,611HB, 611JB	27-81-01

\* SEE THE WDM EQUIPMENT LIST





Leading Edge Slat System - Component Index  
Figure 101 (Sheet 1)

EFFECTIVITY

ALL

**27-81-00**

 **BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SLAT - OUTBOARD LE				
SLAT NO. 1	8	1	521RB,521PB	27-81-02
SLAT NO. 2	8	1	521MB,521KB	27-81-02
SLAT NO. 3	8	1	521GB,521EB	27-81-02
SLAT NO. 4	8	1	521CB,521AB	27-81-02
SLAT NO. 7	8	1	621AB,621CB	27-81-02
SLAT NO. 8	8	1	621EB,621GB,621HB	27-81-02
SLAT NO. 9	8	1	621KB,621MB	27-81-02
SLAT NO. 10	8	1	621PB,621RB	27-81-02
SOLENOID - AUTO SLAT VALVE	4	1	511CB	27-81-06
SWITCH - (FIM 27-51-00/101) DRIVE ARMING, S10254 FLAP/SLAT DEPRESSURIZATION PRESSURE, S1 TRAILING EDGE ALTERNATE				
SWITCH - ALTERNATE FLAPS/SLATS POSITION SELECTOR, S10256	1	1	FLIGHT COMPARTMENT, P3 PANEL	*
SWITCH - INBOARD SLAT LOSS SENSING, S10340	6	1	 511DB;  511HB	27-81-41
SWITCH - INBOARD SLAT LOSS SENSING, S10338	6	1	 611DB;  611HB	27-81-41
SWITCH - LE SLAT ALTERNATE ARM, S10255	1	1	FLIGHT COMPARTMENT, P3 PANEL	*
SWITCH - OUTBOARD SLAT LOSS SENSING, S10341	6	1	521KB	27-81-42
SWITCH - OUTBOARD SLAT LOSS SENSING, S10339	6	1	621KB	27-81-42
TRACK - INBOARD LE SLAT AUXILIARY	8	4	SEE THE SPECIFIED SLAT	27-81-11
TRACK - INBOARD LE SLAT MAIN	8	6	SEE THE SPECIFIED SLAT	27-81-10
TRACK - OUTBOARD LE SLAT AUXILIARY	8	32	SEE THE SPECIFIED SLAT	27-81-13
TRACK - OUTBOARD LE SLAT MAIN	8	32	SEE THE SPECIFIED SLAT	27-81-12
TRANSFORMER - (FIM 31-01-70/101) FSEU-2, T153				
TRANSMITTER - (FIM 27-51-00/101) FLAP PDU POSITION, TS5050 LEFT FLAP POSITION, TS5049 RIGHT FLAP POSITION, TS5051				
TRANSMITTER - (FIM 27-81-00/101) LEFT SLAT POSITION, TS5083 RIGHT SLAT POSITION, TS5047				
TRANSMITTER - LE SLAT PDU POSITION, TS5048	4	1	511CB	27-81-08
TUBE - TORQUE	2		SEE SPECIFIED SLAT AND THE AFT END OF THE FORWARD CARGO COM- PARTMENT	27-81-20
UNIT - (FIM 27-51-00/101) FLAP/SLAT ELECTRONIC-1, M10331 FLAP/SLAT ELECTRONIC-2, M10332 FLAP/SLAT ELECTRONIC-3, M10333				
UNIT - LE SLAT POWER DRIVE VALVE - (FIM 27-51-00/101) FLAP/SLAT DEPRESSURIZATION PRIORITY FLAP/SLAT DEPRESSURIZATION SEQUENCE FLAP/SLAT DEPRESSURIZATION SHUT OFF FLAP/SLAT DEPRESSURIZATION SOLENOID, V1	3	1	511CB,511DB	27-81-07
VALVE - LE SLAT BYPASS,	7	1	193BL (LEFT WING-BODY FAIRING, FOUND FORWARD OF WING)	27-81-09

\* SEE THE WDM EQUIPMENT LIST

 FOR ROLLER TYPE SENSOR SWITCH

 FOR CAM TYPE SENSOR SWITCH

Leading Edge Slat System - Component Index  
Figure 101 (Sheet 2)

EFFECTIVITY

ALL

27-81-00

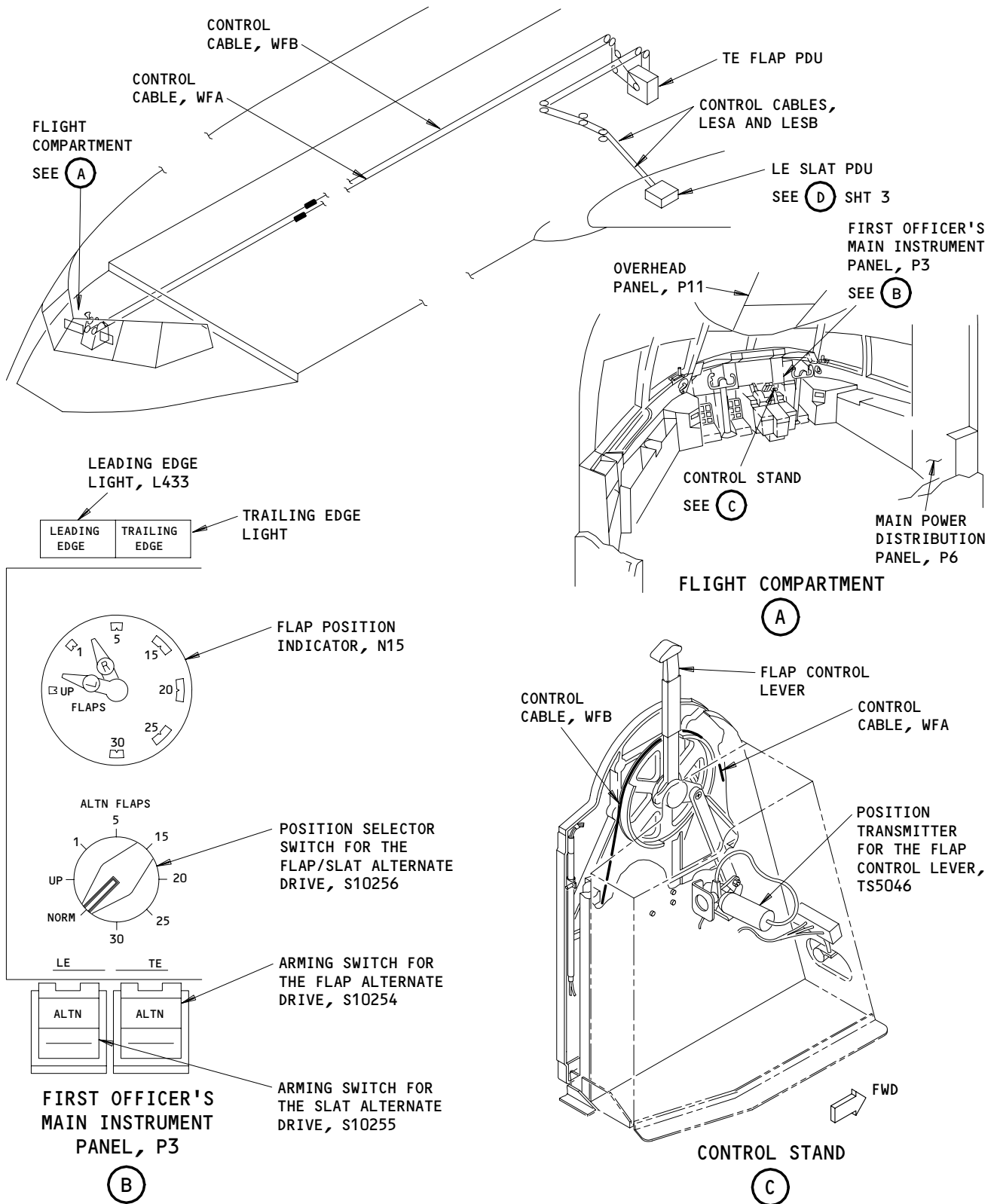
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Page 102  
May 20/98

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL



Leading Edge Slat System - Component Location  
Figure 102 (Sheet 1)

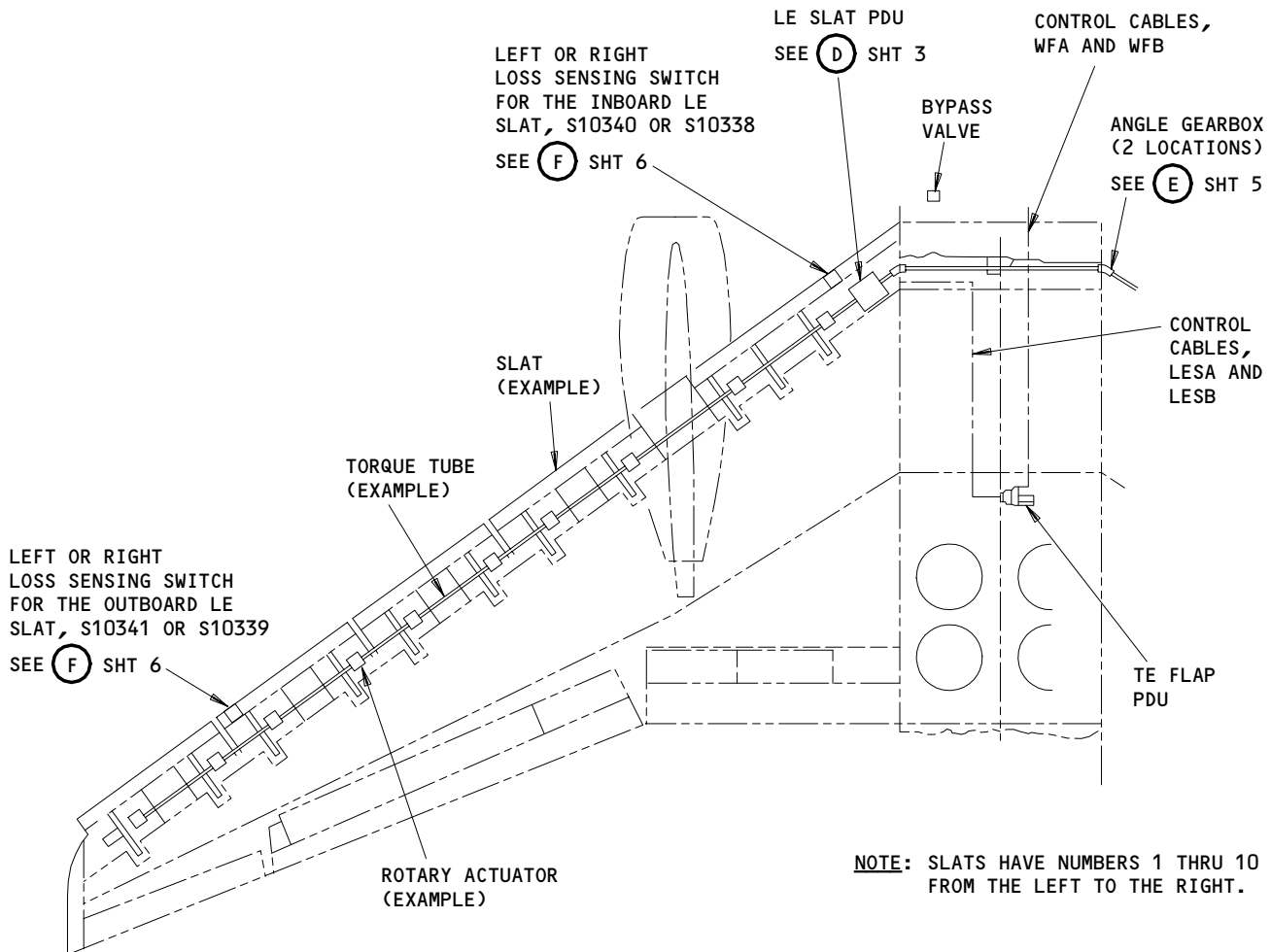
EFFECTIVITY	
	ALL

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27-81-00

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Page 103  
Mar 20/91

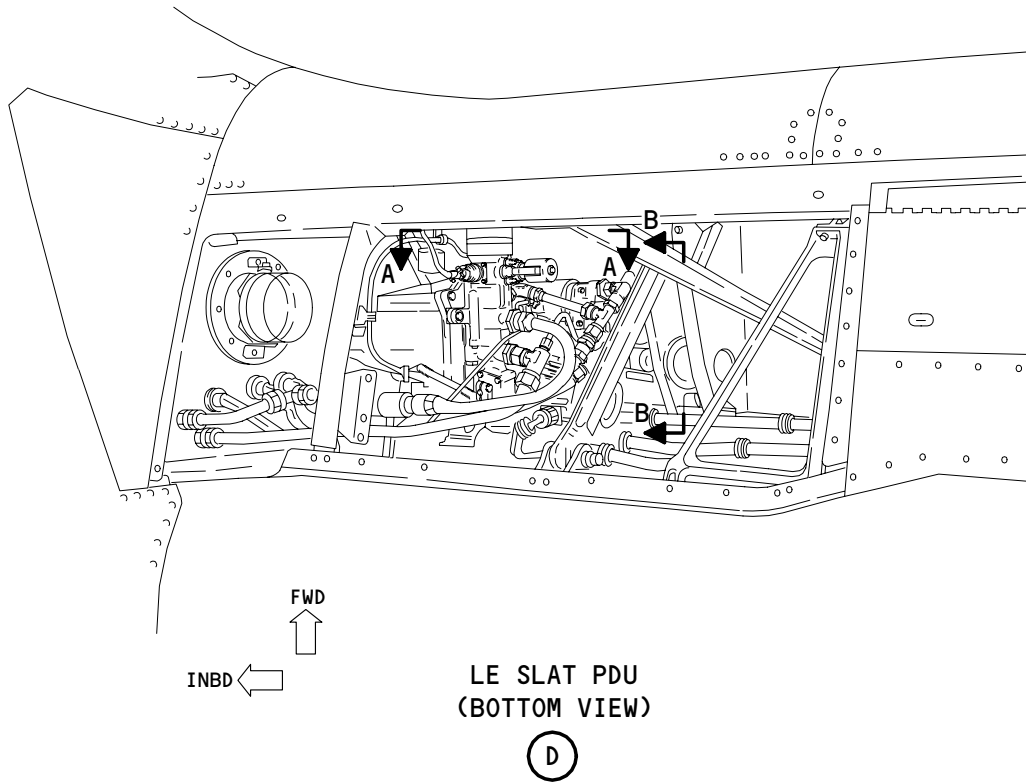
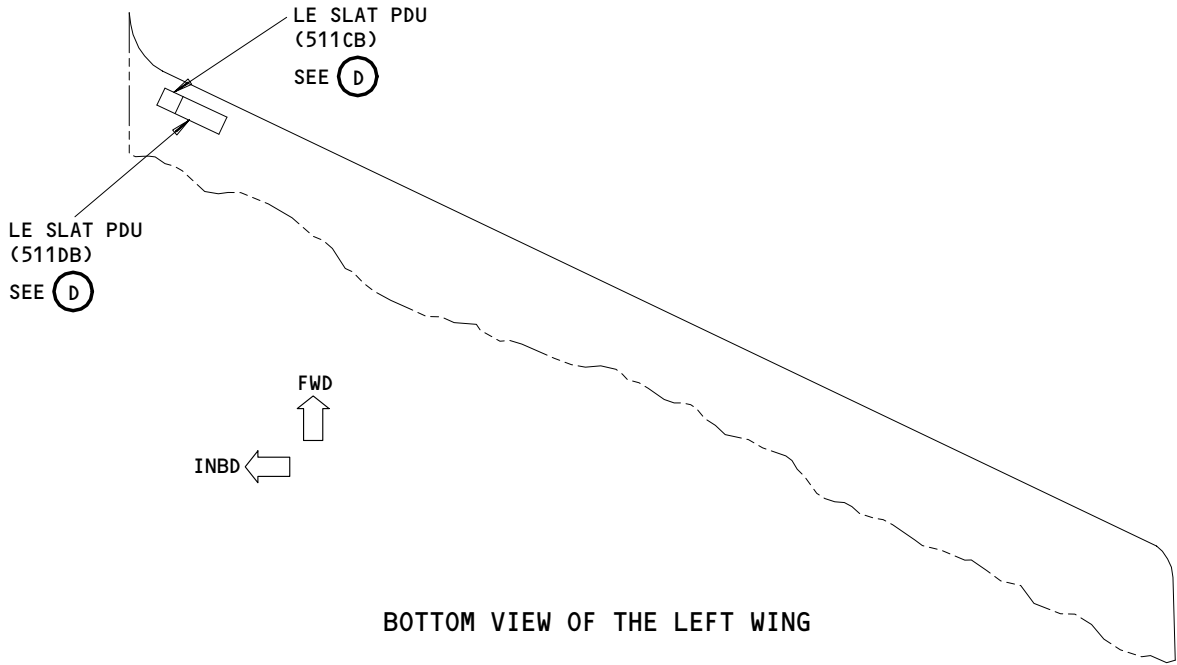


PLAN VIEW  
(LEFT WING SHOWN, RIGHT WING IS OPPOSITE)

Leading Edge Slit System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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**27-81-00**

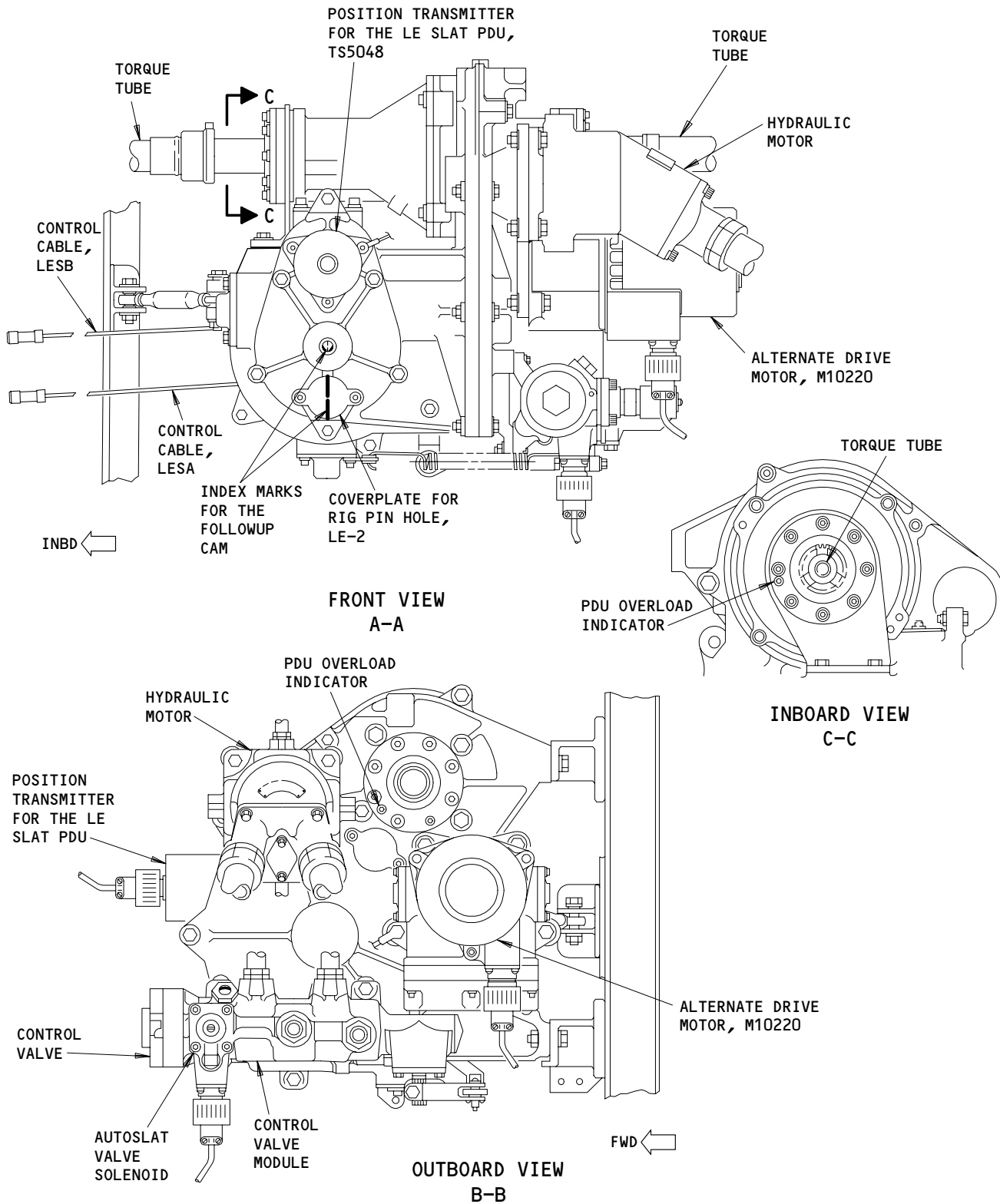


Leading Edge Slat System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY	ALL
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27-81-00

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Leading Edge Slit System - Component Location  
Figure 102 (Sheet 4)

EFFECTIVITY

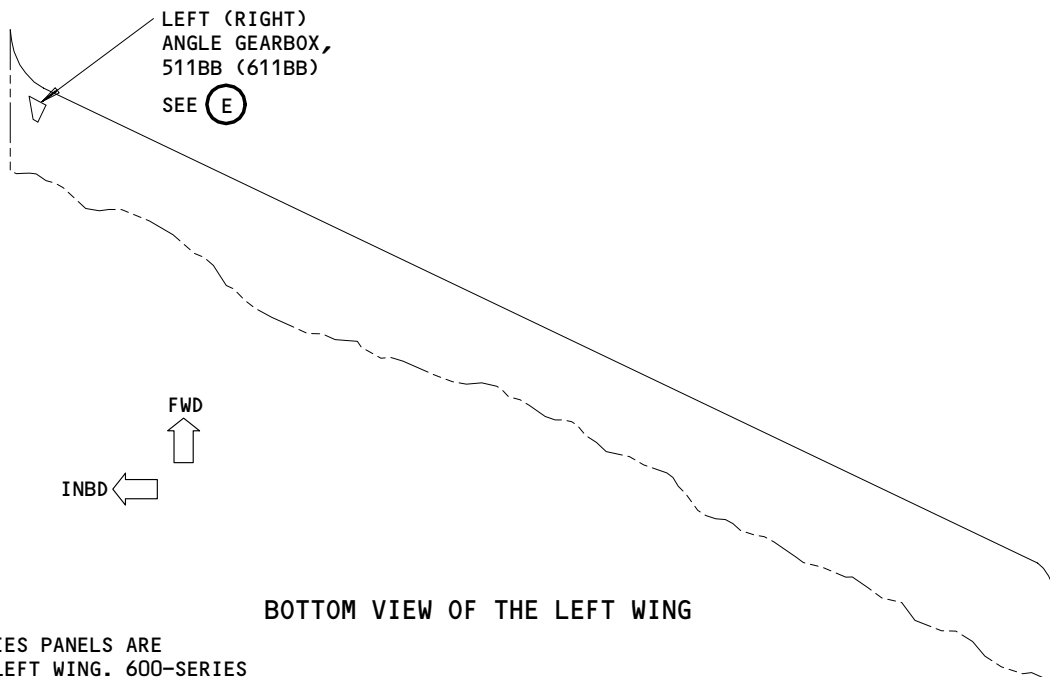
ALL

27-81-00

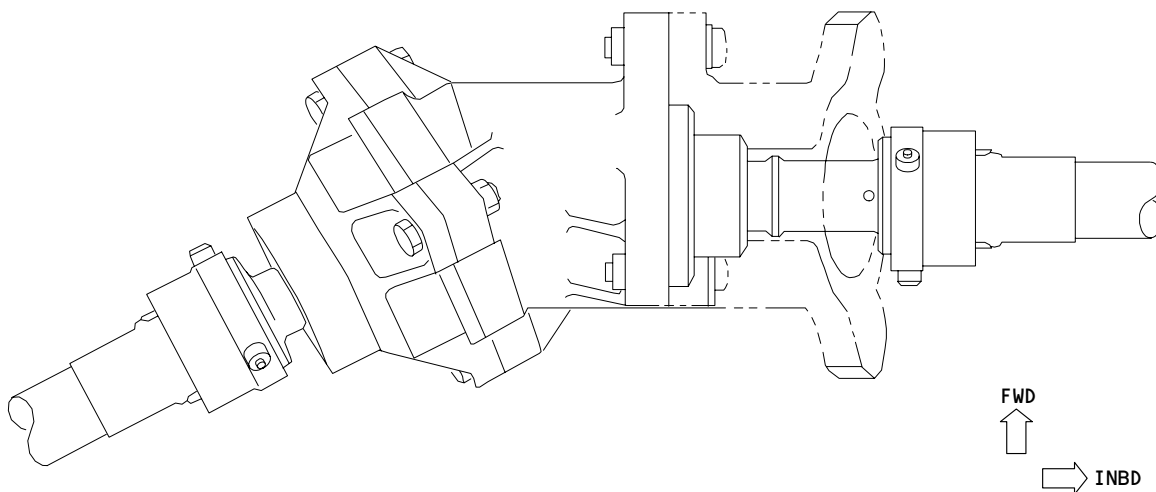
01

Page 106  
Mar 20/91

56080



**NOTE:** 500-SERIES PANELS ARE ON THE LEFT WING. 600-SERIES PANELS ARE ON THE RIGHT WING.



**ANGLE GEARBOX  
 (LEFT WING SHOWN, RIGHT WING IS OPPOSITE)**

(E)

**Leading Edge Slat System - Component Location  
 Figure 102 (Sheet 5)**

EFFECTIVITY	ALL

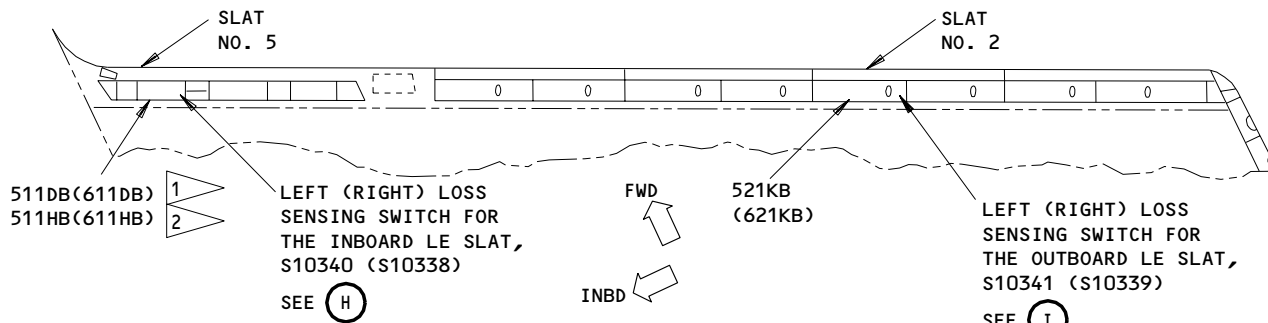
**27-81-00**

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Page 107  
Mar 20/91

216786

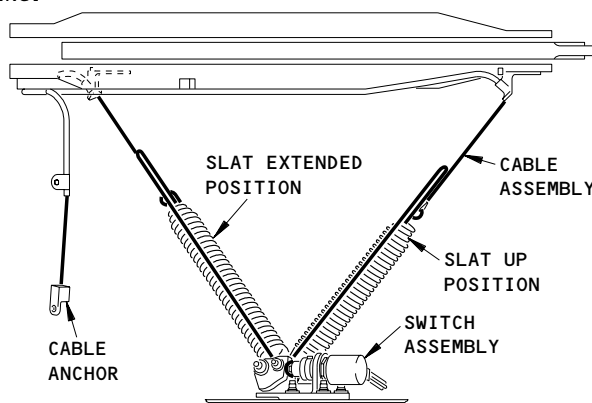
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



**BOTTOM VIEW OF SLATS NO. 2, 5  
(SLATS NO. 6-10 ARE OPPOSITE)**

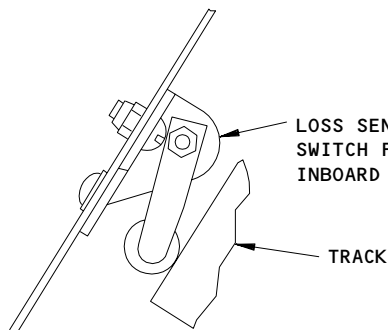
**NOTE:** 500-SERIES PANELS ARE ON THE LEFT WING. 600-SERIES PANELS ARE ON THE RIGHT WING.

(F) FROM SHT 2



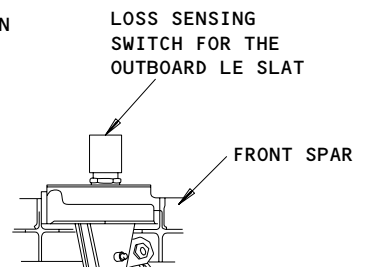
**LOSS SENSING SWITCH  
(SLAT NO. 5 IS SHOWN,  
SLAT NO. 6 IS OPPOSITE)**

(H) 2

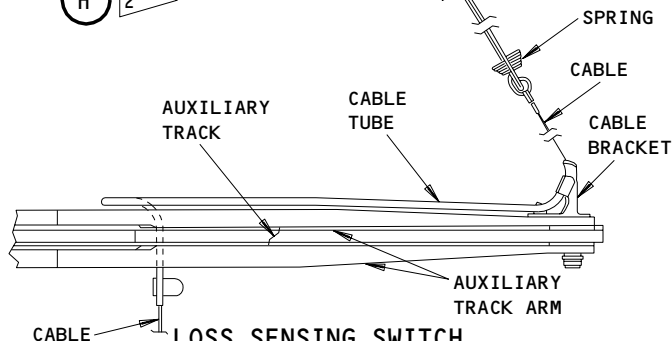


**LOSS SENSING SWITCH  
(SLAT NO. 5 IS SHOWN,  
SLAT NO. 6 IS OPPOSITE)**

(H) 1



**LOSS SENSING SWITCH FOR THE  
OUTBOARD LE SLAT**



**LOSS SENSING SWITCH  
(SLAT NO. 2 IS SHOWN,  
SLAT NO. 10 IS OPPOSITE)**

(I)

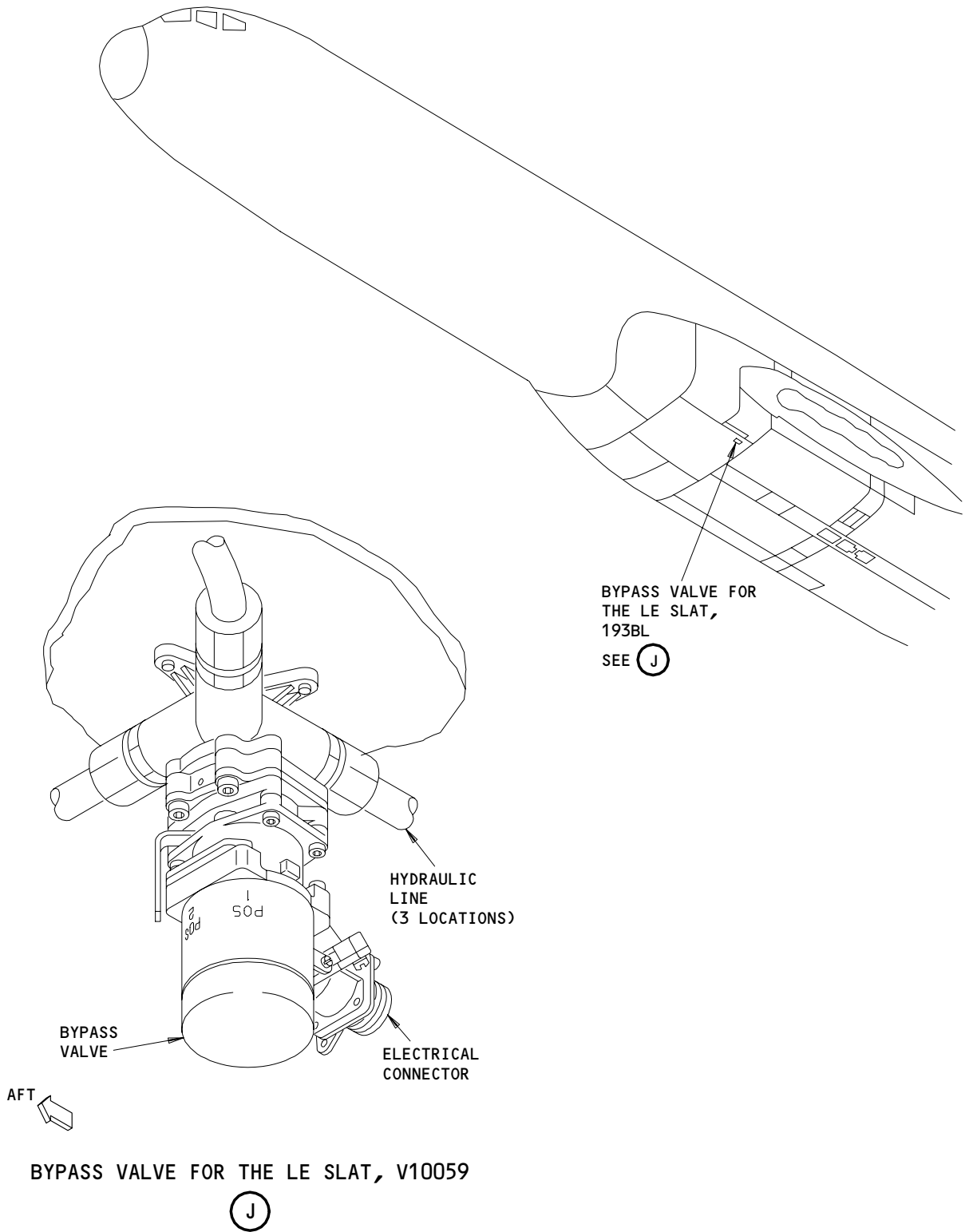
- 1 FOR ROLLER TYPE SENSOR SWITCH
- 2 FOR CAM TYPE SENSOR SWITCH

**Leading Edge Slat System - Component Location  
Figure 102 (Sheet 6)**

EFFECTIVITY	ALL
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**27-81-00**





Leading Edge Slat System - Component Location  
Figure 102 (Sheet 7)

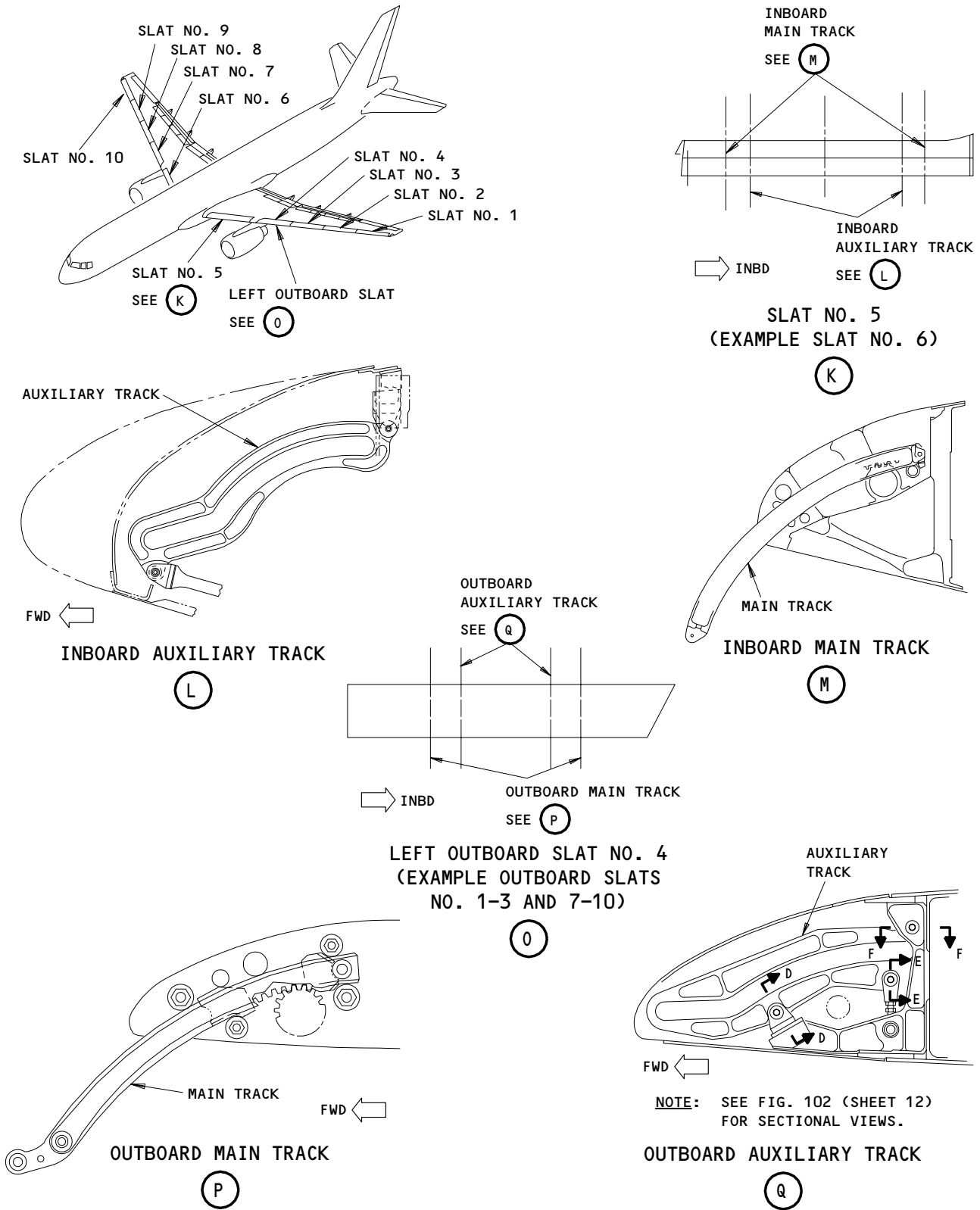
EFFECTIVITY	
	ALL

27-81-00

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Page 109  
Mar 20/91

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

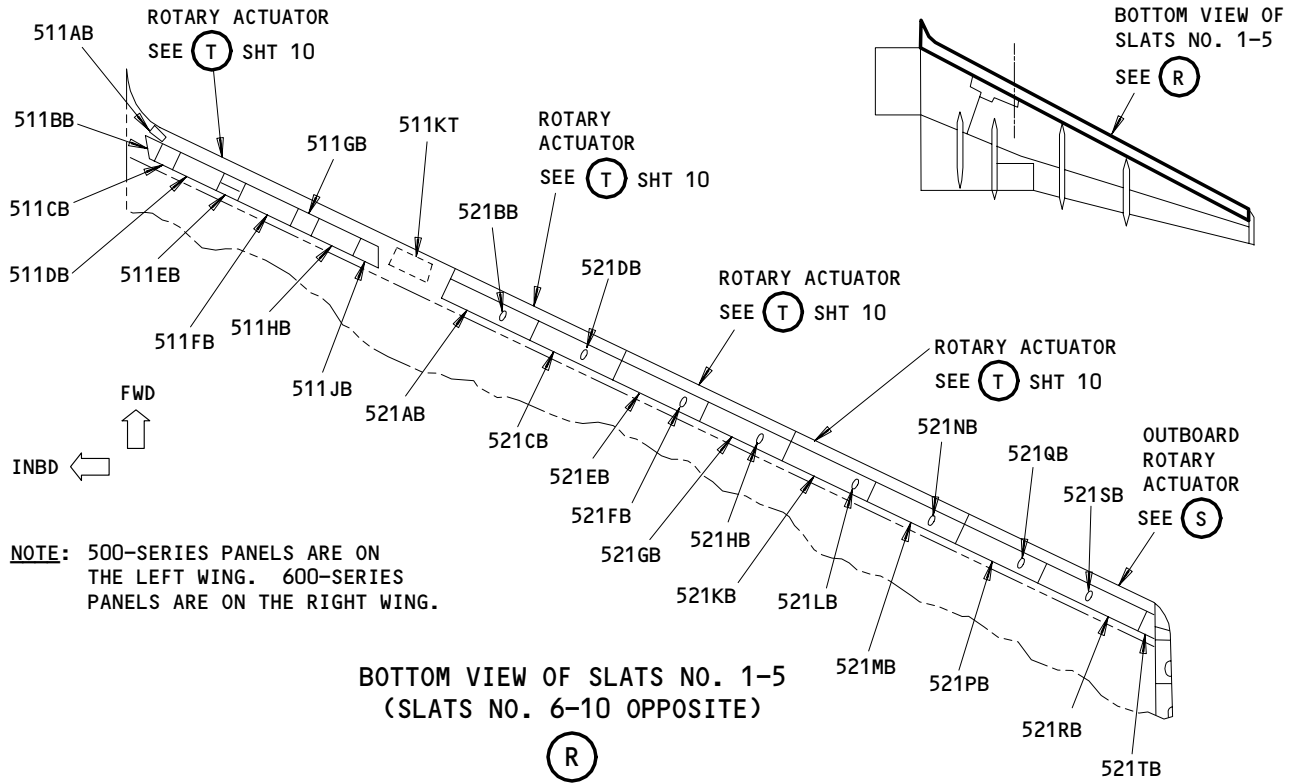


Leading Edge Slat System - Component Location  
Figure 102 (Sheet 8)

EFFECTIVITY	
	ALL

27-81-00

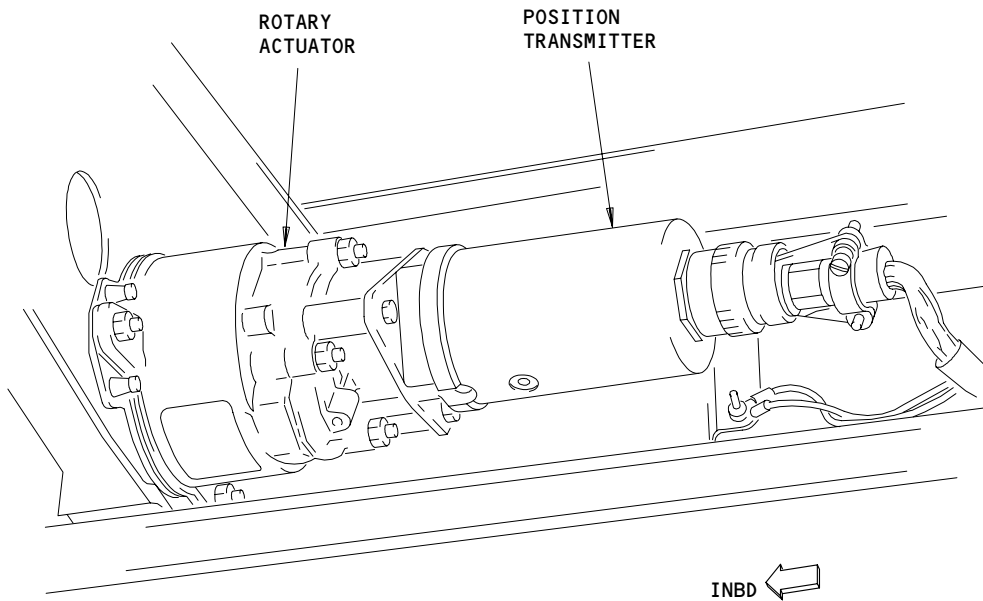
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



**NOTE:** 500-SERIES PANELS ARE ON THE LEFT WING. 600-SERIES PANELS ARE ON THE RIGHT WING.

BOTTOM VIEW OF SLATS NO. 1-5  
(SLATS NO. 6-10 OPPOSITE)

(R)



OUTBOARD ROTARY ACTUATOR

(S)

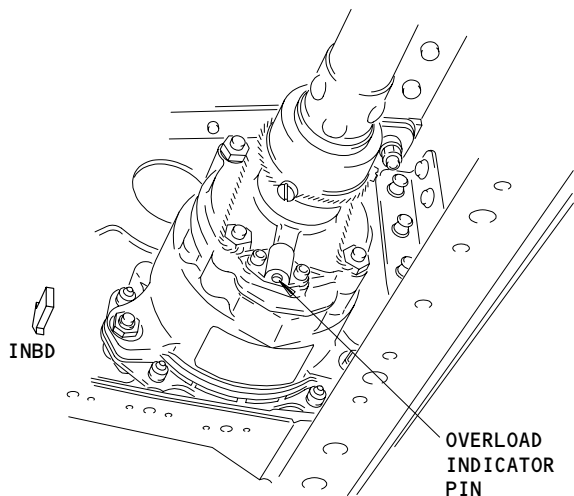
Leading Edge Slat System - Component Location  
Figure 102 (Sheet 9)

EFFECTIVITY	ALL
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27-81-00

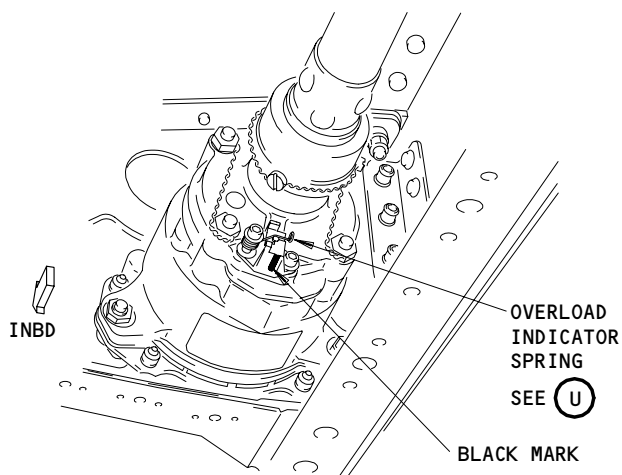
01

Page 111  
Sep 20/91



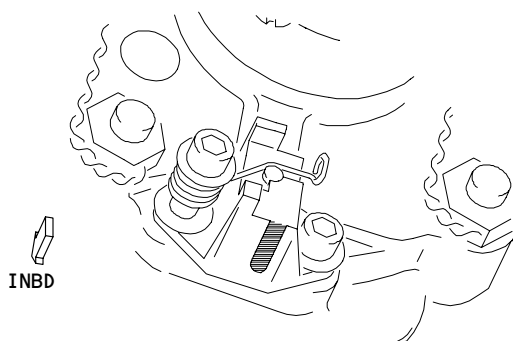
**ROTARY ACTUATOR  
(ROTARY ACTUATORS WITH  
AN OVERLOAD INDICATOR PIN)**

T FROM SHT 9 1



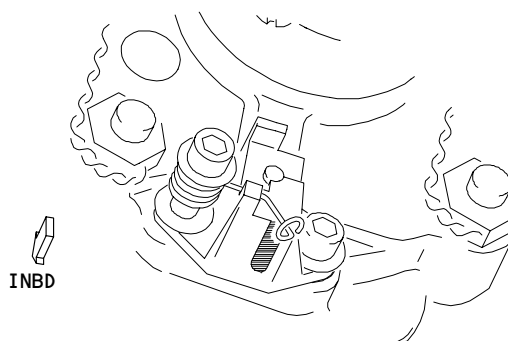
**ROTARY ACTUATOR  
(ROTARY ACTUATORS WITH  
AN OVERLOAD INDICATOR SPRING)**

T FROM SHT 9 2



**OVERLOAD INDICATOR SPRING  
(NON-TRIPPED CONDITION)**

U



**OVERLOAD INDICATOR SPRING  
(TRIPPED CONDITION)**

U

- 1 AN OVERLOAD INDICATOR PIN WILL BE ABOVE THE OUTER ADJACENT HOUSING OR THE RED PART OF THE PIN WILL SHOW IF THE OVERLOAD INDICATOR CAME ON.
- 2 AN OVERLOAD INDICATOR SPRING WILL BE ALIGNED WITH THE BLACK MARK ON THE ROTARY ACTUATOR HOUSING IF THE OVERLOAD INDICATOR CAME ON.

**Leading Edge Slat System - Component Location  
Figure 102 (Sheet 10)**

EFFECTIVITY

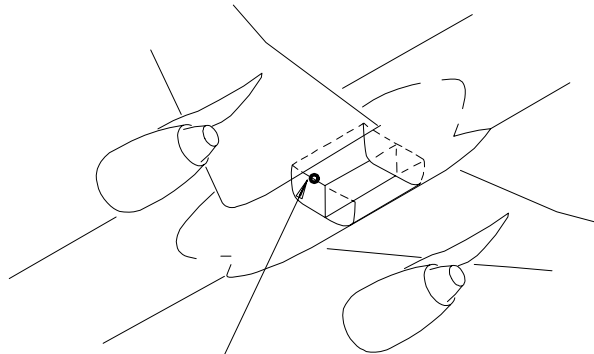
ALL

**27-81-00**

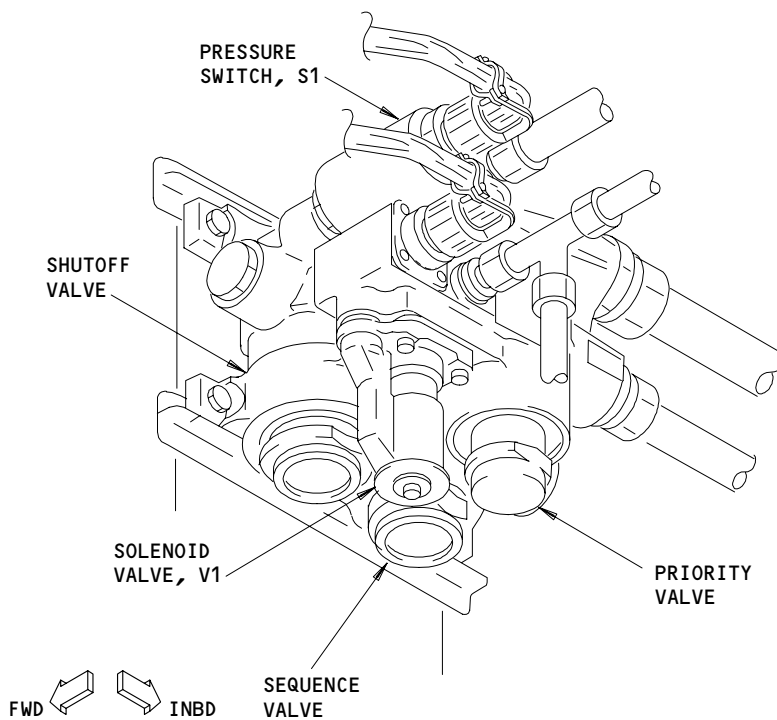
02

Page 112  
Sep 20/91

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



FLAP/SLAT  
DEPRESSURIZATION  
MODULE, V10060  
SEE (V)



FLAP/SLAT DEPRESSURIZATION  
MODULE, V10060

(V)

Leading Edge Slat System - Component Location  
Figure 102 (Sheet 11)

EFFECTIVITY	
	ALL

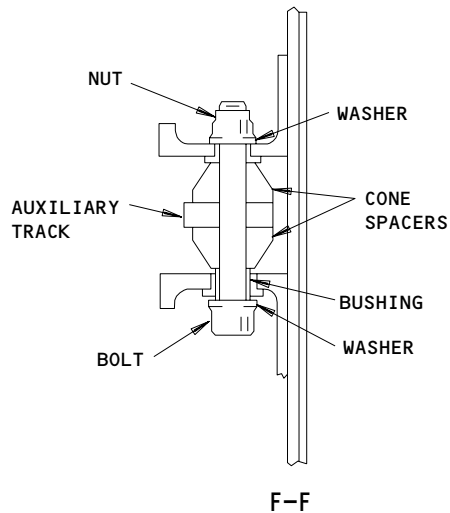
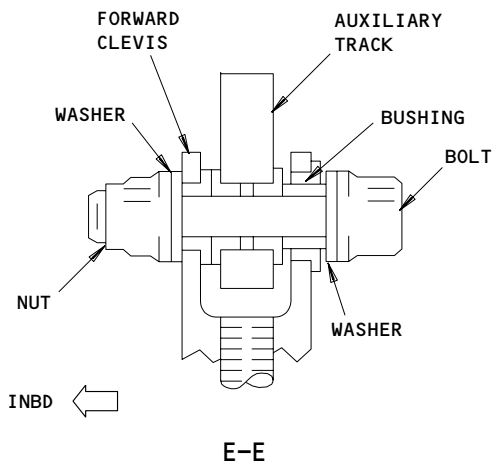
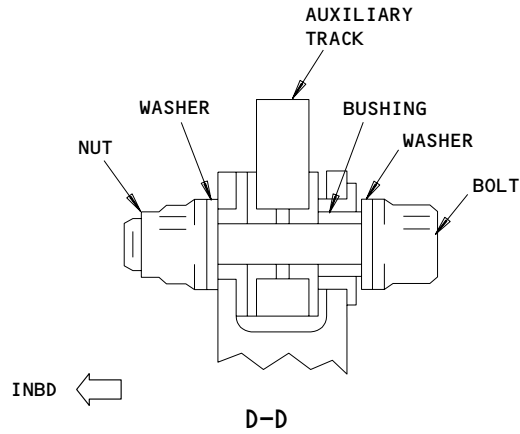
27-81-00

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Page 113  
Sep 20/91

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Leading Edge Slat System - Component Location  
Figure 102 (Sheet 12)

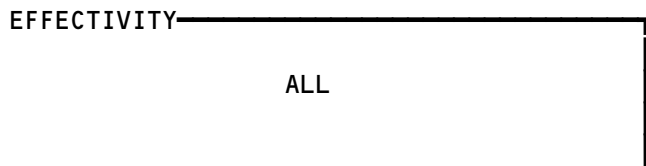
EFFECTIVITY	ALL

27-81-00

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Page 114  
Sep 28/99

Not Used  
Figure 103



27-81-00

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Page 115  
Sep 28/99

56084

**PREREQUISITES**

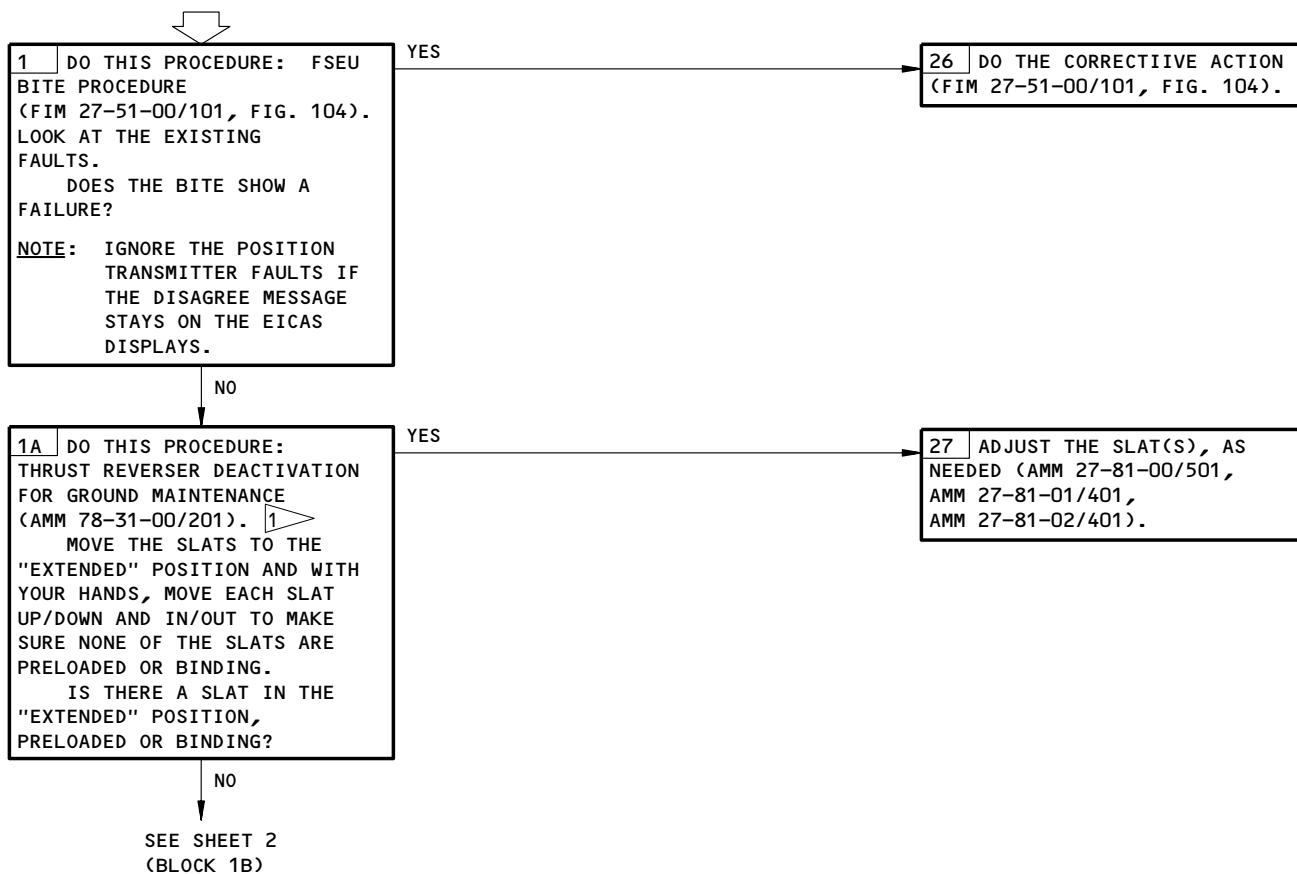
MAKE SURE THESE SYSTEMS WILL OPERATE:  
LEFT HYDRAULIC SYSTEM (AMM 29-11-00/201)  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C14, 11C15, 11C16, 11C17, 11G12, 11G13, 11G14,  
11G21, 11G22, 11G23, 11H12, 11H13, 11H23, 11H24

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

**EICAS MESSAGE  
"LE SLAT DISAGREE"  
DISPLAYED WITH THE  
FLAP LEVER IN ANY  
DETENT DURING  
NORMAL OPERATION**

**WARNING:** DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.



1 DO THE ACTIVATION PROCEDURE FOR THE THRUST REVERSER (AMM 78-31-00/201), AFTER THE FAULT ISOLATION PROCEDURE.

**EICAS Message LE SLAT DISAGREE Displayed with the Flap Lever In Any Detent during Normal Operation  
Figure 104 (Sheet 1)**

EFFECTIVITY

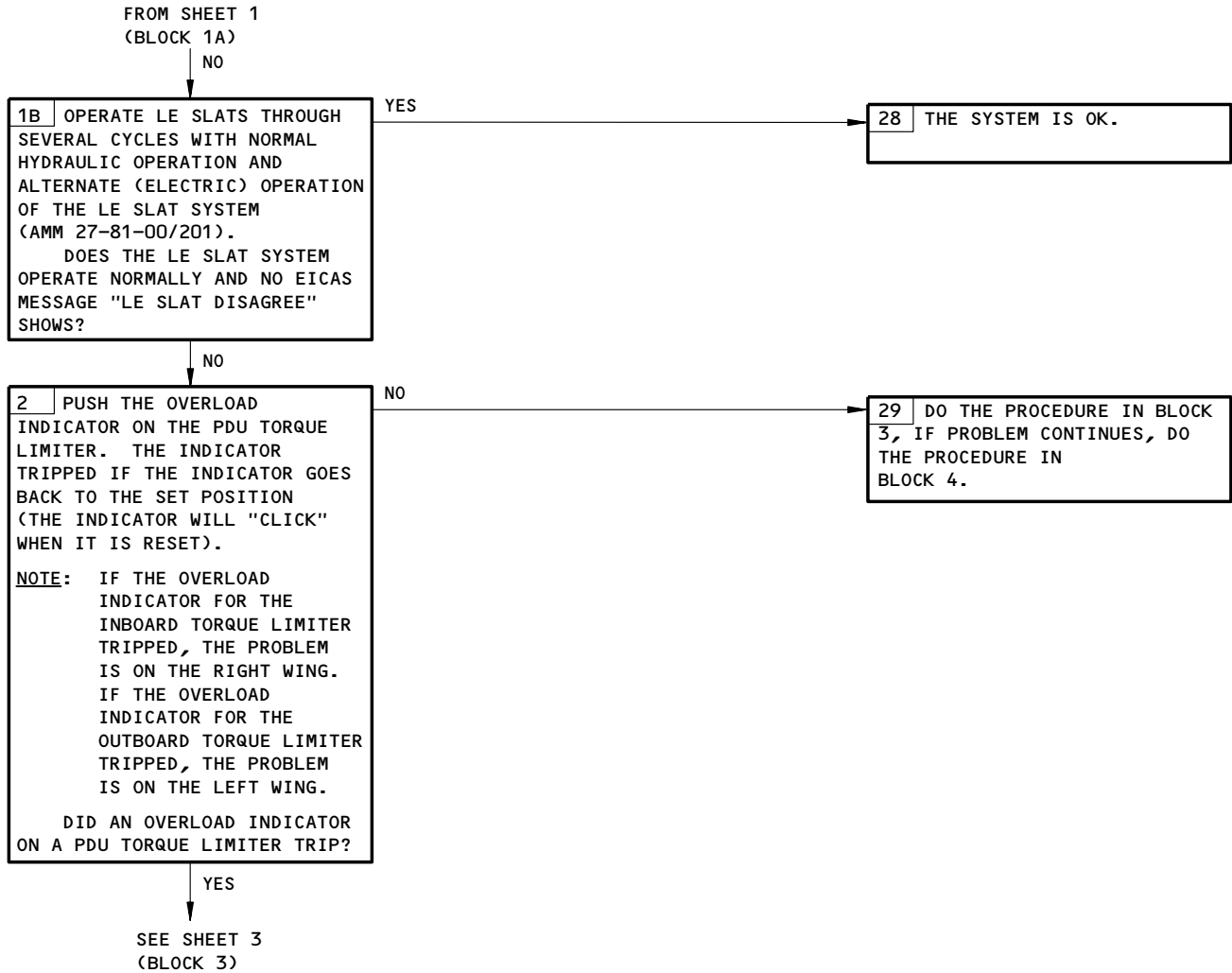
ALL

**27-81-00**

06

Page 116  
Sep 28/06



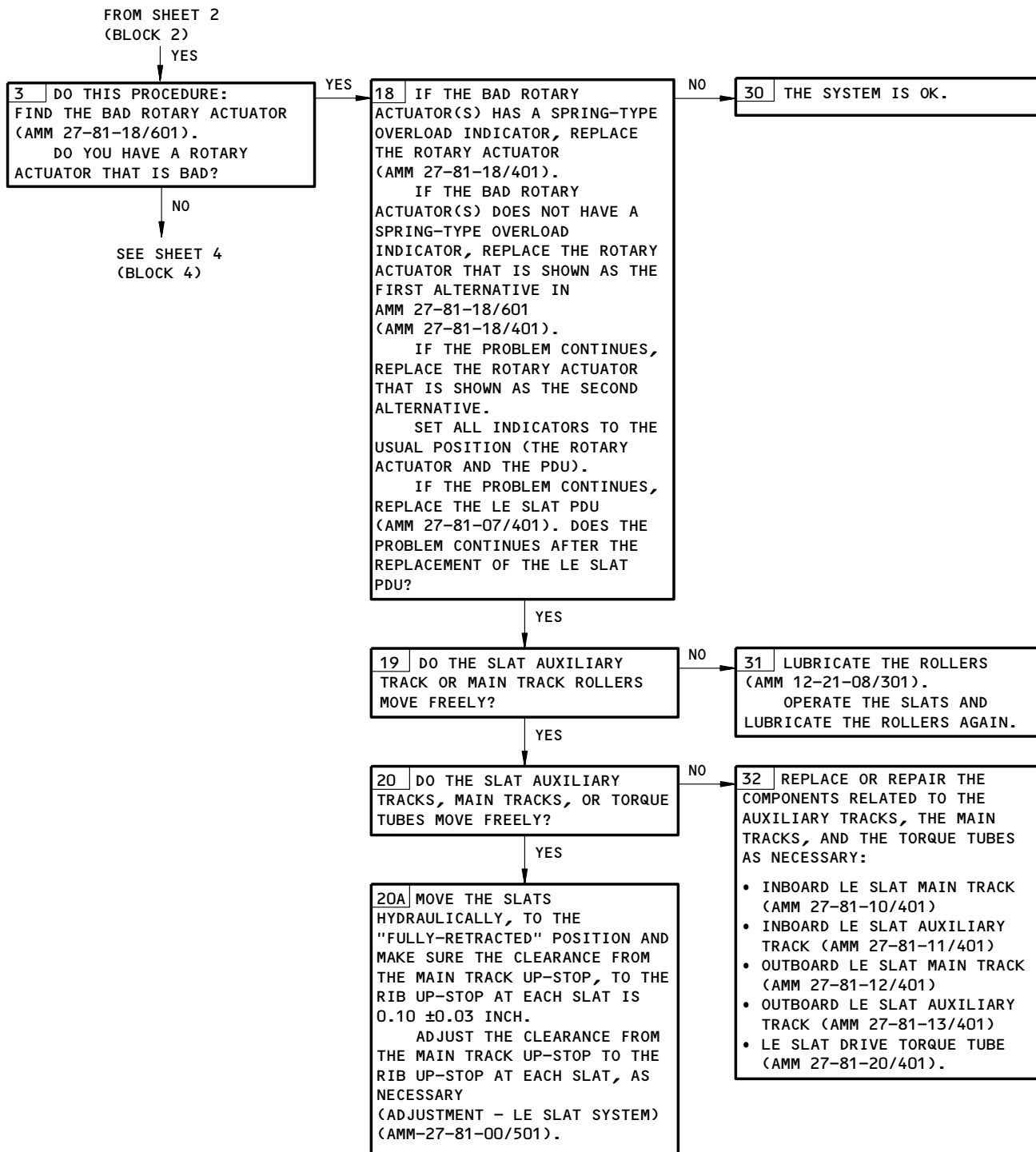


EICAS Message LE SLAT DISAGREE Displayed with the Flap Lever in any Detent During Normal Operation  
Figure 104 (Sheet 2)

EFFECTIVITY	ALL
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27-81-00

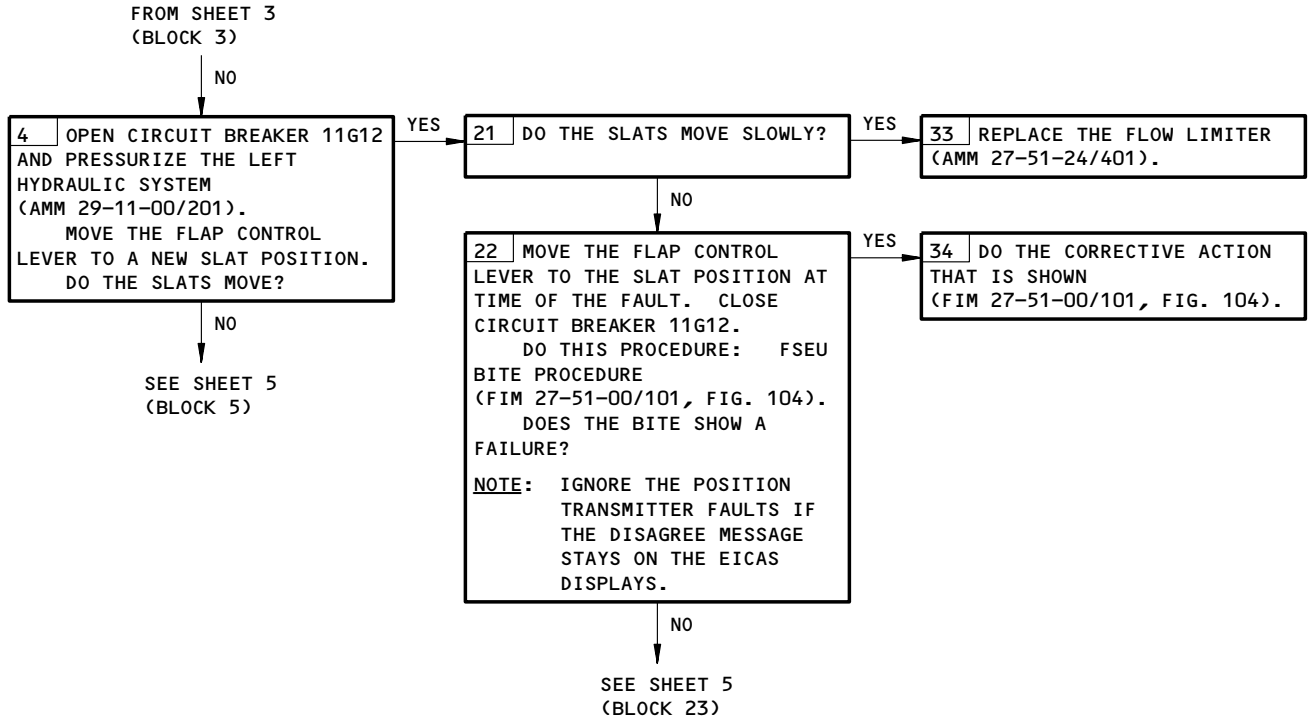
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



EICAS Message LE SLAT DISAGREE Displayed with the Flap Lever in any  
Detent during Normal Operation  
Figure 104 (Sheet 3)

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

27-81-00



EICAS Message LE SLAT DISAGREE Displayed with the Flap Lever in any  
Detent During Normal Operation  
Figure 104 (Sheet 4)

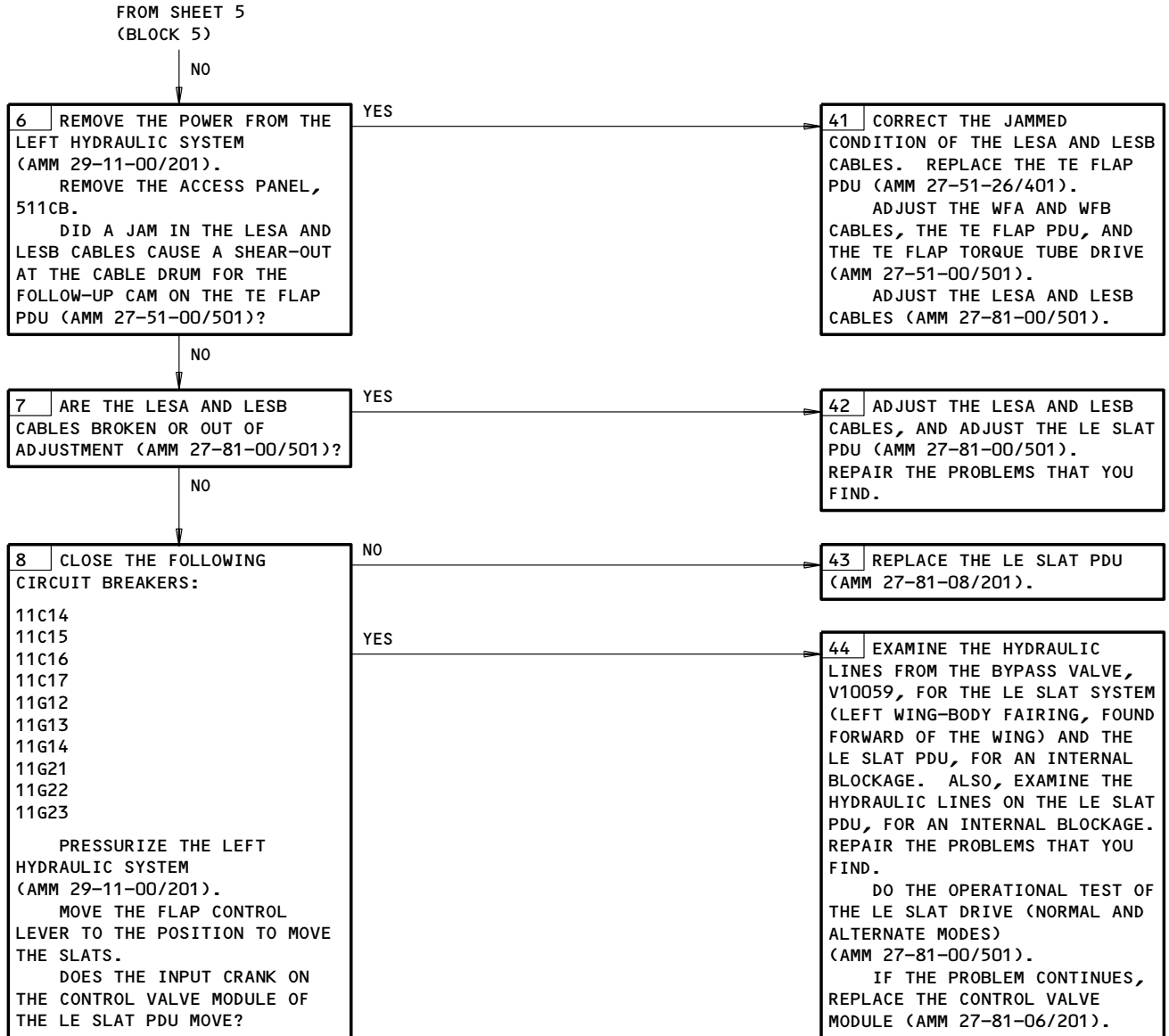
EFFECTIVITY	ALL
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27-81-00

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Page 119  
Sep 20/08





EICAS Message LE SLAT DISAGREE Displayed with the Flap Lever in any  
Detent During Normal Operation  
Figure 104 (Sheet 6)

EFFECTIVITY	ALL
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27-81-00

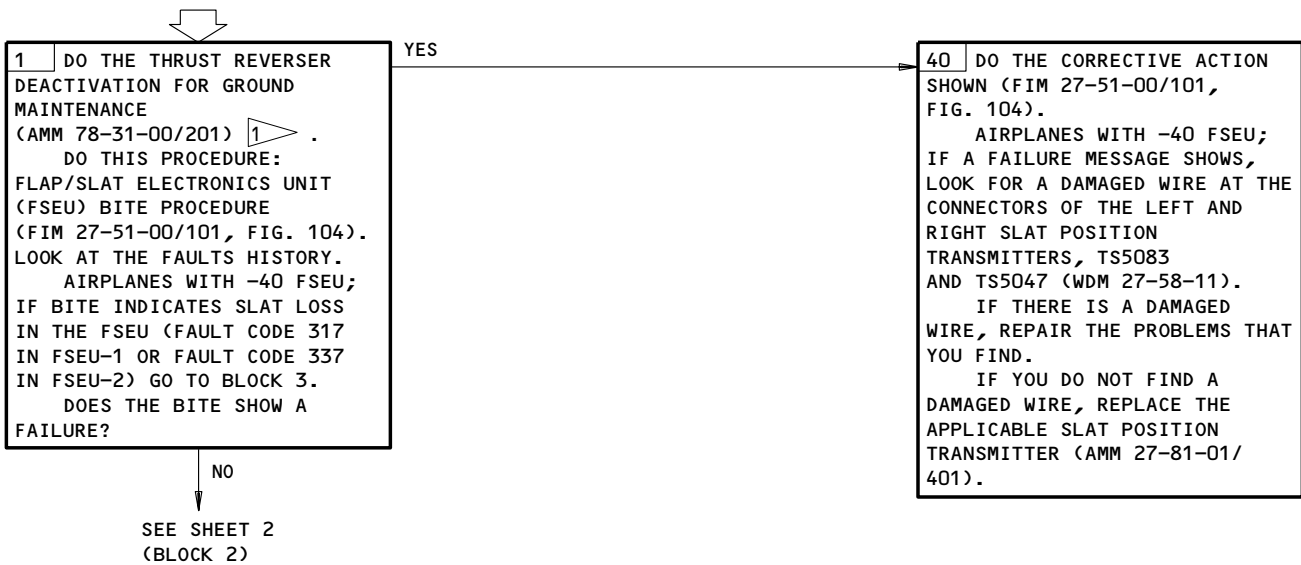
**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C14, 11C15, 11C16, 11G12, 11G13, 11G14, 11G21,  
11G22, 11G23, 11H12, 11H13, 11H14, 11H23, 11H24 OR  
11C17 OR 11C18, 6D20, 6D23

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

**WARNING:** DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.

**EICAS MESSAGE  
"LE SLAT ASYM"  
DISPLAYED**

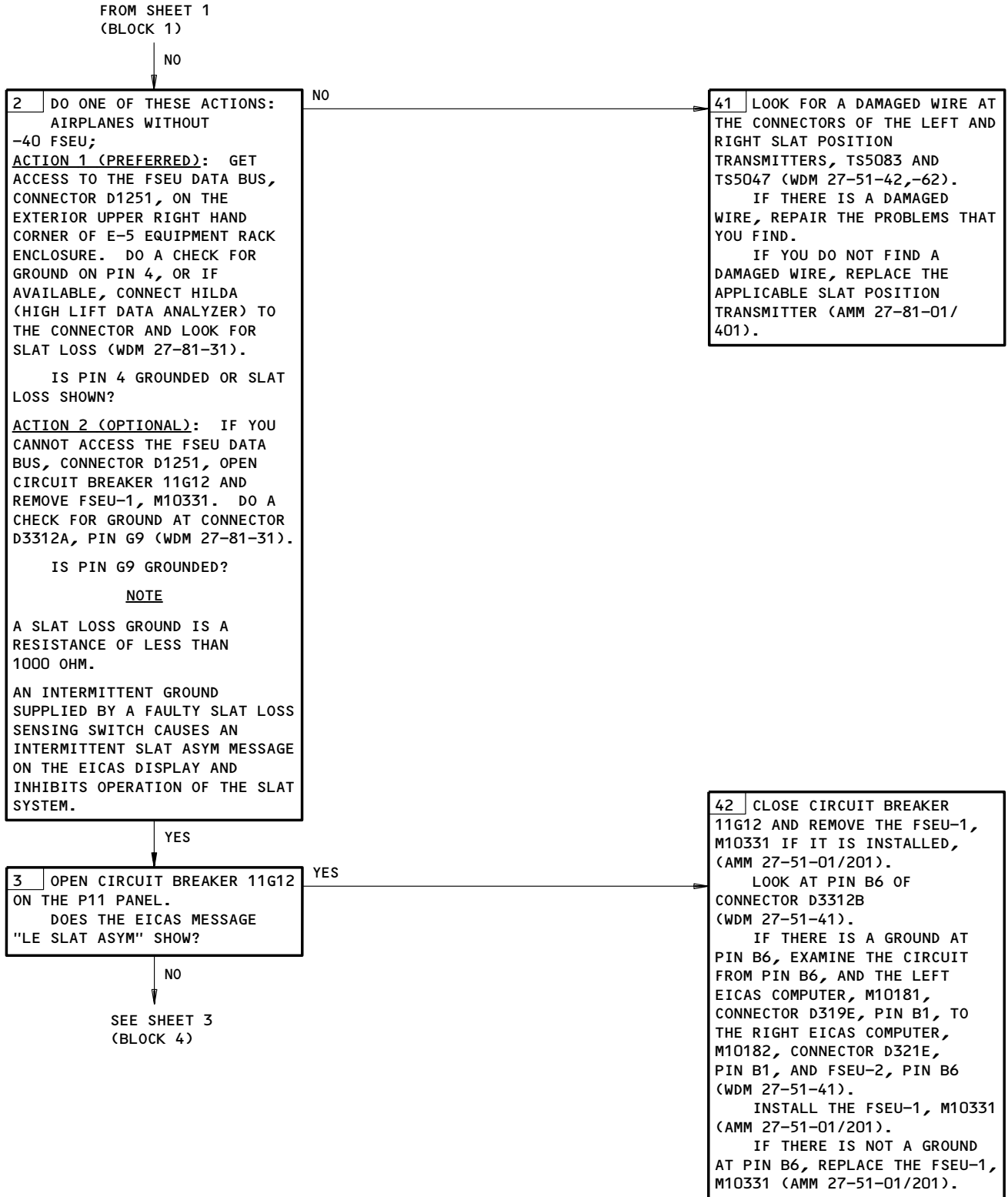


1 DO THE ACTIVATION PROCEDURE FOR THE THRUST REVERSER (AMM 78-31-00/201) AFTER THE FAULT ISOLATION PROCEDURE.

EICAS Message LE SLAT ASYM Displayed  
Figure 105 (Sheet 1)

EFFECTIVITY	ALL
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**27-81-00**



EICAS Message LE SLAT ASYM Displayed  
Figure 105 (Sheet 2)

EFFECTIVITY

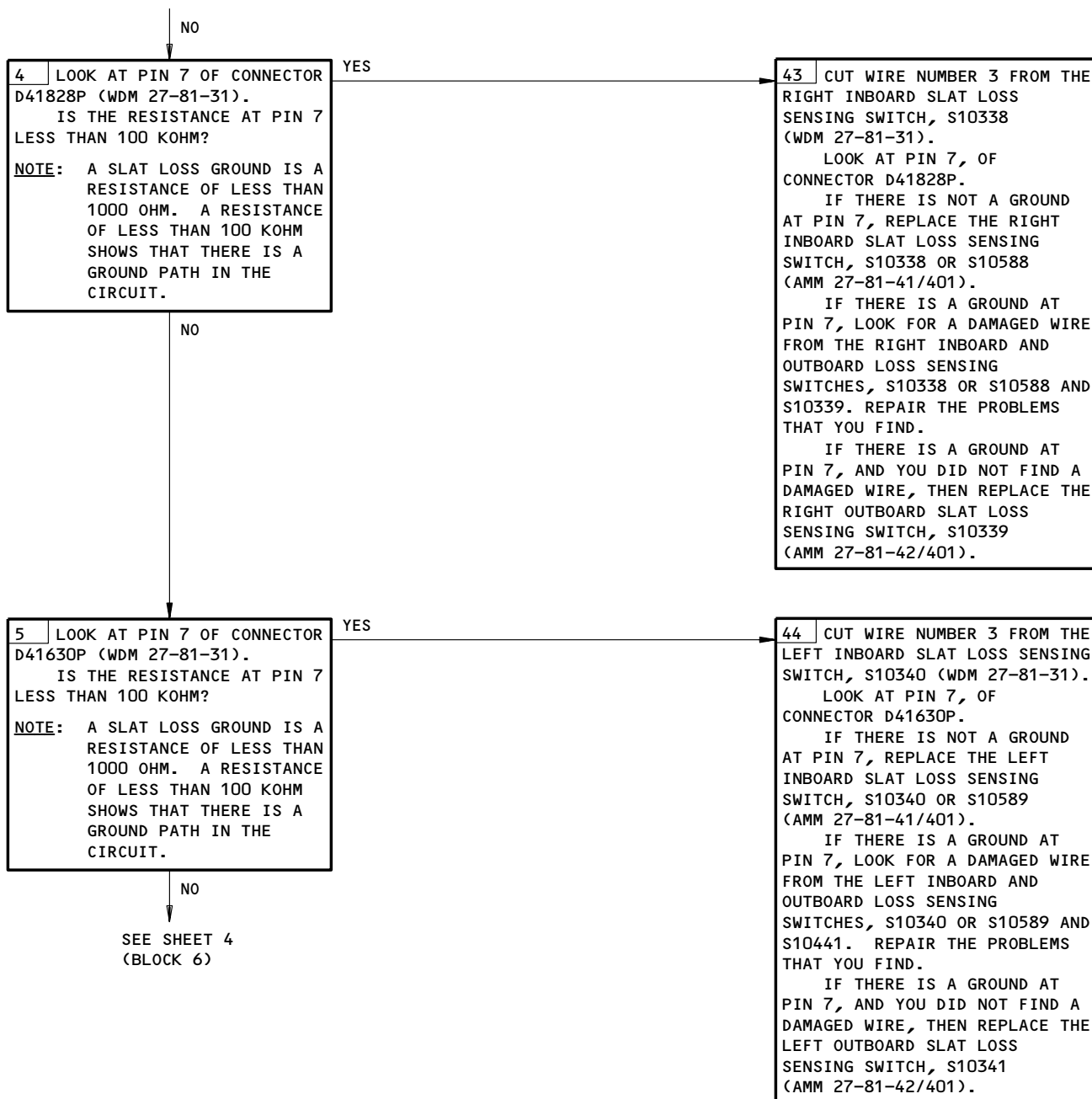
ALL

**27-81-00**

01

Page 123  
Sep 28/99

FROM SHEET 2  
(BLOCK 3)



EICAS Message LE SLAT ASYM Displayed  
Figure 105 (Sheet 3)

EFFECTIVITY

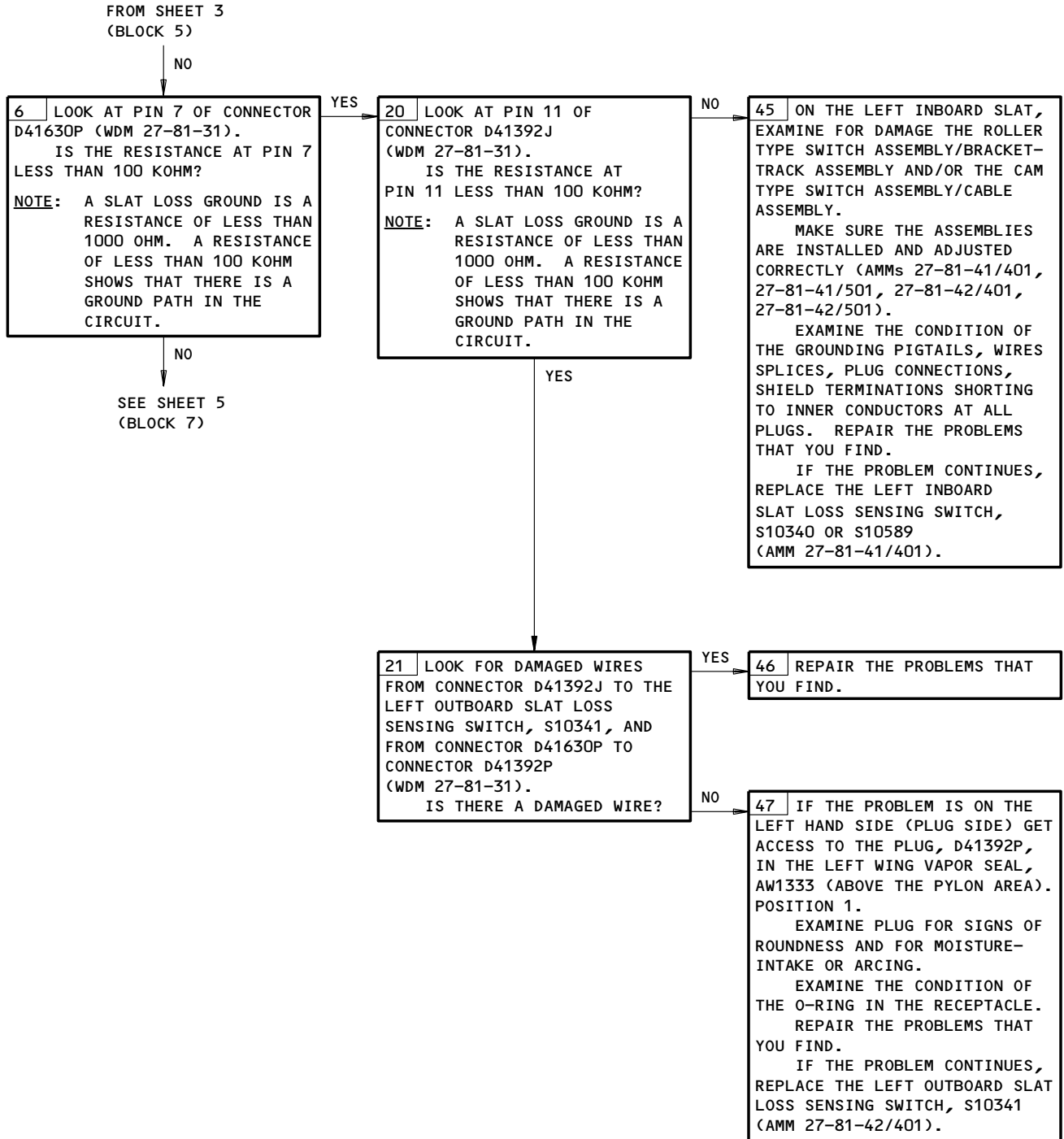
ALL
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27-81-00

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

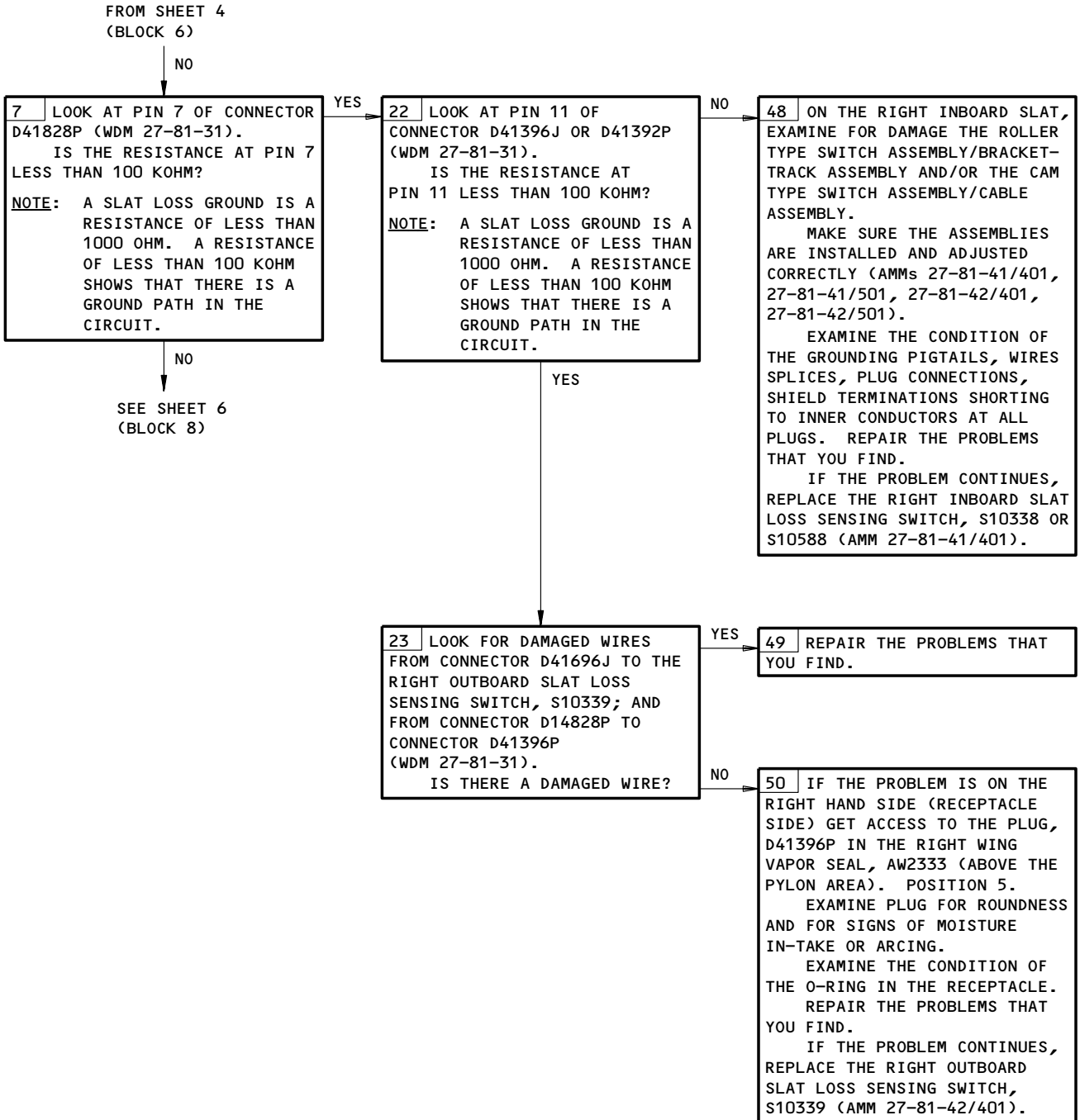


EICAS Message LE SLAT ASYM Displayed  
Figure 105 (Sheet 4)

EFFECTIVITY	ALL
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**27-81-00**

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

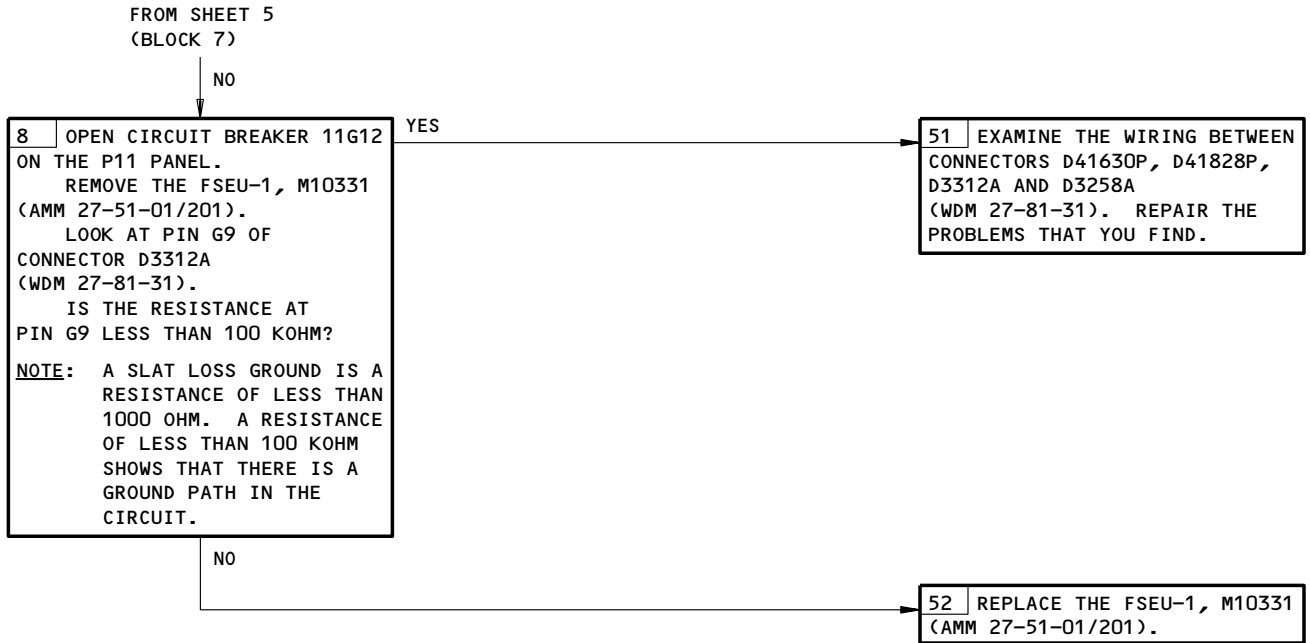


EICAS Message LE SLAT ASYM Displayed  
Figure 105 (Sheet 5)

EFFECTIVITY	ALL
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27-81-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



EICAS Message LE SLAT ASYM Displayed  
Figure 105 (Sheet 6)

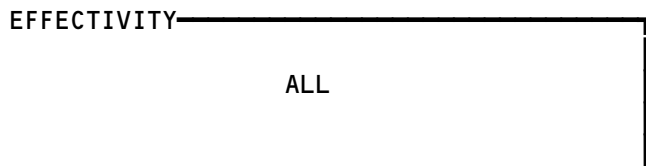
EFFECTIVITY	ALL
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27-81-00

01

Page 127  
Jan 28/03

Not Used  
Figure 106



**27-81-00**

01

Page 128  
Sep 28/99

57167

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:  
HYDRAULIC POWER (AMM 29-11-00/201)  
EICAS (AMM 34-41-00/201)

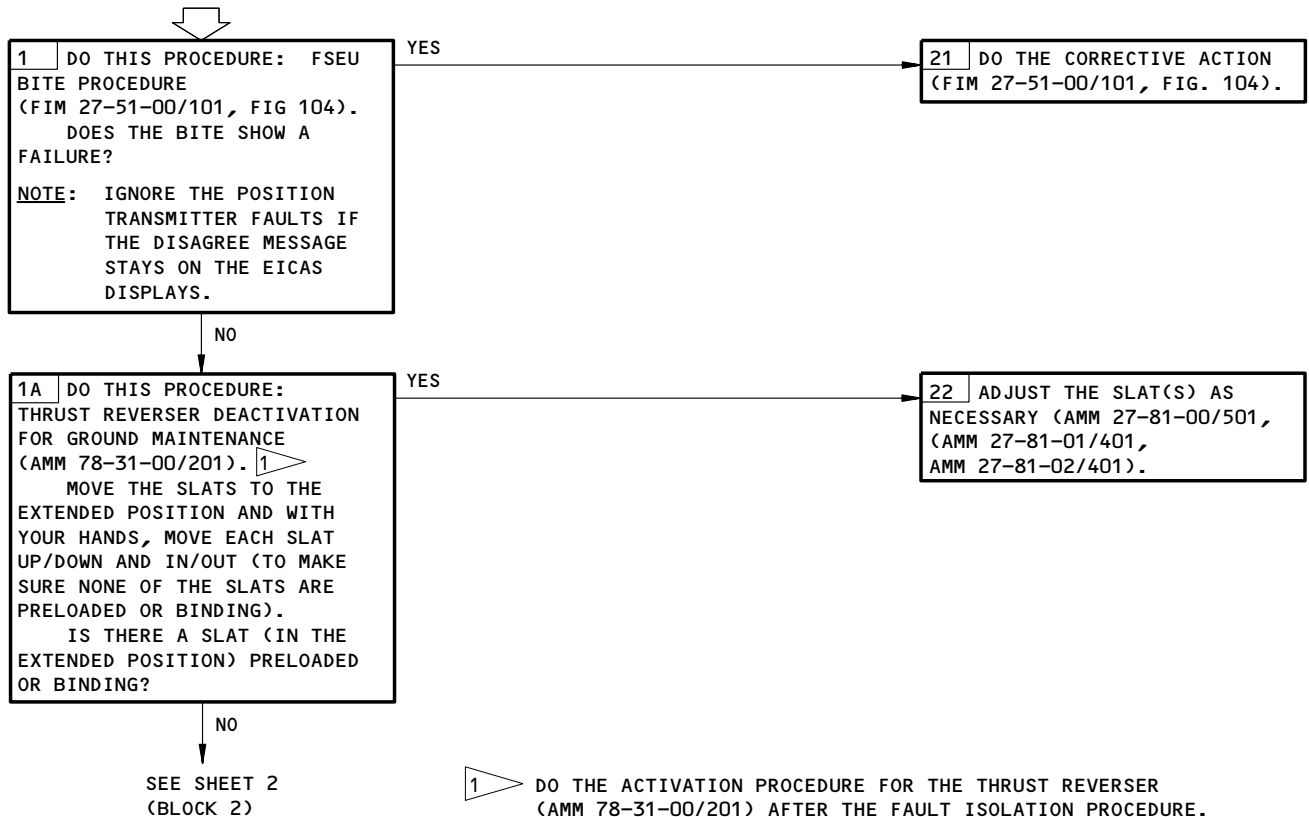
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6D20, 6D23, 11C14, 11C15, 11C16, 11C17, 11G12,  
11G13, 11G14, 11G21, 11G22, 11G23, 11H12, 11H13,  
11H23, 11H24

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

EICAS MESSAGE "LE  
SLAT DISAGREE"  
DISPLAYED WITH  
ROTARY SWITCH IN A  
COMMANDED POSITION  
AND LE ARMING  
SWITCH IN "ALTN"

**WARNING:** DO THE THRUST REVERSER DEACTIVATION  
PROCEDURE TO PREVENT THE OPERATION OF THE  
THRUST REVERSER. THE ACCIDENTAL OPERATION  
OF THE THRUST REVERSER CAN CAUSE INJURIES  
TO PERSONS OR DAMAGE TO EQUIPMENT.

**NOTE:** MAKE SURE A-32 MODE A, -37 MODE A, OR  
-40 FSEU IS INSTALLED IN THE FSEU-1  
POSITION.



EICAS Message LE SLAT DISAGREE Displayed with Rotary Switch in a  
Commanded Position and LE Arming Switch in ALTN  
Figure 107 (Sheet 1)

EFFECTIVITY

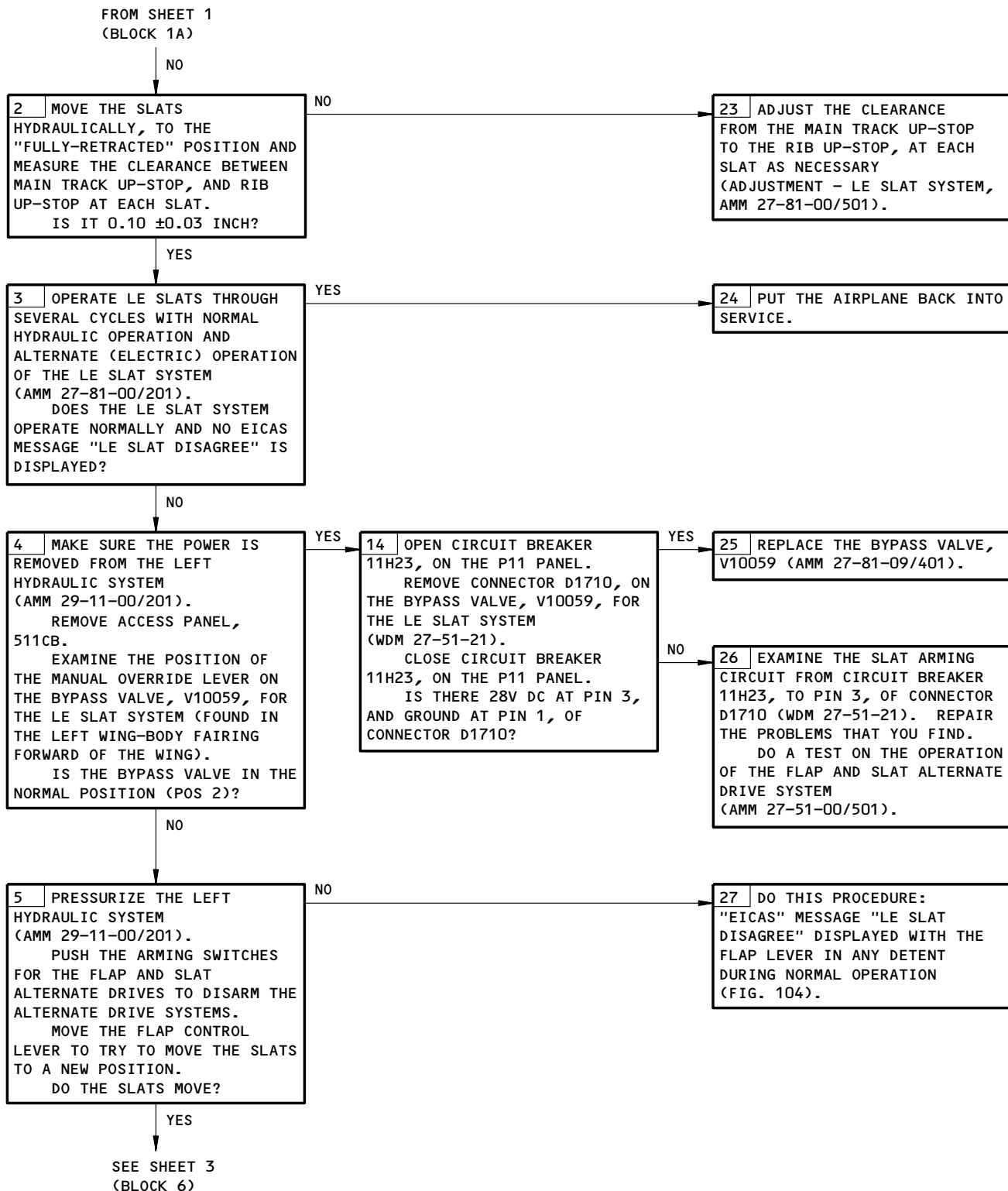
ALL

**27-81-00**

06

Page 129  
Jan 28/05

319273

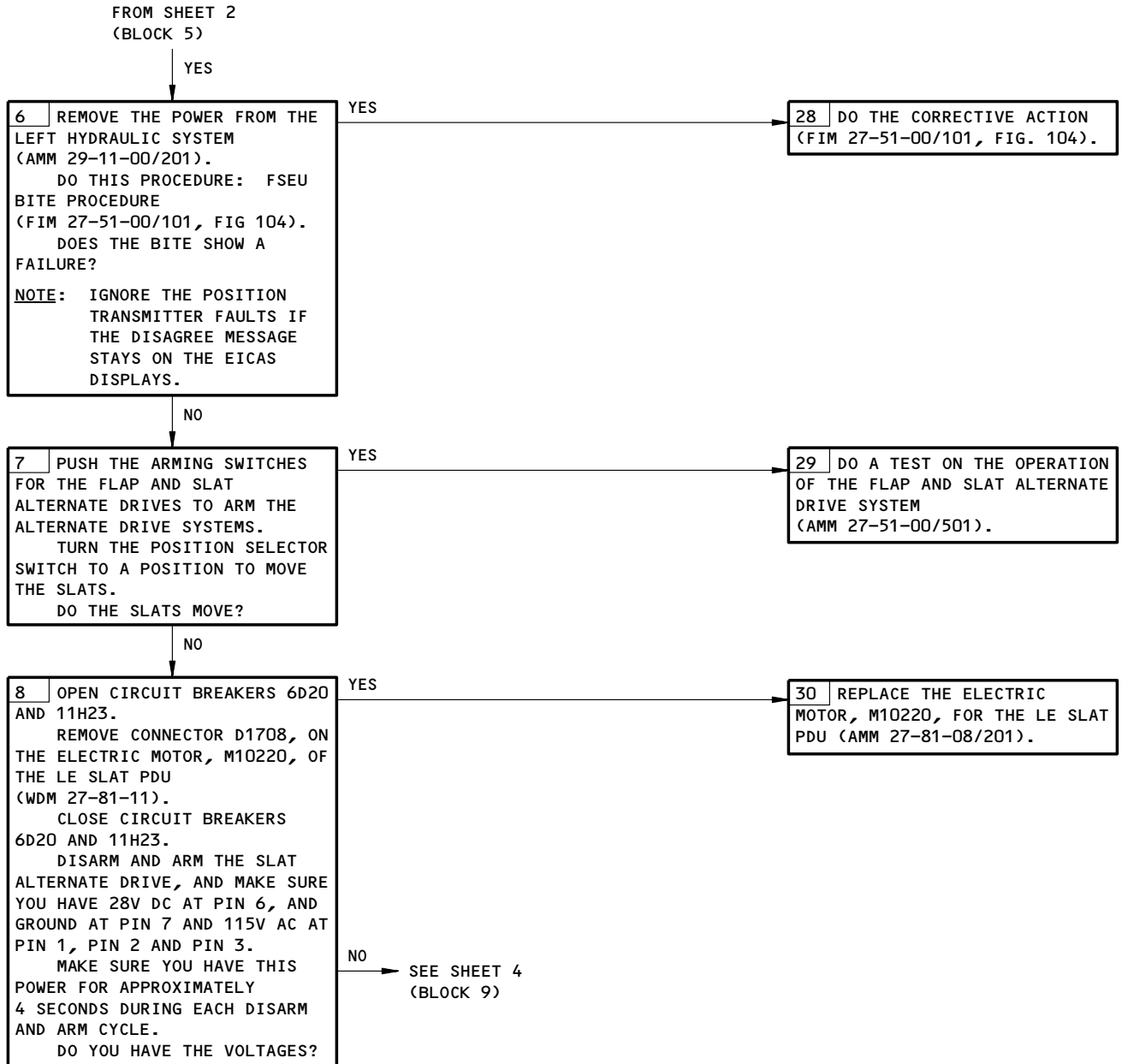


EICAS Message LE SLAT DISAGREE Displayed with Rotary Switch in a  
Commanded Position and LE Arming Switch in ALTN  
Figure 107 (Sheet 2)

EFFECTIVITY

ALL

27-81-00



EICAS Message LE SLAT DISAGREE Displayed with Rotary Switch in a  
 Commanded Position and LE Arming Switch in ALTN  
 Figure 107 (Sheet 3)

EFFECTIVITY

ALL

27-81-00

01

Page 131  
Sep 28/04

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 8)

NO

**9** OPEN CIRCUIT BREAKERS, 11C14, 11C15, 11C16.  
MAKE SURE YOU HAVE 28V DC AT PIN X1, OF RELAY, K10098, ON THE MISCELLANEOUS ELECTRICAL POWER PANEL, P33 (WDM 27-51-21).  
CLOSE CIRCUIT BREAKERS, 11C14, 11C15, 11C16 AND MAKE SURE YOU DO NOT HAVE 28V DC AT PIN X1, OF RELAY, K10098.  
DOES THE 28V DC POWER TEST OPERATE CORRECTLY?

NO

**31** REPLACE THE RELAY, K10494, IN THE P33 PANEL (WDM 27-51-21).  
DO A TEST ON THE OPERATION OF THE FLAP AND SLAT ALTERNATE DRIVE SYSTEM (AMM 27-51-00/501).

YES

**32** REPLACE THE RELAY, K10097, IN THE P33 PANEL (WDM 27-81-11).  
DO A TEST ON THE OPERATION OF THE FLAP AND SLAT ALTERNATE DRIVE SYSTEM (AMM 27-51-00/501).  
IF THE PROBLEM CONTINUES, EXAMINE THE CIRCUIT FROM CONNECTOR D1708, ON THE ELECTRIC MOTOR, M10220, TO THE PRESSURE SEAL (WDM 27-81-11). REPAIR THE PROBLEMS THAT YOU FIND.  
DO A TEST ON THE OPERATION OF THE FLAP AND SLAT ALTERNATE DRIVE SYSTEM (AMM 27-51-00/501).

EICAS Message LE SLAT DISAGREE Displayed with Rotary Switch in a Commanded Position and LE Arming Switch in ALTN  
Figure 107 (Sheet 4)

EFFECTIVITY

ALL

**27-81-00**

01

Page 132  
Sep 28/02

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EICAS MESSAGE  
"LE SLAT DISAGREE"  
DISPLAYED WHEN SLAT  
EXTENSION TO POS 15  
OR WHEN SLAT  
RETRACTION TO "UP"  
(BOTH FLAP POINTERS  
INDICATE "UP") IS  
SELECTED WITH ALTN  
SLAT DRIVE SYSTEM

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:

EICAS (AMM 31-41-00/201)

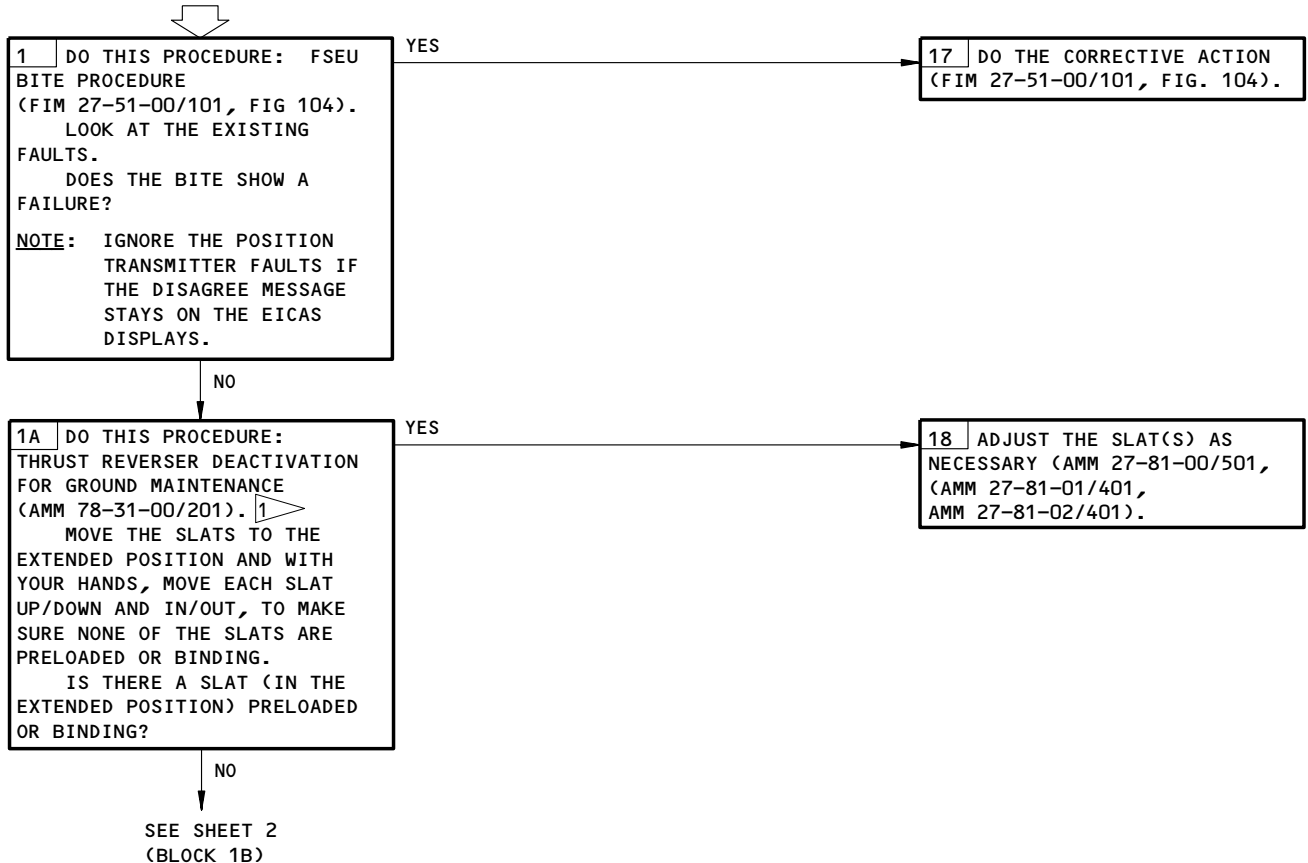
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

6D20, 6D23, 11C14, 11C15, 11C16, 11C17, 11G12,  
11G13, 11G14, 11G21, 11G22, 11G23, 11H12,  
11H13, 11H23, 11H24

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

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

**WARNING:** DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.



1 DO THE ACTIVATION PROCEDURE FOR THE THRUST REVERSER (AMM 78-31-00/201) AFTER THE FAULT ISOLATION PROCEDURE.

EICAS Message LE SLAT DISAGREE Displayed when Slat Extension to Pos 15  
or when Slat Retraction to UP (Both Flap Pointers Indicate UP) is  
Selected with Altn Slat Drive System  
Figure 108 (Sheet 1)

EFFECTIVITY

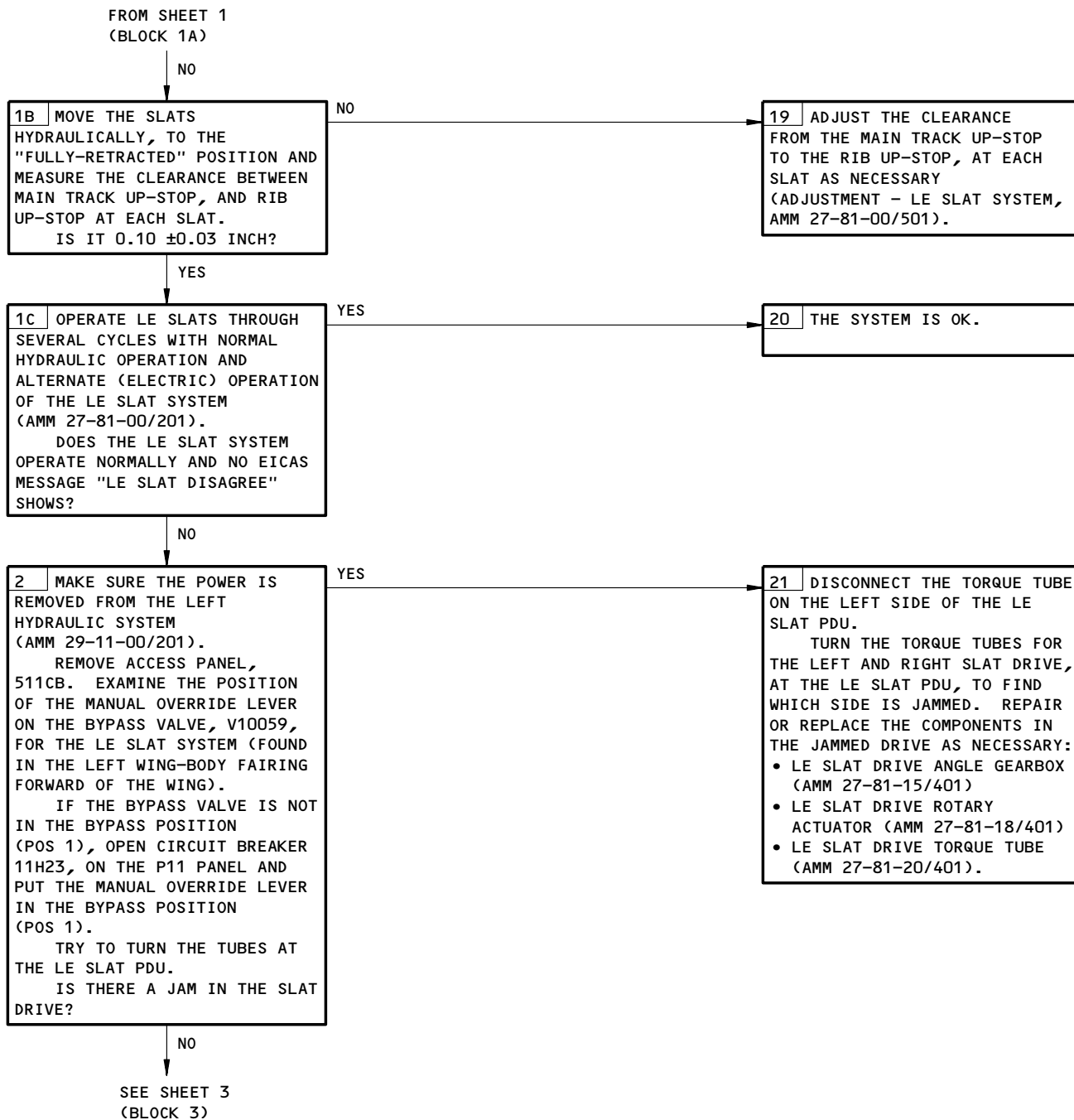
ALL

**27-81-00**

06

Page 133  
Jan 28/05

319277



EICAS Message: LE SLAT DISAGREE Displayed when Slat Extension to Pos 15  
or when Slat Retraction to UP (Both Flap Pointers Indicate UP) is  
Selected with Altn Slat Drive System  
Figure 108 (Sheet 2)

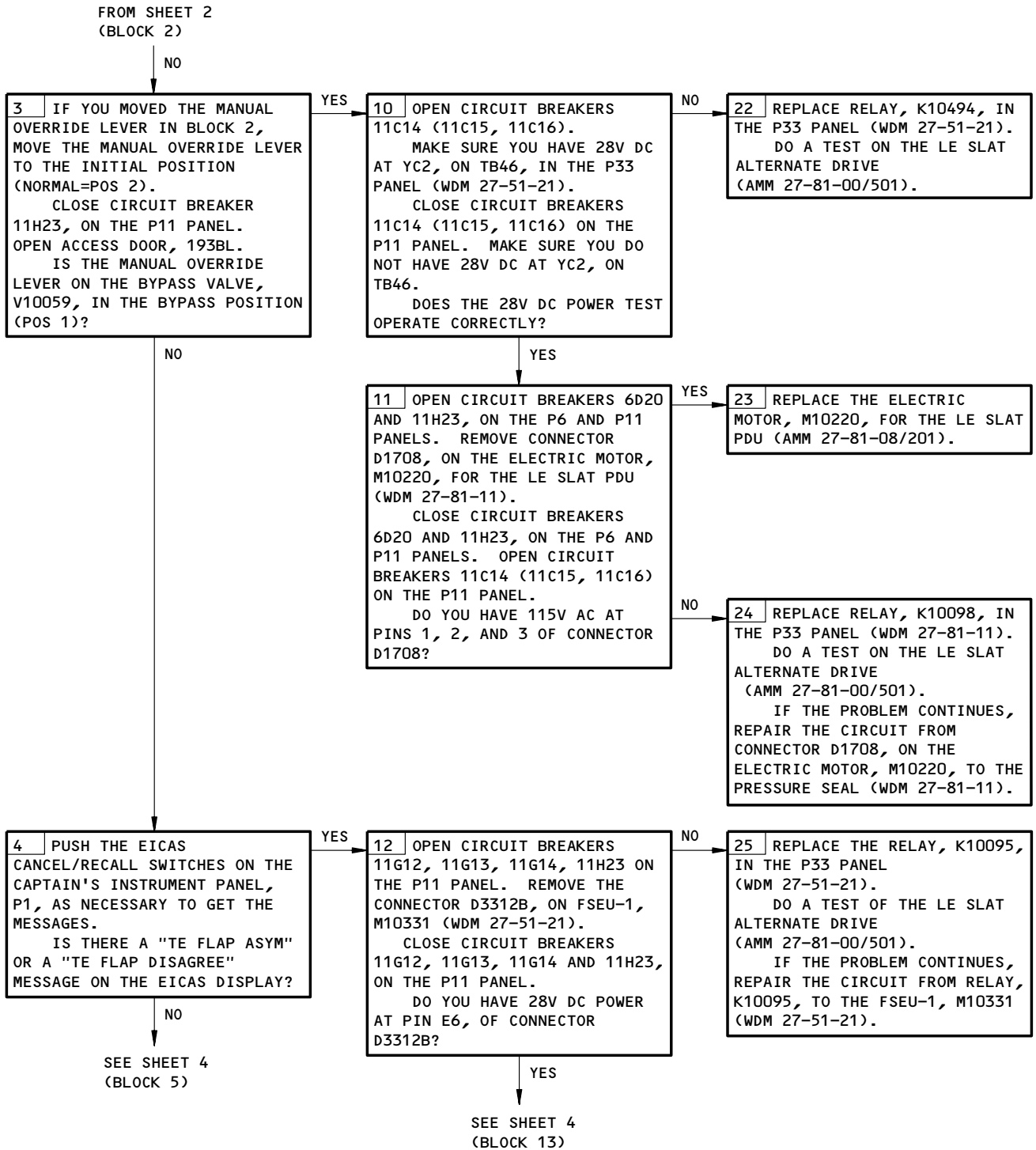
EFFECTIVITY

ALL

**27-81-00**

01

Page 134  
Sep 28/06



**EICAS Message: LE SLAT DISAGREE** Displayed when Slat Extension to Pos 15  
 or when Slat Retraction to UP (Both Flap Pointers Indicate UP) is  
 Selected with Altn Slat Drive System  
 Figure 108 (Sheet 3)

EFFECTIVITY

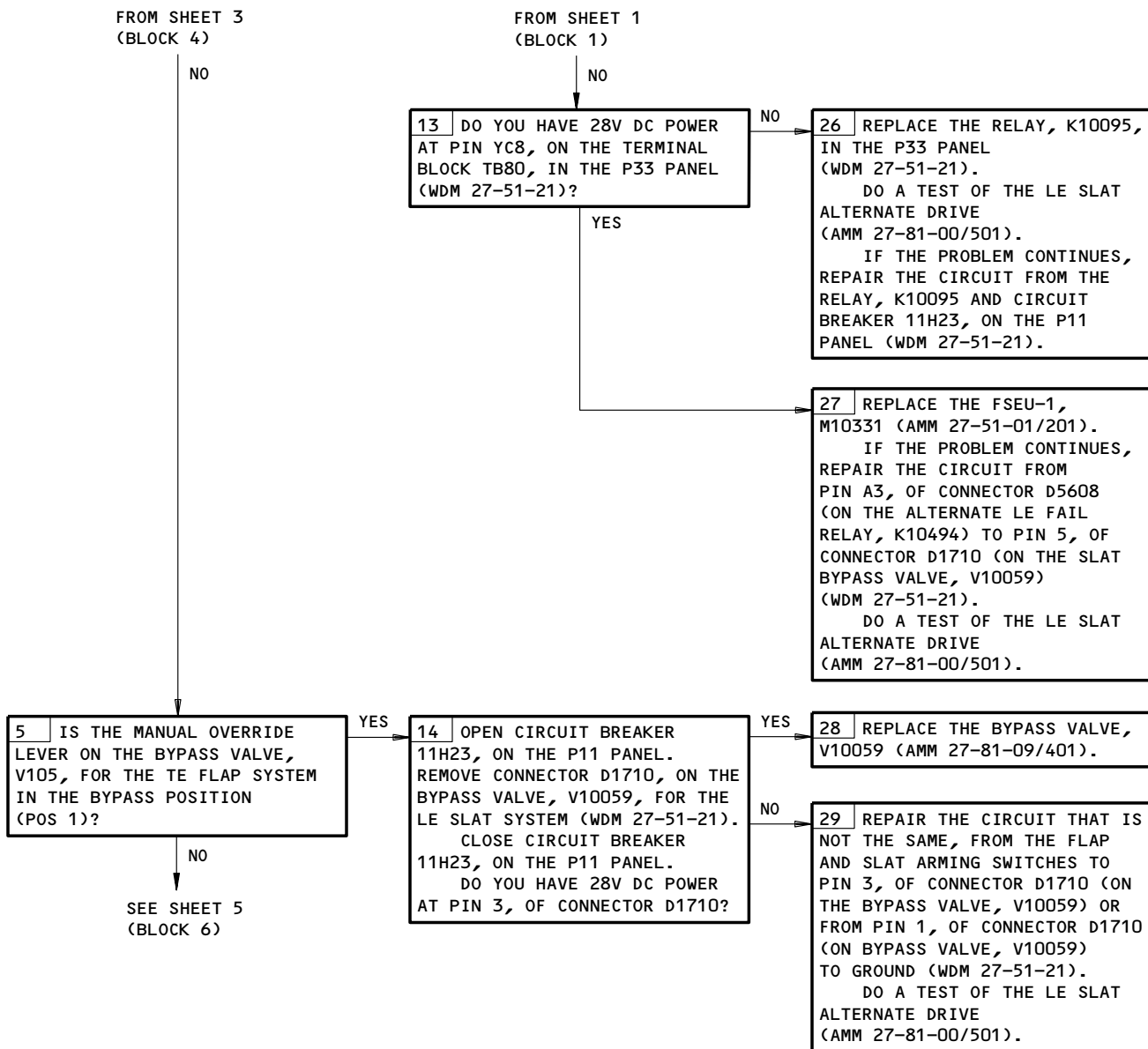
ALL

**27-81-00**

01

Page 135  
Jan 28/05

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



EICAS Message: LE SLAT DISAGREE Displayed when Slat Extension to Pos 15  
or when Slat Retraction to UP (Both Flap Pointers Indicate UP) is  
Selected with Altn Slat Drive System  
Figure 108 (Sheet 4)

EFFECTIVITY

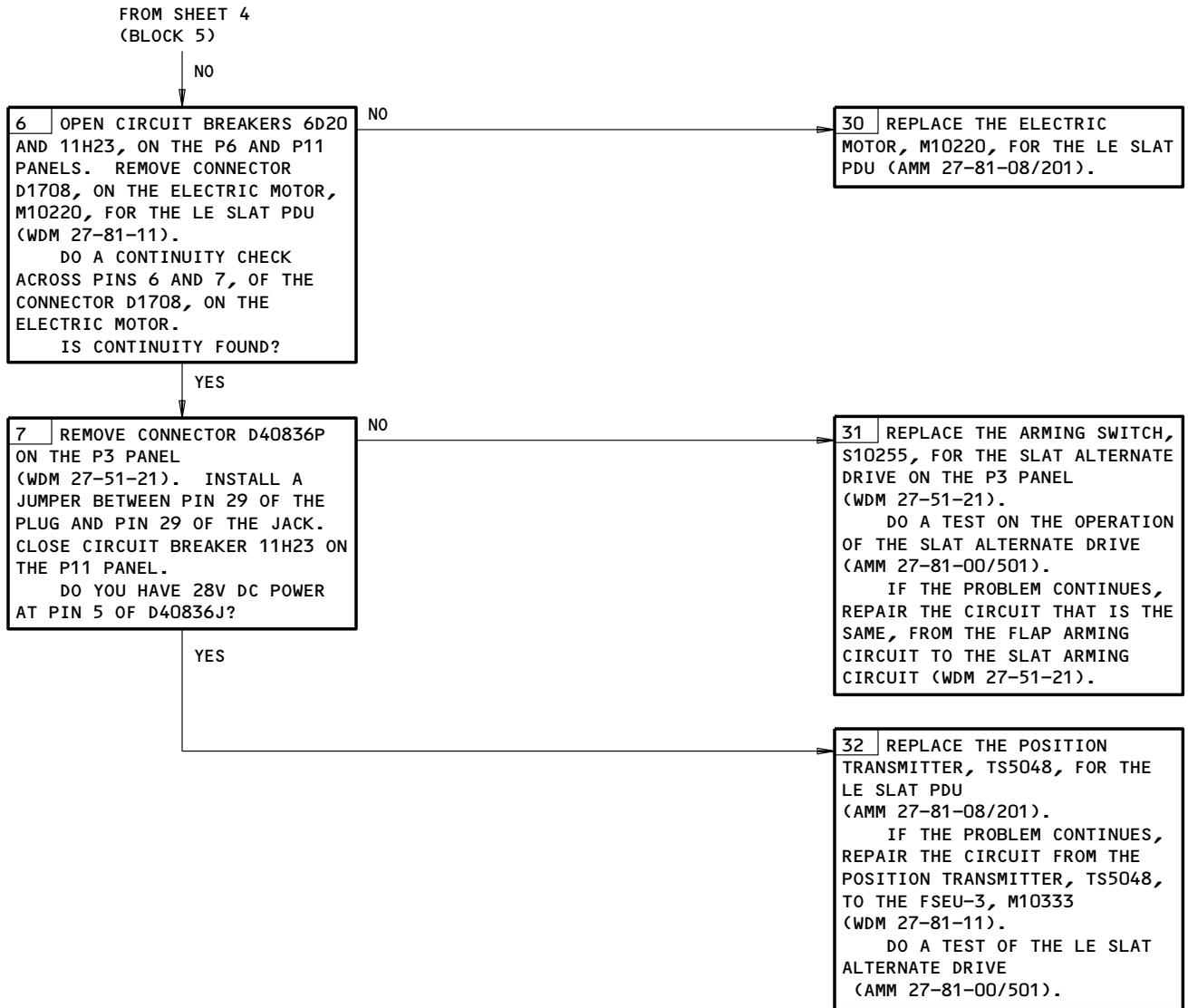
ALL

**27-81-00**

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Page 136  
Sep 28/99

71011



EICAS Message: LE SLAT DISAGREE Displayed when Slat Extension to Pos 15  
 or when Slat Retraction to UP (Both Flap Pointers Indicate UP) is  
 Selected with Altn Slat Drive System  
 Figure 108 (Sheet 5)

EFFECTIVITY	ALL
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27-81-00

**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
 LEFT HYDRAULIC SYSTEM (MM 29-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 11B18,11C11,11C14,11C15,11C16,11C17,11G12,11G13,  
 11G14,11H23,11H24,11J21,11J33

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

**WARNING:** DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.

KEEP PERSONS AND EQUIPMENT AWAY FROM ALL CONTROL SURFACES WHEN HYDRAULIC POWER IS SUPPLIED. AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, AND STABILIZER ARE FULLY POWERED SURFACES. INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN HYDRAULIC POWER IS SUPPLIED.

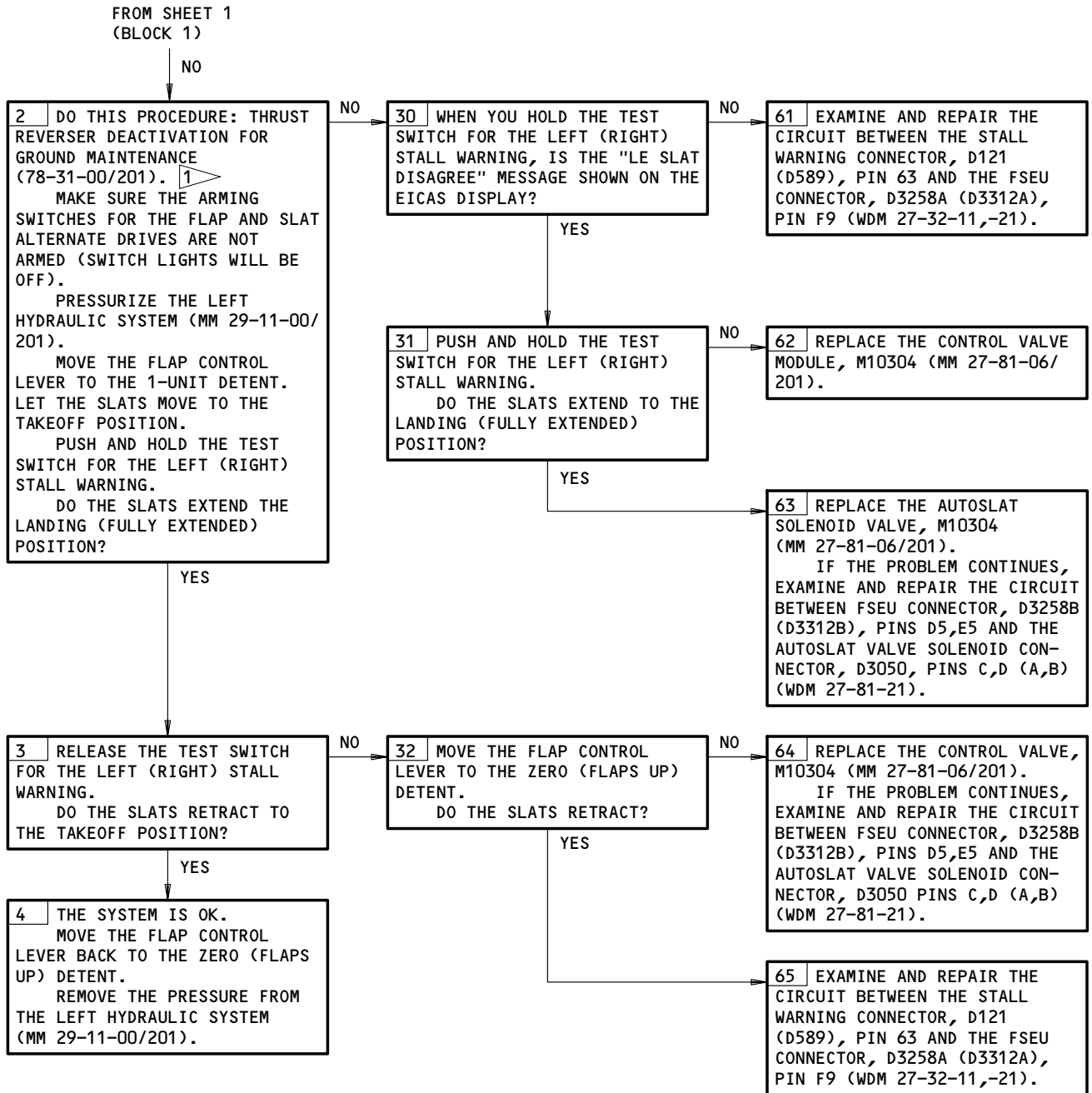
**SLATS FAILED TO EXTEND OR RETRACT WHEN TESTED (STALL WARNING)**



Slats Failed To Extend Or Retract When Tested (Stall Warning)  
 Figure 109 (Sheet 1)

EFFECTIVITY	ALL
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**27-81-00**



1 DO THE ACTIVATION PROCEDURE FOR THE THRUST REVERSER (MM 78-31-00/201) AFTER THE FAULT ISOLATION PROCEDURE.

Slats Failed To Extend Or Retract When Tested (Stall Warning)  
Figure 109 (Sheet 2)

EFFECTIVITY	ALL
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**27-81-00**

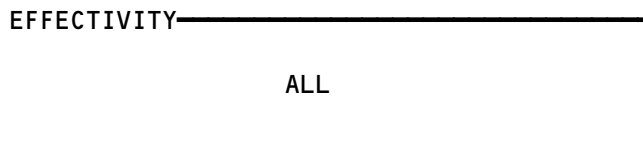
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

LEADING EDGE SLAT POSITION INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS	-		FLIGHT COMPARTMENT, P11 PANEL	
FLAP LOAD RELIEF, C1022		1	11J18	*
FLAP POS IND LEFT, C1008		1	11H12	*
FLAP POS IND RIGHT, C1522		1	11H13	*
FLAP SLAT ELEC UNIT 1 CONT, C1539		1	11G13	*
FLAP SLAT ELEC UNIT 1 POWER, C1025		1	11G12	*
FLAP SLAT ELEC UNIT 1 SENSOR, C1037		1	11G14	*
FLAP SLAT ELEC UNIT 2 CONT, C1541		1	11C15	*
FLAP SLAT ELEC UNIT 2 POWER, C1521		1	11C14	*
FLAP SLAT ELEC UNIT 2 SENSOR, C1524		1	11C16	*
FLAP SLAT ELEC UNIT 3 CONT, C1540		1	11G22	*
FLAP SLAT ELEC UNIT 3 POWER, C4210		1	11G21	*
FLAP SLAT ELEC UNIT 3 SENSOR, C1038		1	11G23	*
FLAP SLAT SHUTOFF 1		1	11C17	*
RELAY - (REF 31-01-36, FIG. 101) LE/TE TRANSFER, K10244				
TRANSMITTER - LE SLAT POSITION, TS5047, TS5083	-	2	521RB (LEFT), 621RB (RIGHT)	27-88-01
UNIT - (REF 27-51-00, FIG. 101) FLAP/SLAT ELECTRONIC-1, M10331				

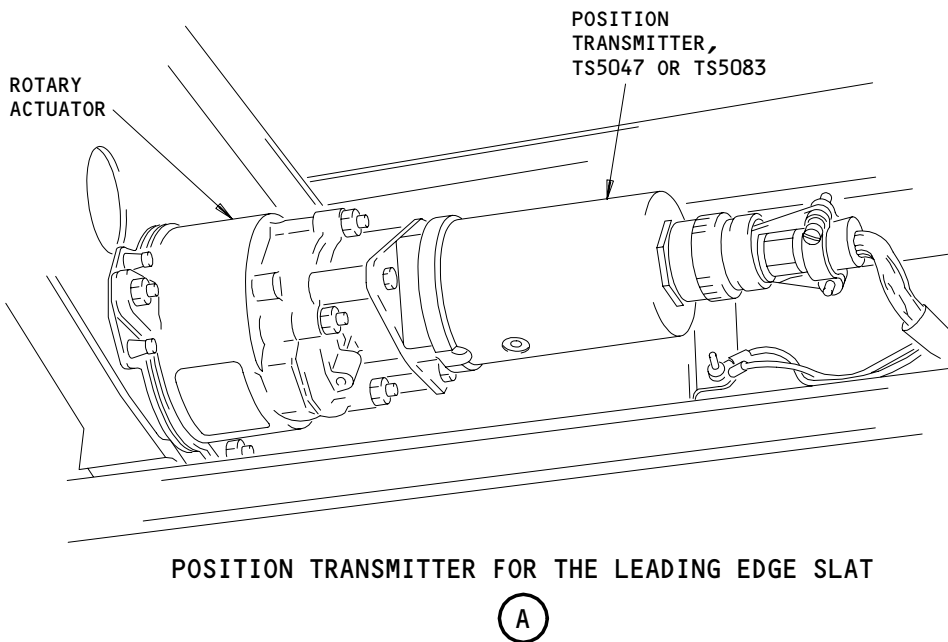
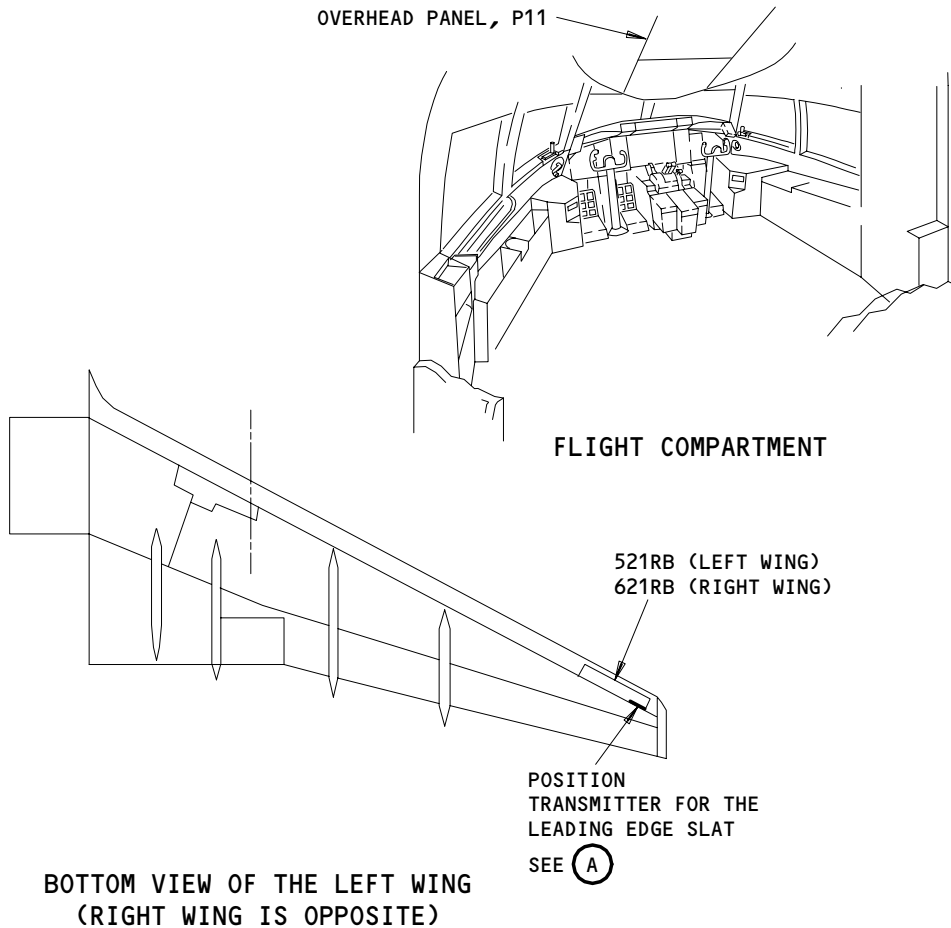
\* SEE THE WDM EQUIPMENT LIST

Leading Edge Slat Position Indicating System - Component Index  
Figure 101



**27-88-00**



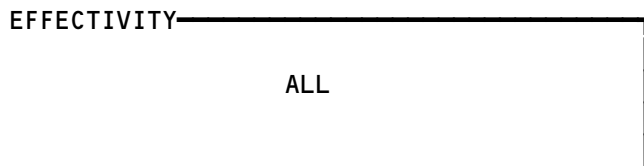


Leading Edge Slat Position Indicating System - Component Location  
Figure 102

EFFECTIVITY	
	ALL

27-88-00

Not Used  
Figure 103



27-88-00

01

Page 103  
Dec 20/96

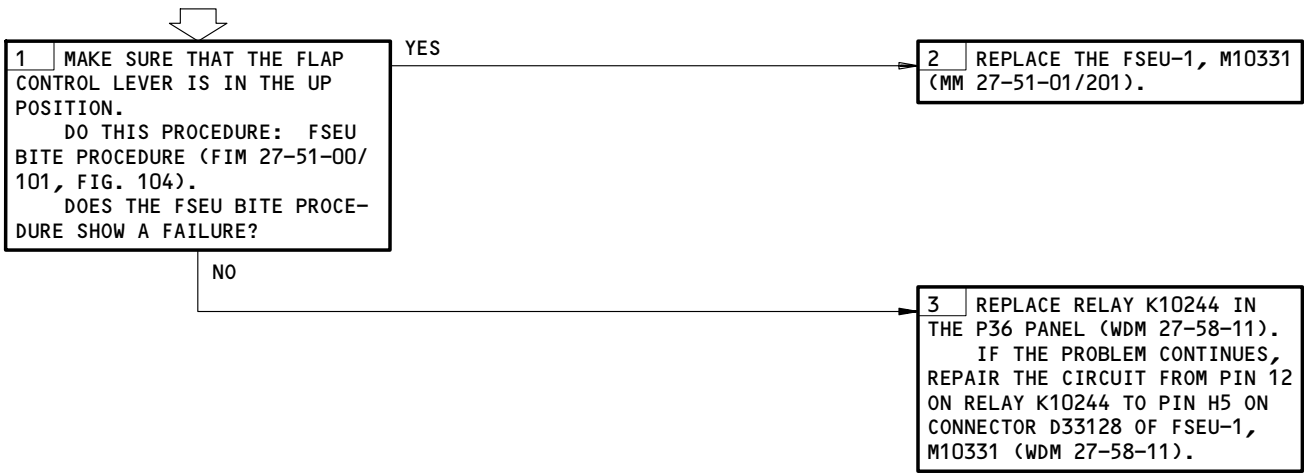
55500

BOTH FLAP POINTERS  
 ARE ON 1/2 WITH THE  
 FLAP LEVER IN UP.  
 NO LEADING EDGE  
 EICAS MESSAGES ARE  
 DISPLAYED.

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 11C14,11C15,11C16,11C17,11G12,11G13,11G14,11G21,  
 11G22,11G23,11H12,11H13,11H14,11J18

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



Both Flap Pointers Are on 1/2 with the Flap Lever in UP.  
 No Leading Edge EICAS Messages Are Displayed.

Figure 104

EFFECTIVITY	ALL
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**27-88-00**

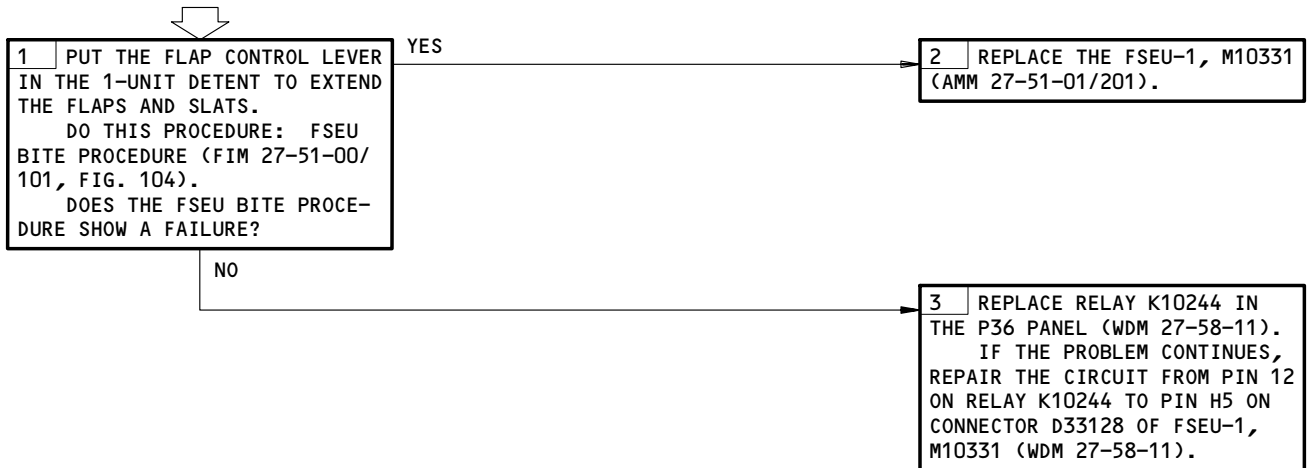
E50521

BOTH FLAP POINTERS INDICATE 1/2 WITH THE FLAP LEVER IN 1. NO LEADING EDGE EICAS MESSAGES ARE DISPLAYED.

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11C14,11C15,11C16,11C17,11G12,11G13,11G14,11G21,  
11G22,11G23,11H12,11H13,11H14,11J18

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)



Both Flap Pointer Indicate 1/2 with the Flap Lever in 1.  
No Leading Edge EICAS Messages Are Displayed.  
Figure 105

EFFECTIVITY	ALL
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**27-88-00**