


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

## Scandinavian Airlines System

PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
CHAPTER 49 TAB			49-11-00			49-11-00		
AIRBORNE AUXILIARY POWER			101	NOV 10/94	01A	159	DEC 22/04	CONT.
EFFECTIVE PAGES			102	NOV 10/94	01A	160	DEC 22/06	01A
SEE LAST PAGE OF LIST FOR			103	APR 22/00	02A	161	APR 22/09	01A
NUMBER OF PAGES			104	DEC 22/07	01A	162	APR 22/08	01A
49-CONTENTS			105	AUG 22/02	01A	163	DEC 22/06	01A
1	AUG 22/99	01	106	APR 22/00	02A	164	DEC 22/06	01A
2	DEC 22/06	SAS	107	AUG 22/00	02A	165	DEC 22/06	01A
3	DEC 22/06	SAS	108	APR 22/08	01A	166	DEC 22/06	01A
4	DEC 22/06	SAS	109	AUG 22/01	02A	167	DEC 22/06	01A
5	APR 22/00	SAS	110	NOV 10/95	01A	168	DEC 22/06	01A
6	APR 22/00	SAS	111	APR 22/05	01A	169	DEC 22/06	01A
49-HOW TO USE THE FIM			112	NOV 10/94	01A	170	DEC 22/06	01A
1	AUG 22/99	01	113	APR 22/00	01A	171	DEC 22/06	01A
2	AUG 22/99	01	114	APR 22/00	02A	172	DEC 22/06	01A
3	AUG 22/99	01	115	APR 22/00	01A	173	DEC 22/06	01A
4	AUG 22/99	01	116	APR 22/00	01A	174	DEC 22/06	01A
5	AUG 22/99	01	117	APR 22/00	02A	175	APR 22/08	01A
6	AUG 22/99	01	118	APR 22/00	02A	176	DEC 22/06	01A
49-INDEX			119	APR 22/00	01A	177	DEC 22/06	01A
1	FEB 10/91	01	120	APR 22/05	01A	178	APR 22/08	01A
2	MAY 10/96	13	121	APR 22/00	01A	179	DEC 22/06	01A
49-EICAS MESSAGES			122	APR 22/06	01A	180	DEC 22/06	01A
1	FEB 10/91	01	123	DEC 22/06	01A	180A	DEC 22/06	01A
2	AUG 22/99	01	124	DEC 22/07	01A	180B	DEC 22/06	01A
3	AUG 22/03	01	125	AUG 22/01	02A	180C	DEC 22/06	01A
4	BLANK		126	APR 22/00	02A	180D	DEC 22/06	01A
49-FAULT CODE DIAGRAM			127	APR 22/08	01A	180E	DEC 22/06	01A
1	DEC 22/00	01	128	APR 22/04	01A	180F	DEC 22/06	01A
2	DEC 22/00	04	129	APR 22/09	02A	180G	DEC 22/06	01A
3	DEC 22/00	01	130	APR 22/00	02A	180H	DEC 22/06	01A
4	NOV 01/84	01	131	APR 22/00	02A	180I	DEC 22/06	01A
5	DEC 22/00	01	132	APR 22/00	02A	180J	DEC 22/06	01A
6	NOV 01/84	01	133	APR 22/05	02A	180K	DEC 22/06	01A
7	MAY 01/86	04	134	APR 22/00	02A	180L	APR 22/07	01A
8	BLANK		135	APR 22/07	01A	180M	APR 22/07	01A
49-FAULT CODE INDEX			136	APR 22/04	01A	180N	DEC 22/06	01A
1	MAY 10/96	01	137	APR 22/00	02A	180O	DEC 22/06	01A
2	DEC 22/02	01	138	APR 22/05	01A	180P	DEC 22/06	01A
3	APR 22/08	01	139	APR 22/08	01A	180Q	DEC 22/06	01A
4	MAY 10/96	07	140	APR 22/05	01A	180R	APR 22/08	01A
5	AUG 22/01	09	141	APR 22/05	01A	180S	DEC 22/06	01A
6	DEC 22/04	01	142	APR 22/05	01A	180T	DEC 22/06	01A
49-BITE INDEX			143	APR 22/05	01A	180U	DEC 22/06	01A
1	AUG 22/99	01	144	APR 22/05	01A	180V	DEC 22/06	01A
2	DEC 22/07	01	145	APR 22/05	01A	180W	DEC 22/06	01A
3	AUG 22/99	01	146	APR 22/05	01A	180X	DEC 22/06	01A
4	BLANK		147	APR 22/08	01A	180Y	DEC 22/06	01A
			148	APR 22/08	02A	180Z	DEC 22/06	01A
			149	DEC 22/04	02A	181	DEC 22/06	01A
			150	DEC 22/04	01A	182	BLANK	
			151	DEC 22/04	01A	49-13-00		
			152	DEC 22/04	01A	101	AUG 10/94	01
			153	DEC 22/04	01A	102	AUG 22/99	01
			154	DEC 22/04	01A			
			155	DEC 22/04	01A			
			156	DEC 22/04	01A			
			157	APR 22/08	01A			
			158	DEC 22/04	01A			

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

# D633T633

 CHAPTER 49  
 EFFECTIVE PAGES  
 PAGE 1  
 CONTINUED



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

Scandinavian Airlines System

PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
49-15-00			49-81-00					
101	FEB 10/92	01	101	APR 22/99	02			
102	FEB 10/92	02	102	APR 22/99	02			
49-16-00			49-94-00					
101	DEC 22/07	06	101	AUG 22/99	03			
102	FEB 10/92	01	102	MAY 10/94	02			
103	DEC 22/07	05						
104	BLANK							
49-27-00								
101	APR 22/99	08						
102	DEC 22/04	03						
103	APR 22/99	04						
104	FEB 10/92	04						
105	APR 22/99	06						
106	BLANK							
49-31-00								
101	FEB 10/92	01						
102	FEB 10/92	01						
103	FEB 10/92	01						
104	BLANK							
49-41-00								
101	AUG 22/99	08						
102	APR 22/99	04						
103	APR 22/99	03						
104	DEC 22/08	02						
49-51-00								
101	DEC 22/00	01						
102	DEC 22/00	01						
49-52-00								
101	FEB 10/92	01						
102	FEB 10/92	01						
49-53-00								
101	AUG 10/91	01						
102	AUG 22/04	01						
103	AUG 22/04	01						
104	BLANK							
49-61-00								
101	FEB 10/92	01						
102	FEB 10/92	01						
49-71-00								
101	AUG 10/94	01						
102	DEC 22/04	01						
49-72-00								
101	AUG 22/03	01						
102	APR 22/99	02						

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 F = FOLDOUT PAGE  
 33  
 AUG 22/09

**D633T633**

CHAPTER 49  
 EFFECTIVE PAGES  
 PAGE 2  
 LAST PAGE



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 49 - AIRBORNE AUXILIARY POWER

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
HOW TO USE THE FIM	49-HOW TO USE THE FIM	1	ALL
INDEX	49-INDEX	1	ALL
EICAS MESSAGES	49-EICAS MESSAGES	1	ALL
FAULT CODE DIAGRAMS	49-FAULT CODE DIAGRAM	1	ALL
FAULT CODE INDEX	49-FAULT CODE INDEX	1	ALL
BITE INDEX	49-BITE INDEX	1	ALL

49-CONTENTS

01

Page 1  
Aug 22/99



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 49 - AIRBORNE AUXILIARY POWER

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>AIRBORNE AUXILIARY POWER</u>	49-00-00		
<u>POWER PLANT</u>	49-10-00		
UNIT - AUXILIARY POWER	49-11-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
(NOT USED) (Fig. 114)		153	
Auto Shutdown - DC PWR LOSS on BITE (Fig. 138)		181	
Auto Shutdown - EGT OVERTEMP on BITE (Fig. 113)		150	
Auto Shutdown - GEN FILTER on BITE (Fig. 112)		148	
Auto Shutdown - HIGH OIL TEMP on BITE (Fig. 110)		143	
Auto Shutdown - LOW OIL PRESSURE on BITE (Fig. 109)		138	
Auto Shutdown - NO LIGHT OFF on BITE (Fig. 107)		133	
Auto Shutdown - NORMAL STOP SIG on BITE (Fig. 133)		180T	
Auto Shutdown - OVER SPEED on BITE (Fig. 111)		147	
Auto Shutdown - START ABORTED on BITE (Fig. 105)		122	
Auto Shutdown - UNDER SPEED on BITE (Fig. 106)		126	
Auto Shutdown During Governed Speed - REVERSE FLOW on BITE (Fig. 108)		136	
APU BITE Procedure (Fig. 103)		103	
APU Starting Problems (Fig. 104)		114	
APU Will Not Carry Pneumatic and Electrical Load Associated with RPM Droop (Fig. 117)		158	
EICAS Msg APU OIL QTY Displayed (Fig. 116)		156	

49-CONTENTS

SAS

Page 2  
Dec 22/06



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 49 - AIRBORNE AUXILIARY POWER

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
Faulty LRU - #1 SPD SENSOR on BITE (Fig. 136)		180W	
Faulty LRU - #2 SPD SENSOR on BITE (Fig. 137)		180Y	
Faulty LRU - A/C STRT CIRCUIT on BITE (Fig. 106A)		129	
Faulty LRU - A/C STRT CIRCUIT on BITE (Fig. 106B)		131	
Faulty LRU - APU STARTER on BITE (Fig. 129)		180J	
Faulty LRU - Delta P SENSOR on BITE (Fig. 125)		180C	
Faulty LRU - ECU on BITE (Fig. 131)		180N	
Faulty LRU - EGT #1 CIRCUIT on BITE (Fig. 134)		180U	
Faulty LRU - EGT #2 CIRCUIT on BITE (Fig. 135)		180V	
Faulty LRU - FUEL CONTROL on BITE (Fig. 126)		180E	
Faulty LRU - FUEL SOL on BITE (Fig. 123)		180	
Faulty LRU - IGN UNIT on BITE (Fig. 128)		180I	
Faulty LRU - IGV ACT on BITE (Fig. 127)		180F	
Faulty LRU - INLET DOOR RLY on BITE (Fig. 132)		180S	
Faulty LRU - PT SENSOR on BITE (Fig. 124)		180A	
Faulty LRU - P2 SENSOR on BITE (Fig. 130)		180L	
Fluctuating Duct Pressure (Fig. 119)		161	
Fluids Coming from Drain Mast (Fig. 121)		178	
Fumes in Cabin (Fig. 122)		179	
High Oil Consumption (Fig. 115)		154	
Low Duct Pressure (Fig. 120)		164	

49-CONTENTS

SAS

Page 3  
Dec 22/06



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 49 - AIRBORNE AUXILIARY POWER

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
Low Duct Pressure in ALL Operational Modes: ECS, MES and Duct Pressurization (Fig. 120C)		170	
Low Duct Pressure in Duct Pressurization Mode (3-25 PSIG) (Fig. 120B)		168	
Low Duct Pressure in MES Mode Only (Fig. 120E)		176	
Low Duct Pressure During One or Two ECS Pack Operation Only (Fig. 120D)		174	
No Duct Pressure (0-2 PSIG) (Fig. 118)		159	
<u>MOUNTS - APU</u>	49-13-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>INTAKE - AIR</u>	49-15-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>DRAINS AND VENTS - APU</u>	49-16-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>ENGINE</u>	49-20-00		
<u>SYSTEM - APU AND GENERATOR</u>	49-27-00		
<u>LUBRICATION</u>			
Component Location		101	ALL
Component Index			
Component Location			
<u>ENGINE FUEL AND CONTROL</u>	49-30-00		
<u>SYSTEM - APU FUEL</u>	49-31-00		
Component Location		101	ALL
Component Index			
Component Location			

49-CONTENTS

SAS

Page 4  
Dec 22/06



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 49 - AIRBORNE AUXILIARY POWER

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>IGNITION/STARTING</u>	49-40-00		
SYSTEM - APU IGNITION AND STARTING	49-41-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>AIR</u>	49-50-00		
SYSTEM - APU COOLING AIR	49-51-00		
Component Location		101	ALL
Component Index			
Component Location			
SYSTEM - APU BLEED AIR	49-52-00		
Component Location		101	ALL
Component Index			
Component Location			
SYSTEM - APU SURGE BLEED	49-53-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>ENGINE CONTROLS</u>	49-60-00		
SYSTEM - APU CONTROL	49-61-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>INDICATING</u>	49-70-00		
SYSTEM - APU EXHAUST GAS TEMPERATURE INDICATING	49-71-00		
Component Location		101	ALL
Component Index			
Component Location			
SYSTEM - APU INDICATING	49-72-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>EXHAUST</u>	49-80-00		
SYSTEM - APU EXHAUST	49-81-00		
Component Location		101	ALL
Component Index			
Component Location			

49-CONTENTS

SAS

Page 5  
Apr 22/00



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

CHAPTER 49 - AIRBORNE AUXILIARY POWER

TABLE OF CONTENTS

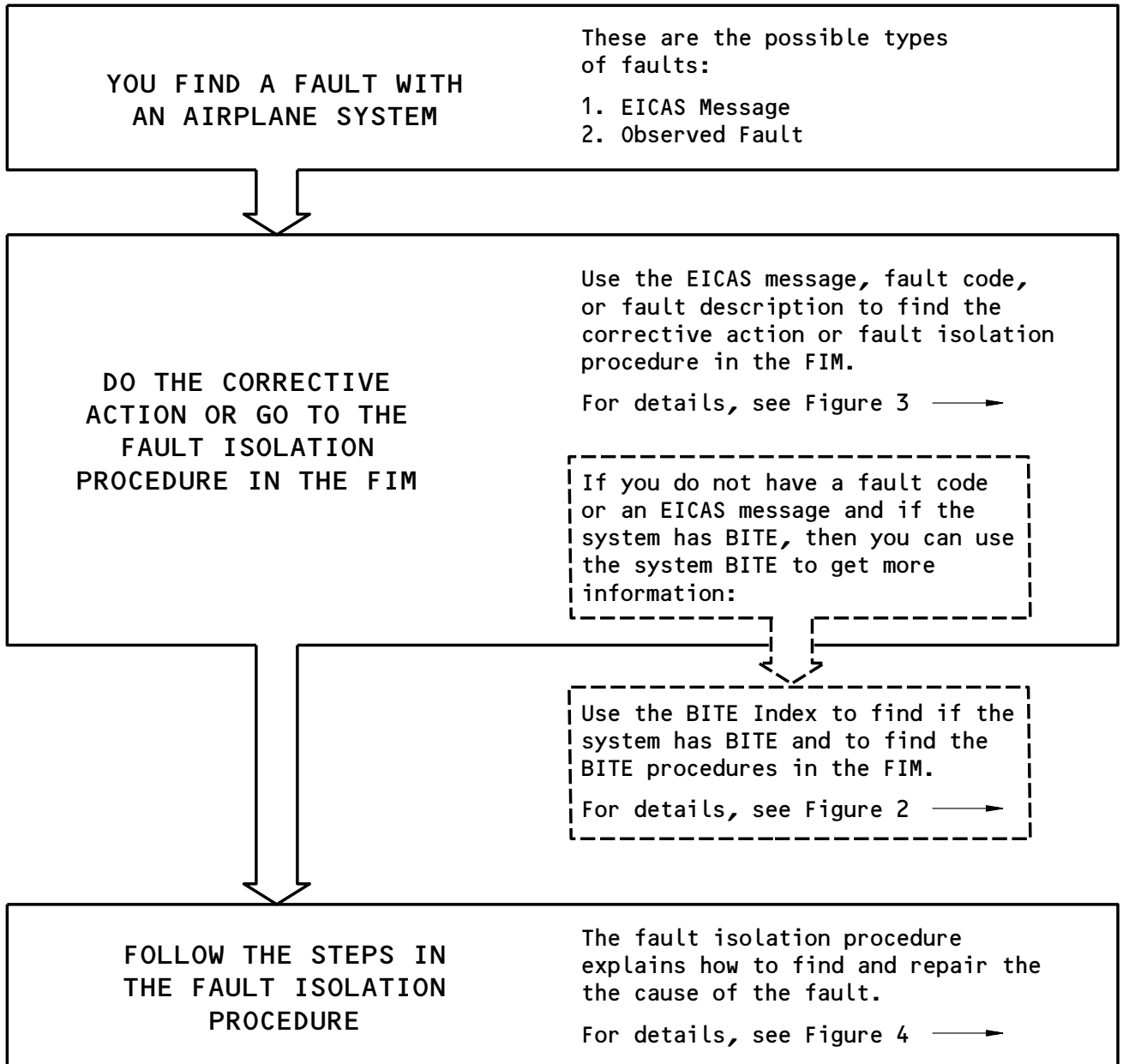
<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
<u>OIL</u>	49-90-00		
SYSTEM - APU OIL INDICATING	49-94-00		
Component Location		101	ALL
Component Index			
Component Location			

49-CONTENTS

SAS

Page 6  
Apr 22/00





Basic Fault Isolation Process  
Figure 1

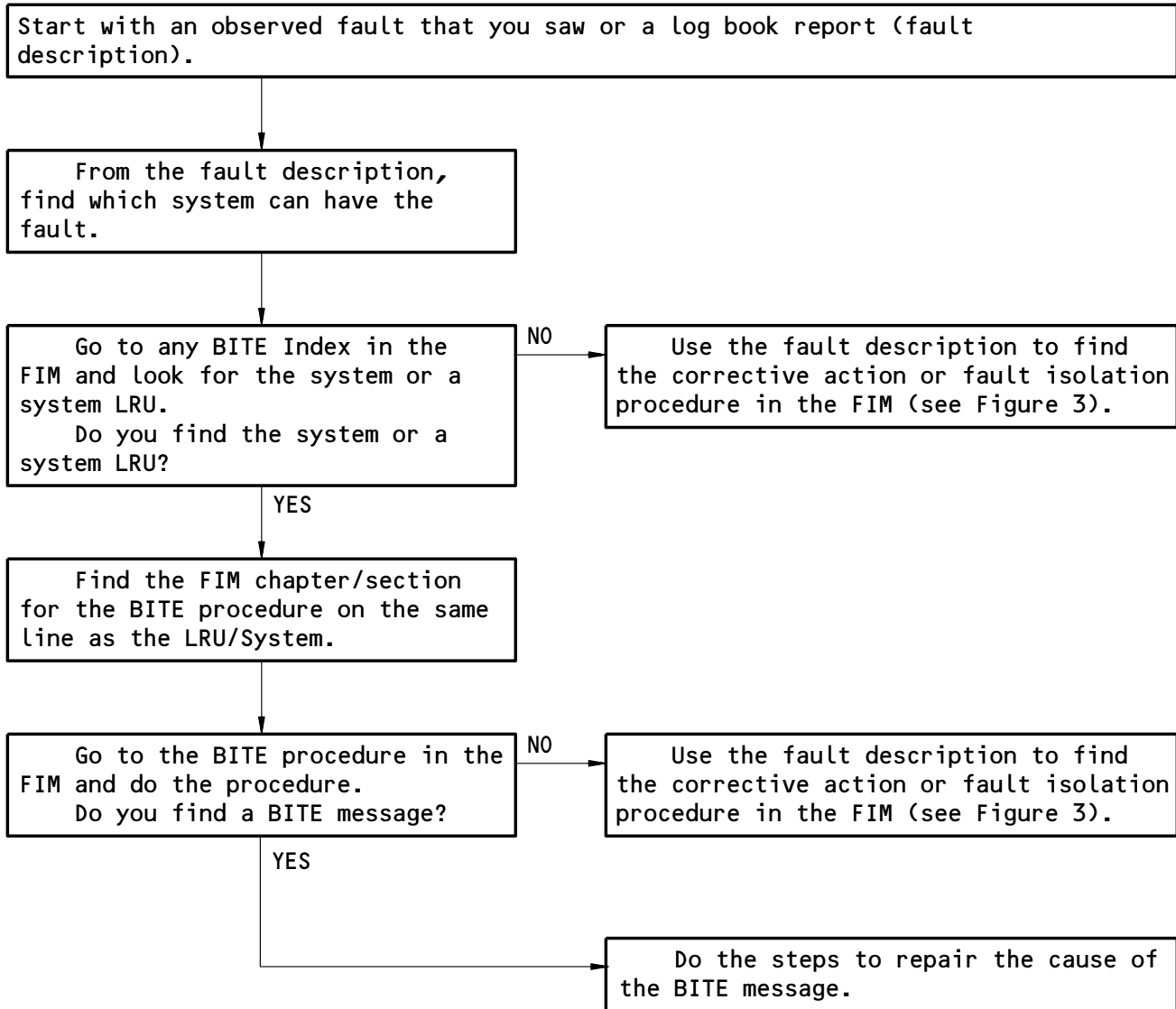
EFFECTIVITY

ALL

## 49-HOW TO USE THE FIM

01

Page 1  
Aug 22/99



How to Get Fault Information from BITE  
Figure 2

EFFECTIVITY

ALL

## 49-HOW TO USE THE FIM

01

Page 2  
Aug 22/99

IF YOU HAVE:

THEN DO THIS TO FIND THE CORRECTIVE ACTION OR FAULT ISOLATION PROCEDURE IN THE FIM:

FAULT CODE

1. The first two digits of the fault code are the FIM chapter that you need. Go to the Fault Code Index in that chapter and find the fault code.
2. Find the Fault Isolation Reference for the fault code and do the corrective action. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).

EICAS MESSAGE TEXT  
(with no fault code)

1. If you know the chapter of the EICAS message, then go to the EICAS Messages section in that chapter and find the EICAS message.  
  
If you do not know the chapter of the EICAS message, then do these steps:
  - A. Go to FIM EICAS MESSAGE LIST and find the EICAS message in the table.  
  
**NOTE:** The list follows the INTRODUCTION to the FIM.
  - B. Find the chapter number on the same line as the EICAS message. Go to the EICAS Messages section in that chapter and find the EICAS message.
2. Do the corrective action in the "Procedure" column for the EICAS message. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).

OBSERVED FAULT DESCRIPTION

1. Go to the Fault Code Diagram for the problem in the applicable chapter.
2. Do the fault analysis on the diagram and find the fault code.
3. The first two digits of the fault code are the FIM chapter that you need. Go to the Fault Code Index in that chapter and find the fault code.
4. Find the Fault Isolation Reference for the fault code and do the corrective action. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).

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

Figure 3

EFFECTIVITY	ALL
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## 49-HOW TO USE THE FIM

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

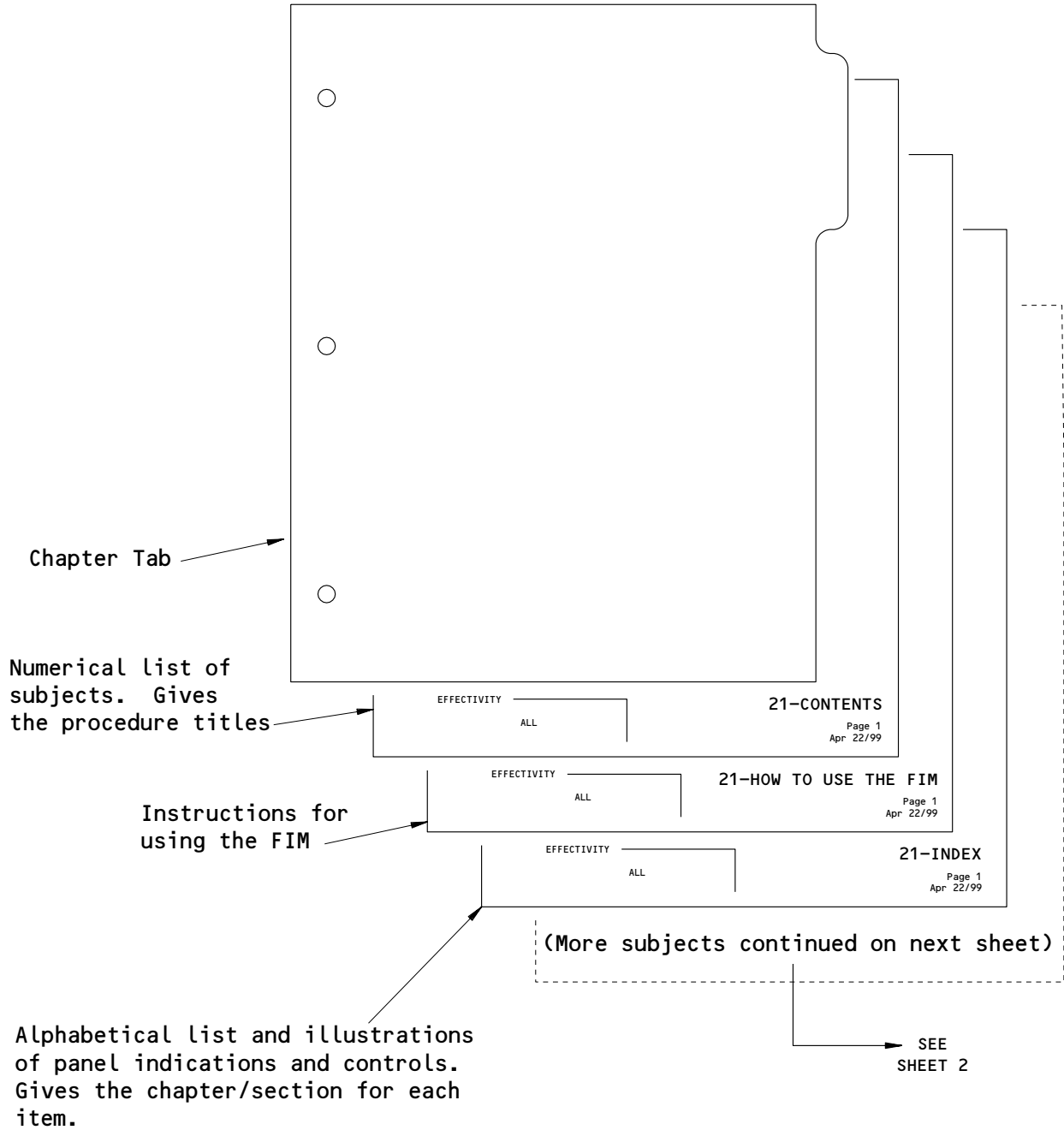
EFFECTIVITY

ALL

**49-HOW TO USE THE FIM**

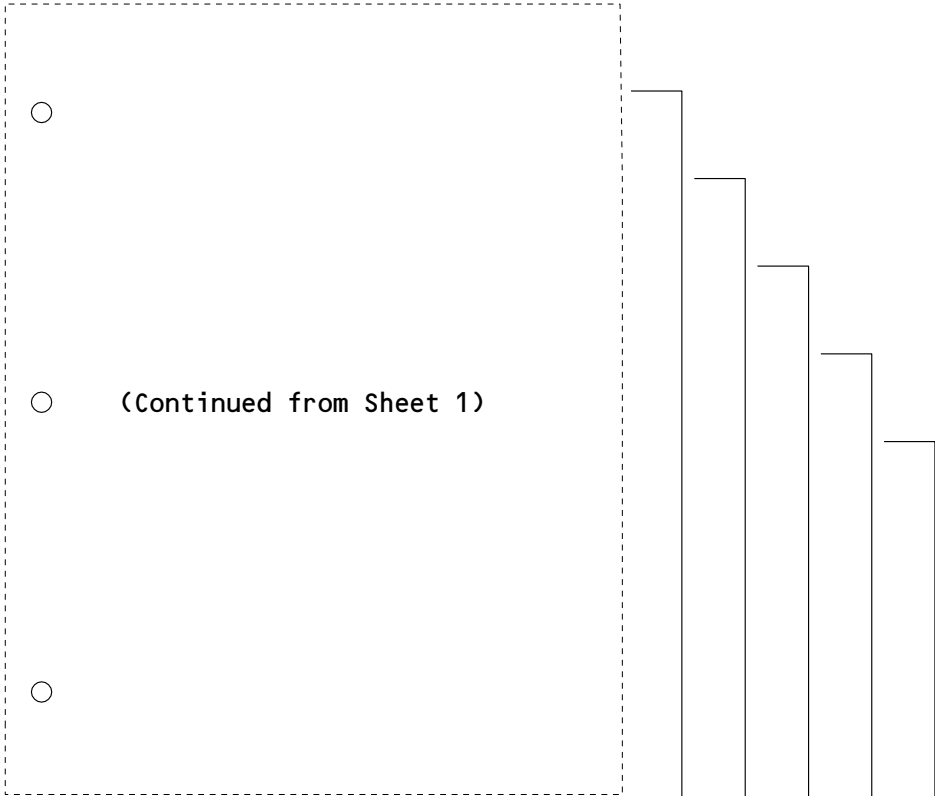
01

Page 4  
Aug 22/99



Subjects in Each FIM Chapter  
Figure 5 (Sheet 1)

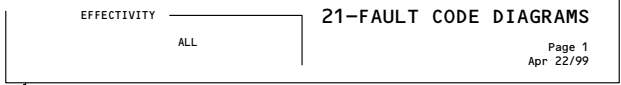
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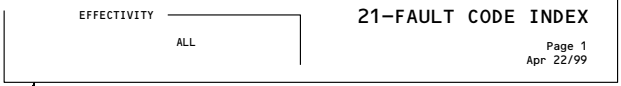
Alphabetical list of the EICAS messages. Gives the procedure to repair the cause of the message or a reference to a fault isolation procedure.



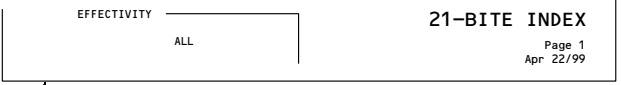
Failure analysis diagrams for the airplane systems to find the correct fault code for the fault.



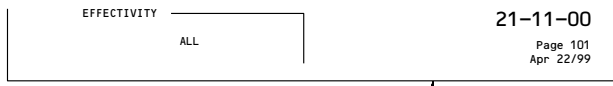
Numerical list of fault codes. Gives the procedure to repair the cause of the fault or a reference to a fault isolation procedure.



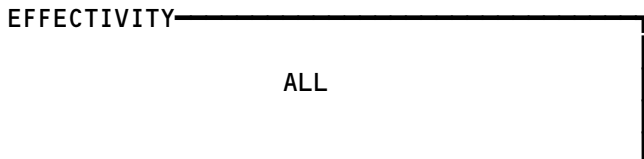
Alphabetical list of all the LRUs/systems that have BITE. Gives the chapter/section for the BITE procedure.



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



Subjects in Each FIM Chapter  
Figure 5 (Sheet 2)



# 49-HOW TO USE THE FIM

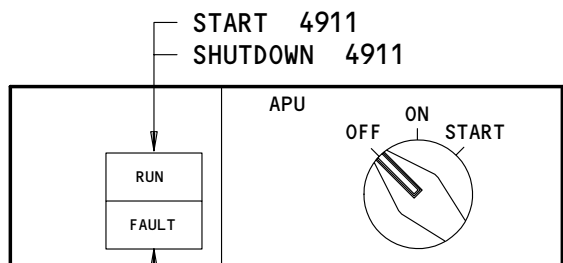
<u>TITLE</u>	<u>CHAP/SEC</u>
CHART	
APU OVERTEMPERATURE.....	4911
CHECK	
APU SLOW ACCEL/HUNG START.....	4911
OVERSPEED.....	4911
APU	
AUTO SHUTDOWN.....	4911
BLEED VALVE.....	CHAPTER 36
DOOR.....	4911
FIRE BTL DISCH LIGHT.....	CHAPTER 26
FIRE SWITCH.....	CHAPTER 26
FUEL FEED.....	CHAPTER 28
GENERATOR.....	CHAPTER 24
HOURS INDICATOR.....	4972
OIL QTY.....	4911
PNEUMATIC SUPPLY.....	CHAPTER 36, CHAPTER 71
SHUTDOWN.....	4911
START.....	4911
FAULT LIGHT	
AUTO SHUTDOWN.....	4911
DURING SHUTDOWN.....	4911
DURING START.....	4911
RUN LIGHT	
DURING SHUTDOWN.....	4911
DURING START.....	4911
SMOKE, FUMES FROM APU.....	4911

APU - INDEX

EFFECTIVITY

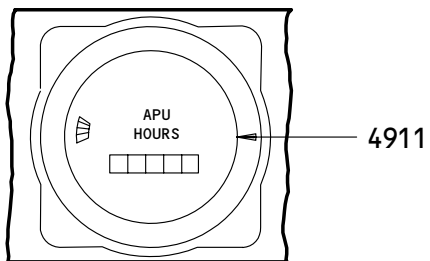
ALL
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**49-INDEX**

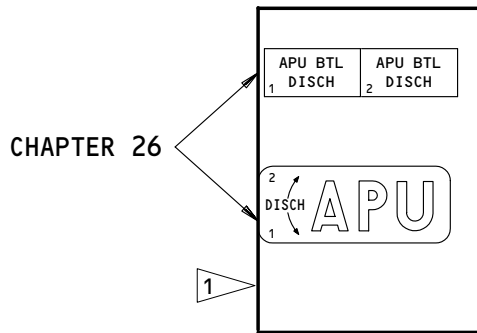


START 4911  
AUTO SHUTDOWN 4911  
SHUTDOWN 4911

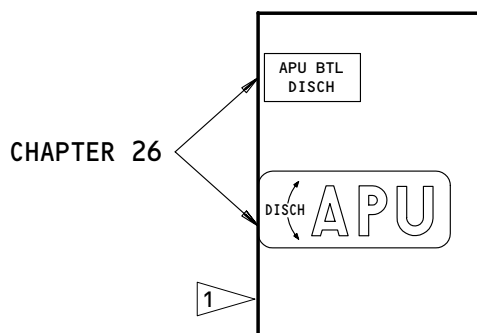
OVERHEAD PANEL



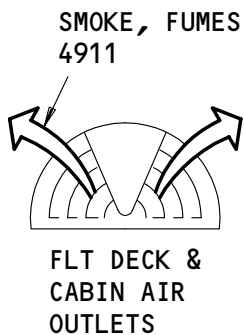
ACCESSORY PANEL



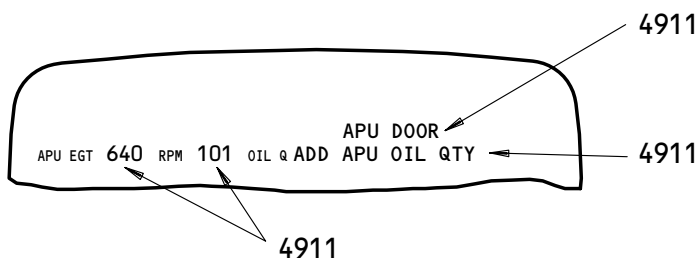
OR



AFT ELECTRONIC CONTROL PANEL



EICAS STATUS DISPLAY



PILOTS' CENTER PANEL

1 IF INSTALLED

APU - INDEX

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

49-INDEX



AIRBORNE AUXILIARY POWER – 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

## 49-EICAS MESSAGES

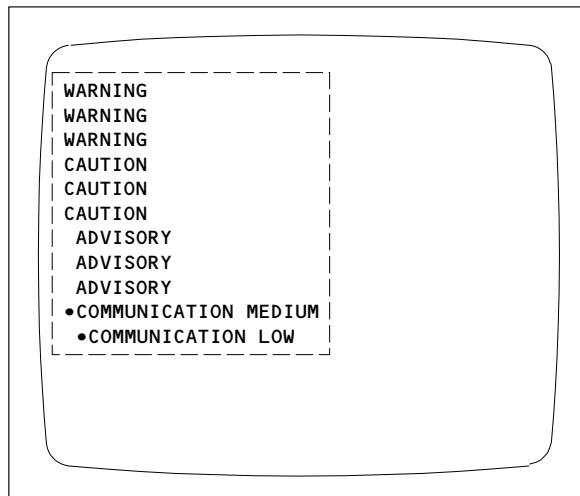
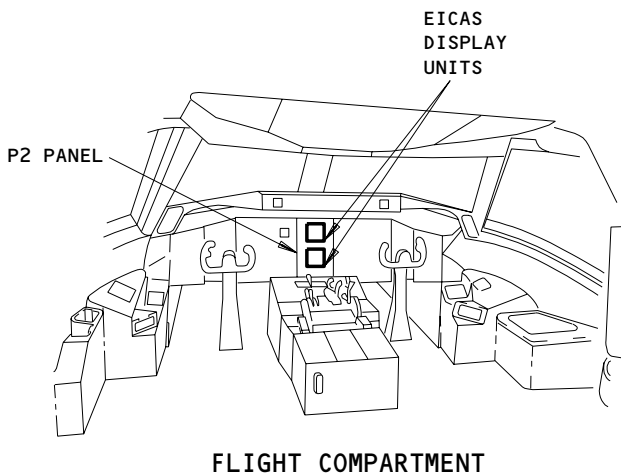
01

Page 1  
Feb 10/91

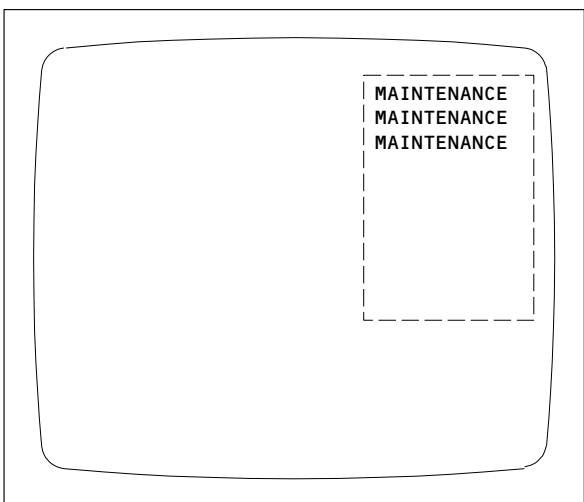
# BOEING

## 767

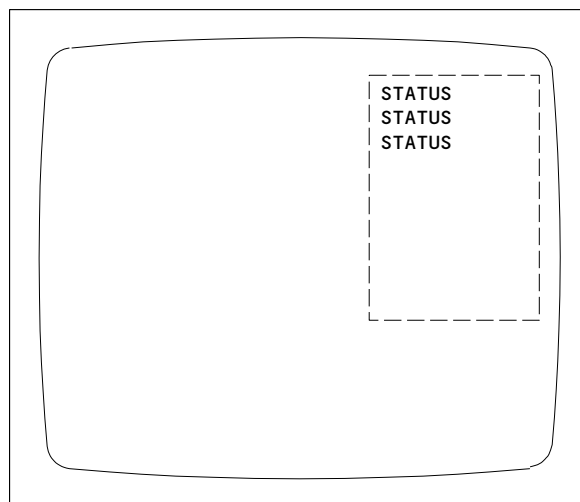
### FAULT ISOLATION/MAINT MANUAL



ENGINE PRIMARY PAGE OR COMPACTED PAGE  
(TOP DISPLAY UNIT)



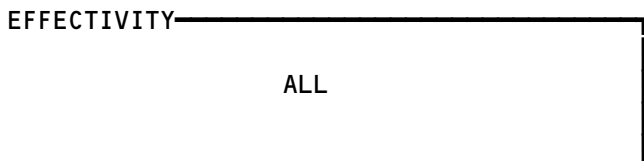
ECS/MSG PAGE  
(BOTTOM DISPLAY UNIT)



STATUS PAGE  
(BOTTOM DISPLAY UNIT)

LEVEL	COLOR
A-WARNING	RED
B-CAUTION	YELLOW
C-ADVISORY	YELLOW
E-COMMUNICATION MEDIUM	WHITE
F-COMMUNICATION LOW	WHITE
S-STATUS	WHITE
M-MAINTENANCE	WHITE

EICAS Message Locations  
Figure 1



## 49-EICAS MESSAGES


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
APU BITE	M	FIM 49-11-00/101, Fig. 103, Block 1
APU BLEED VAL	C	Go To 36-EICAS MESSAGES
APU DOOR	S, M	FIM 49-11-00/101, Fig. 104, Block 23
APU FAULT	C	FIM 49-11-00/101, Fig. 103, Block 1
APU FUEL VAL	C	Go To 28-EICAS MESSAGES
APU GEN OFF	C	Go To 24-EICAS MESSAGES
APU OIL QTY	S, M	FIM 49-11-00/101, Fig. 116, Block 1
APU ISLN VAL	S, M	Go To 28-EICAS MESSAGES

EFFECTIVITY

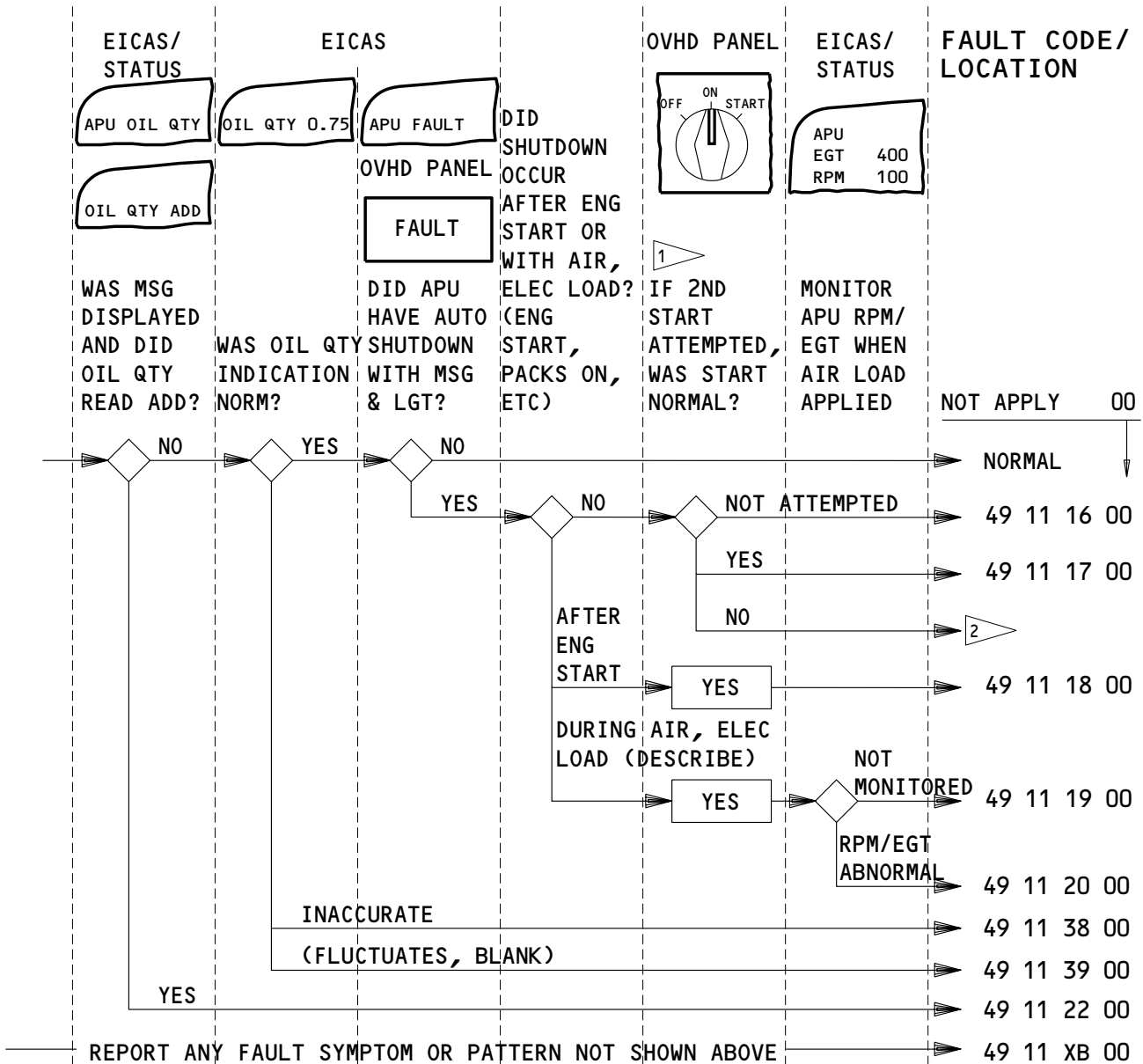
ALL

## 49-EICAS MESSAGES

01

Page 3  
Aug 22/03





REPORT ANY FAULT SYMPTOM OR PATTERN NOT SHOWN ABOVE

1 START ATTEMPTS LIMITED TO 3 PER HOUR.

2 SEE "APU START" FAULT CODES.

**APPLICABLE CIRCUIT BREAKERS**

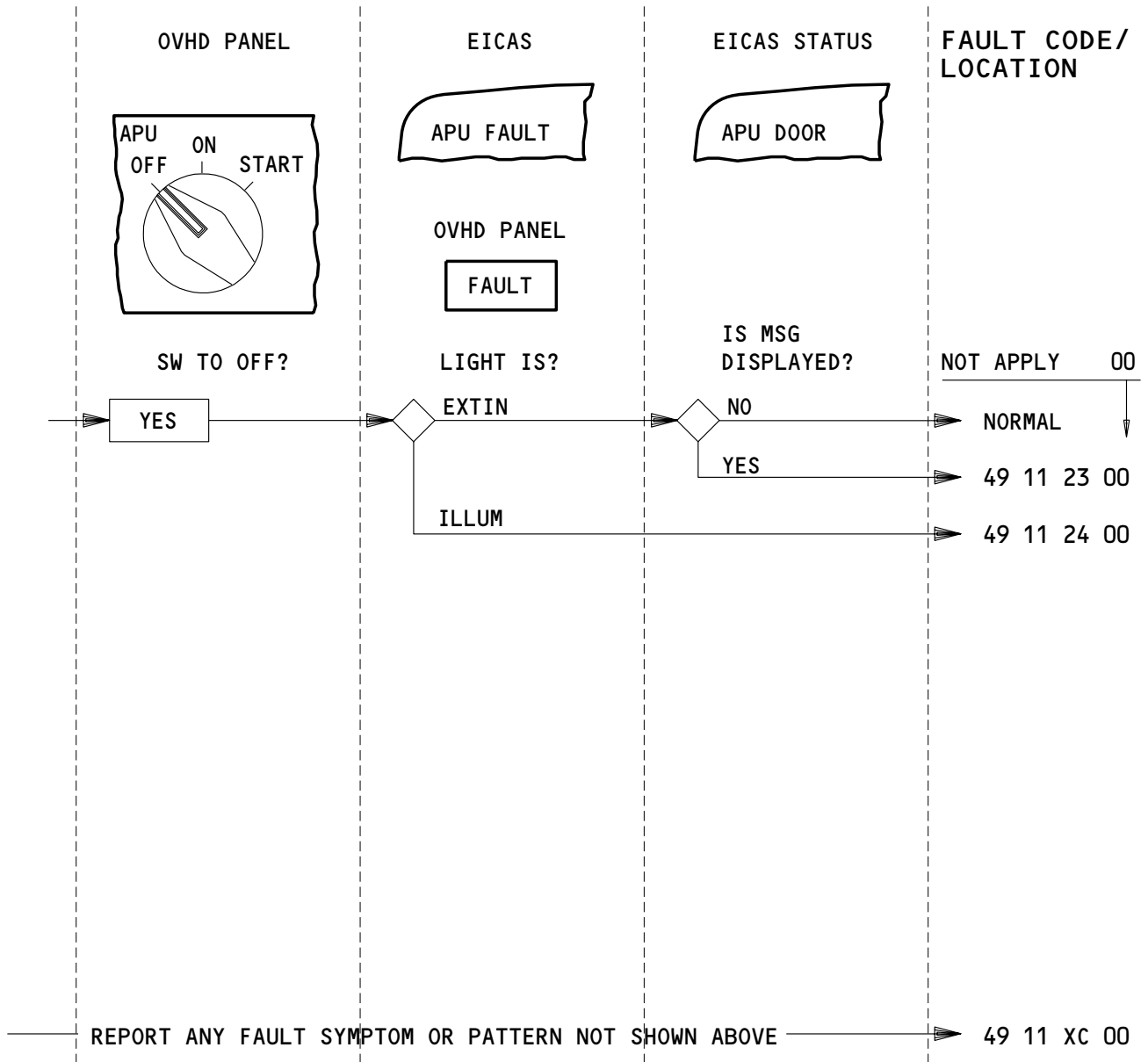
6E3	APU FUEL VALVE	11D34	FUEL DC PUMP PWR
6G24	L FWD FUEL BOOST PUMP	11D35	FUEL DC PUMP CONT
11B35	APU ALTN CONT	11M25	FUEL PUMPS L FWD R AFT

**APU AUTO SHUTDOWN/APU OIL QTY - FAULT CODES**

EFFECTIVITY

ALL

**49-FAULT CODE DIAGRAM**



APPLICABLE CIRCUIT BREAKERS

6E3	APU FUEL VALVE	11D34	FUEL DC PUMP PWR
6G24	L FWD FUEL BOOST PUMP	11D35	FUEL DC PUMP CONT
11B35	APU ALTN CONT	11M25	FUEL PUMPS L FWD/R AFT

APU SHUTDOWN – FAULT CODES

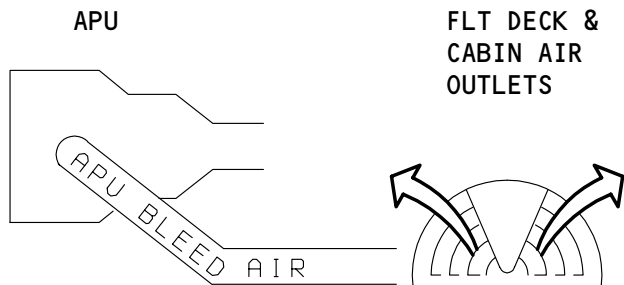
EFFECTIVITY

ALL

# 49-FAULT CODE DIAGRAM

01

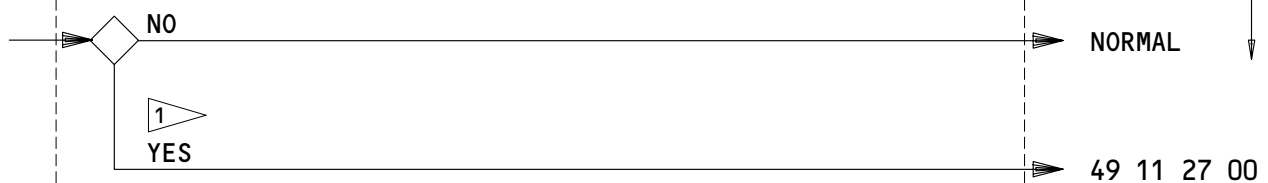
Page 3  
Dec 22/00



**FAULT CODE/  
LOCATION**

**DID APU DISCHARGE SMOKE, FUMES INTO CABIN?**

**NOT APPLY 00**



**REPORT ANY FAULT SYMPTOM OR PATTERN NOT SHOWN ABOVE → 49 11 XD 00**

**1** DO NOT REPORT IF SMOKE FUMES ARE FROM OTHER SOURCES,  
AS ENGINE EXHAUST, DE-ICE AGENT, ETC.

**APPLICABLE CIRCUIT BREAKERS**

**NONE**

**SMOKE, FUMES FROM APU – FAULT CODES**

**EFFECTIVITY**

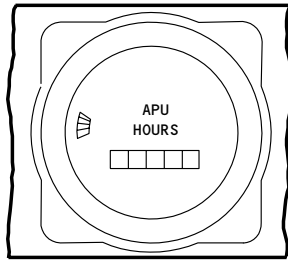
**ALL**

**49-FAULT CODE DIAGRAM**

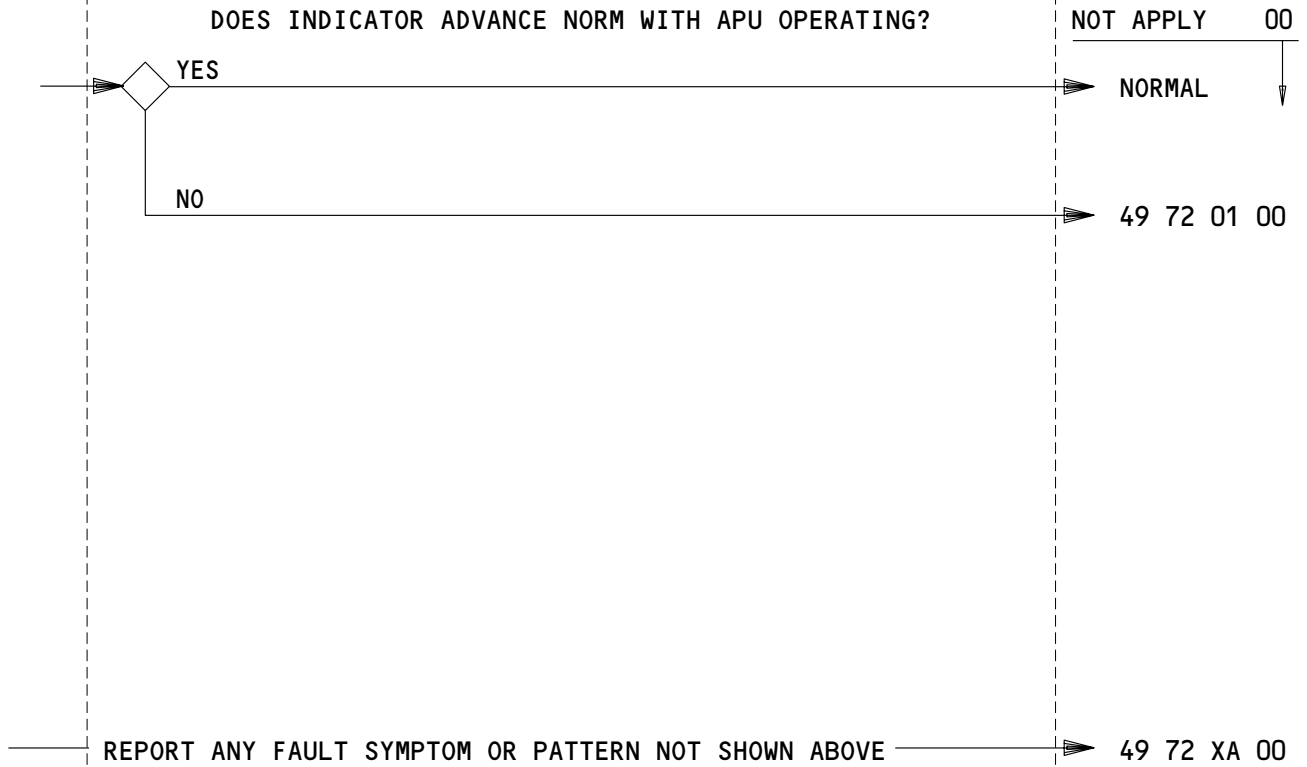
**01**

**Page 4  
Nov 01/84**

ACCESSORY PANEL



FAULT CODE/  
LOCATION



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

6H28	APU HOURMETER
11B35	APU ALTN CONT

APU HOURS INDICATOR - FAULT CODES

EFFECTIVITY

ALL
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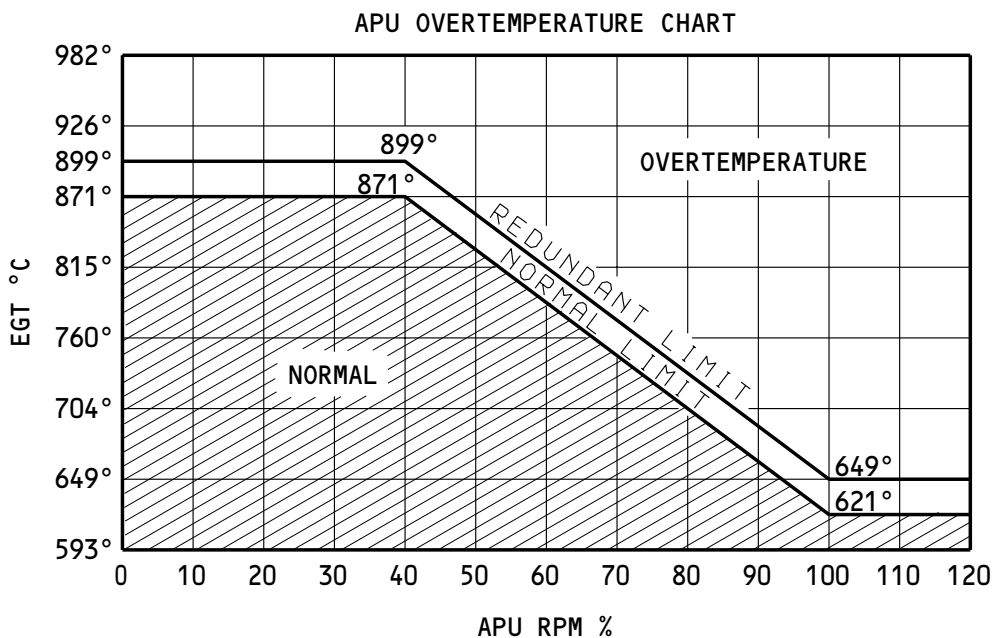
**49-FAULT CODE DIAGRAM**

01

Page 5  
Dec 22/00

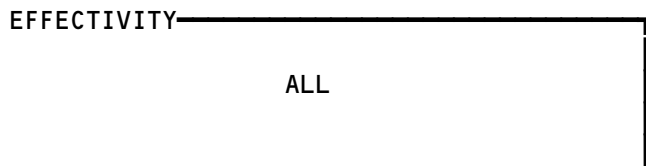


CHART 1



APU WILL SHUT DOWN AND FAULT LGT ILLUMINATE WITH EICAS MSG "APU FAULT DISPLAYED", IF THE NORMAL LIMIT IS EXCEEDED FOR .5 SEC OR THE REDUNDANT LIMIT FOR .1 SEC.

CHART



## 49-Fault Code Diagram

**CHECK 1**

APU SLOW ACCEL/HUNG START CHECK

APU WILL SHUT DOWN AND FAULT LGT ILLUMINATE WITH EICAS MSG "APU FAULT" DISPLAYED IF THESE ACCELERATION LIMITS ARE NOT MET.

<u>RPM %</u>	<u>TIME (SEC)</u>
NO ACCEL	5
7	30
20	50
50	70 (ON GRD OR IN FLT BELOW 30,000')
50	100 (IN FLT ABOVE 30,000')

**CHECK 2**

OVERSPEED LIMIT

APU WILL SHUT DOWN AND FAULT LGT ILLUMINATE WITH EICAS MSG "APU FAULT" DISPLAYED IF 107% RPM LIMIT IS EXCEEDED.

**CHECKS**

EFFECTIVITY

ALL

**49-FAULT CODE DIAGRAM**

04

Page 7  
May 01/86



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
49 11 XA 00	1. An APU start problem was encountered by the flight crew which is not covered by the fault code diagrams. (Ref fault code diagram for flight crew actions.) 2. SSM 49-00-04
49 11 XB 00	1. An APU auto shutdown or oil quantity problem was encountered by the flight crew which is not covered by the fault code diagrams. (Ref fault code diagram for flight crew actions.) 2. SSM 49-00-04
49 11 XC 00	1. An APU shutdown problem was encountered by the flight crew which is not covered by the fault code diagrams. (Ref fault code diagram for flight crew actions.) 2. SSM 49-00-04
49 11 XD 00	1. An APU smoke, fumes from APU problem was encountered by the flight crew which is not covered by the fault code diagrams. (Ref fault code diagram for flight crew actions.) 2. FIM 49-11-00/101, Fig. 122, Block 1
49 72 XA 00	1. An APU hours indicator problem was encountered by the flight crew which is not covered by the fault code diagrams. (Ref fault code diagram for flight crew actions.) 2. SSM 49-00-04
49 11 01 00	1. APU slow to start, _____ sec elapsed before RUN lgt illum. 2. FIM 49-11-00/101, Fig. 104, Block 1
49 11 02 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. APU selector positioned OFF then ON, Lgt & msg remained. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 03 00	1. APU failed to start. RUN lgt extin, FAULT illum and EICAS msg APU FAULT displayed. Describe any additional indications such as: RPM, EGT, battery voltage. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 04 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. APU started normal on 2nd attempt. 2. FIM 49-11-00/101, Fig. 103, Block 1

EFFECTIVITY

ALL

## 49-FAULT CODE INDEX

01

Page 1  
May 10/96


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
49 11 05 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Additional start attempts unsuccessful. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 06 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Second attempt indicates no RPM rise. 2. FIM 49-11-00/101, Fig. 104, Block 1
49 11 07 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Second attempt indicates (slow accel, hung start). 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 08 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Second attempt indicates no EGT rise. 2. FIM 49-11-00/101, Fig. 104, Block 1
49 11 09 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Second attempt indicates EGT high. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 10 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Second attempt indicates APU overspeed. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 11 00	Not Used
49 11 12 00	1. APU failed to start. FAULT Lgt illum & EICAS msg APU FAULT displayed. Second start norm. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 13 00	Not Used

EFFECTIVITY

ALL

## 49-FAULT CODE INDEX

01

Page 2  
Dec 22/02


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
49 11 14 00	1. APU failed to start. Fault lgt illum and EICAS msg APU FAULT displayed. Second attempt shows norm (EGT, RPM) but APU quit. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 15 00	1. APU failed to start. EICAS APU DOOR and APU FAULT messages displayed and FAULT light illuminated when SW placed to START. 2. FIM 49-11-00/101, Fig. 104, Block 23
49 11 16 00	1. APU had AUTO shutdown, FAULT light illuminated and EICAS APU FAULT message displayed. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 17 00	1. APU had auto shutdown, FAULT lgt illum and EICAS msg APU FAULT displayed. Next start attempt normal. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 18 00	1. APU had auto shutdown after eng start. FAULT lgt illum and EICAS msg APU FAULT displayed. Next start attempt normal. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 19 00	1. APU had auto shutdown during (eng start, packs on, hyd pump on, etc.), FAULT lgt illum and EICAS msg APU FAULT displayed. Next start attempt normal. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 20 00	1. APU had auto shutdown during (eng start, packs on, hyd pump on, etc.), FAULT lgt illum and EICAS msg APU FAULT displayed. After 2nd start, APU (RPM low/EGT high) when (eng started, packs on, hyd pump on, etc.). 2. FIM 49-11-00/101, Fig. 103, Block 1

EFFECTIVITY

ALL

## 49-FAULT CODE INDEX

01

Page 3  
Apr 22/08


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
49 11 21 00	Not Used
49 11 22 00	1. EICAS message APU OIL QTY displayed and oil QTY reads ADD. 2. FIM 49-11-00/101, Fig. 116, Block 1
49 11 23 00	1. EICAS msg APU D00R remains displayed after APU shutdown. 2. FIM 49-11-00/101, Fig. 104, Block 23
49 11 24 00	1. APU fault during shutdown. FAULT light illuminated and EICAS APU FAULT message displayed. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 25 00	1. APU shut down prior to 60 second cool down period. FAULT light illuminated and EICAS APU FAULT message displayed. 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 26 00	Not Used
49 11 27 00	1. (Smoke, Fumes) coming into cabin from APU. 2. FIM 49-11-00/101, Fig. 122, Block 1
49 11 28 00	1. EICAS APU BITE msg displayed (Ref Chapter 31 for fault code diagram). 2. FIM 49-11-00/101, Fig. 103, Block 1
49 11 29 00	1. EICAS msg APU D00R displayed (Ref Chapter 31 for fault code diagram). 2. FIM 49-11-00/101, Fig. 104, Block 23
49 11 30 00	1. EICAS message APU OIL QTY displayed. (Ref Chapter 31 for fault code diagram). 2. FIM 49-11-00/101, Fig. 116, Block 1

EFFECTIVITY

ALL

## 49-FAULT CODE INDEX

07

Page 4  
May 10/96


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
49 11 31 --	1. (O1=L, O2=R) eng slow to accel to idle. APU supplied duct pressure. Low ___ psi (Ref Chapter 71 for fault code diagram). 2. FIM 49-11-00/101, Fig. 120, Block 1
49 11 32 00	1. Both L & R duct press zero with APU running, bleed air sw ON, isln valves open & eng bleed air valves indicating closed (Ref Chapter 36 for fault code diagram). 2. FIM 49-11-00/101, Fig. 118, Block 1
49 11 33 00	1. APU output press low, _____ PSI (Ref Chapter 36 for fault code diagram). 2. FIM 49-11-00/101, Fig. 120, Block 1
49 11 34 00	1. APU output press fluctuating (Ref Chapter 36 for fault code diagram). 2. FIM 49-11-00/101, Fig. 119, Block 1
49 11 35 00	1. APU RPM drops when (packs operated, engines started). EICAS msg APU GEN OFF displayed and APU Gen OFF lgt illum (Ref Chapter 24 for fault code diagram). 2. Replace the inlet pressure (P2) sensor YBMTS4 (AMM 49-61-04/201). If the problem continues, replace the fuel control unit YBMM4 (AMM 49-31-01/401).
49 11 36 00	1. Pneumatic press low when using APU bleed air for (eng start, pack operation) (Ref Chapter 36 for fault code diagram). 2. FIM 49-11-00/101, Fig. 120, Block 1
49 11 37 00	Not Used
49 11 38 00	1. APU oil quantity display on EICAS PERF/APU page is inaccurate. 2. Replace the oil quantity transmitter YBMS3 (AMM 49-94-04/401).

EFFECTIVITY

ALL

## 49-FAULT CODE INDEX

09

Page 5  
Aug 22/01


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
49 11 39 00	1. APU oil quantity display on EICAS PERF/APU page (fluctuates blank). 2. Replace the oil quantity transmitter YBMS3 (AMM 49-94-04/401).
49 11 40 --	Not Used
49 72 01 00	1. APU hours indicator does not advance normally with APU operating. 2. Replace the APU hourmeter (AMM 49-72-01/401). If the problem continues, examine circuit between the APU control panel P5, connector D1394, pins 25 and 26, to the hourmeter terminals. Repair any defects that you find (WDM 49-72-11).

EFFECTIVITY

ALL

## 49-FAULT CODE INDEX

01

Page 6  
Dec 22/04



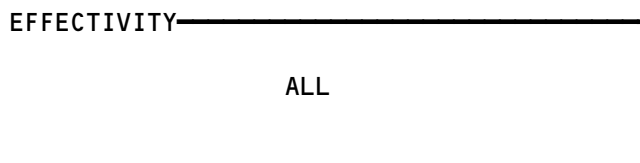
BITE Index

1. General

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

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

Bite Index  
Figure 1 (Sheet 1)

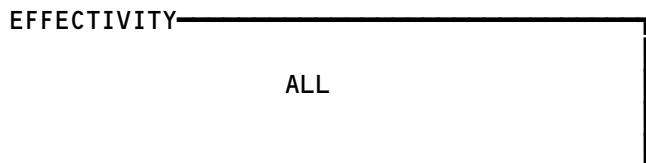


## 49-BITE INDEX


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

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

Bite Index  
Figure 1 (Sheet 2)

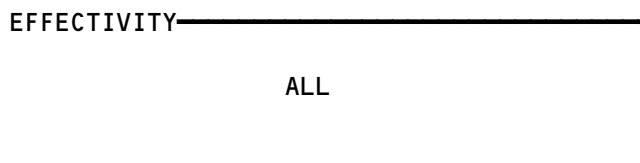


## 49-BITE INDEX


  
**767**
  
**FAULT ISOLATION/MAINT MANUAL**

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

Bite Index  
Figure 1 (Sheet 3)



## 49-BITE INDEX

01

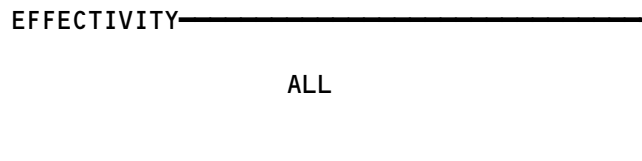
Page 3  
Aug 22/99


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

AUXILIARY POWER UNIT

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
AUXILIARY POWER UNIT	--	1	316AR,315AL, APU COMPT	49-11-01

Auxiliary Power Unit - Component Index  
Figure 101

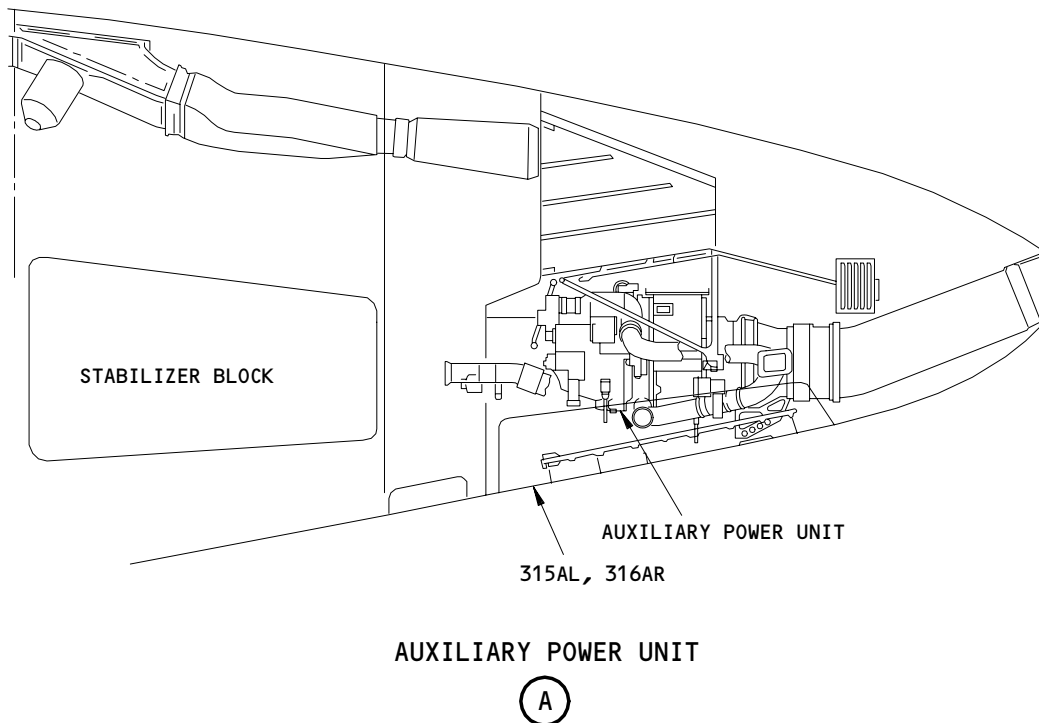
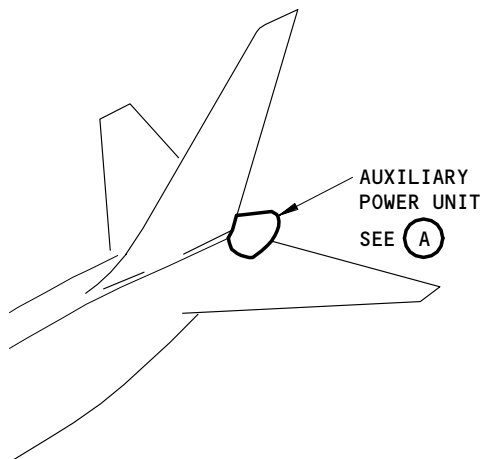


**49-11-00**

01A

Page 101  
Nov 10/94

E61426



Auxiliary Power Unit - Component Location  
 Figure 102

EFFECTIVITY	
	ALL

49-11-00

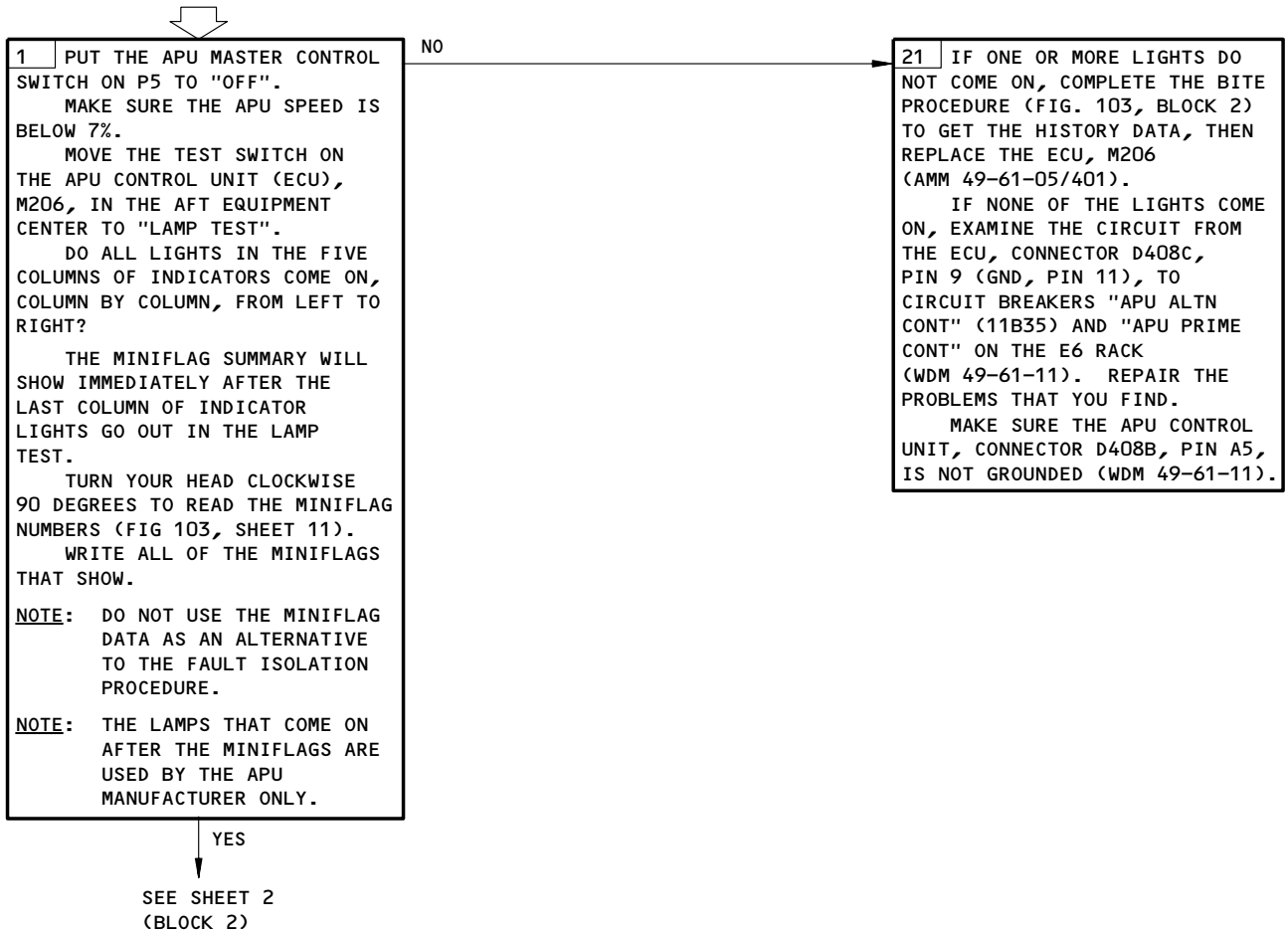
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>1</sup> ,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**APU BITE PROCEDURE**



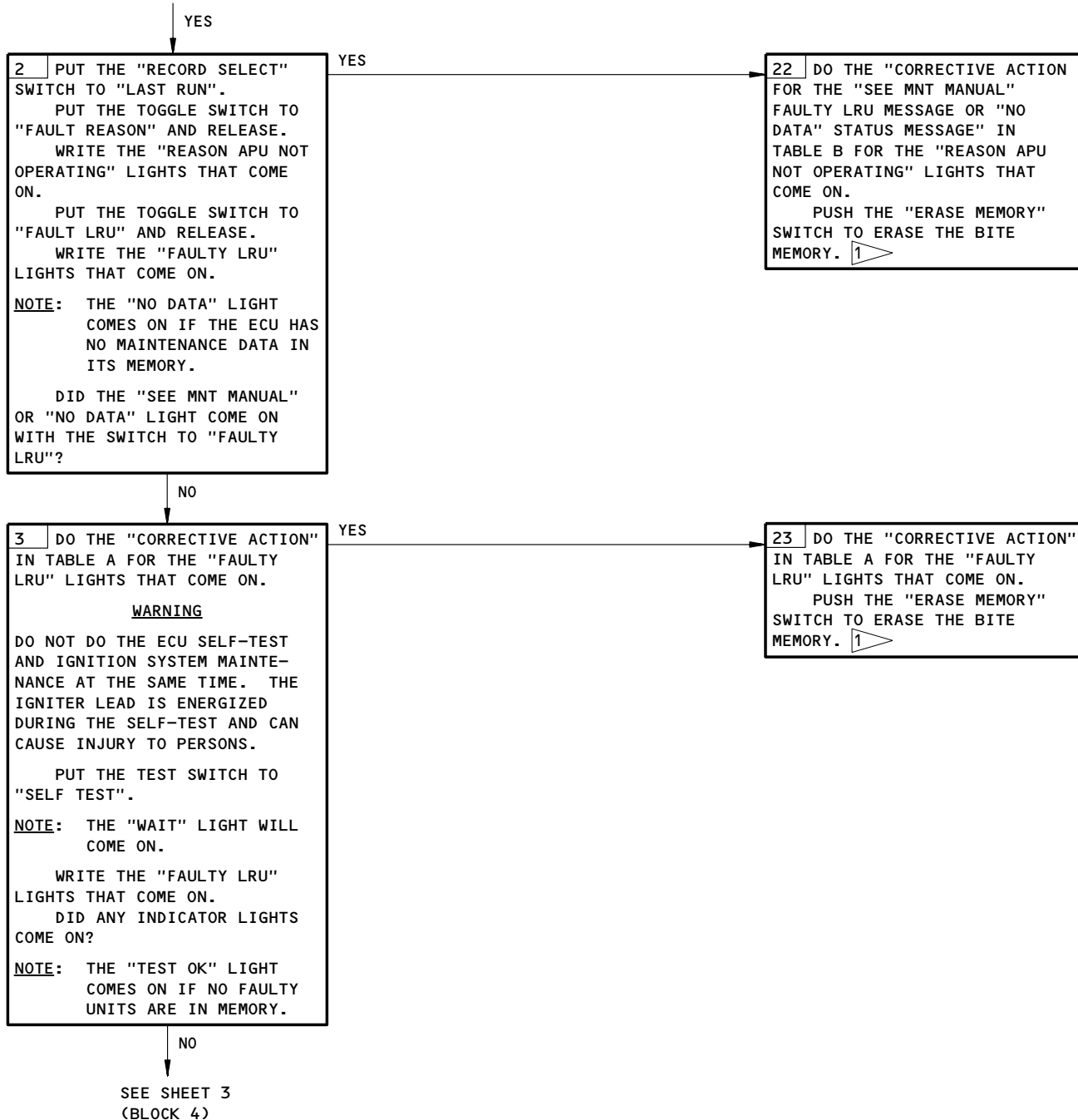
<sup>1</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

APU BITE Procedure  
Figure 103 (Sheet 1)

EFFECTIVITY	ALL
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**49-11-00**

FROM SHEET 1  
(BLOCK 1)



1 IF THE APU CONTROL UNIT IS BEING REPLACED, DO NOT ERASE THE APU CONTROL UNIT MEMORY.  
IF YOU ERASE THE APU CONTROL UNIT MEMORY, THE FAILURE HISTORY USED TO DIAGNOSE AND REPAIR THE UNIT WILL BE LOST.

APU BITE Procedure  
Figure 103 (Sheet 2)

EFFECTIVITY

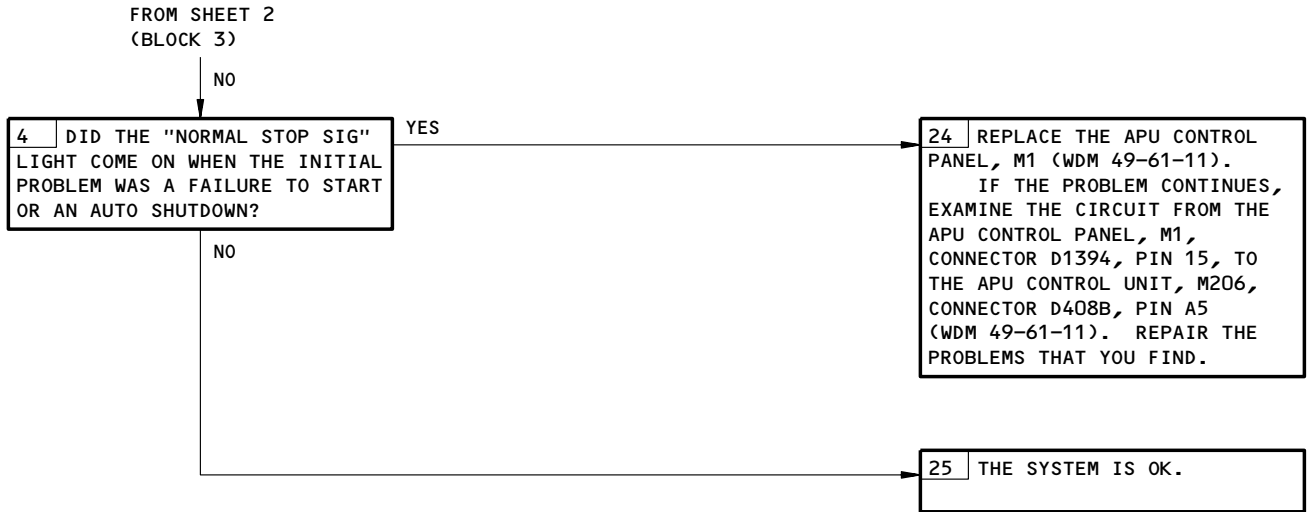
ALL

49-11-00

01A

Page 104  
Dec 22/07

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



MESSAGE	CORRECTIVE ACTION	IF THE PROBLEM CONTINUES
INLET DOOR RLY LCIT SENSOR	FIG. 132 REPLACE THE LCIT SENSOR, YBMTS5 (AMM 49-61-03/401). 2 → 3	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PINS E6 AND E7, TO THE INLET TEMPERATURE SENSOR (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
FUEL SOL PT SENSOR ΔP SENSOR #1 SPD SENSOR #2 SPD SENSOR LOP SWITCH	FIG. 123 FIG. 124 FIG. 125 FIG. 136 FIG. 137 REPLACE THE LOP SWITCH, YBMS2 (AMM 49-94-02/401). 2 → 4	MAKE SURE THE ECU, CONNECTOR D408B, PIN C5, IS NOT GROUNDED. 3 REPAIR THE PROBLEMS THAT YOU FIND.
FUEL CONTROL	FIG. 126	

FAULTY LRU - REFERENCE  
TABLE A

- 2 → ERASE THE "APU BITE" MESSAGE ON EICAS  
IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- 3 → DO THE SELF-TEST (FIG. 103, BLOCK 3) TO  
MAKE SURE THE PROBLEM IS REPAIRED.
- 4 → OPERATE THE APU (AMM 49-11-00/201) AND  
DO THE APU BITE PROCEDURE (FIG. 103)  
AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

APU BITE Procedure  
Figure 103 (Sheet 3)







EFFECTIVITY ————  
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49-11-00

01A Page 105  
Aug 22/02



 **BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

MESSAGE	CORRECTIVE ACTION	IF THE PROBLEM CONTINUES
SURGE VALVE	REPLACE THE SURGE VALVE, YBMM5 (AMM 49-53-01/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PINS G6 AND G7, TO THE TORQUE MOTOR CONNECTOR, PINS 1 AND 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
EGT #1 CIRCUIT	FIG. 134	
EGT #2 CIRCUIT	FIG. 135	
IGV ACT	FIG. 127	
IGN UNIT	FIG. 128	
DEOIL SOL	REPLACE THE DEOIL SOLENOID VALVE, YBMM3 (AMM 49-27-08/401).  	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PINS J4 AND J5, TO THE SOLENOID CONNECTOR, PINS 1 AND 2. EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PIN J10, TO THE OIL TEMP SWITCH, YBMS5, CONNECTOR, PIN 1 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
FLOW DIV SOL	REPLACE THE FUEL FLOW DIVIDER SOLENOID VALVE, YBMM2 (AMM 49-31-03/401).  	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PINS J7 AND J8, TO THE SOLENOID CONNECTOR, PINS 1 AND 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
ECS CONTROL	REPLACE THE ZONE TEMPERATURE CONTROL, M195 (AMM 21-61-03/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PINS D8 AND D9, TO THE ZONE TEMPERATURE CONTROL, M195, CONNECTOR D2558B, PINS C1 AND C2 (WDM 21-61-51). REPAIR THE PROBLEMS THAT YOU FIND.
APU STARTER	IF #1 SPD SENSOR AND #2 SPD SENSOR LIGHTS COME ON, DO THE CORRECTIVE ACTION FOR THEM. IF #1 SPD SENSOR AND #2 SPD SENSOR LIGHTS DO NOT COME ON, GO TO FIG. 129.	
A/C STRT CIRCUIT	FIG. 106A	

FAULTY LRU - REFERENCE  
TABLE A

APU BITE Procedure  
Figure 103 (Sheet 4)

EFFECTIVITY

ALL

49-11-00

02A

Page 106  
Apr 22/00

L16653

 **BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

MESSAGE	CORRECTIVE ACTION	IF THE PROBLEM CONTINUES
HOT SENSOR	REPLACE THE OIL TEMPERATURE (HOT) SENSOR, YBMTS1 (AMM 49-94-01/401). 2 > 3	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PINS E4 AND E5, TO THE HOT SENSOR CONNECTOR, PINS A AND B (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
P2 SENSOR	FIG. 130	
ECU	FIG. 131	
FAN VALVE	APU WITHOUT THE FAN ISOLATION VALVE (POST-ALLIEDSIGNAL-SB 49-7391); IGNORE THIS MESSAGE, IT IS A NUISANCE MESSAGE 2 > 4 APU WITH THE FAN ISOLATION VALVE (PRE-ALLIEDSIGNAL-SB 49-7391); REPLACE THE FAN ISOLATION VALVE, YBMS4 (AMM 49-51-02/401). 2 > 3	APU WITH THE FAN ISOLATION VALVE CONNECTED TO THE FIRST-STAGE COMPRESSOR (PRE-ALLIEDSIGNAL-SB 49-7391, POST-ALLIEDSIGNAL-SB 49-7192); EXAMINE THE CONDITION OF THE LINE FROM THE FAN ISOLATION VALVE TO THE FIRST-STAGE COMPRESSOR. REPAIR THE LINE IF IT IS NECESSARY. APU WITH THE FAN ISOLATION VALVE CONNECTED TO THE SURGE VALVE (PRE-ALLIEDSIGNAL-SB 49-7391, PRE-ALLIEDSIGNAL-SB 49-7192); EXAMINE THE CONDITION OF THE LINE FROM THE FAN ISOLATION VALVE TO THE SURGE VALVE. REPAIR THE LINE IF IT IS NECESSARY. IF THE PROBLEM CONTINUES, REPLACE THE SURGE CONTROL VALVE FILTER (AMM 49-53-06/201). EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PIN B10, TO THE FAN VALVE SWITCH CONNECTOR, PIN 1. EXAMINE THE CIRCUIT FROM THE SWITCH CONNECTOR, PIN 2, TO GROUND (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND. IF THERE WAS A HEAT PROBLEM, EXAMINE THE FAN INLET DUCT FOR DAMAGE. REPAIR THE PROBLEMS THAT YOU FIND.
FILTER SW (GEN)	REPLACE THE GENERATOR ΔP SWITCH, YBMS1 (AMM 49-27-15/401). 2 > 3	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PIN D11, TO THE FILTER SWITCH CONNECTOR, PIN 1. EXAMINE THE CIRCUIT FROM THE SWITCH CONNECTOR, PIN 2, TO GROUND (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
SEE MNT MANUAL	SEE TABLE B	

FAULTY LRU - REFERENCE  
TABLE A

APU BITE Procedure  
Figure 103 (Sheet 5)

EFFECTIVITY

ALL

49-11-00

02A

Page 107  
Aug 22/00

L16813


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

MESSAGE	CORRECTIVE ACTION FOR THE "SEE MNT MANUAL" FAULTY LRU MESSAGE OR "NO DATA" STATUS MESSAGE
NORMAL STOP SIG CONTROL FAILURE UNDER SPEED START ABORTED NO LIGHT OFF REVERSE FLOW EGT OVERTEMP DC PWR LOSS LOW OIL PRESSURE GEN FILTER DOOR SYSTEM FIRE EMERG	FIG. 133 REPLACE THE ECU, M206 (AMM 49-61-05/401). FIG. 106 FIG. 105 FIG. 107 FIG. 108 FIG. 113 FIG. 138 FIG. 109 FIG. 112 FIG. 104, BLOCK 23 LOOK AT THE AIRPLANE LOG BOOK AND THE APU COMPARTMENT FOR SIGNS OF A REPORTED FIRE. IF FIRE DAMAGE SHOWS, REPAIR OR REPLACE THE DAMAGED COMPONENTS. MAKE SURE THAT THE APU CONTROL SWITCH ON THE P5 PANEL IS "OFF" AND MOVE THE MAIN BATTERY SWITCH ON THE P5 PANEL "ON" THEN "OFF". IF THERE IS NO LOG BOOK REPORT OR SIGNS OF FIRE DAMAGE, DO THE BITE PROCEDURE FOR THE APU FIRE DETECTION SYSTEM (FIM 26-15-00/101, FIG. 103). IF THE PROBLEM CONTINUES, REPLACE THE EXTERNAL SHUTDOWN RELAY, K421 (WDM 49-61-11).
O/S TEST CIRCUIT	REPLACE THE ECU, M206 (AMM 49-61-05/401). IF THE PROBLEM CONTINUES AND "FUEL SOL" COMES ON, REPLACE THE FUEL SOLENOID VALVE, YBMV1 (AMM 49-31-02/401).
HIGH OIL TEMP	FIG. 110
OVER SPEED	FIG. 111

REASON APU NOT OPERATING – REFERENCE  
TABLE B

APU BITE Procedure  
Figure 103 (Sheet 6)

EFFECTIVITY	ALL
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49-11-00

 **BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

**NOTE:** THE MINIFLAGS ARE FOR INFORMATION ONLY. DO NOT USE THE MINIFLAG DATA AS AN ALTERNATIVE TO THE FAULT ISOLATION PROCEDURES.

NUMBER	DESCRIPTION
1	SPEED SIGNAL NO. 1 IS NOT FUNCTIONING. THE SPEED SENSOR NO. 1 OR WIRING IS NOT PROVIDING PROPER INPUT AT SPEEDS GREATER THAN 50%.
2	SPEED SIGNAL NO. 2 IS NOT FUNCTIONING. THE SPEED SENSOR NO. 2 OR WIRING IS NOT PROVIDING PROPER INPUT AT SPEEDS GREATER THAN 50%.
3	ECU SPEED CONVERTER CIRCUIT IS FAILED. THE ECU SPEED CONVERTER CIRCUIT DOES NOT INTERPRET THE SPEED SIGNAL PROPERLY WHEN THE APU IS OPERATING AT SPEEDS GREATER THAN 50%.
4	FAILED ECU N/DC CONVERTER NO. 1 CIRCUIT. THE ECU CIRCUIT THAT CONVERTS THE NO. 1 SPEED SIGNAL TO A DC VOLTAGE IS NOT FUNCTIONING PROPERLY.
5	FAILED ECU N/DC CONVERTER NO. 2 CIRCUIT. THE ECU CIRCUIT THAT CONVERTS THE NO. 2 SPEED SIGNAL TO A DC VOLTAGE IS NOT FUNCTIONING PROPERLY.
6	FAILED ECU N/DC CONVERTER NO. 3 CIRCUIT. THE ECU REDUNDANT CIRCUIT THAT CONVERTS THE HIGHEST SPEED SIGNAL TO A DC VOLTAGE IS NOT FUNCTIONING PROPERLY.
7	THIS MINIFLAG IS DISPLAYED ONLY IN THE "SUMMARY" ROTARY SELECT SWITCH POSITION AND INDICATES AIRPLANE FAULTS PER MINIFLAGS 75-78.
9	LCIT SENSOR SIGNAL OUT OF RANGE. THE LCIT SENSOR CIRCUIT READS LESS THAN -100°F.
10	OIL TEMPERATURE SENSOR RESISTANCE OUT OF RANGE. THE OIL TEMPERATURE RESISTANCE IS NOT WITHIN THE RANGE OF 65 TO 208 OHMS (-110 TO +482°F).
11	FAILED EGT THERMOCOUPLE CIRCUIT NO. 1 SIGNAL OUT OF RANGE. THE THERMOCOUPLE CIRCUIT READS LESS THAN -100°F ABSOLUTE OR EGT THERMOCOUPLE NO. 2 READS +150°F MORE THAN EGT NO. 1. SEVERE POWER SECTION DISTRESS CAN ALSO CAUSE A LARGE VARIATION IN EGT NO. 1 AND NO. 2 READINGS.
12	FAILED EGT THERMOCOUPLE CIRCUIT NO. 2 SIGNAL OUT OF RANGE. THE THERMOCOUPLE CIRCUIT READS LESS THAN -100°F ABSOLUTE OR EGT THERMOCOUPLE NO. 1 READS +150°F MORE THAN EGT NO. 2. SEVERE POWER SECTION DISTRESS CAN ALSO CAUSE A LARGE VARIATION IN EGT NO. 1 AND NO. 2 READINGS.
14	FAILED TOTAL PRESSURE SENSOR/CIRCUIT. THE PT VALUE IS OUT OF ITS NORMAL OPERATING RANGE OR DIFFERS BY MORE THAN 3 PSIG FROM THE P2 SENSOR READING ON THE GROUND AT SPEEDS LESS THAN 12%. A MODERATELY SHIFTED P2 SENSOR OUTPUT COULD ALSO CAUSE THIS MINIFLAG. THIS MINIFLAG CAN BE SET BY MINIFLAG 120.
15	FAILED DIFFERENTIAL PRESSURE SENSOR/CIRCUIT. THE DP VALUE IS OUT OF ITS NORMAL OPERATING RANGE OR HAS AN OUTPUT OF LESS THAN 0.25 PSIG WHEN THE IGV POSITION IS 60 DEGREES (MOSTLY OPEN). THIS MINIFLAG CAN BE SET BY MINIFLAG 120.
16	FAILED AMBIENT PRESSURE (P2) SENSOR/CIRCUIT. THE P2 VALUE IS OUT OF ITS NORMAL OPERATING RANGE OR LESS THAN 8 PSIG ON THE GROUND. THIS MINIFLAG CAN BE SET BY MINIFLAG 120.
17	GENERATOR OIL FILTER SWITCH FAILED OPEN. THE NORMALLY CLOSED GENERATOR OIL FILTER SWITCH IS OPEN PRIOR TO APU OPERATION.
18	COOLING FAN ISOLATION VALVE FAILED. THE NORMALLY OPEN COOLING FAN ISOLATION VALVE SWITCH IS CLOSED PRIOR TO OPERATION OR OPEN DURING APU OPERATION.
19	LOP SWITCH CIRCUIT FAILED CLOSED. THE LOP SWITCH CIRCUIT IS CLOSED (SHORTED) PRIOR TO START.
21	ECU FLOW DIVIDER DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
23	ECS DEMAND SIGNAL OUT OF RANGE. THE ECS DEMAND SIGNAL IS LESS THAN -0.3V DC OR GREATER THAN 9.9V DC DURING APU OPERATION IN ECS MODE (MINIFLAG 133).
25	FUEL SOLENOID CIRCUIT FAILED. THE FUEL SOLENOID CIRCUIT IS OPEN OR SHORTED.
26	DEOIL SOLENOID CIRCUIT FAILED. THE DEOIL SOLENOID CIRCUIT IS OPEN OR SHORTED.

ECU MINIFLAG DESCRIPTION  
TABLE C

APU BITE Procedure  
Figure 103 (Sheet 7)

EFFECTIVITY

ALL

**49-11-00**

02A

Page 109  
Aug 22/01

E61443


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

NUMBER	DESCRIPTION
27	FLOW DIVIDER SOLENOID CIRCUIT FAILED. THE FLOW DIVIDER SOLENOID CIRCUIT IS OPEN OR SHORTED.
28	IGNITION UNIT CIRCUIT FAILED. THE IGNITION UNIT CIRCUIT IS OPEN OR SHORTED.
29	ECU DEOIL SOLENOID DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
30	ECU FUEL SOLENOID DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
32	ECU IGNITION UNIT DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
33	ECU STARTER CIRCUIT DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
34	AIRPLANE STARTER CIRCUIT FAILED. VOLTAGE WAS FOUND AT THE START MOTOR AT GREATER THAN 95% SPEED OR NO START MOTOR VOLTAGE IS FOUND DURING START CYCLE.
35	START MOTOR FAILED. VOLTAGE EXISTS ON THE START MOTOR BUT NO APU ROTATION IS FOUND AFTER 14.5 SECONDS.
36	ECU SCV DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
37	ECU FUEL CONTROL TORQUE MOTOR DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
38	ECU IGV ACTUATOR DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
39	ECU FUEL CONTROL TORQUE MOTOR DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
41	FUEL CONTROL TORQUE MOTOR FAILED. THE FUEL CONTROL TORQUE MOTOR CIRCUIT IS OPEN OR SHORTED.
42	IGV ACTUATOR FAILED. THE IGV TORQUE MOTOR OR LVDT IS SHORTED OR OPEN OR COMMANDED IGV POSITION DOES NOT AGREE WITH ACTUAL IGV POSITION BY 10 DEGREES FOR MORE THAN 6 SECONDS (SEE MINIFLAGS 66,106,126, AND 127 FIRST IF PRESENT).
43	SURGE CONTROL VALVE TORQUE MOTOR FAILED. THE SURGE CONTROL VALVE TORQUE MOTOR CIRCUIT IS OPEN OR SHORTED.
44	ECU EGT NO. 1 SIGNAL CONDITIONER FAILED. INTERNAL ECU FAILURE WAS FOUND.
45	ECU EGT NO. 2 SIGNAL CONDITIONER FAILED. INTERNAL ECU FAILURE WAS FOUND.
46	ECU OVERTEMPERATURE TEST FAILURE. INTERNAL ECU FAILURE WAS FOUND DURING APU SHUTDOWN.
47	INLET DOOR RELAY FAILED. AN OVERCURRENT WAS FOUND ON THE INLET DOOR RELAY CIRCUIT.
48	ECU FAILED. THIS MINIFLAG INDICATES INTERNAL ECU FAILURES AND IS SET BY MINIFLAGS 3-6,21, 29-33,37,39,44,45,46,65,82-89,92-100,105,107,112-119,121-125 OR 128. IT CAN ALSO BE SET BY MINIFLAGS 36 OR 38.
65	ECU HI-WINS SPEED CIRCUIT FAILURE. INTERNAL ECU FAILURE WAS FOUND.
66	IGV POSITION DOES NOT MATCH COMMAND. COMMANDED IGV POSITION DOES NOT AGREE WITH ACTUAL IGV POSITION BY 10 DEGREES FOR MORE THAN 6 SECONDS DURING APU OPERATION.
75	AIRPLANE MAINTENANCE LAMP CIRCUIT OVERCURRENT
76	AIRPLANE BLEED AIR RELAY OVERCURRENT
77	AIRPLANE GENERATOR AVAILABLE RELAY OVERCURRENT
78	AIRPLANE FAULT RELAY OVERCURRENT
82	FUEL TORQUE MOTOR OVERCURRENT. THE FUEL CONTROL TORQUE MOTOR CIRCUIT IS SHORTED.
83	ECU LCIT CONDITIONER FAILED. INTERNAL ECU FAILURE WAS FOUND.

ECU MINIFLAG DESCRIPTION  
TABLE C

APU BITE Procedure  
Figure 103 (Sheet 8)

EFFECTIVITY

ALL

49-11-00

01A

Page 110  
Nov 10/95

E77818


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

NUMBER	DESCRIPTION
84	ECU DEOIL SOLENOID DRIVER FAILED OPEN. INTERNAL ECU FAILURE WAS FOUND.
86	ECU AIRPLANE BLEED RELAY OPEN. INTERNAL ECU FAILURE WAS FOUND.
89	ECU FUEL SOLENOID DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
90	FUEL SOLENOID CIRCUIT OPEN. THIS MINIFLAG SETS MINIFLAG 25.
91	IGNITION UNIT CIRCUIT FAILED OPEN. THIS MINIFLAG SETS MINIFLAG 28.
92	ECU IGNITION UNIT DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
94	ECU BLEED AIR DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
95	ECU FLOW DIVIDER DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
97	ECU STARTER RELAY DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
99	ECU BLEED AIR DRIVER OPEN. INTERNAL ECU FAILURE WAS FOUND.
100	ECU BLEED AIR DRIVER SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER IS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
101	FUEL CONTROL TORQUE MOTOR FAILED OPEN. THE FUEL CONTROL TORQUE MOTOR CIRCUIT IS OPEN CIRCUIT. THIS MINIFLAG SETS MINIFLAG 41.
105	ECU IGV ACTUATOR DRIVER FAILED OPEN. INTERNAL ECU FAILURE WAS FOUND.
106	IGV ACTUATOR TORQUE MOTOR FAILED. THE IGV ACTUATOR TORQUE MOTOR IS FAILED OPEN OR SHORT CIRCUIT.
107	ECU SCV DRIVER FAILED OPEN. INTERNAL ECU FAILURE WAS FOUND.
108	FUEL SOLENOID MECHANICALLY STUCK. THE APU DID NOT SHUTDOWN WHEN THE SOLENOID WAS COMMANDED OFF.
112	ECU MAGNETIC RELAY FAILED. THE ECU MAGNETIC LATCH WAS FOUND FAILED DURING SHUTDOWN.
116	ECU FAILED +15V DC POWER SUPPLY. INTERNAL ECU FAILURE WAS FOUND.
117	ECU FAILED -10V DC POWER SUPPLY. INTERNAL ECU FAILURE WAS FOUND.
118	ECU FAILED -15V DC POWER SUPPLY. INTERNAL ECU FAILURE WAS FOUND.
119	ECU FAILED +5V DC POWER SUPPLY. INTERNAL ECU FAILURE WAS FOUND.
120	ECU PRESSURE REFERENCE POWER SUPPLY FAILED LOW. 0V DC WAS FOUND ON THE REFERENCE POWER SUPPLY. THERE IS A POSSIBLE ECU FAILURE OR AN EXTERNAL SHORT.
121	ECU +10V A/D CONVERTER POWER SUPPLY FAILED LOW. INTERNAL ECU FAILURE WAS FOUND.
122	ECU +10V A/D CONVERTER POWER SUPPLY FAILED HIGH. INTERNAL ECU FAILURE WAS FOUND.
123	ECU 0V A/D CONVERTER REFERENCE FAILED LOW. INTERNAL ECU FAILURE WAS FOUND.
124	ECU 0V A/D CONVERTER REFERENCE FAILED HIGH. INTERNAL ECU FAILURE WAS FOUND.
125	ECU PRESSURE REFERENCE POWER SUPPLY FAILED HIGH. INTERNAL ECU FAILURE WAS FOUND.

ECU MINIFLAG DESCRIPTION  
TABLE C

APU BITE Procedure  
Figure 103 (Sheet 9)

EFFECTIVITY

ALL

**49-11-00**

01A

Page 111  
Apr 22/05

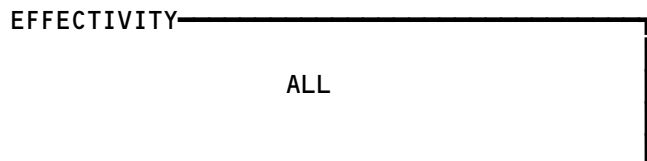
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**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

NUMBER	DESCRIPTION
126	IGV ACTUATOR LVDT VOLTAGE OUT OF RANGE. THE IGV ACTUATOR LVDT VOLTAGE IS OUT OF ITS EXPECTED RANGE.
127	IGV ACTUATOR LVDT SECONDARY VOLTAGE OUT RANGE. THE IGV ACTUATOR LVDT SECONDARY VOLTAGE IS OUT OF ITS EXPECTED RANGE.
128	IGV ACTUATOR LVDT PRIMARY VOLTAGE OUT OF RANGE. THE IGV ACTUATOR LVDT PRIMARY VOLTAGE IS OUT OF ITS EXPECTED RANGE.
<b>DIAGNOSTIC MINIFLAGS ACTIVE DURING APU OPERATION</b>	
130	DUCT PRESSURIZATION MODE ACTIVE. THE APU IS CURRENTLY OPERATING IN DUCT PRESSURIZATION MODE.
131	ADP MODE ACTIVE. THE APU IS CURRENTLY OPERATING IN AIR DRIVEN PUMP MODE.
132	INFLIGHT OPERATION MODE ACTIVE. THE APU IS CURRENTLY OPERATING IN IN-FLIGHT OPERATION MODE.
133	ECS MODE ACTIVE. THE APU IS CURRENTLY OPERATING IN ECS MODE.
134	MES MODE ACTIVE. THE APU IS CURRENTLY OPERATING IN MAIN ENGINE START MODE.
140	SCV IS COMMANDED CLOSED. THE SURGE CONTROL VALVE TORQUE MOTOR COMMAND IS GREATER THAN 95 MILLIAMPS.
141	SCV IS COMMANDED OPEN. THE SURGE CONTROL VALVE TORQUE MOTOR COMMAND IS LESS THAN 10 MILLIAMPS.
142	IGV POSITION DOES NOT AGREE WITH COMMANDED POSITION. THE ACTUAL IGV POSITION IS CURRENTLY AT LEAST 5 DEGREES DIFFERENT THAN THE COMMANDED POSITION.
143	APU IS OPERATING ON EGT TEMPERATURE TRIM. THE APU IS OPERATING ON EGT TEMPERATURE TRIM WHICH INDICATES A DETERIORATED POWER SECTION WHICH CAN RESULT IN REDUCED PNEUMATIC OUTPUT.

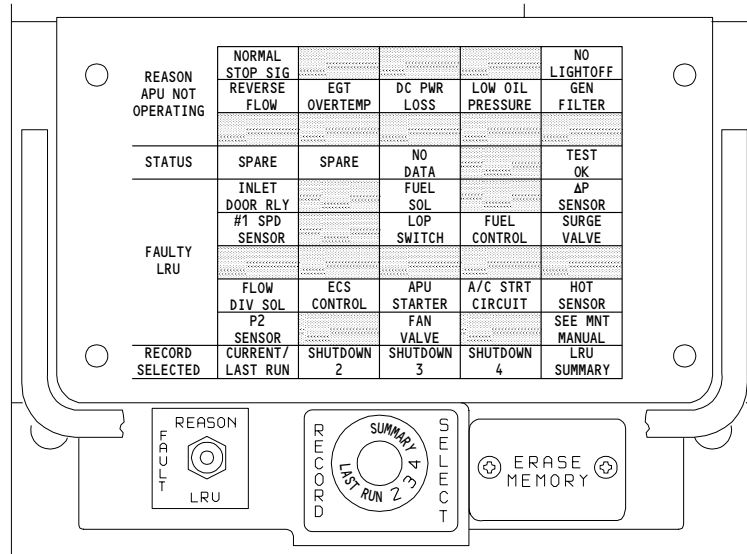
ECU MINIFLAG DESCRIPTION  
TABLE C

APU BITE Procedure  
Figure 103 (Sheet 10)

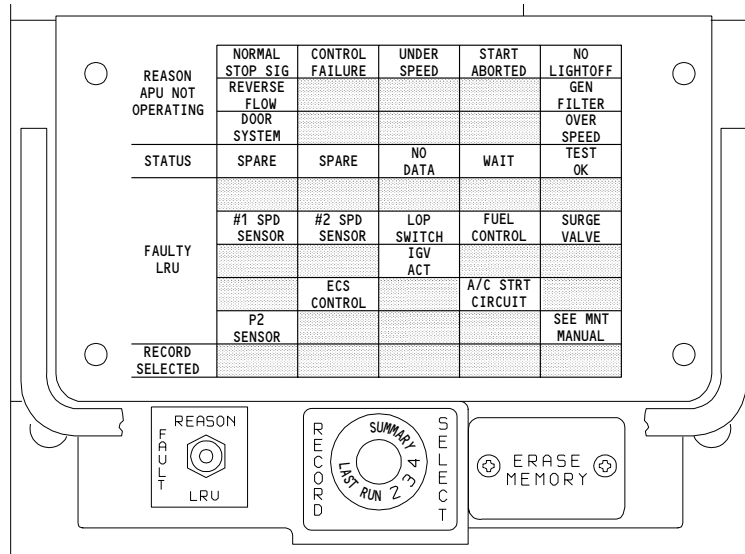


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**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



**MINIFLAG "128"**  
(EXAMPLE OF A MINIFLAG DISPLAY ON ECU)



**MINIFLAG "OK"**  
(EXAMPLE OF A MINIFLAG DISPLAY ON ECU)

APU BITE Procedure  
Figure 103 (Sheet 11)

EFFECTIVITY

ALL

**49-11-00**

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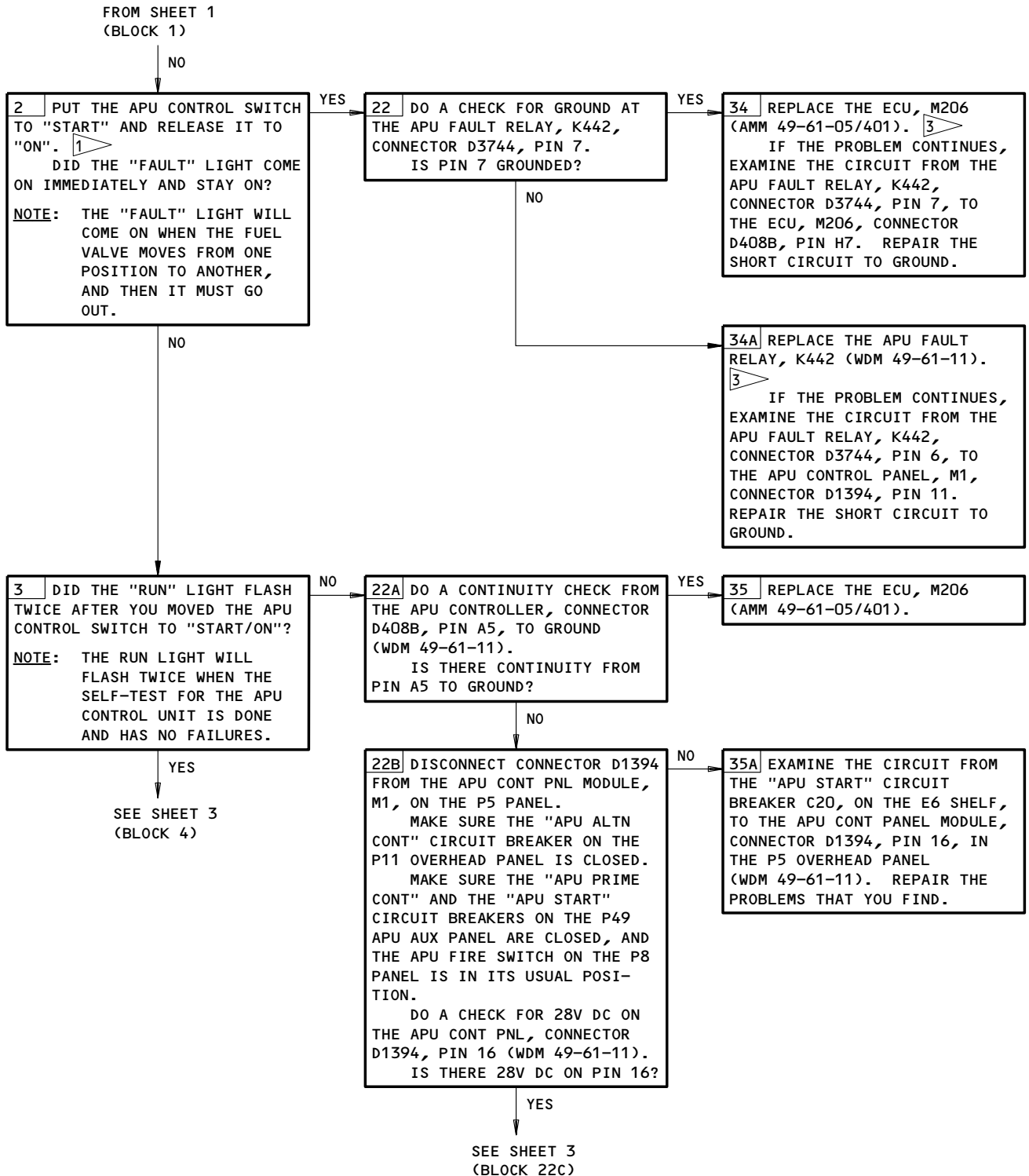
Page 113  
Apr 22/00

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**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL



APU Starting Problems  
Figure 104 (Sheet 2)

EFFECTIVITY

ALL

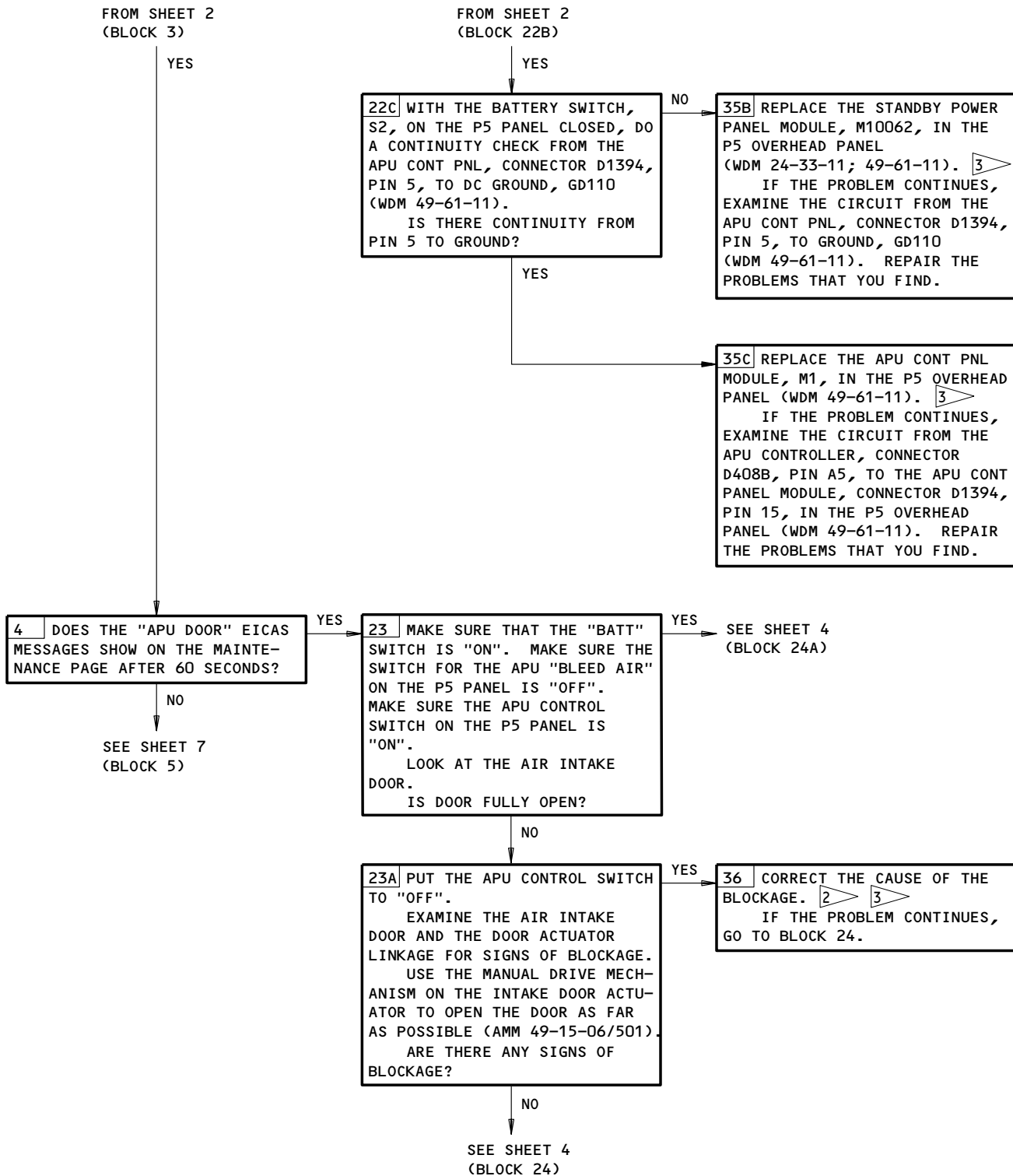
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Page 115  
Apr 22/00

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**BOEING**  
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FAULT ISOLATION/MAINT MANUAL



APU Starting Problems  
Figure 104 (Sheet 3)

EFFECTIVITY

ALL

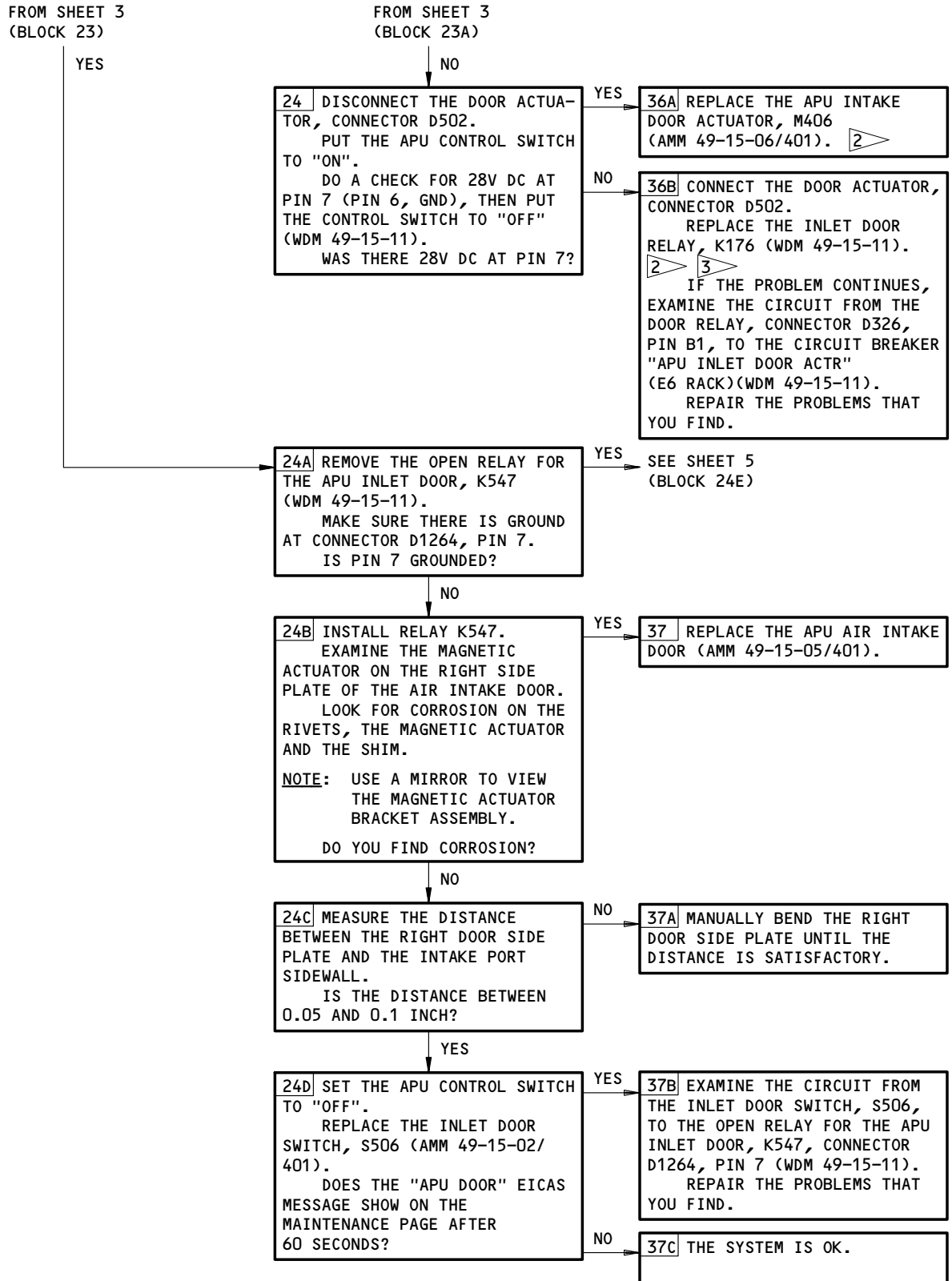
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Page 116  
Apr 22/00

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**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



APU Starting Problems  
Figure 104 (Sheet 4)

EFFECTIVITY

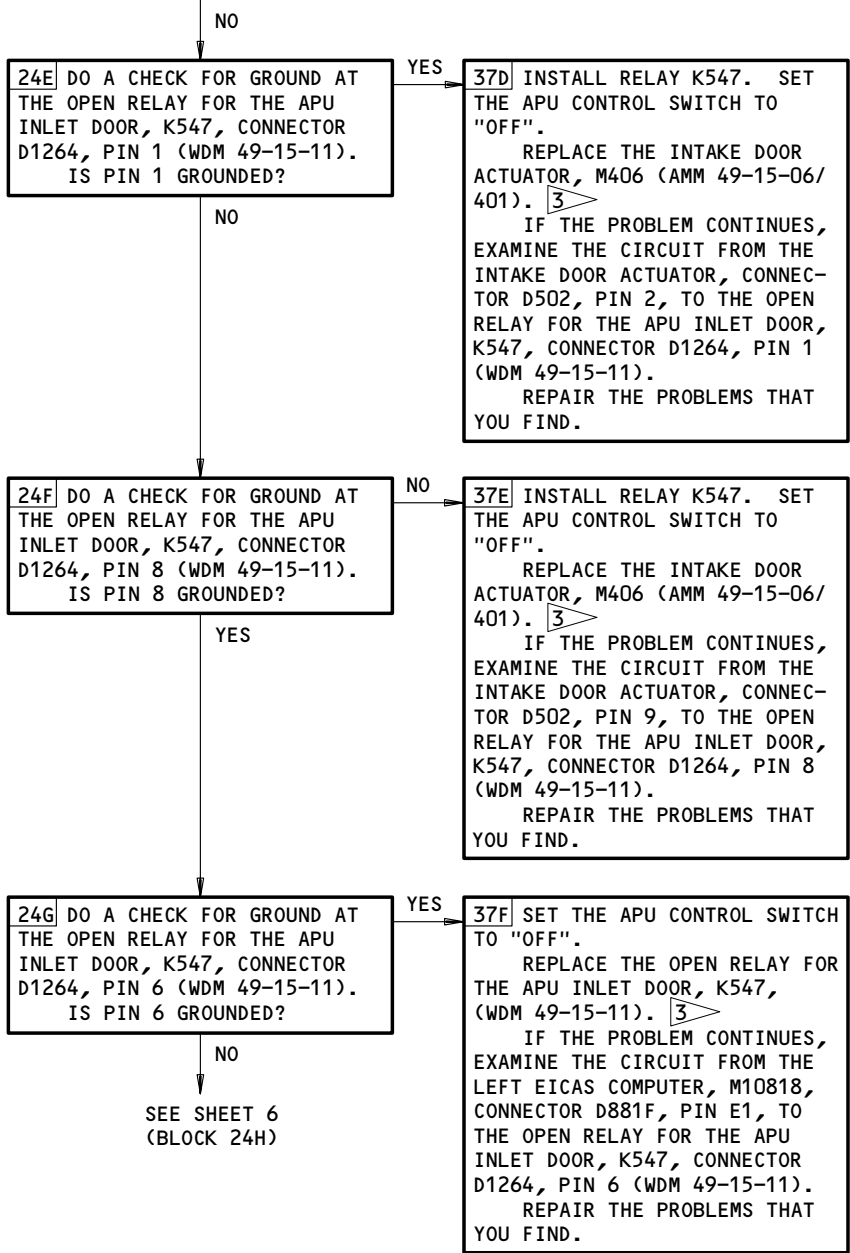
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49-11-00

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Page 117  
Apr 22/00

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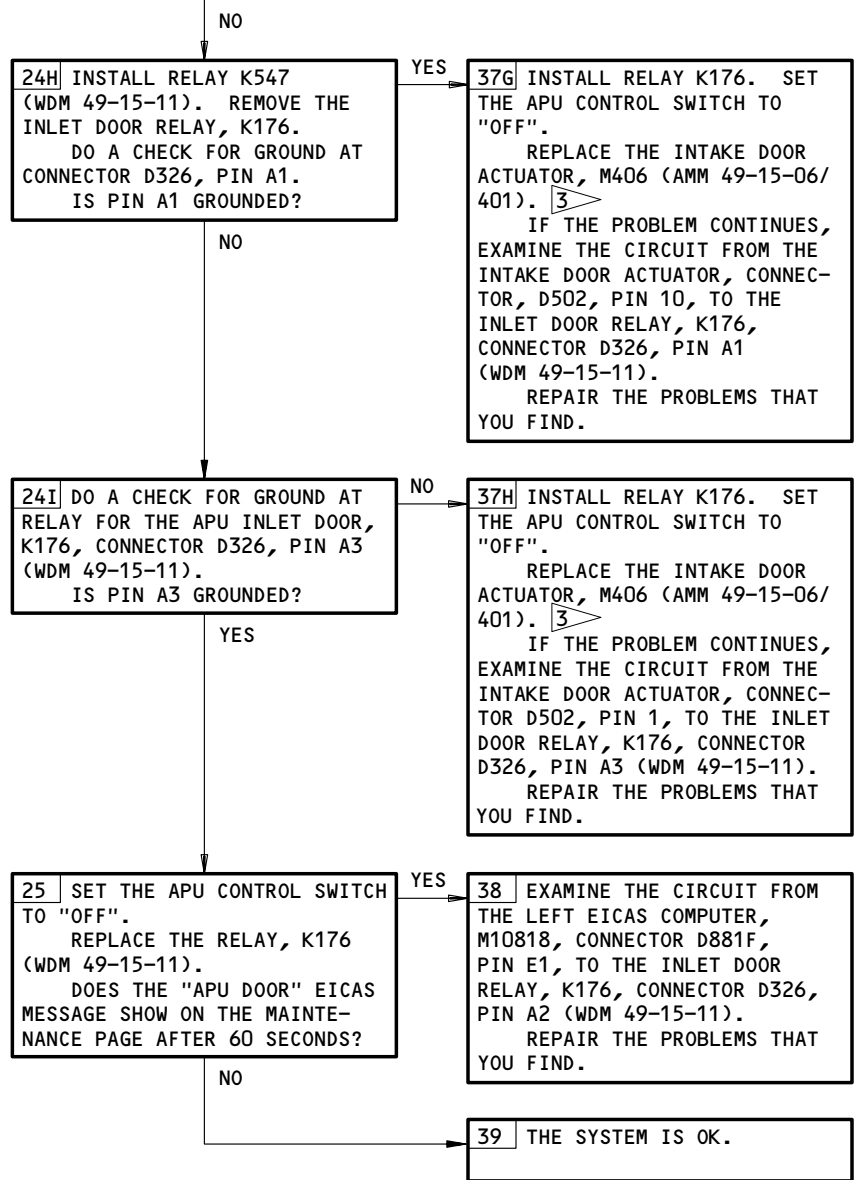
APU Starting Problems  
Figure 104 (Sheet 5)

EFFECTIVITY	ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 5  
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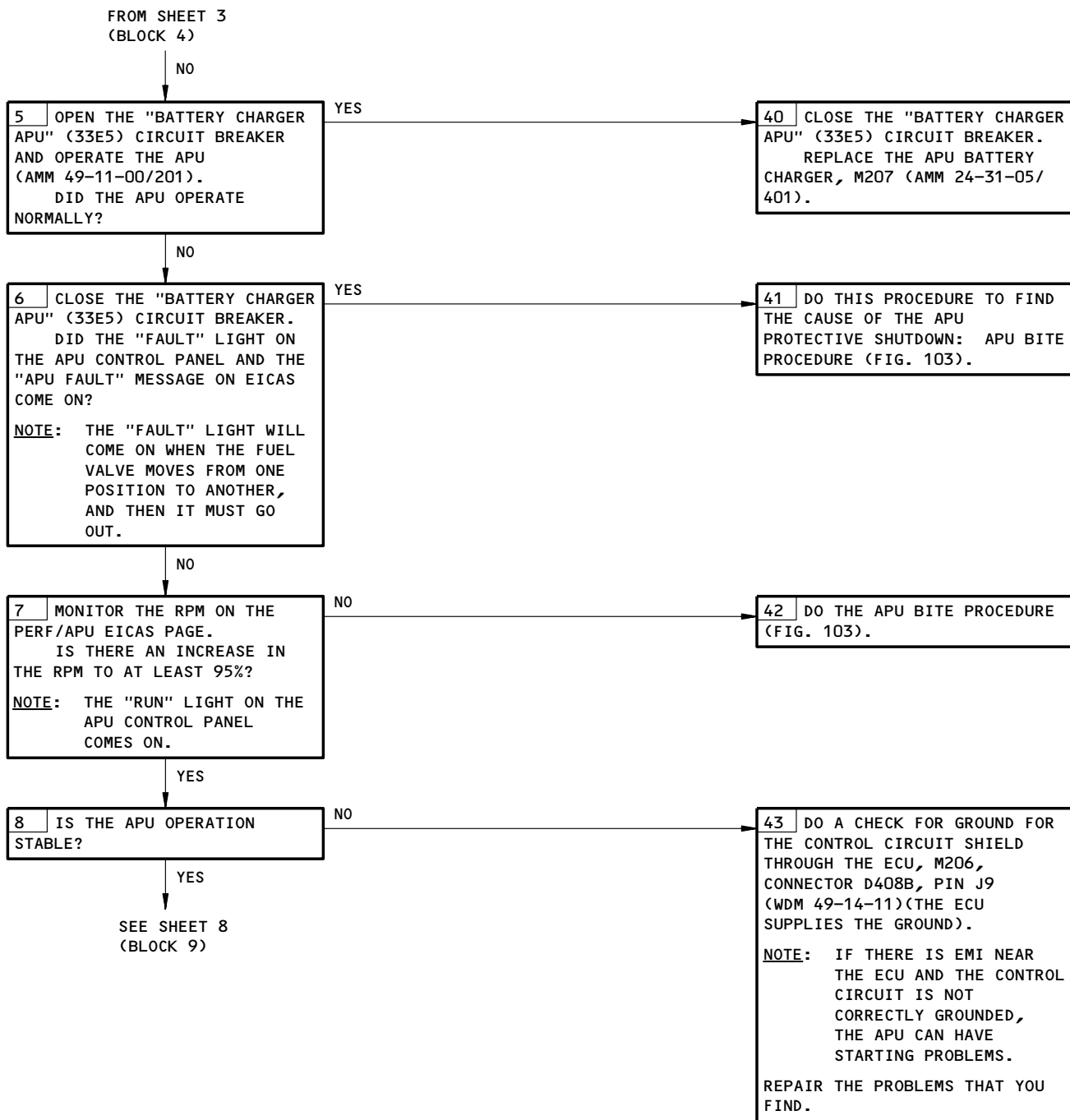
APU Starting Problems  
Figure 104 (Sheet 6)

EFFECTIVITY

ALL
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**49-11-00**

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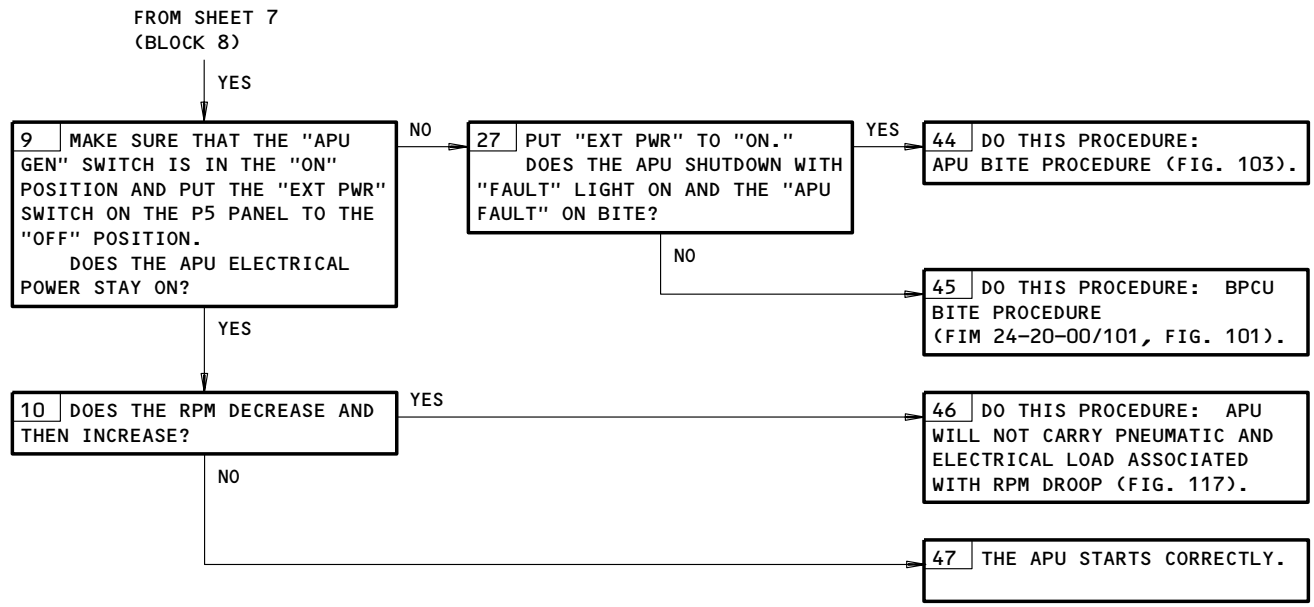


APU Starting Problems  
Figure 104 (Sheet 7)

EFFECTIVITY

ALL
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49-11-00



APU Starting Problems  
Figure 104 (Sheet 8)

EFFECTIVITY

ALL
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49-11-00

E61460



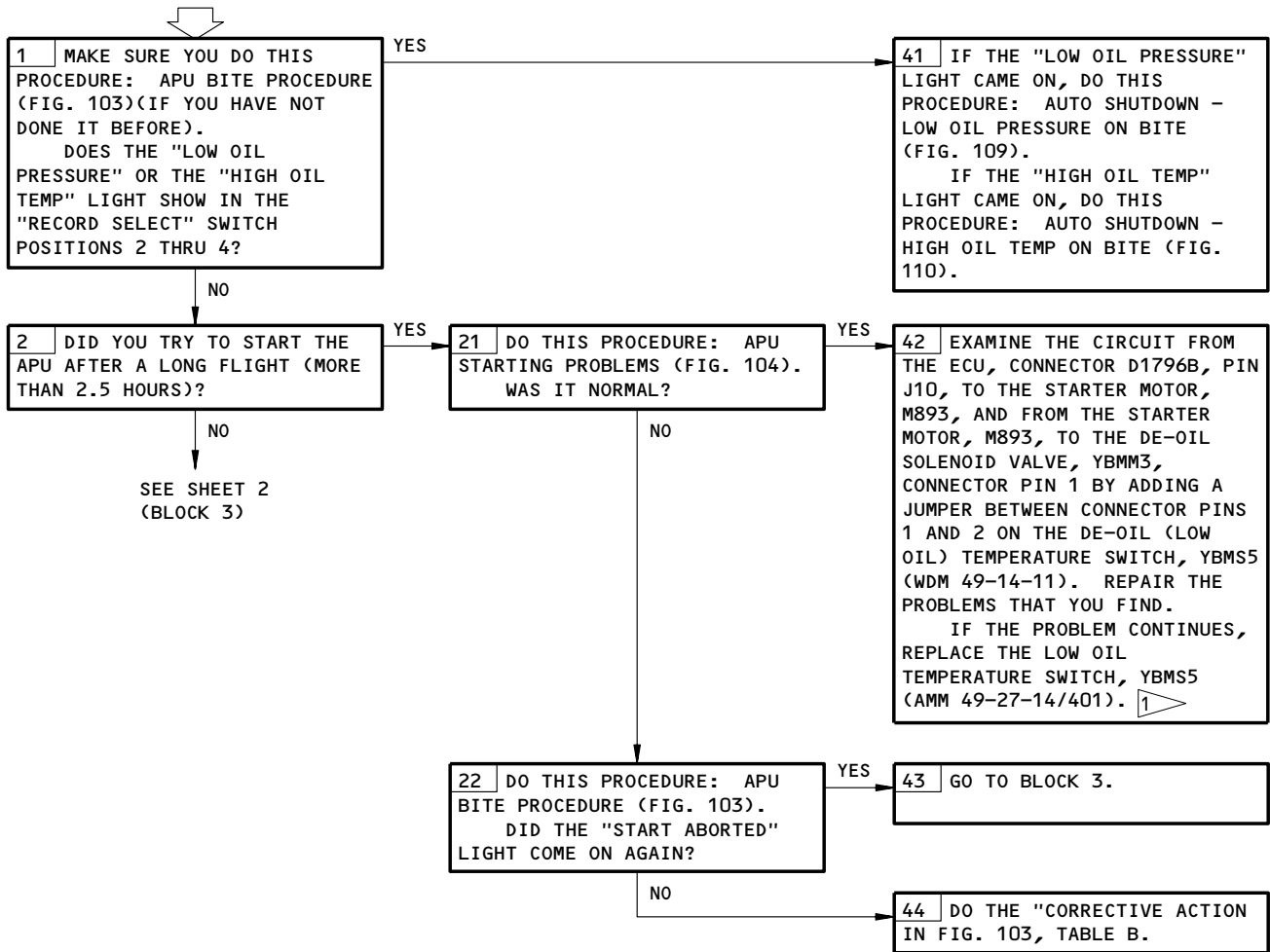
**AUTO SHUTDOWN –  
"START ABORTED" ON  
BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



- <sup>1</sup> AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- <sup>2</sup> IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/401), AND THE APU STARTER CLUTCH (AMM 49-41-06/401).
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

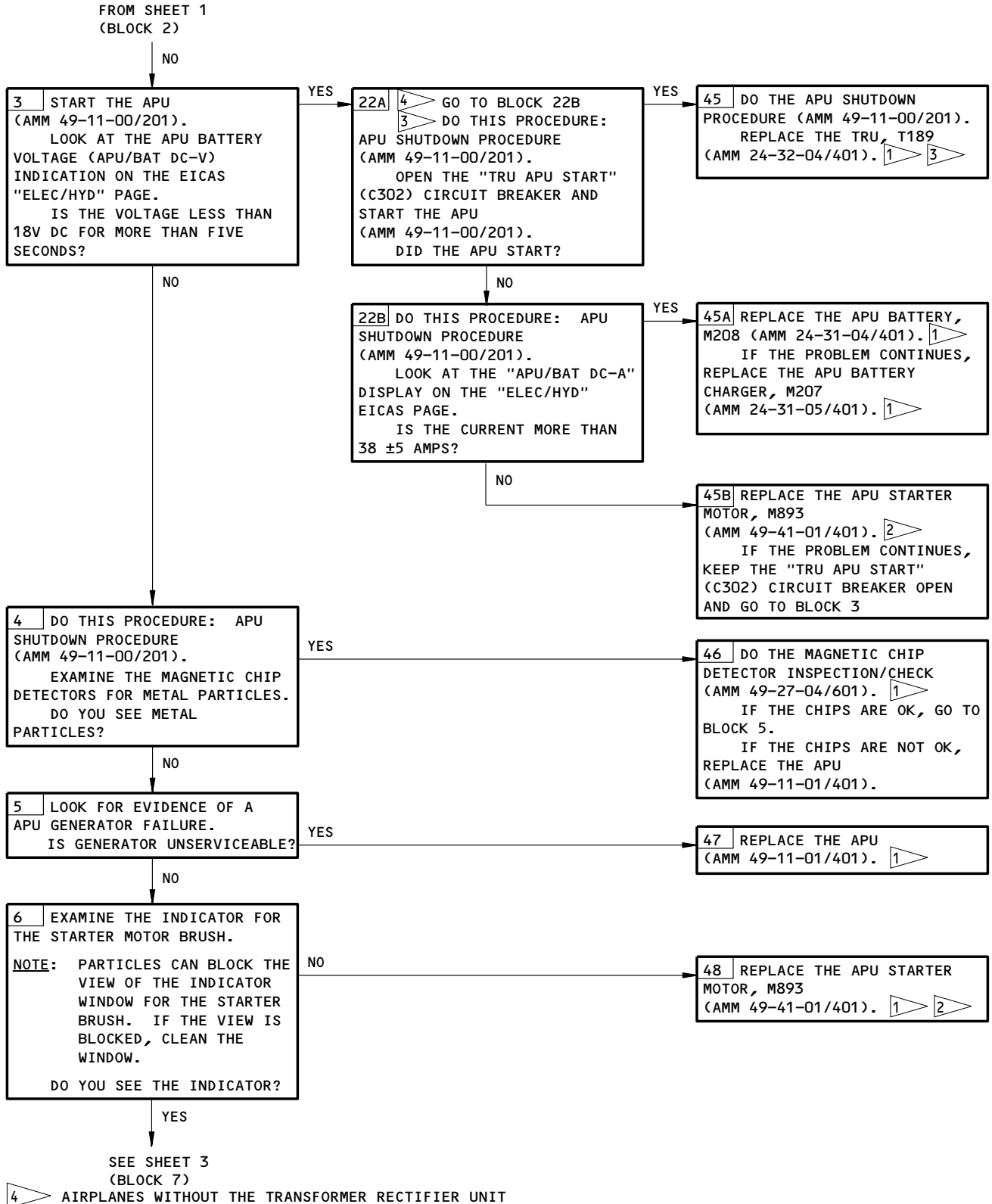
Auto Shutdown – START ABORTED on BITE  
Figure 105 (Sheet 1)

EFFECTIVITY

ALL
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**49-11-00**

L16830



Auto Shutdown - START ABORTED on BITE  
Figure 105 (Sheet 2)

EFFECTIVITY

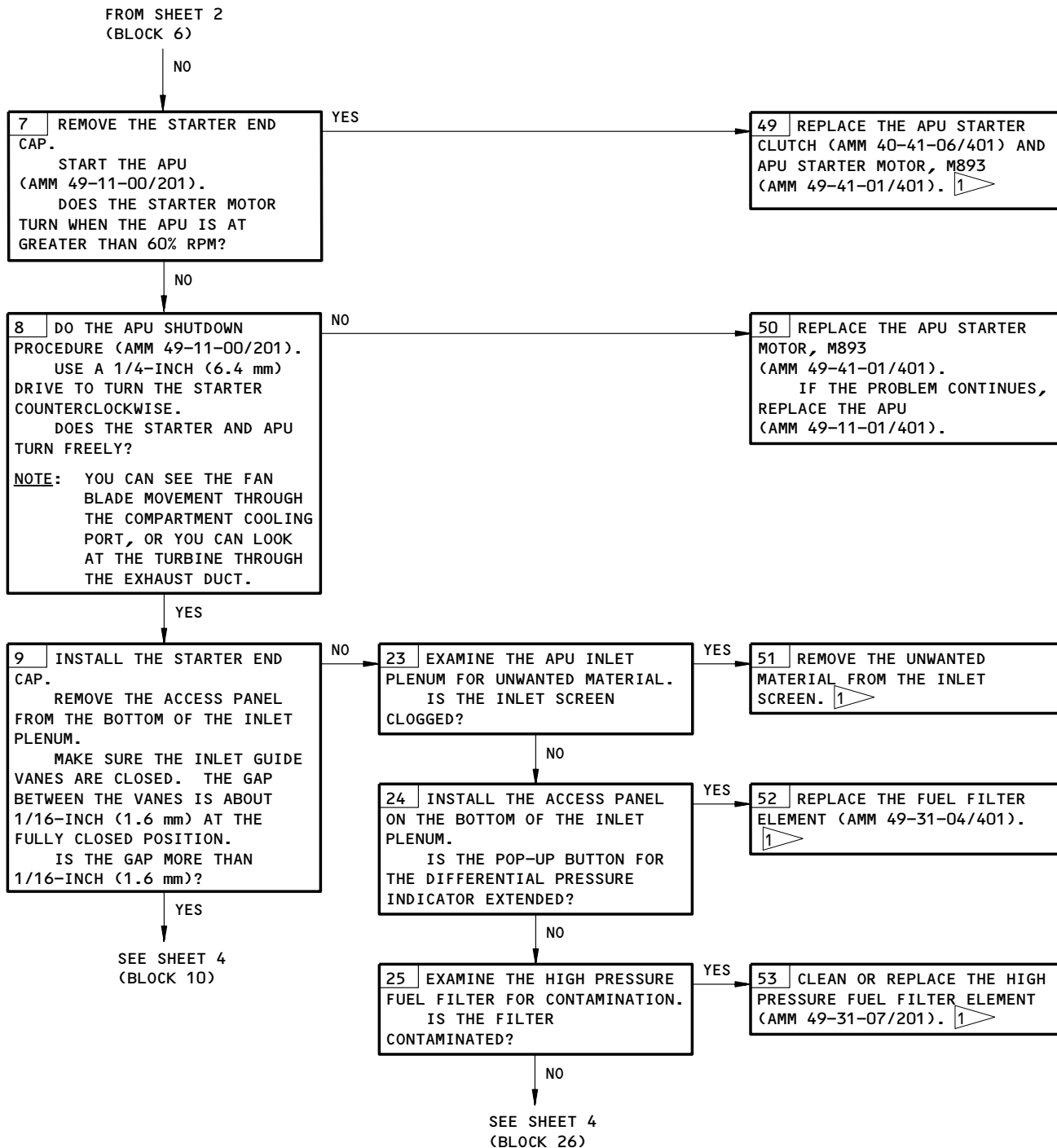
ALL

49-11-00

01A

Page 123  
Dec 22/06

L16854

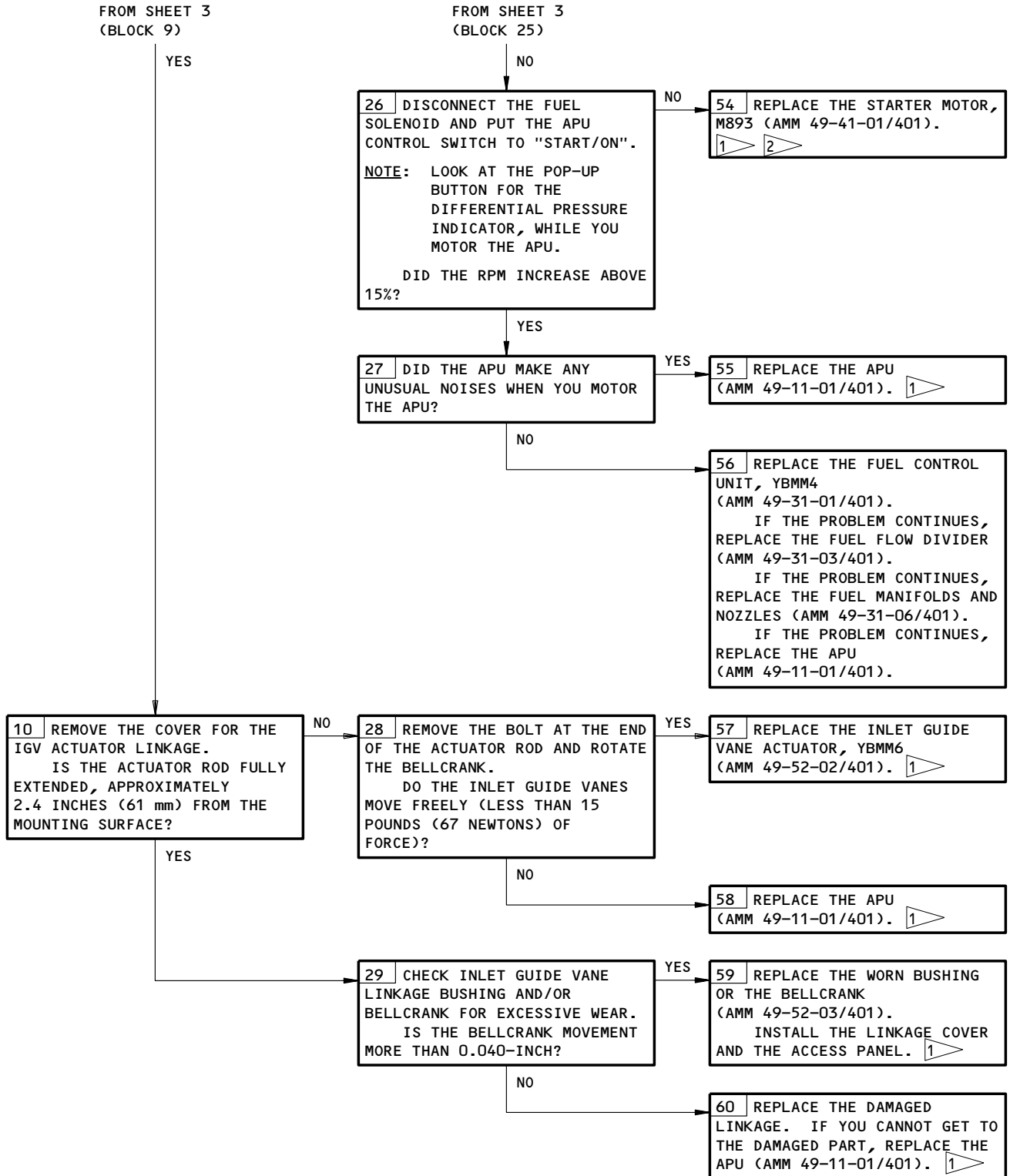


Auto Shutdown – START ABORTED on BITE  
Figure 105 (Sheet 3)

EFFECTIVITY	ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Auto Shutdown – START ABORTED on BITE  
Figure 105 (Sheet 4)

EFFECTIVITY

ALL

**49-11-00**

02A

Page 125  
Aug 22/01

E61478

**AUTO SHUTDOWN -  
"UNDER SPEED" ON  
BITE**

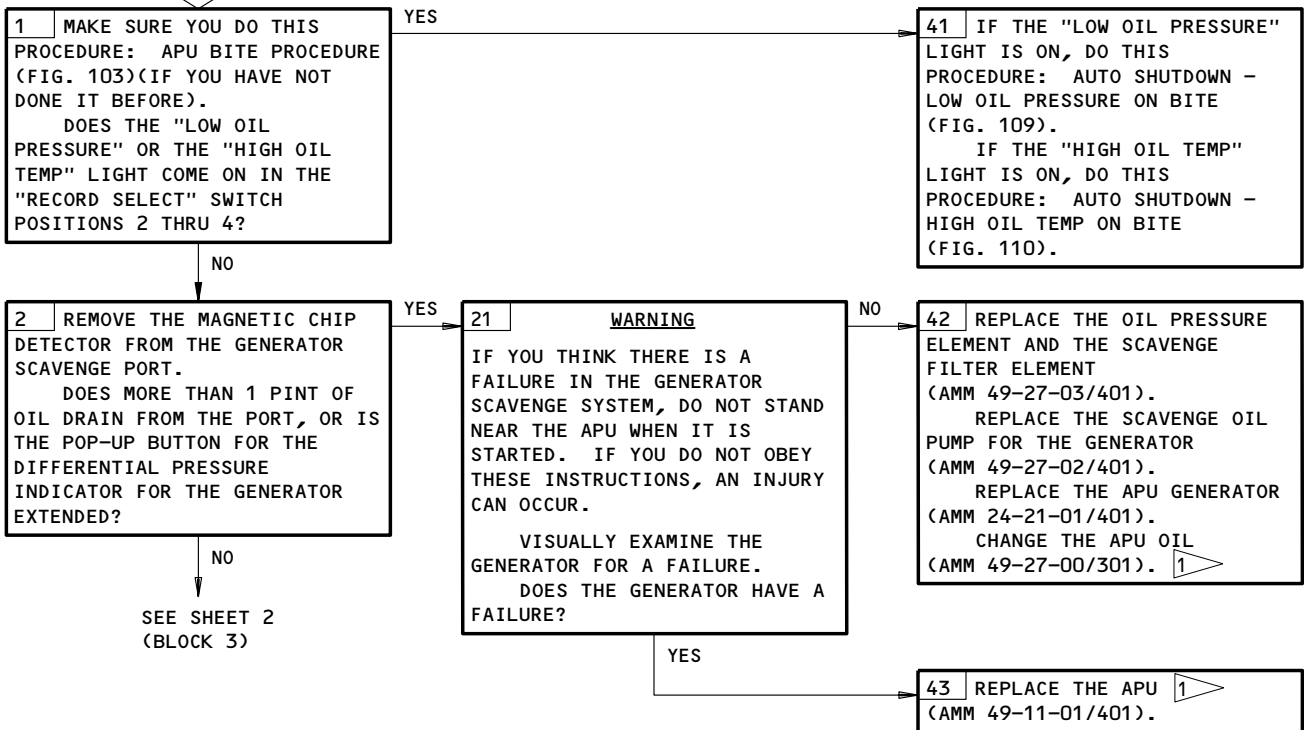
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 4,

APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



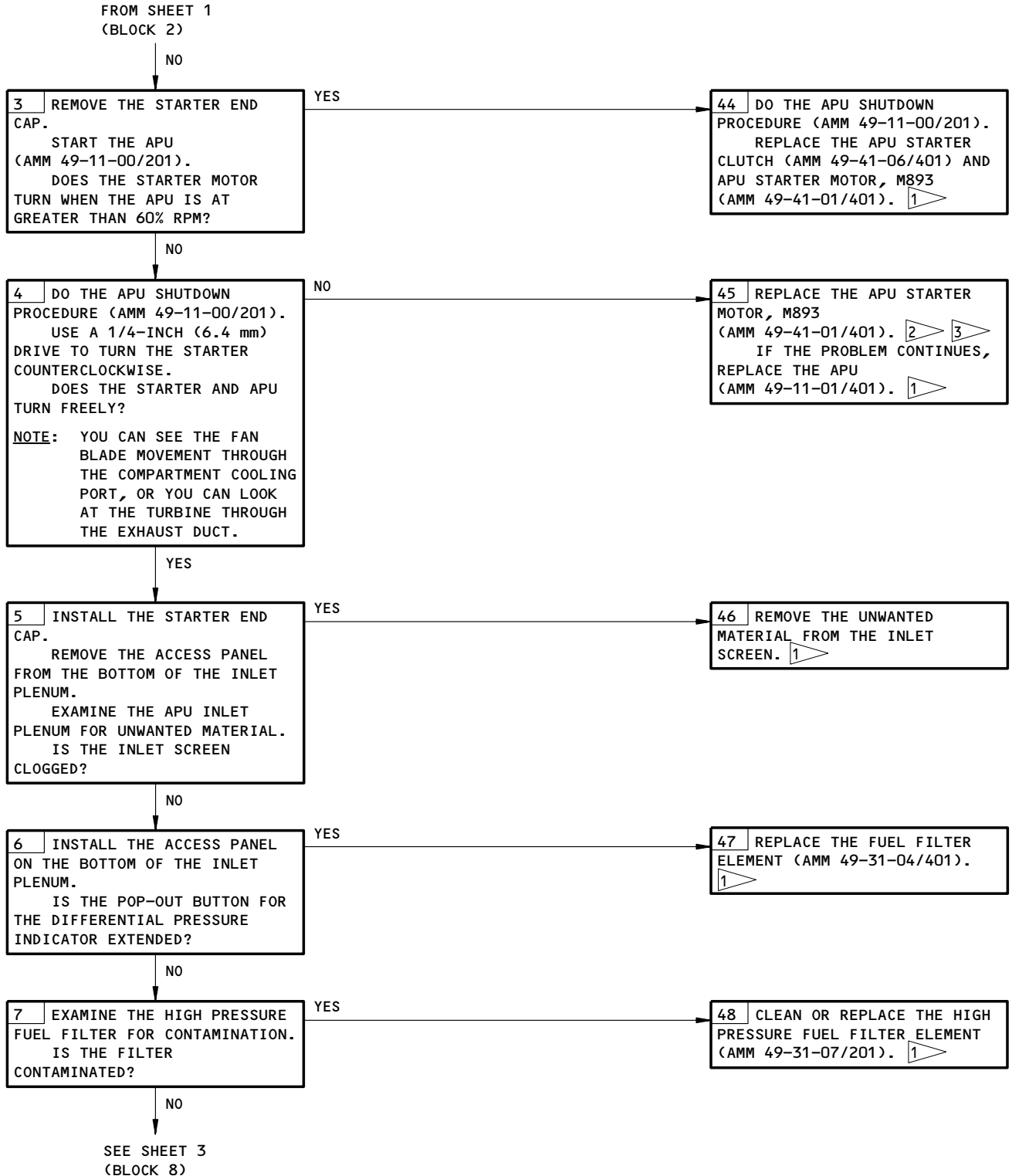
- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/401), AND THE APU STARTER CLUTCH (AMM 49-41-06/401).
- 3 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- 4 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown - UNDER SPEED on BITE  
Figure 106 (Sheet 1)

EFFECTIVITY	ALL
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**49-11-00**

L16841



Auto Shutdown – UNDER SPEED on BITE  
Figure 106 (Sheet 2)

EFFECTIVITY

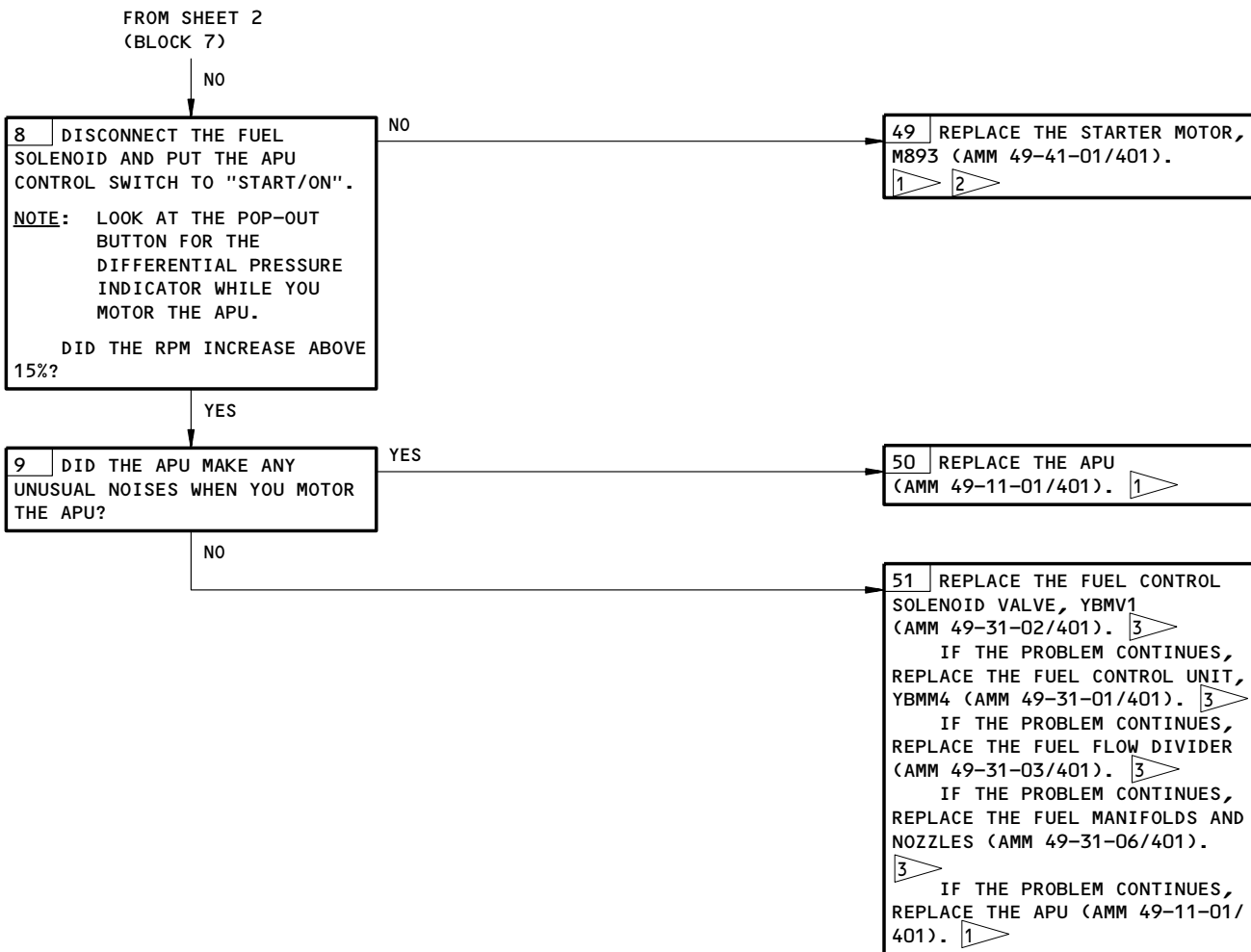
ALL

**49-11-00**

01A

Page 127  
Apr 22/08

E61480



Auto Shutdown - UNDER SPEED on BITE  
Figure 106 (Sheet 3)

EFFECTIVITY	ALL
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49-11-00

**PREREQUISITES**

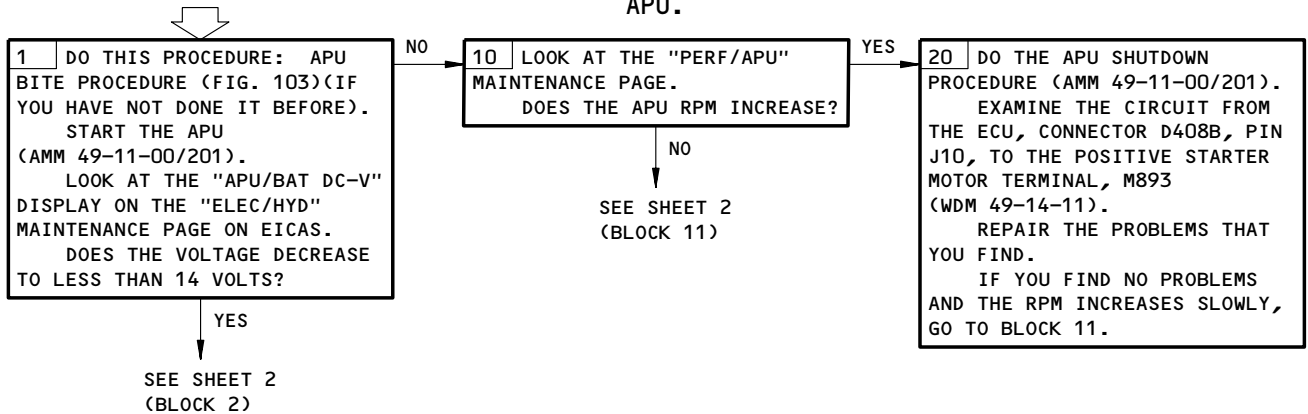
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, APU PRIME  
CONT (49C2), APU START (49C3), APU INLET DR ACT  
(49C4)

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

**FAULTY LRU –  
"A/C STRT CIRCUIT"  
ON BITE**

**CAUTION:** MAKE SURE YOU OBEY THE STARTER DUTY CYCLE  
IN THE APU OPERATION LIMITS (AMM 49-11-00/  
201). IF YOU DO NOT OBEY THESE  
INSTRUCTIONS, YOU CAN CAUSE DAMAGE TO THE  
APU.



- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/401), AND THE APU STARTER CLUTCH (AMM 49-41-06/401).

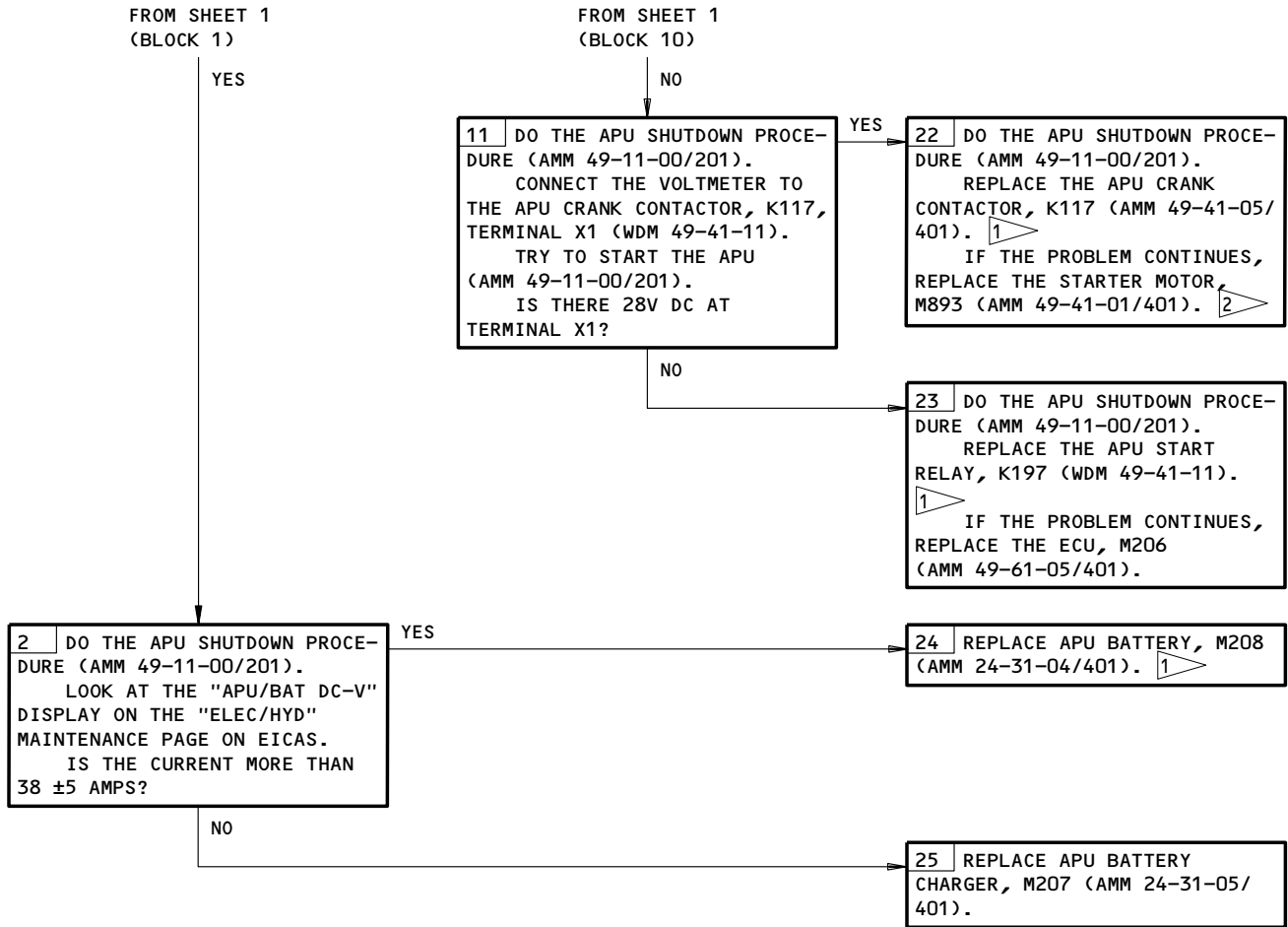
Faulty LRU – A/C STRT CIRCUIT on BITE  
Figure 106A (Sheet 1)

EFFECTIVITY  
AIRPLANES WITHOUT THE TRANSFORMER  
RECTIFIER UNIT

**49-11-00**



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Faulty LRU - A/C STRT CIRCUIT on BITE  
Figure 106A (Sheet 2)

EFFECTIVITY  
AIRPLANES WITHOUT THE TRANSFORMER  
RECTIFIER UNIT

**49-11-00**

**PREREQUISITES**

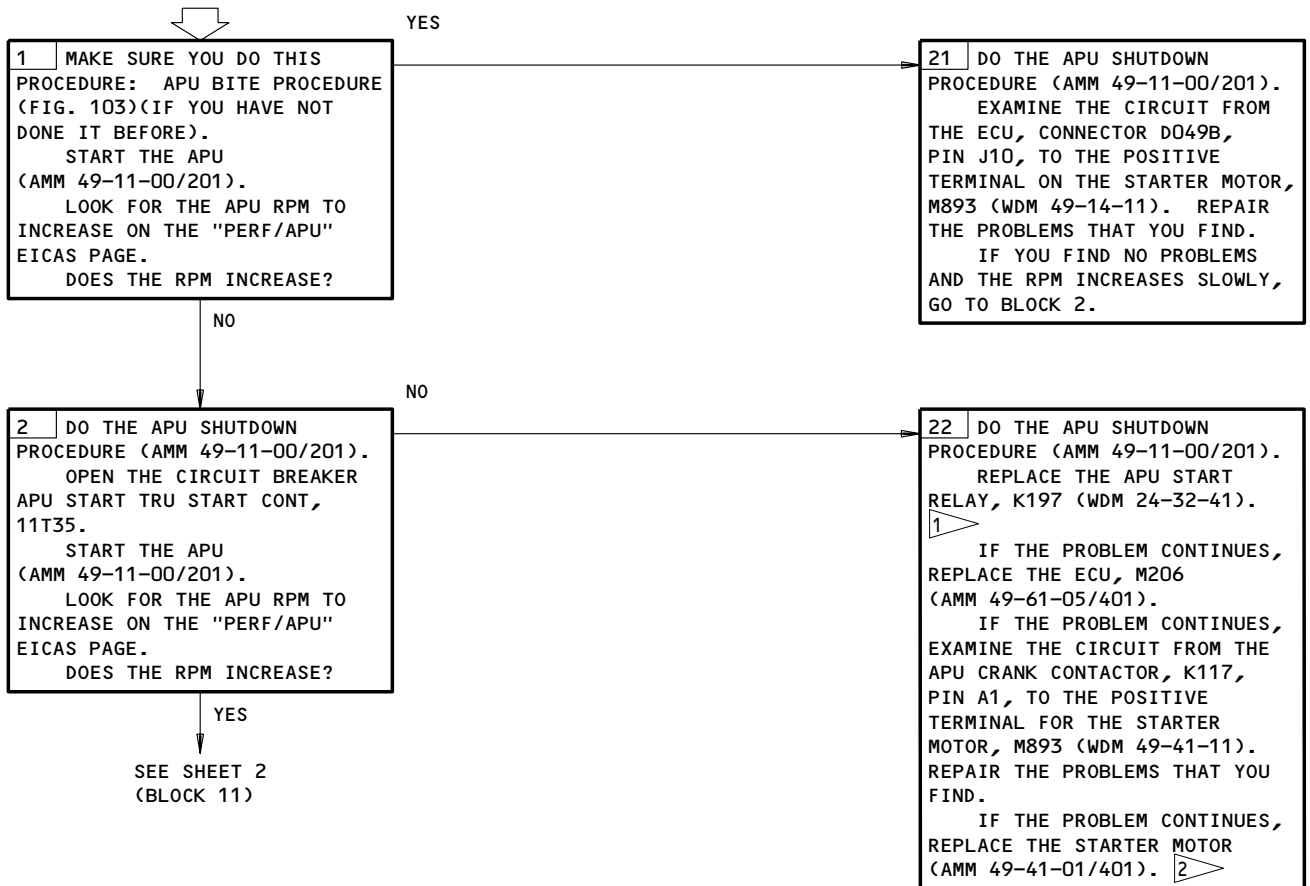
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**CAUTION:** MAKE SURE YOU OBEY THE STARTER DUTY CYCLE IN THE APU OPERATION LIMITS (AMM 49-11-00/ 201). IF YOU DO NOT OBEY THESE INSTRUCTIONS, YOU CAN CAUSE DAMAGE TO THE APU.

**FAULTY LRU -  
"A/C STRT CIRCUIT"  
ON BITE**



- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/401), AND THE APU STARTER CLUTCH (AMM 49-41-06/401).

Faulty LRU - A/C STRT CIRCUIT on BITE  
Figure 106B (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE TRANSFORMER  
RECTIFIER UNIT

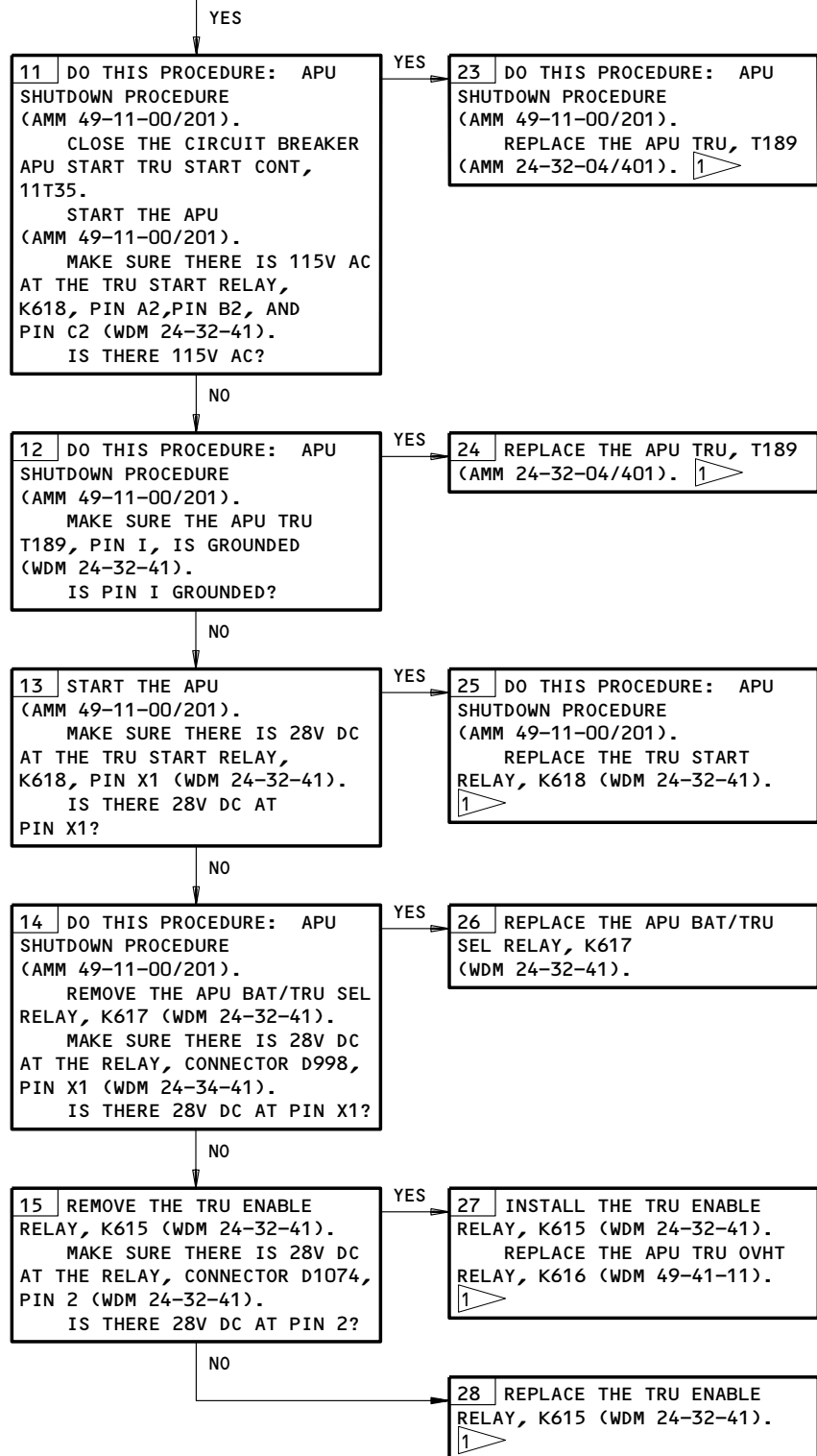
**49-11-00**

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Page 131  
Apr 22/00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



Faulty LRU - A/C STRT CIRCUIT on BITE  
Figure 106B (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE TRANSFORMER  
RECTIFIER UNIT

49-11-00

02A

Page 132  
Apr 22/00

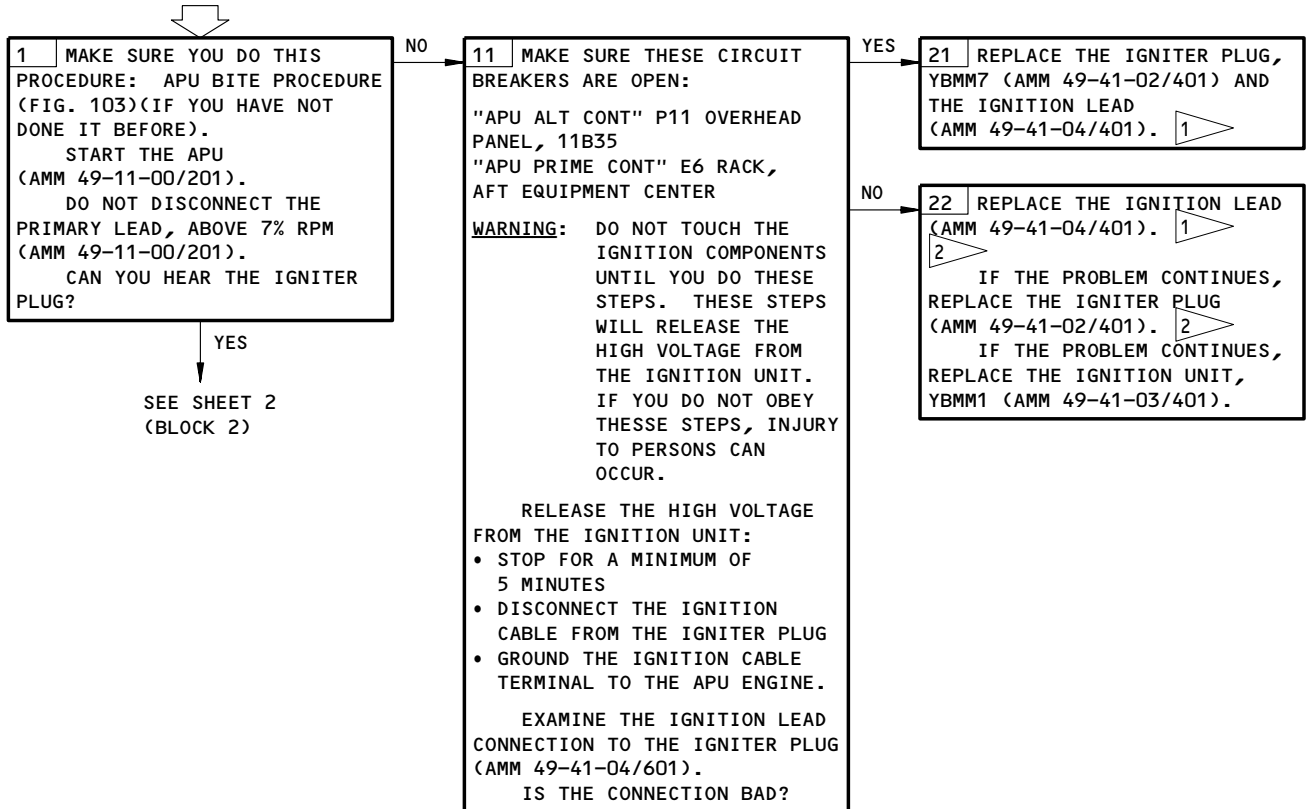
**AUTO SHUTDOWN - "NO LIGHT OFF" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 3,  
APU PRIME CONT (P49), APU START (P49)

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



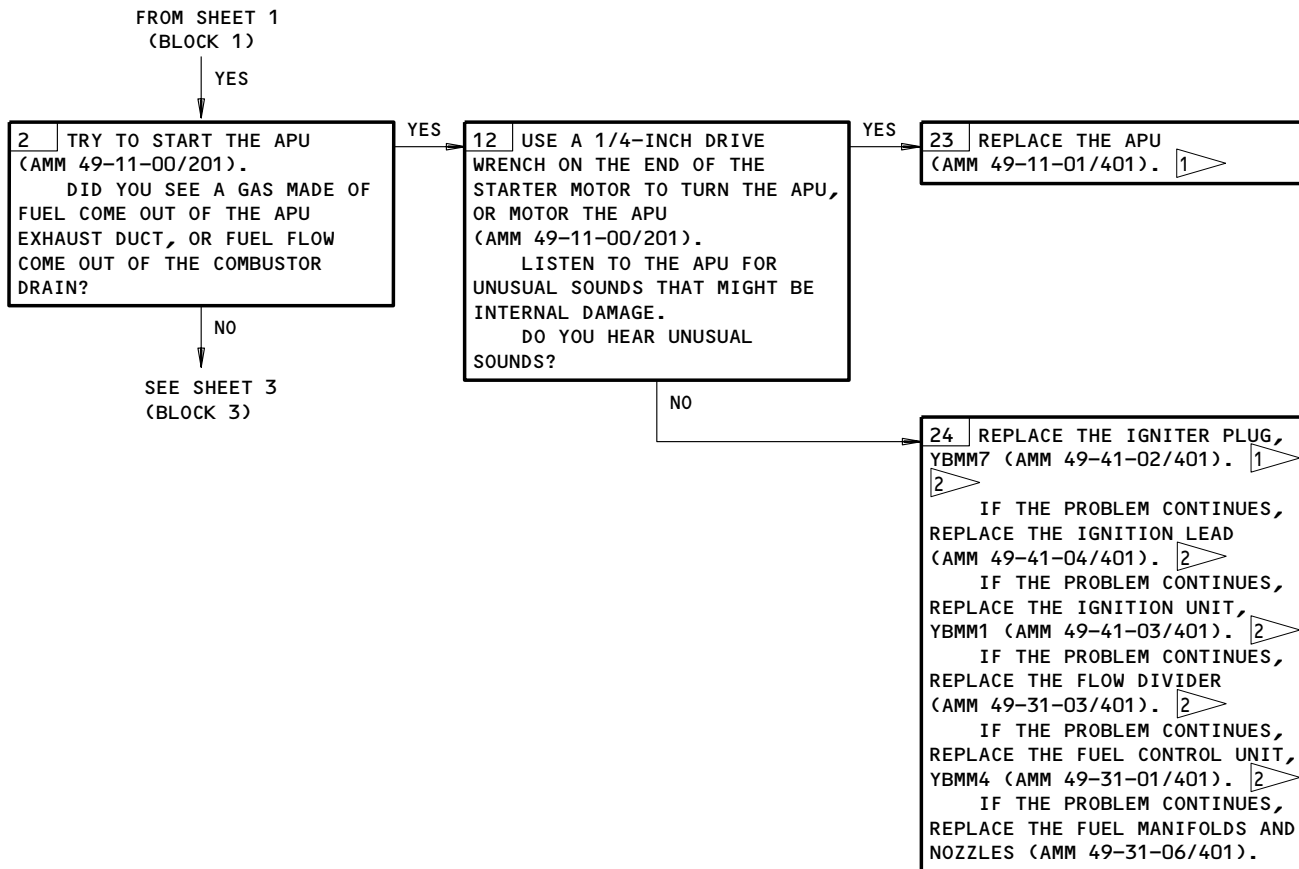
- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- 3 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown - NO LIGHT OFF on BITE  
Figure 107 (Sheet 1)

EFFECTIVITY	ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

Auto Shutdown - NO LIGHT OFF on BITE  
Figure 107 (Sheet 2)

EFFECTIVITY

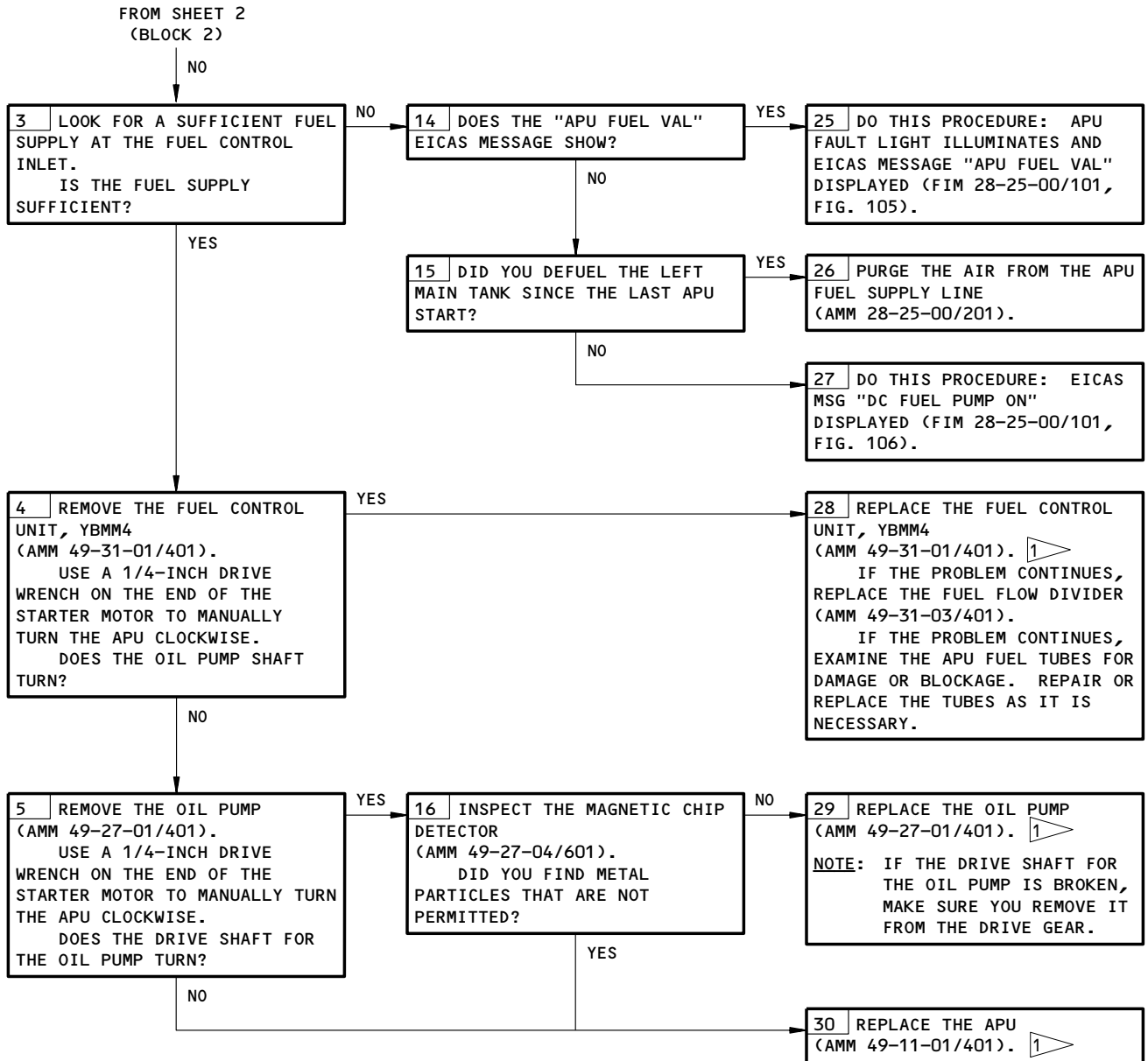
ALL

49-11-00

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Page 134  
Apr 22/00

E78892



1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

Auto Shutdown - NO LIGHT OFF on BITE  
Figure 107 (Sheet 3)

EFFECTIVITY

ALL

49-11-00

01A

Page 135  
Apr 22/07

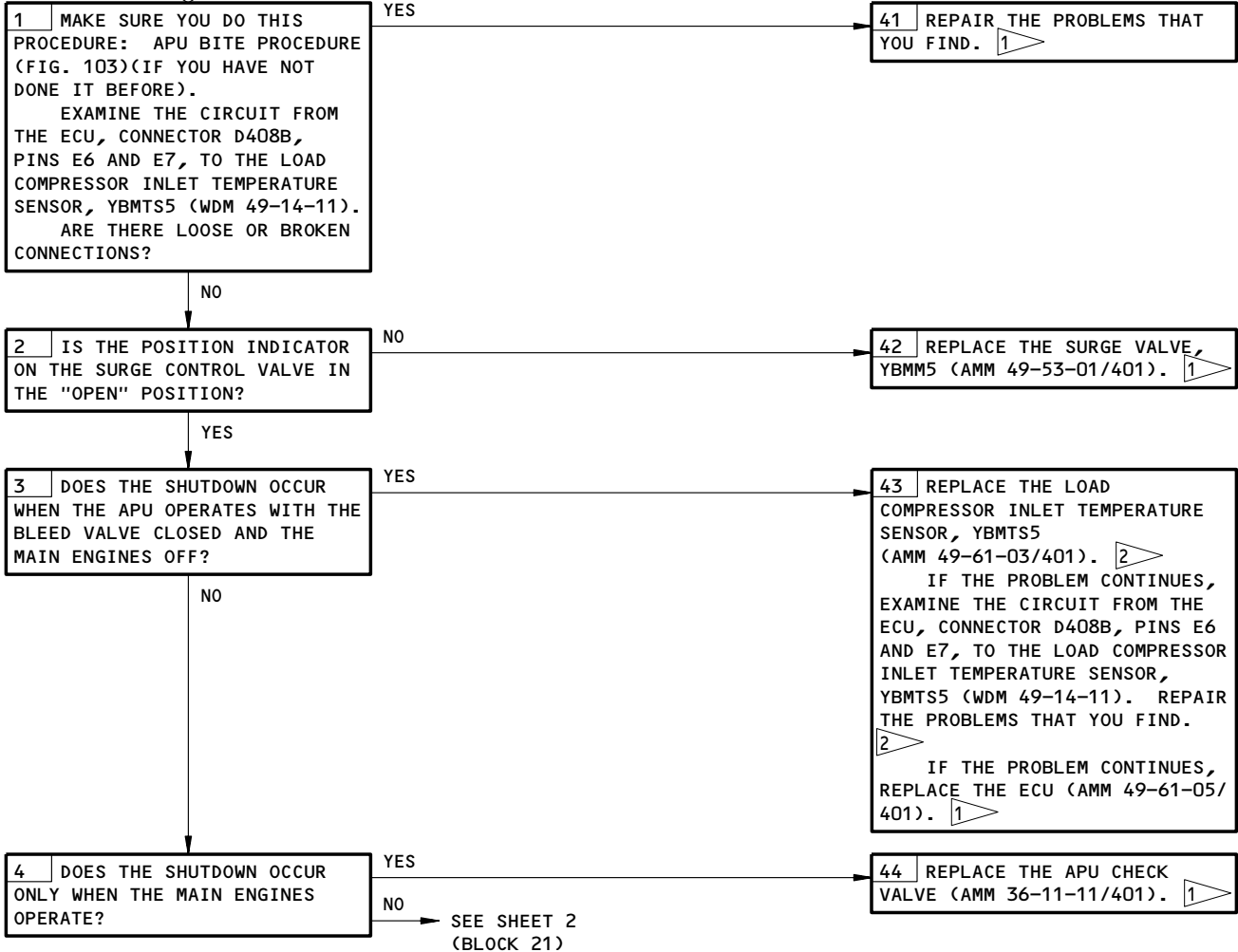
**AUTO SHUTDOWN DURING GOVERNED SPEED - "REVERSE FLOW" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49)

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



- <sup>1</sup> AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- <sup>2</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown During Governed Speed - REVERSE FLOW on BITE  
Figure 108 (Sheet 1)

EFFECTIVITY	ALL
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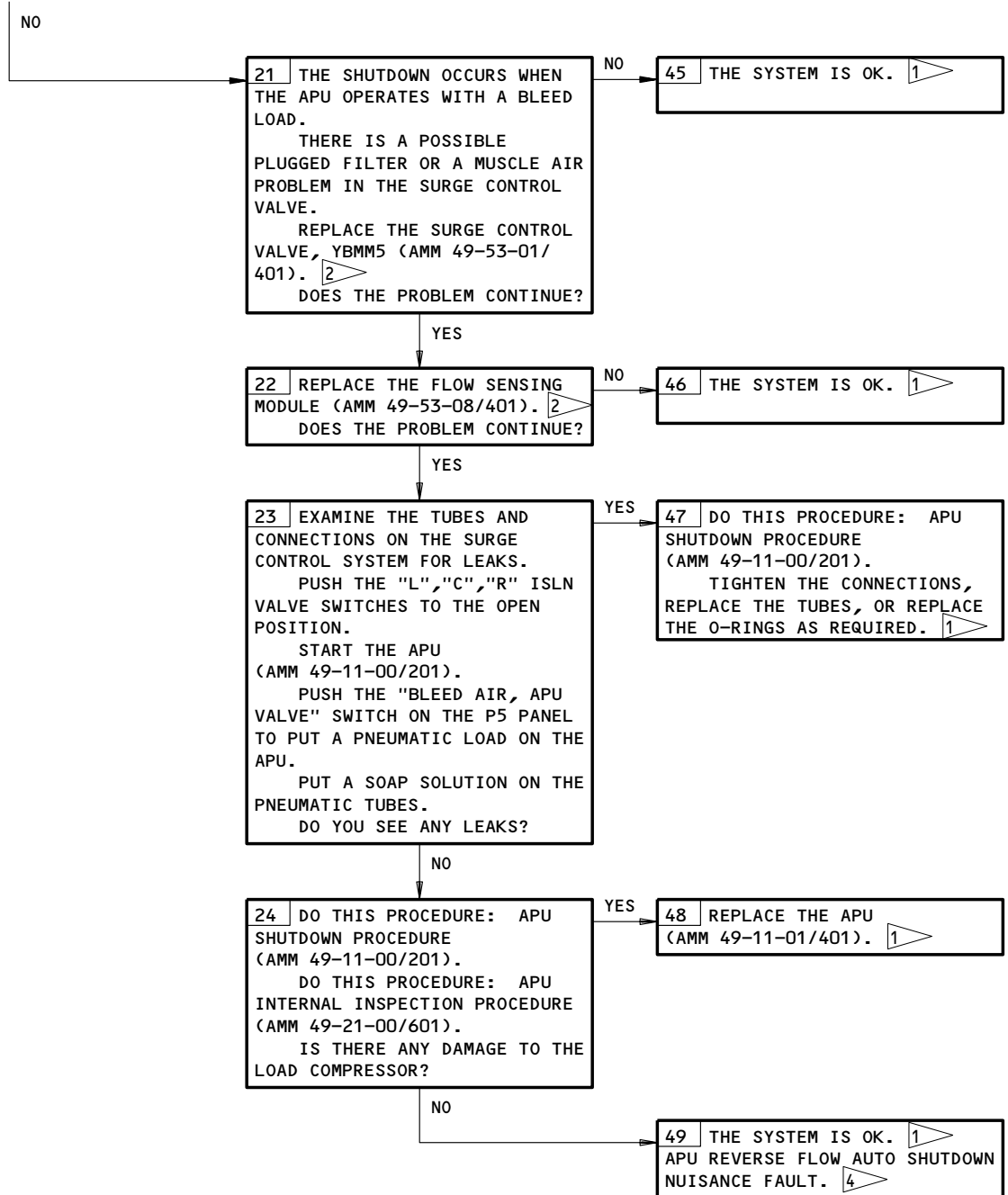
**49-11-00**

# BOEING

## 767

### FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 4)



4 FLUCTUATING DUCT PRESSURE AND ASSOCIATED REVERSE FLOW AUTO SHUTDOWNS CAN BE REDUCED BY OPERATING THE APU WITH 2 PACKS ON AND ZONE TEMPERATURE CONTROLLERS POSITIONED AT AUTO

Auto Shutdown During Governed Speed – REVERSE FLOW on BITE  
Figure 108 (Sheet 2)

EFFECTIVITY

ALL
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## 49-11-00

02A

Page 137  
Apr 22/00

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**PREREQUISITES**

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

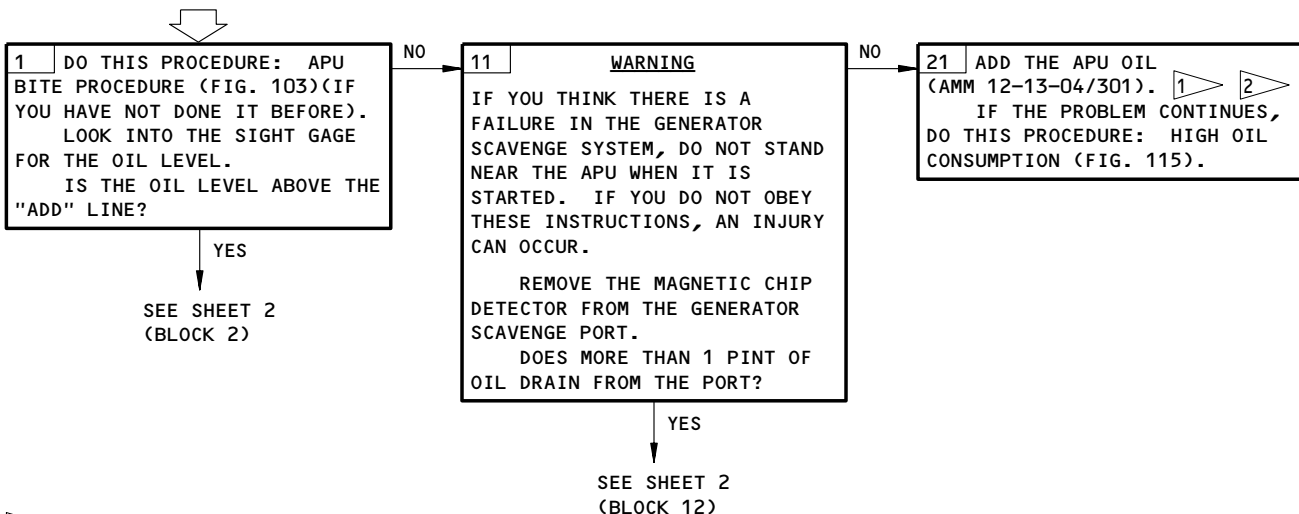
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49)

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

**NOTE:** THE "LOW OIL PRESSURE" LIGHT ON THE ECU WILL FLASH WHEN A "LOW OIL PRESSURE" SHUTDOWN OCCURS ON THE THIRD TRY TO START THE APU WITH THE AIRPLANE ON THE GROUND. THE "LOW OIL PRESSURE" LIGHT WILL ONLY FLASH IF THE ECU MEMORY WAS NOT ERASED AFTER THE FIRST TWO "LOW OIL PRESSURE" SHUTDOWNS.

IF THE APU IS INITIALLY STARTED WITH LOW OIL PRESSURE, THE APU WILL SHUTDOWN 15.5 SECONDS AFTER IT GETS TO 95% RPM (OR ONE SECOND IF THE APU OIL TEMPERATURE IS GREATER THAN 20°F). THE SUBSEQUENT START WITH LOW OIL PRESSURE WILL CAUSE A SHUTDOWN ONE SECOND AFTER THE APU GETS TO 95% RPM. THE APU WILL THEN NOT START IF THERE IS LOW OIL PRESSURE.

**AUTO SHUTDOWN -  
"LOW OIL PRESSURE"  
ON BITE**



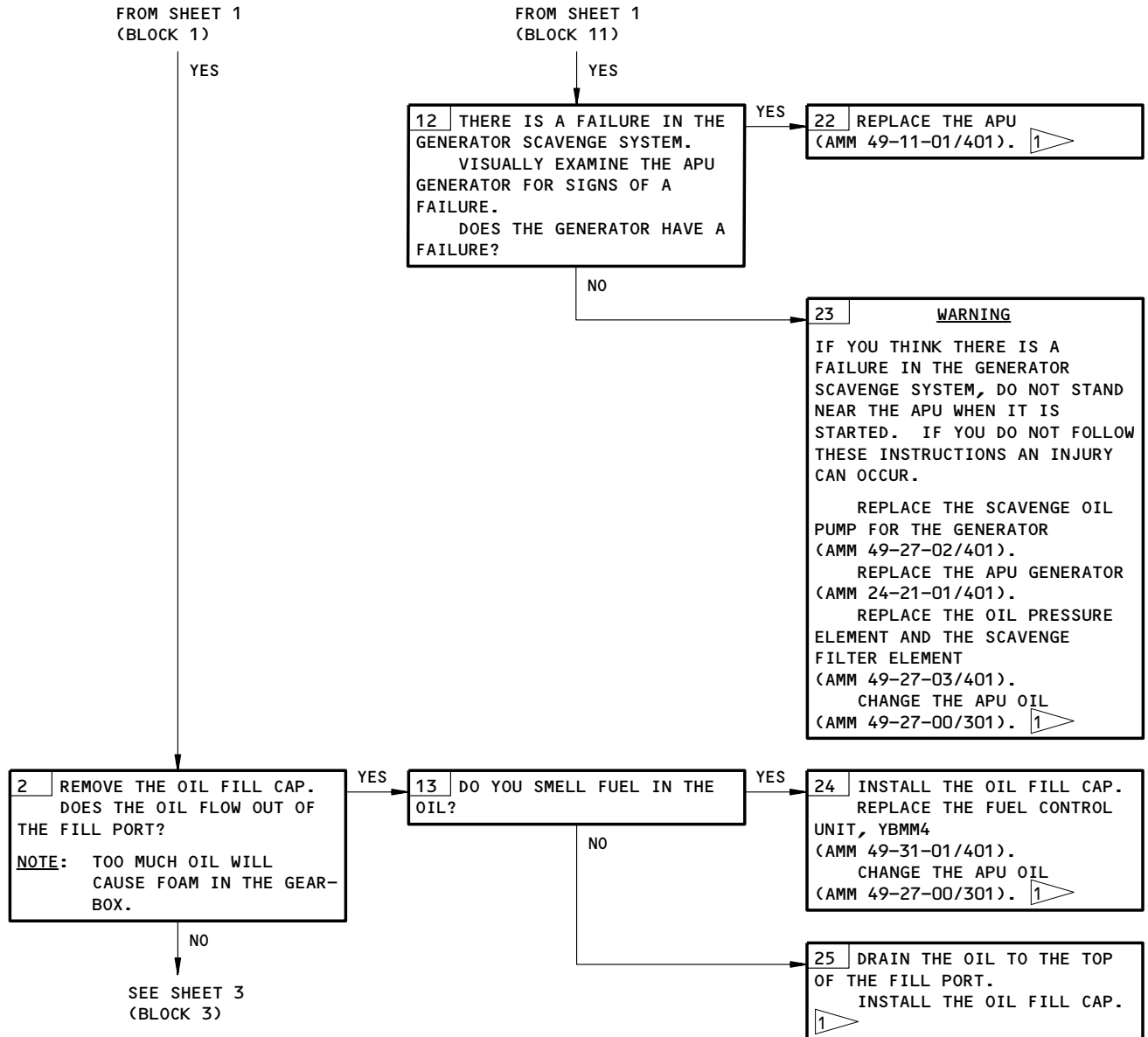
- <sup>1</sup> AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- <sup>2</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THE BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown - LOW OIL PRESSURE on BITE  
Figure 109 (Sheet 1)

EFFECTIVITY	ALL
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**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Auto Shutdown - LOW OIL PRESSURE on BITE  
Figure 109 (Sheet 2)

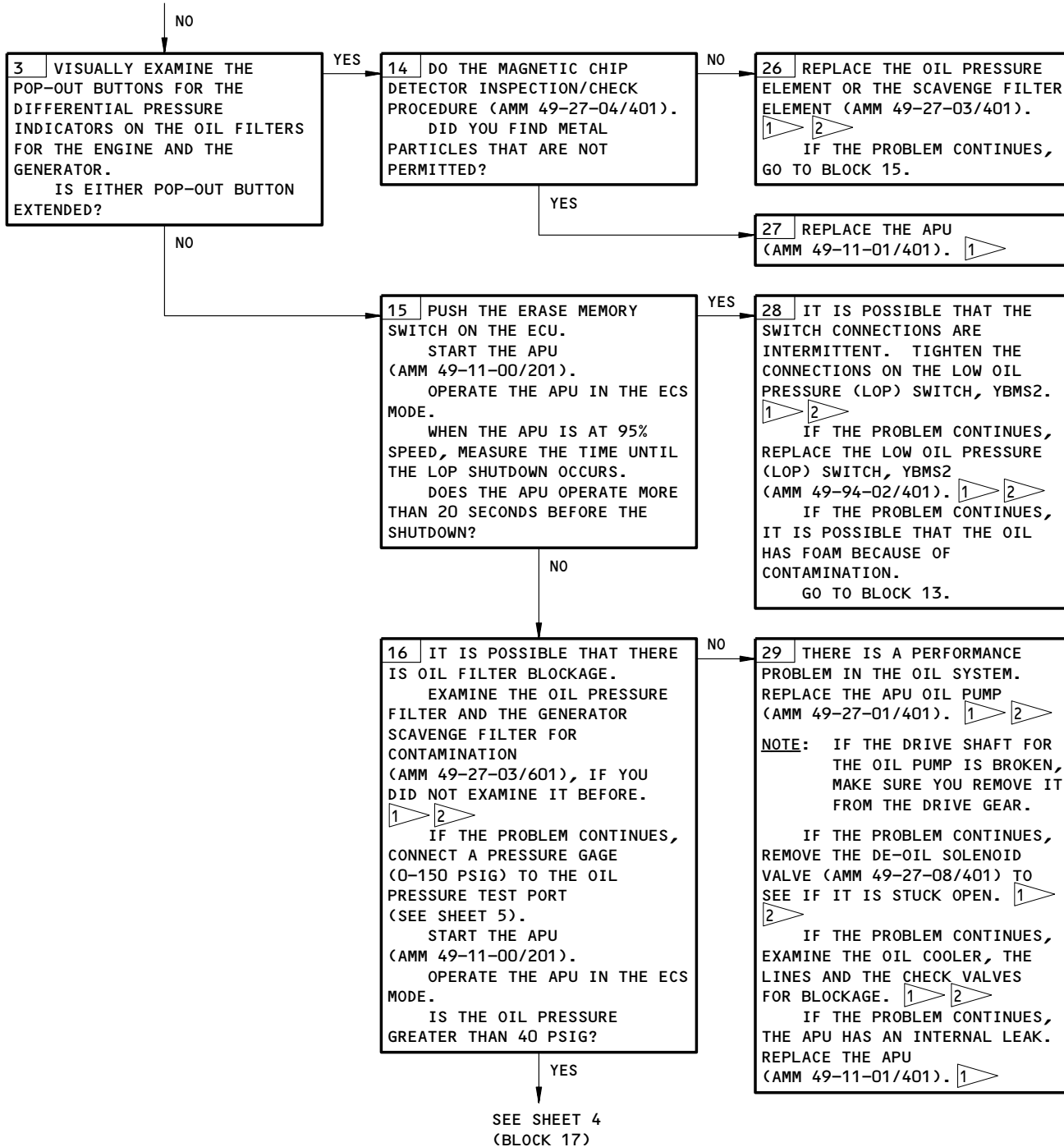
EFFECTIVITY

ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 2)



Auto Shutdown - LOW OIL PRESSURE on BITE  
Figure 109 (Sheet 3)

EFFECTIVITY

ALL

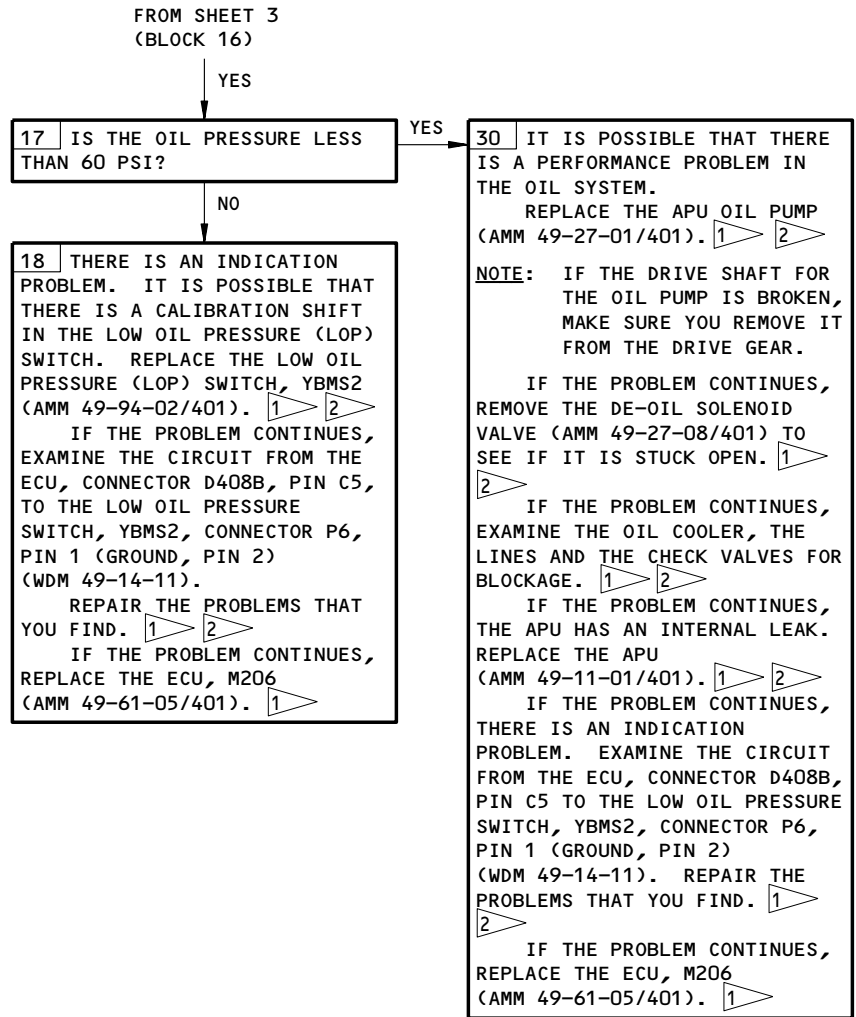
49-11-00

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Page 140  
Apr 22/05

E78895

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Auto Shutdown - LOW OIL PRESSURE on BITE  
Figure 109 (Sheet 4)

EFFECTIVITY

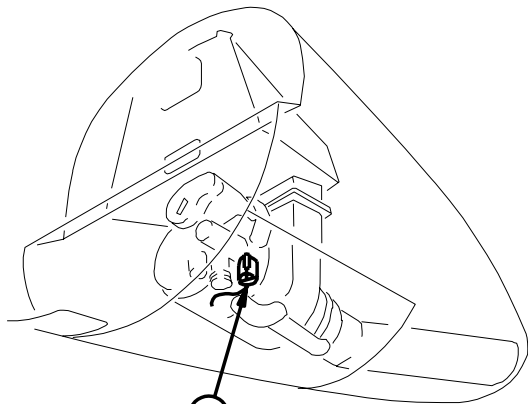
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**49-11-00**

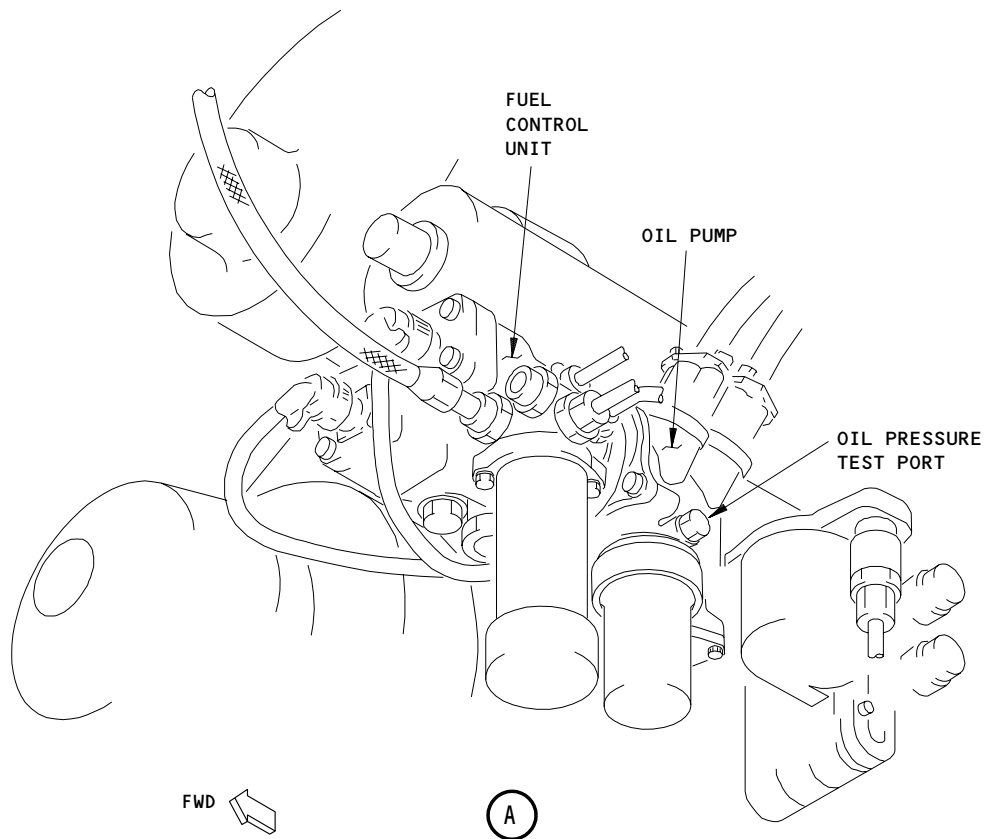
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Page 141  
Apr 22/05

633687



SEE (A)



Auto Shutdown - LOW OIL PRESSURE on BITE  
Figure 109 (Sheet 5)

EFFECTIVITY	
	ALL

49-11-00

01A

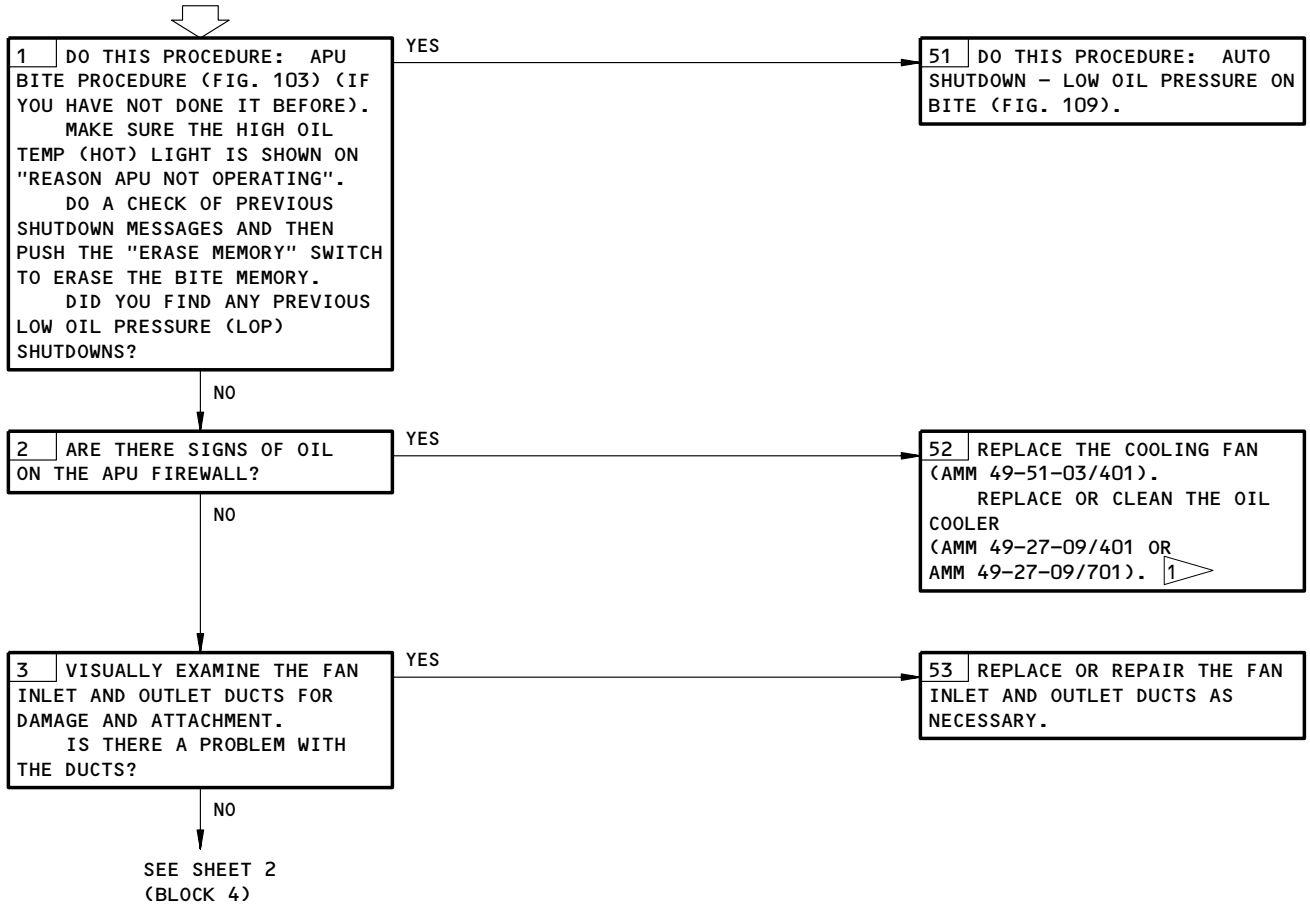
Page 142  
Apr 22/05

**AUTO SHUTDOWN –  
"HIGH OIL TEMP"  
ON BITE**

**PREREQUISITES**

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

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



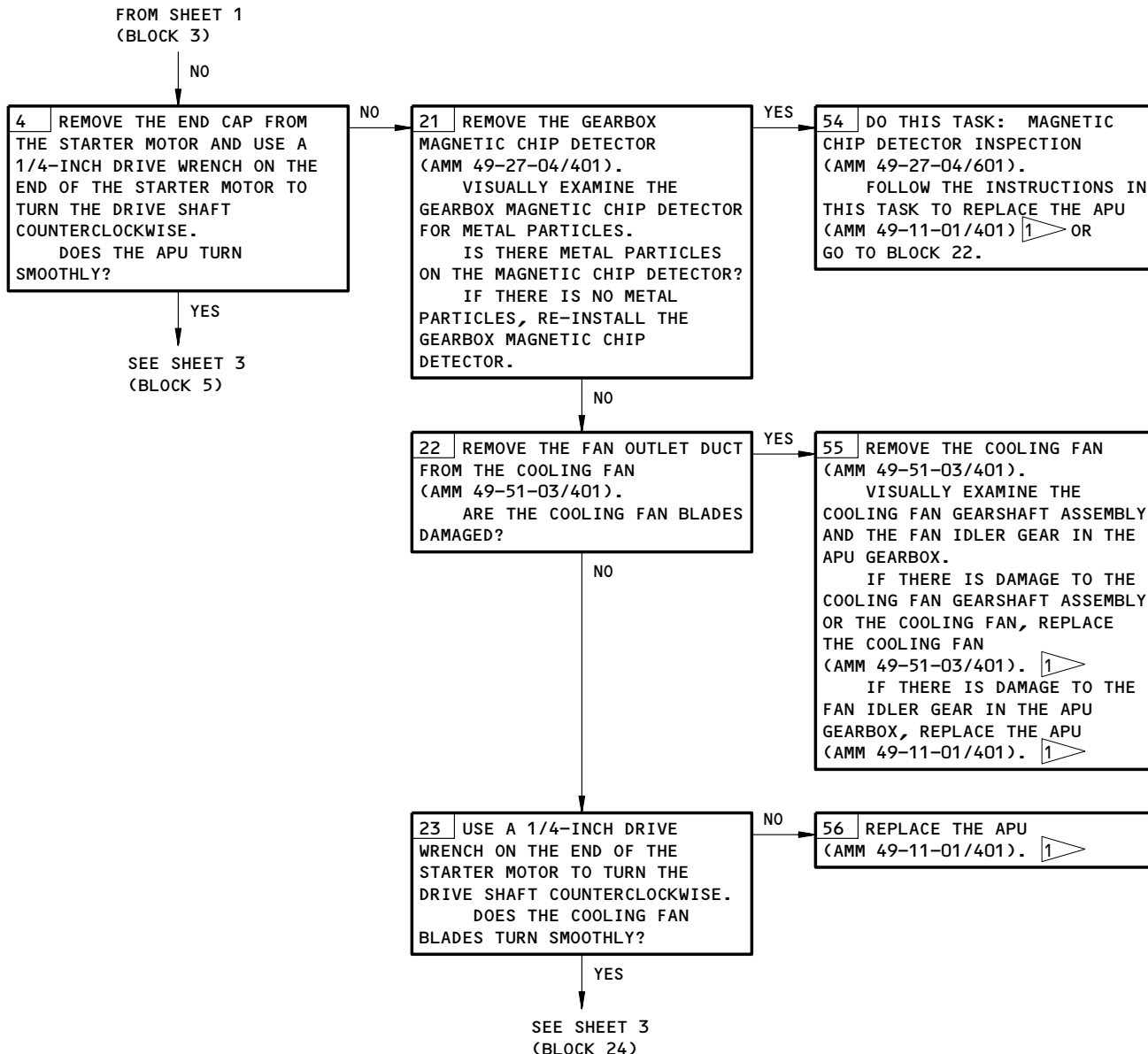
1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF-APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

Auto Shutdown – HIGH OIL TEMP on BITE  
Figure 110 (Sheet 1)

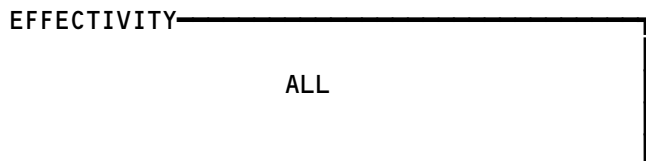
EFFECTIVITY	ALL
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49-11-00


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

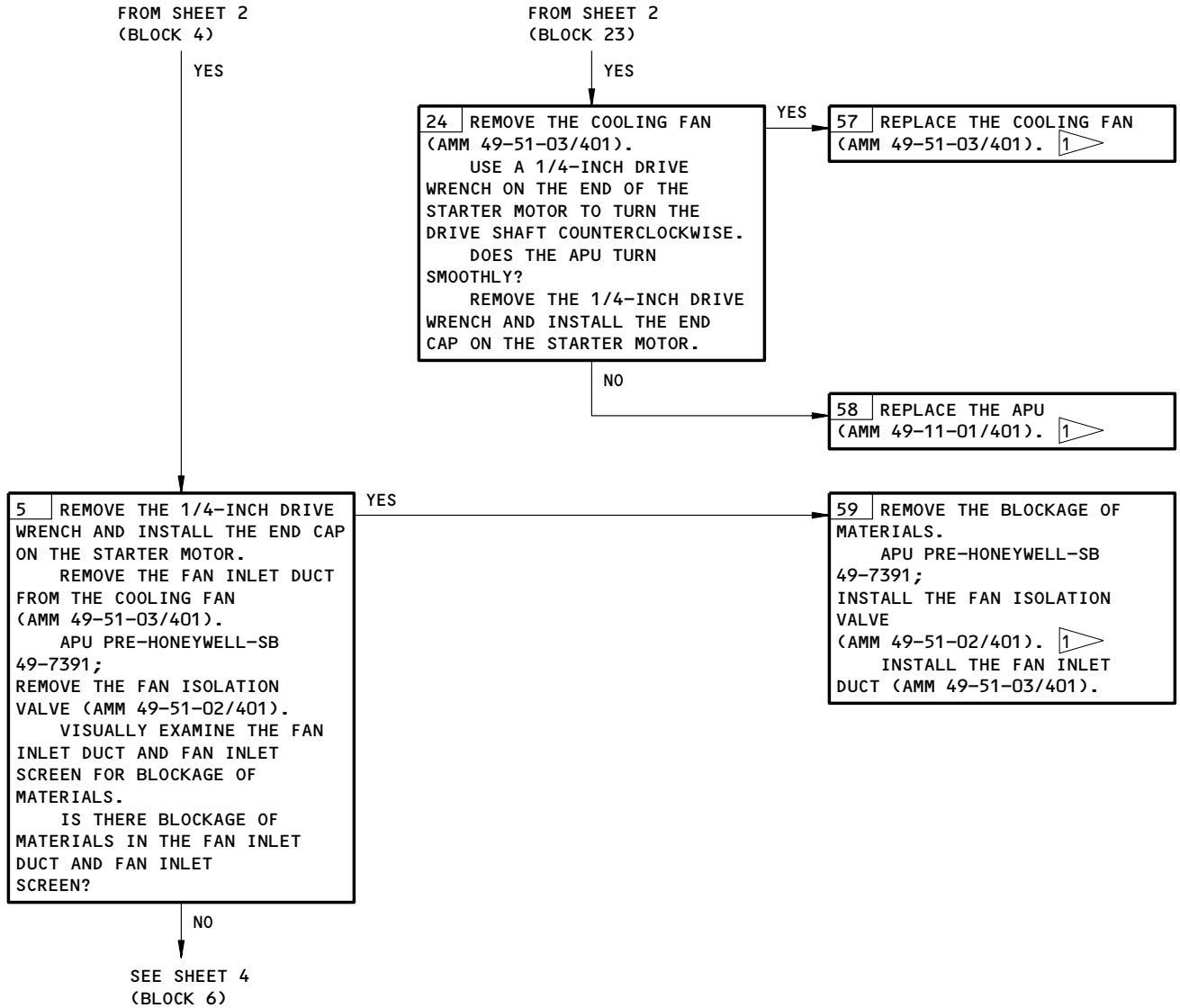


Auto Shutdown - HIGH OIL TEMP on BITE  
Figure 110 (Sheet 2)



49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



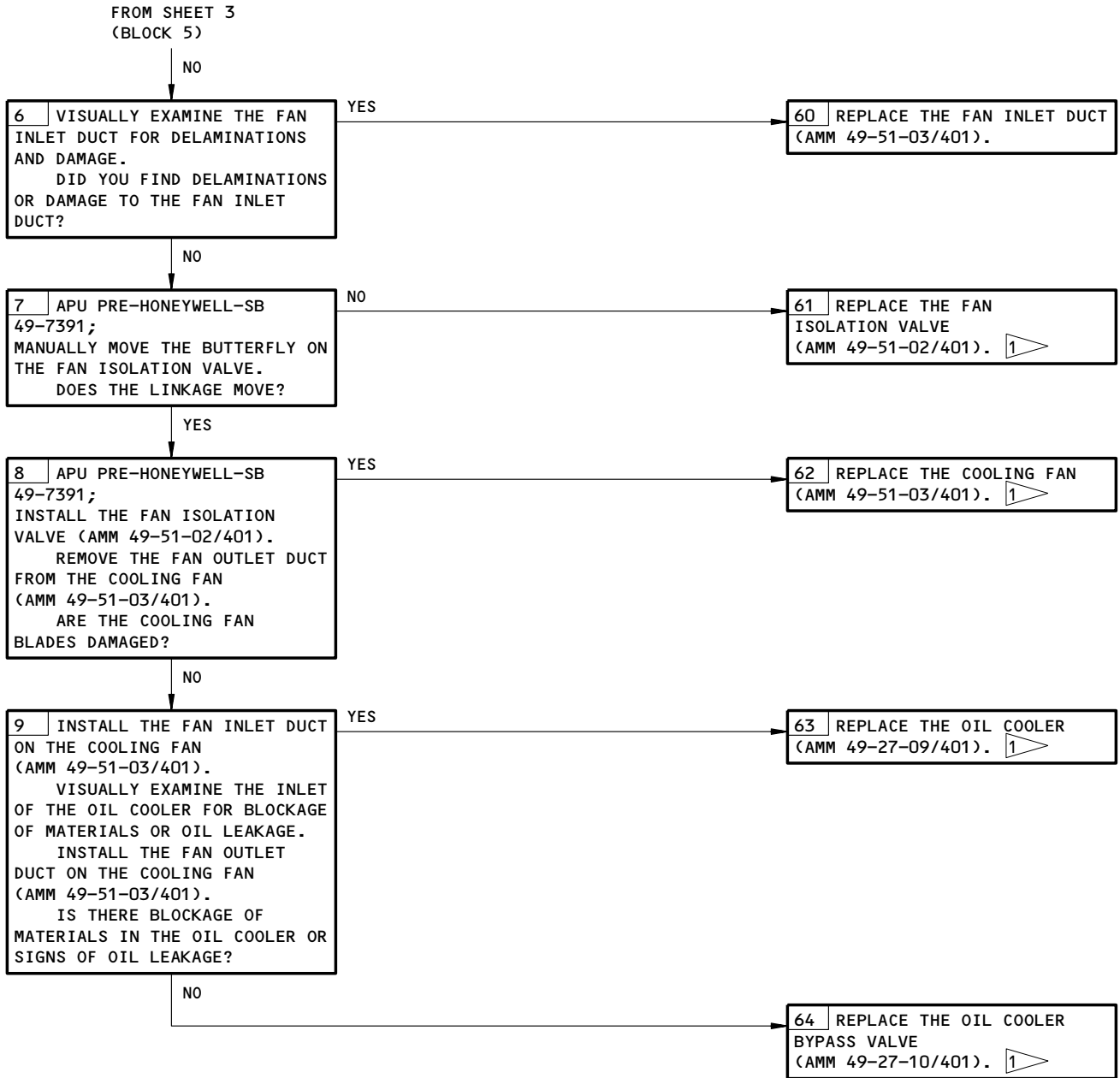
Auto Shutdown - HIGH OIL TEMP on BITE  
Figure 110 (Sheet 3)

EFFECTIVITY

ALL
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49-11-00





Auto Shutdown - HIGH OIL TEMP on BITE  
Figure 110 (Sheet 4)

EFFECTIVITY

ALL
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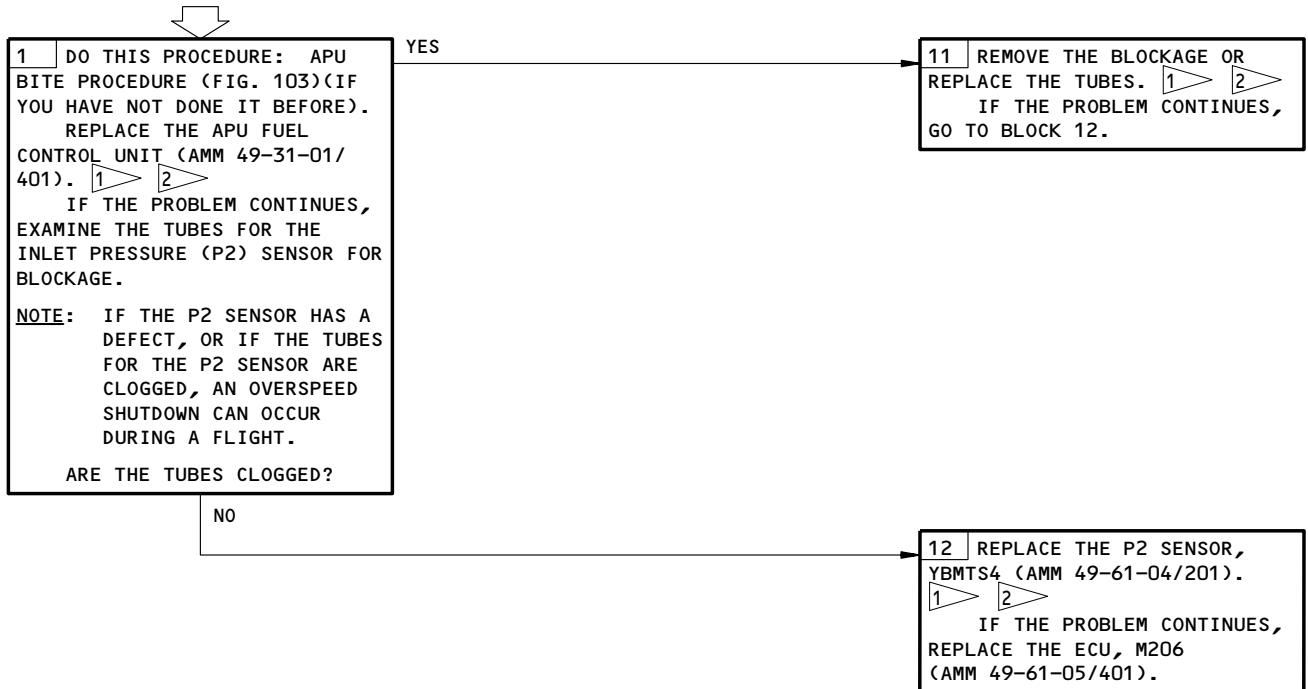
49-11-00

**AUTO SHUTDOWN –  
"OVER SPEED" ON  
BITE**

**PREREQUISITES**

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

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



- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 OPERATE THE APU (AMM 49-11-00/201) AND DO THE BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

Auto Shutdown – OVER SPEED on BITE  
Figure 111

EFFECTIVITY	ALL
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**49-11-00**

**AUTO SHUTDOWN –  
"GEN FILTER" ON  
BITE**

**PREREQUISITES**  
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)  
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)

**1** DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103)(IF YOU HAVE NOT DONE IT BEFORE). LOOK AT THE POP-OUT BUTTON FOR THE DIFFERENTIAL PRESSURE INDICATOR FOR THE GENERATOR. IS THE POP-OUT BUTTON EXTENDED?

**9** INSPECT THE MAGNETIC CHIP DETECTOR (AMM 49-27-04/601). DID YOU FIND METAL PARTICLES THAT ARE NOT PERMITTED?

**20** REPLACE THE APU (AMM 49-11-01/401) AND GENERATOR (AMM 24-21-01/401).

**10** LOOK FOR SIGNS OF A GENERATOR FAILURE. DOES THE GENERATOR HAVE A FAILURE?

**20A** REPLACE THE APU (AMM 49-11-01/401) AND GENERATOR (AMM 24-21-01/401).

**11** EXAMINE THE GENERATOR SCAVENGE FILTER FOR CONTAMINATION (AMM 49-27-03/601). IS THE FILTER CONTAMINATED?

**21** REPLACE THE OIL PRESSURE ELEMENT AND THE SCAVENGE FILTER ELEMENT (AMM 49-27-03/401). EXAMINE THE SCAVENGE OIL PUMP FOR DAMAGE. IF THERE IS DAMAGE, REPLACE THE SCAVENGE OIL PUMP (AMM 49-27-02/401). EXAMINE THE APU GENERATOR FOR DAMAGE. IF THERE IS DAMAGE, REPLACE THE APU GENERATOR (AMM 24-21-01/401).

**22** REPLACE THE GENERATOR ΔP INDICATOR (AMM 49-27-16/401). GO TO BLOCK 2.

**2** REMOVE CONNECTOR P20 AT THE GENERATOR ΔP SWITCH, YBMS1. USE THE LOW CURRENT OHMMETER (10 MA MAXIMUM) TO MEASURE THE RESISTANCE FROM PIN 1 TO 2 (WDM 49-14-11). IS THE RESISTANCE MORE THAN 1.0 OHM?

**12** EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PIN D11, TO THE ΔP SWITCH, PIN 1 (WDM 49-14-11). IS THERE CONTINUITY?

**23** REPLACE THE GENERATOR ΔP SWITCH, YBMS1 (AMM 49-27-15/401).

**24** REPAIR THE PROBLEMS THAT YOU FIND.

SEE SHEET 2  
(BLOCK 13)

AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

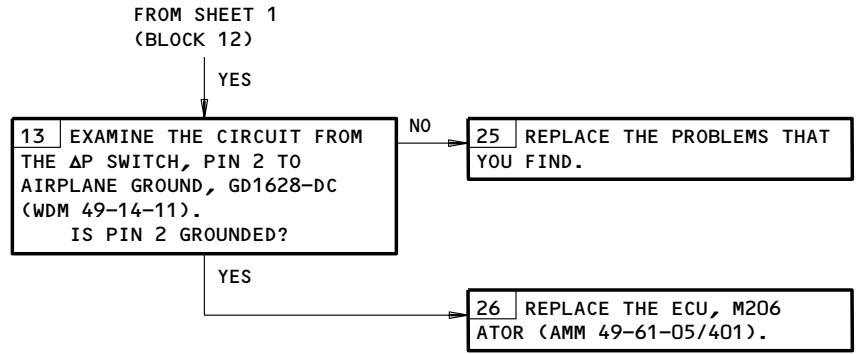
Auto Shutdown – GEN FILTER on BITE  
Figure 112 (Sheet 1)

EFFECTIVITY	ALL
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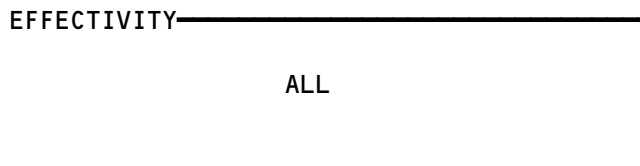
**49-11-00**

E78899

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Auto Shutdown - GEN FILTER on BITE  
Figure 112 (Sheet 2)



49-11-00

02A

Page 149  
Dec 22/04

E78900

**PREREQUISITES**

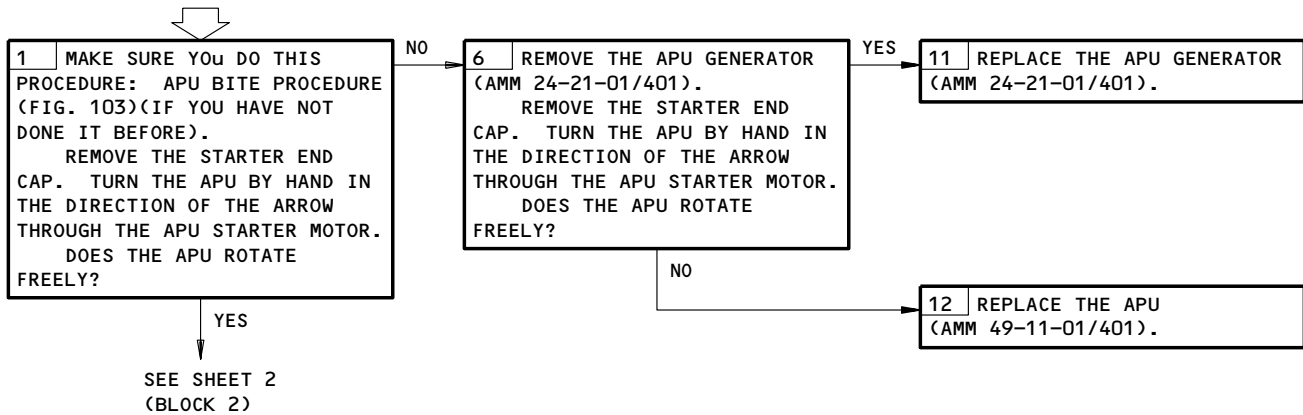
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**AUTO SHUTDOWN –  
"EGT OVERTEMP" ON  
BITE**

**NOTE:** IF THE APU HAS A START PROBLEM ("NO LIGHT OFF",  
OR "START ABORTED") AND THE AUTOMATIC SHUTDOWN  
"EGT OVERTEMP", THERE IS A DEFECT IN THE FLOW  
DIVIDER OR THE PRIMARY FUEL NOZZLE.



<sup>1</sup> AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

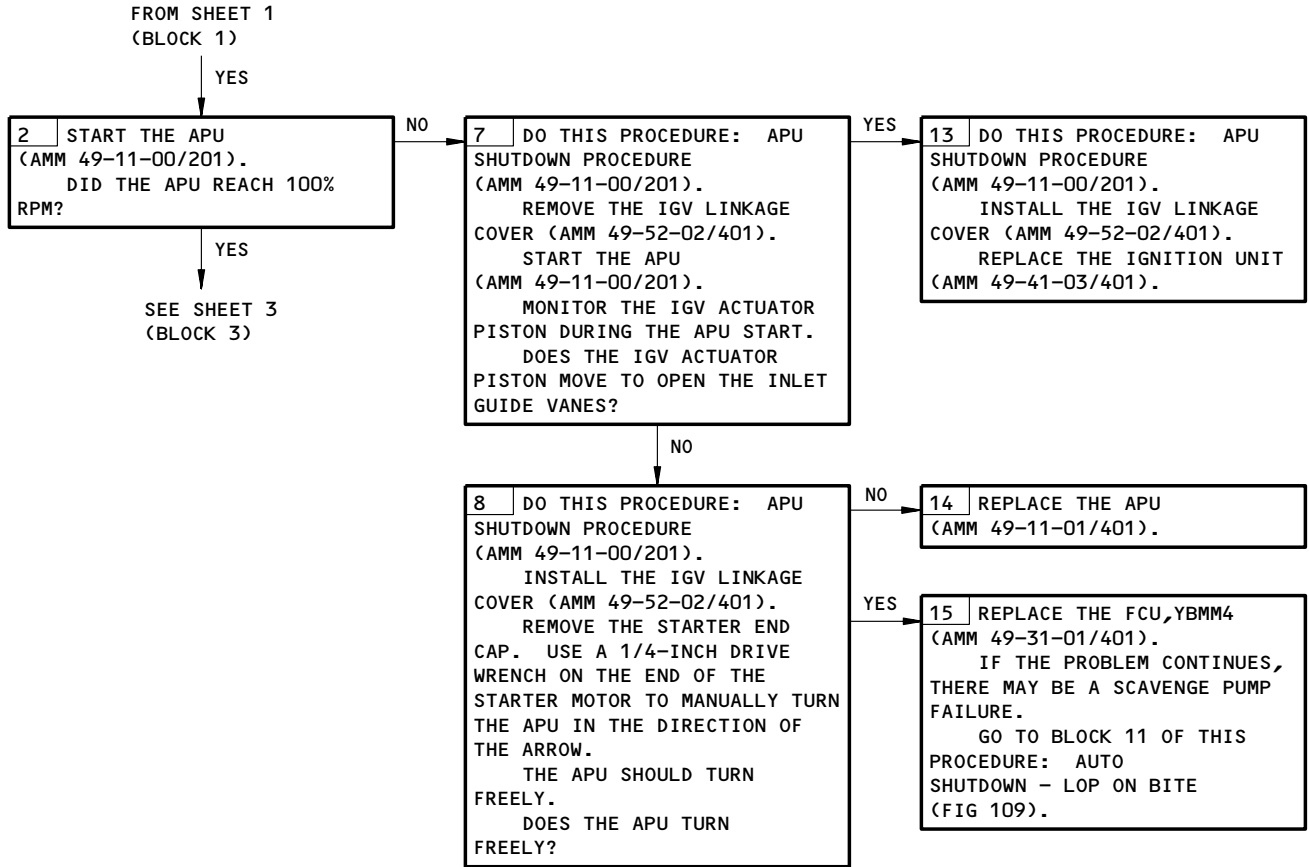
<sup>2</sup> DO THIS PROCEDURE: SELF-TEST (FIG. 103) TO MAKE SURE THE PROBLEM IS REPAIRED.

<sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown – EGT OVERTEMP on BITE  
Figure 113 (Sheet 1)

EFFECTIVITY	ALL
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**49-11-00**

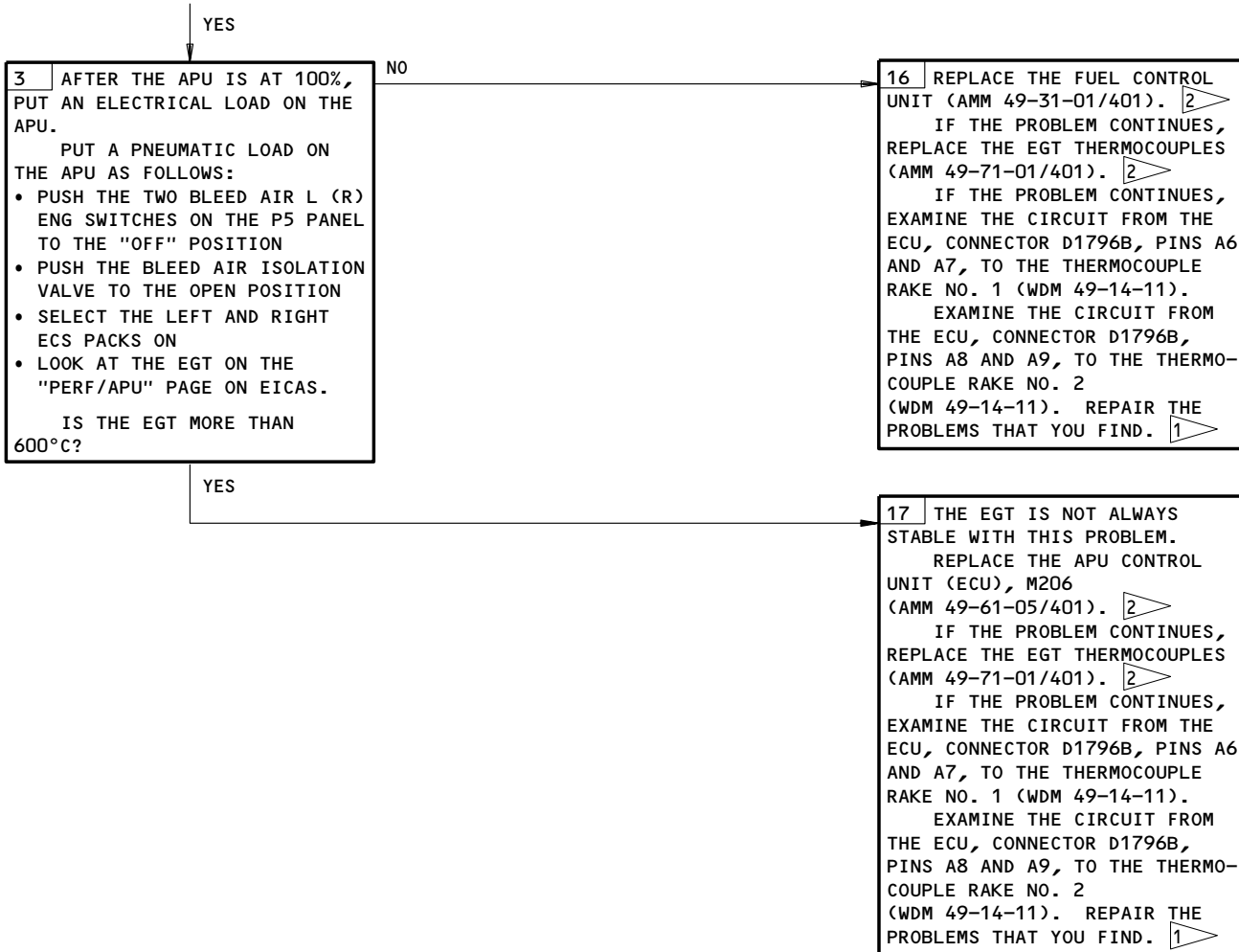


Auto Shutdown - EGT OVERTEMP on BITE  
Figure 113 (Sheet 2)

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

49-11-00

FROM SHEET 2  
(BLOCK 2)



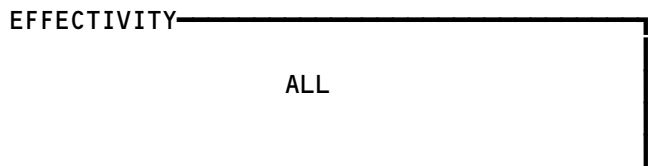
Auto Shutdown - EGT OVERTEMP on BITE  
Figure 113 (Sheet 3)

EFFECTIVITY

ALL

49-11-00

Not Used  
Figure 114



**49-11-00**

01A

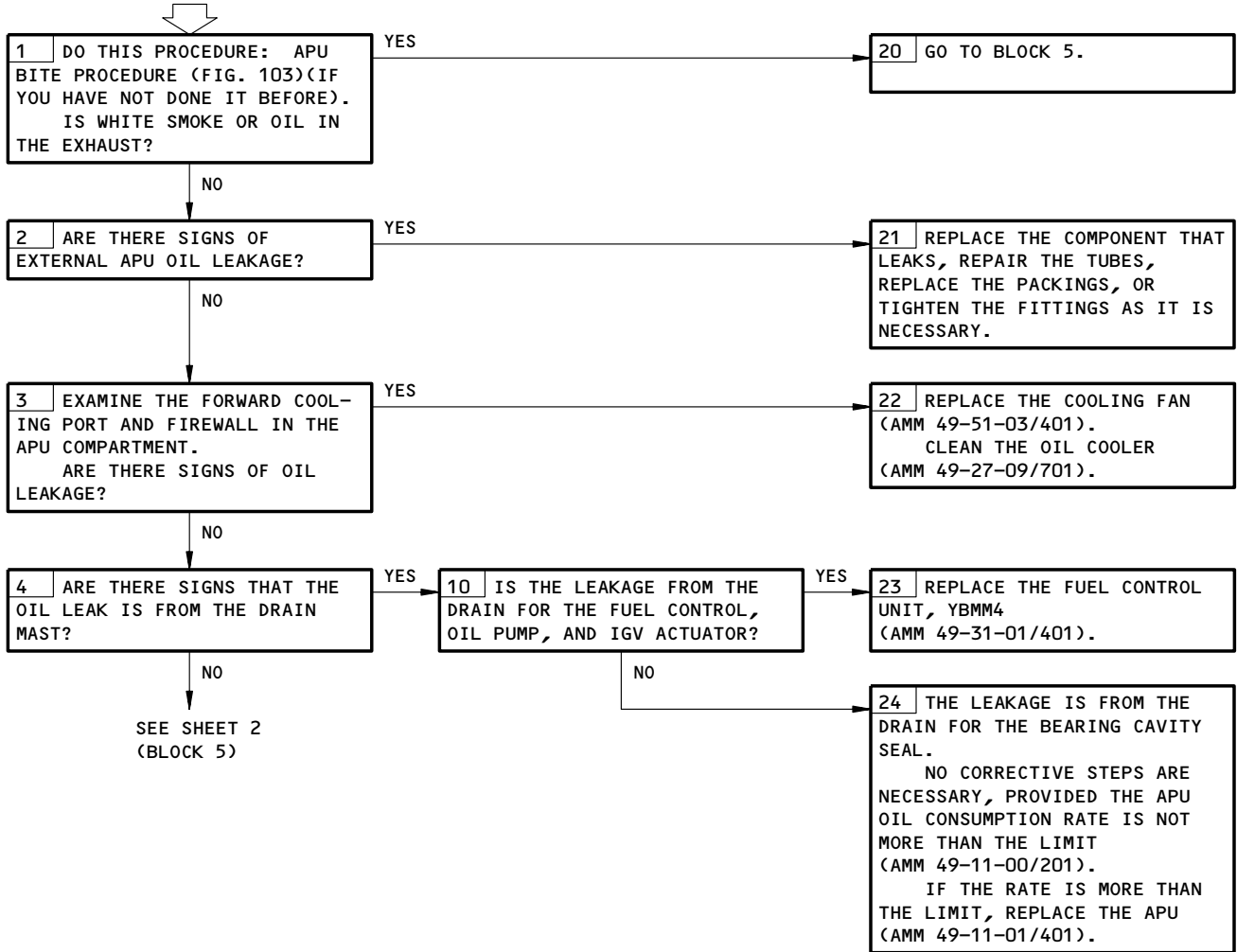
Page 153  
Dec 22/04

E61515



**HIGH OIL CONSUMPTION**

**PREREQUISITES**  
NONE



High Oil Consumption  
Figure 115 (Sheet 1)

EFFECTIVITY

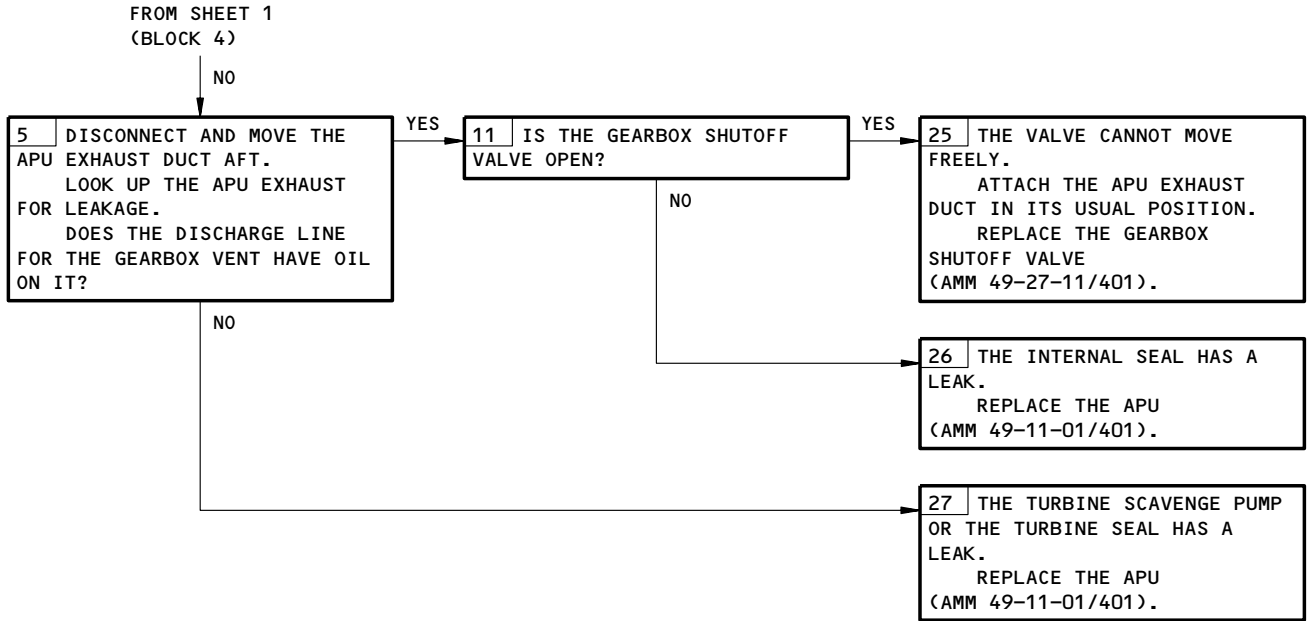
ALL

49-11-00

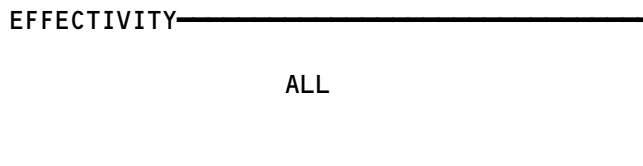
01A

Page 154  
Dec 22/04

E78903



High Oil Consumption  
Figure 115 (Sheet 2)



49-11-00

01A

Page 155  
Dec 22/04

E78904

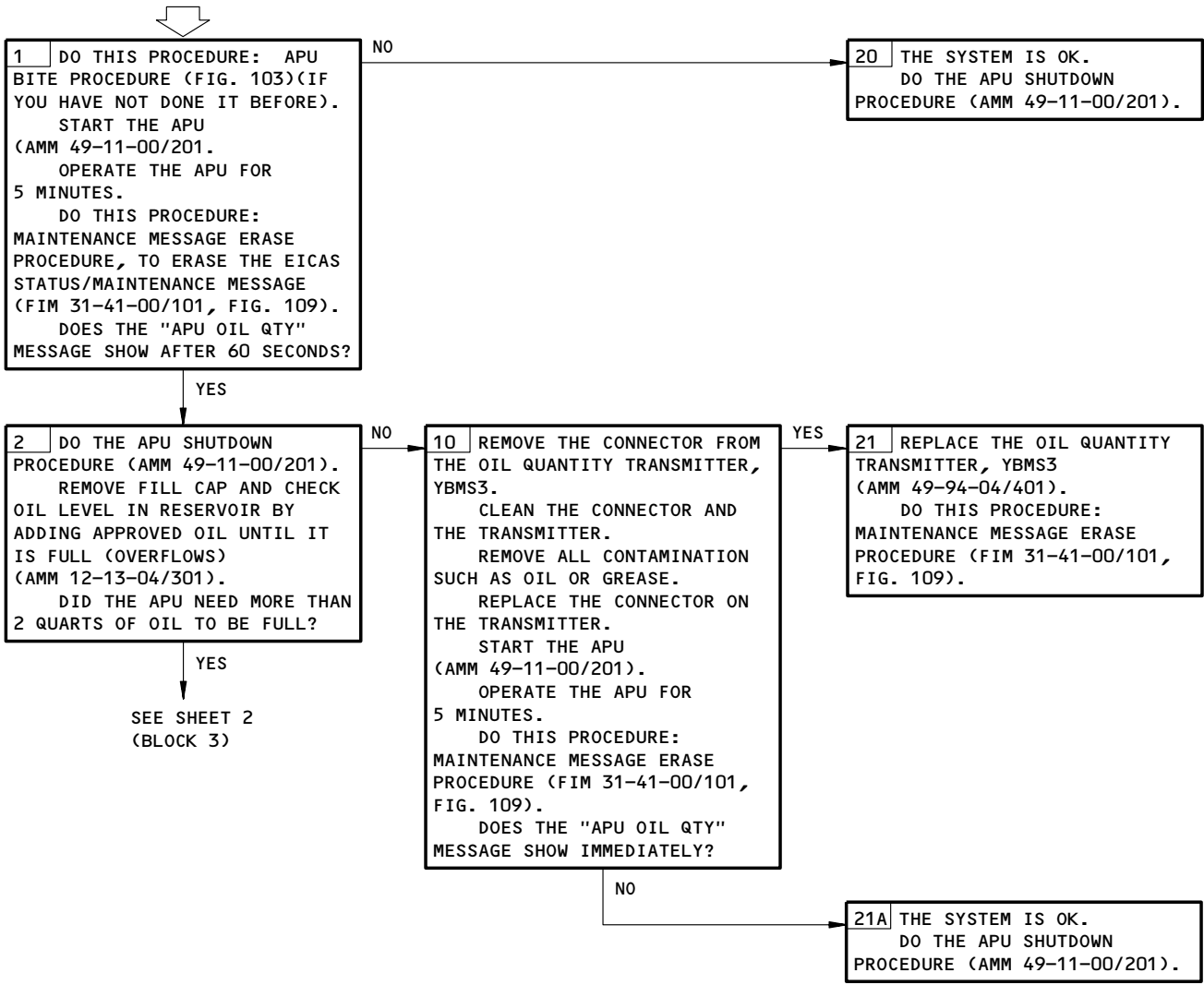
**EICAS MSG "APU OIL QTY" DISPLAYED**

**PREREQUISITES**

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

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED:  
11A33

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



EICAS Msg APU OIL QTY Displayed  
Figure 116 (Sheet 1)

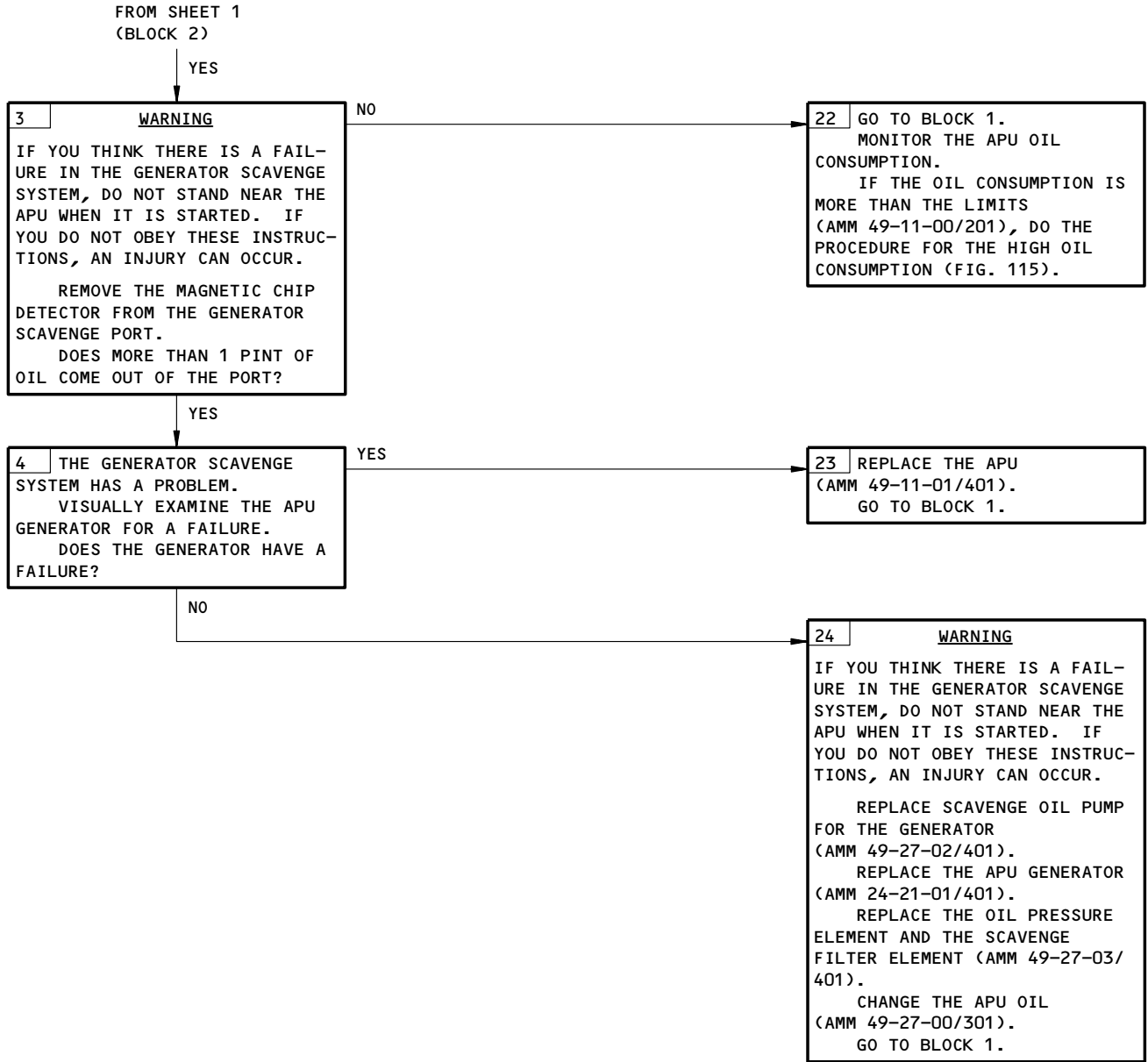
EFFECTIVITY

ALL

**49-11-00**

01A

Page 156  
Dec 22/04



EICAS Msg APU OIL QTY Displayed  
Figure 116 (Sheet 2)

EFFECTIVITY	ALL
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49-11-00

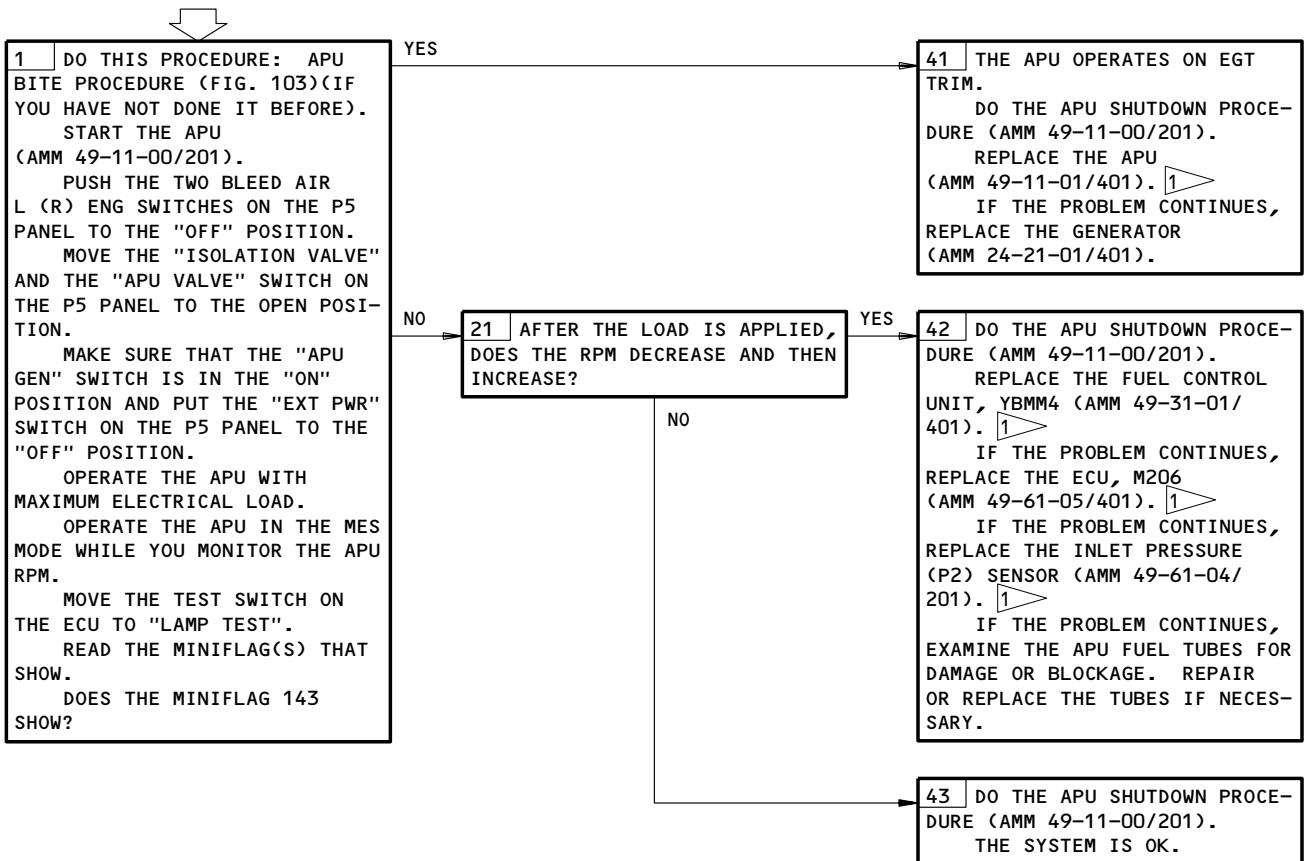
01A

Page 157  
Apr 22/08

E61521

**APU WILL NOT CARRY PNEUMATIC AND ELECTRICAL LOAD ASSOCIATED WITH RPM DROOP**

**PREREQUISITES**  
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)  
APU START NORMAL (AMM 49-11-00/201)  
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)



**1** OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

APU Will Not Carry Pneumatic and Electrical Load Associated with RPM Droop  
Figure 117

EFFECTIVITY	ALL
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**49-11-00**

E78906

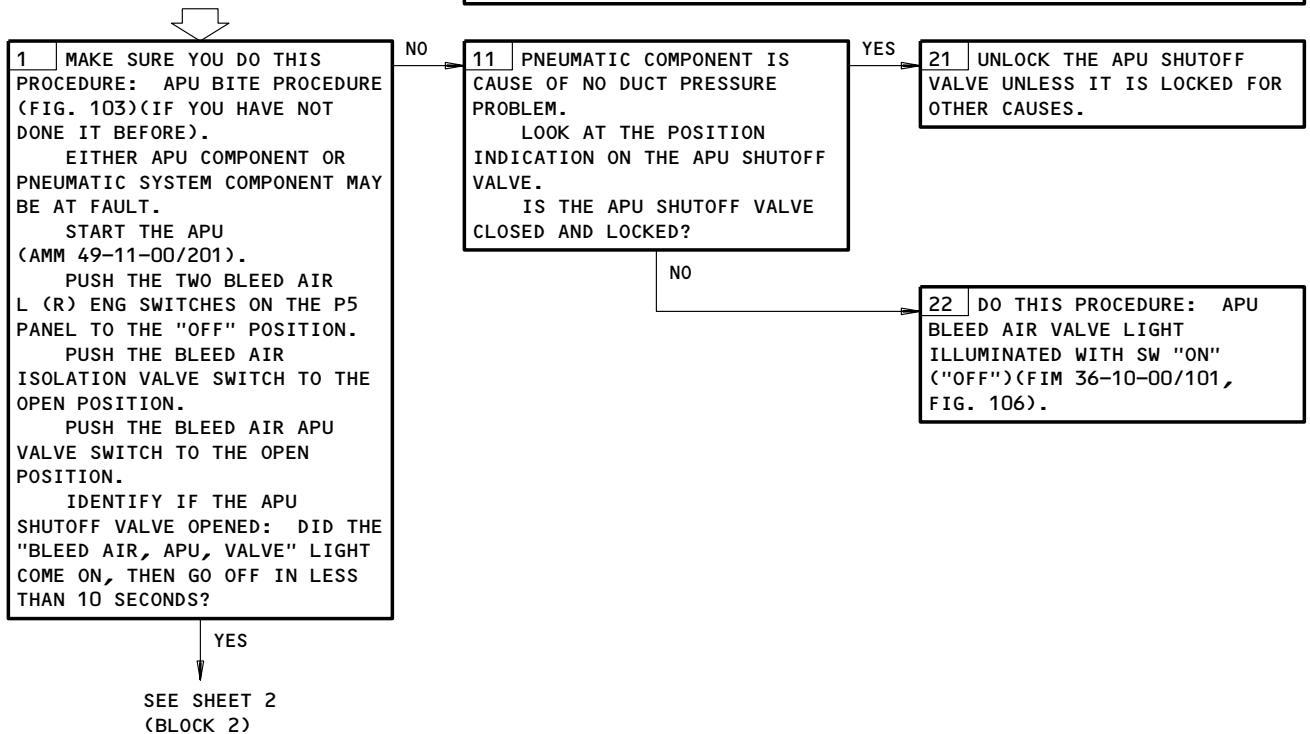
**NO DUCT PRESSURE  
(0-2 PSIG)**

**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:  
EICAS (AMM 31-41-00/201)  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 1,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

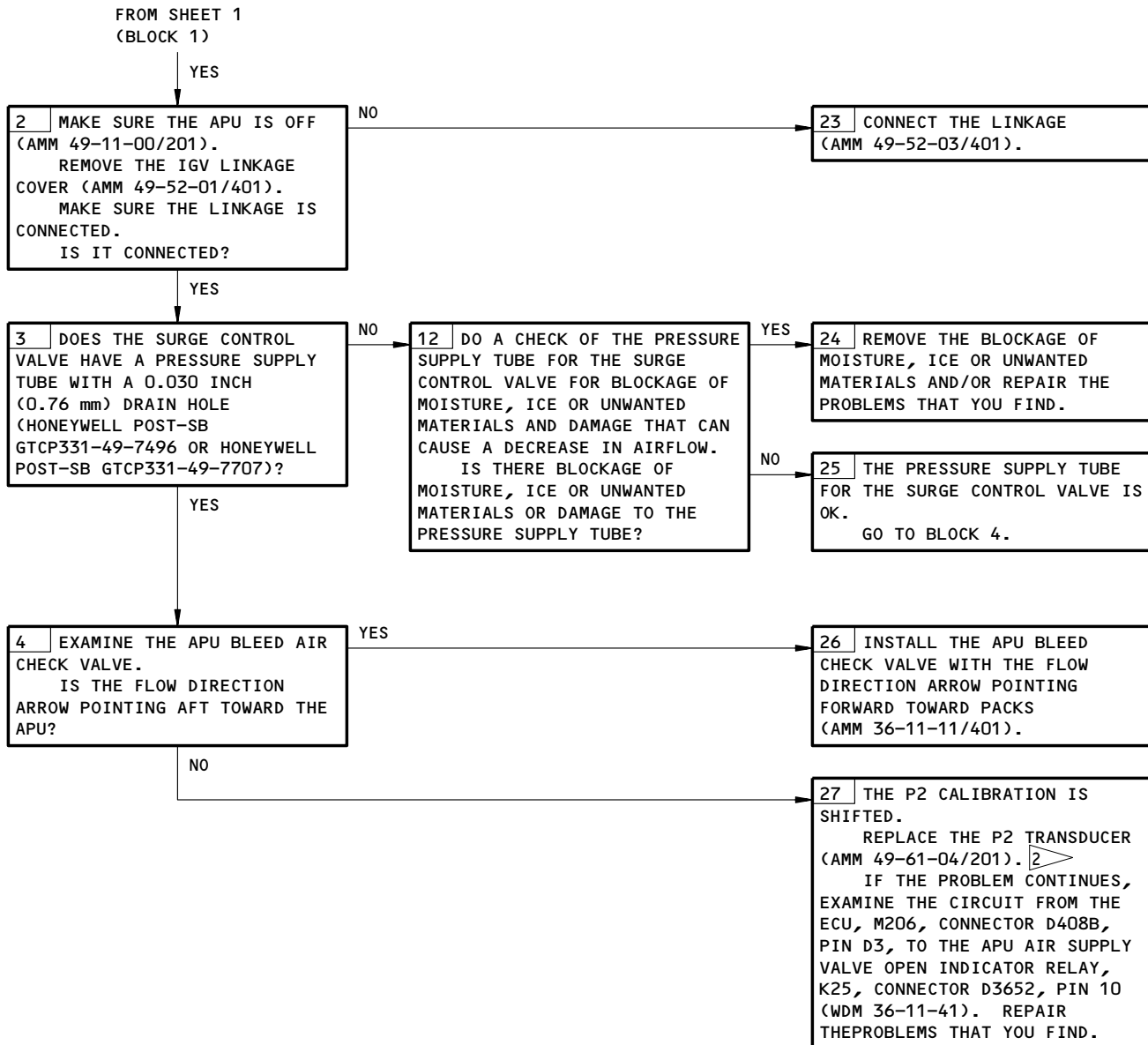


1 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

No Duct Pressure (0-2 PSIG)  
Figure 118 (Sheet 1)

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

49-11-00



2> OPERATE THE APU (AMM 49-11-00/201) AND DO THE BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

No Duct Pressure (0-2 PSIG)  
Figure 118 (Sheet 2)

EFFECTIVITY	ALL
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**49-11-00**

**PREREQUISITES**

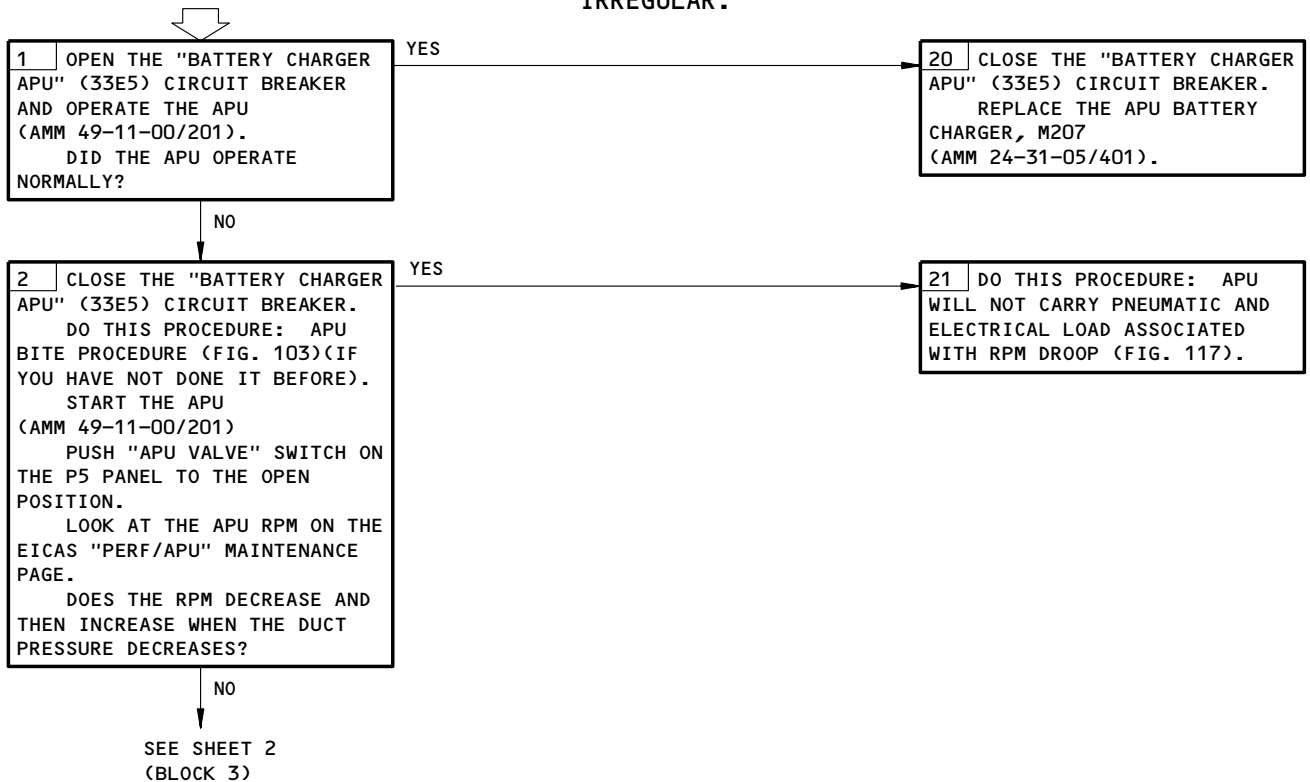
MAKE SURE THESE SYSTEMS WILL OPERATE:  
EICAS (AMM 31-41-00/201)  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25,  
APU PRIME CONT (49C2), APU START (49C3),  
APU INLET DOOR ACTR (49C4)

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

**NOTE:** IF YOU LOSE ELECTRICAL POWER WHEN YOU TRANSFER FROM ONE GENERATOR TO ANOTHER, THE DUCT PRESSURE WILL MOMENTARILY BE IRREGULAR.

**FLUCTUATING DUCT PRESSURE**



Fluctuating Duct Pressure  
Figure 119 (Sheet 1)

EFFECTIVITY

ALL

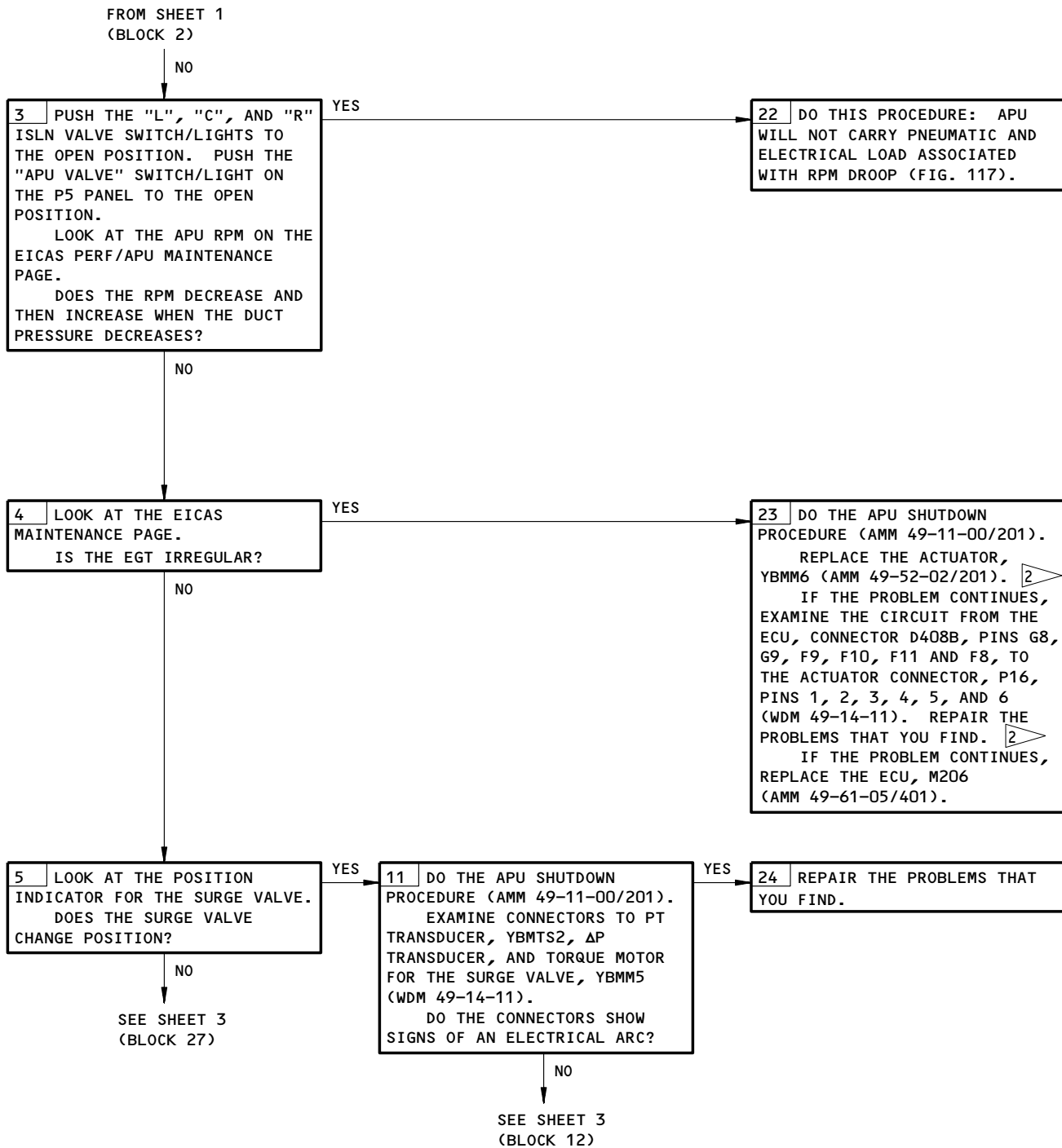
**49-11-00**

01A

Page 161  
Apr 22/09

L16966





2 OPERATE THE APU (AMM 49-11-00/201) AND DO THE BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

Fluctuating Duct Pressure  
Figure 119 (Sheet 2)

EFFECTIVITY	ALL
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49-11-00



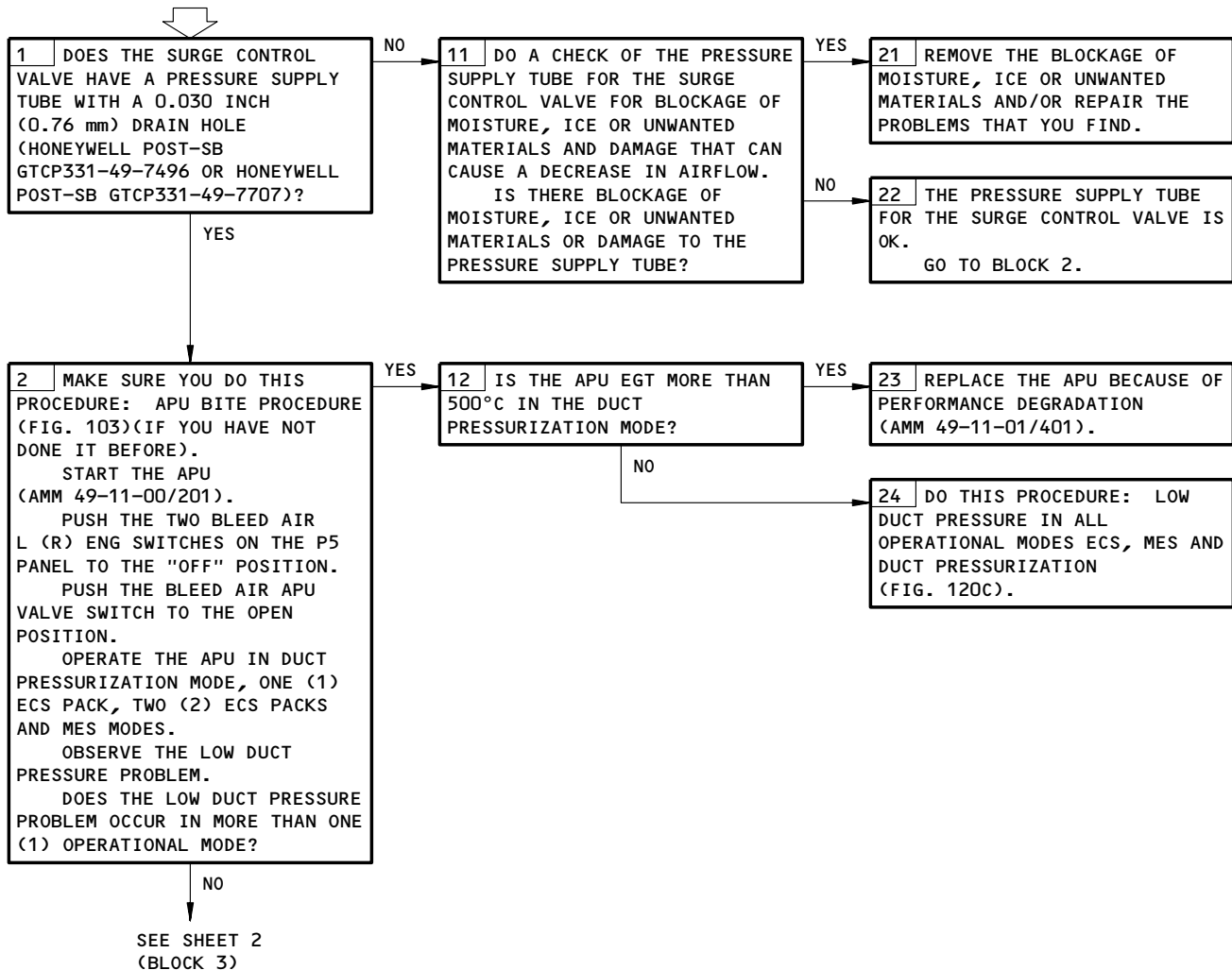
**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>1</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**LOW DUCT PRESSURE**



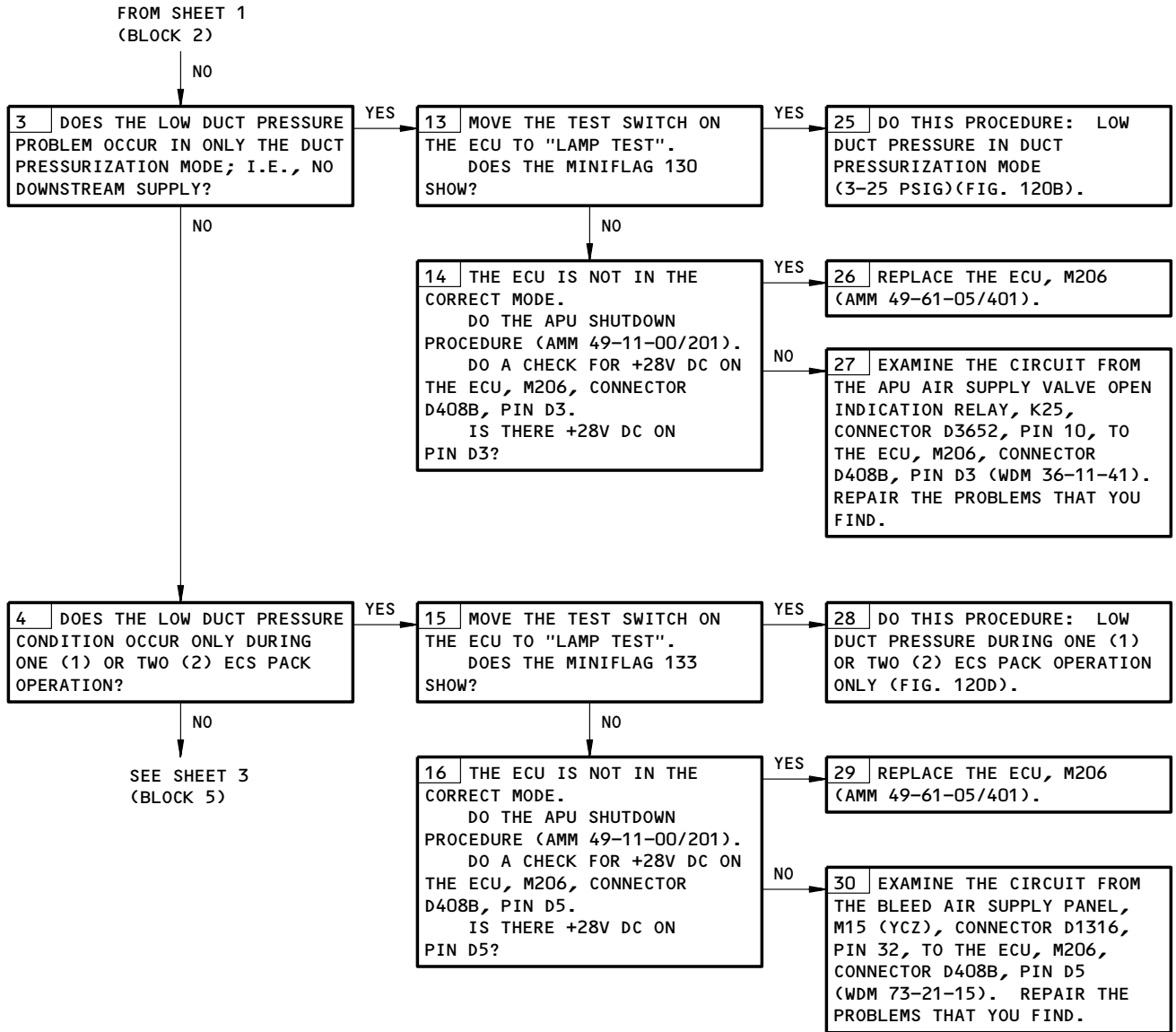
<sup>1</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Low Duct Pressure  
Figure 120 (Sheet 1)

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

**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Low Duct Pressure  
Figure 120 (Sheet 2)

EFFECTIVITY

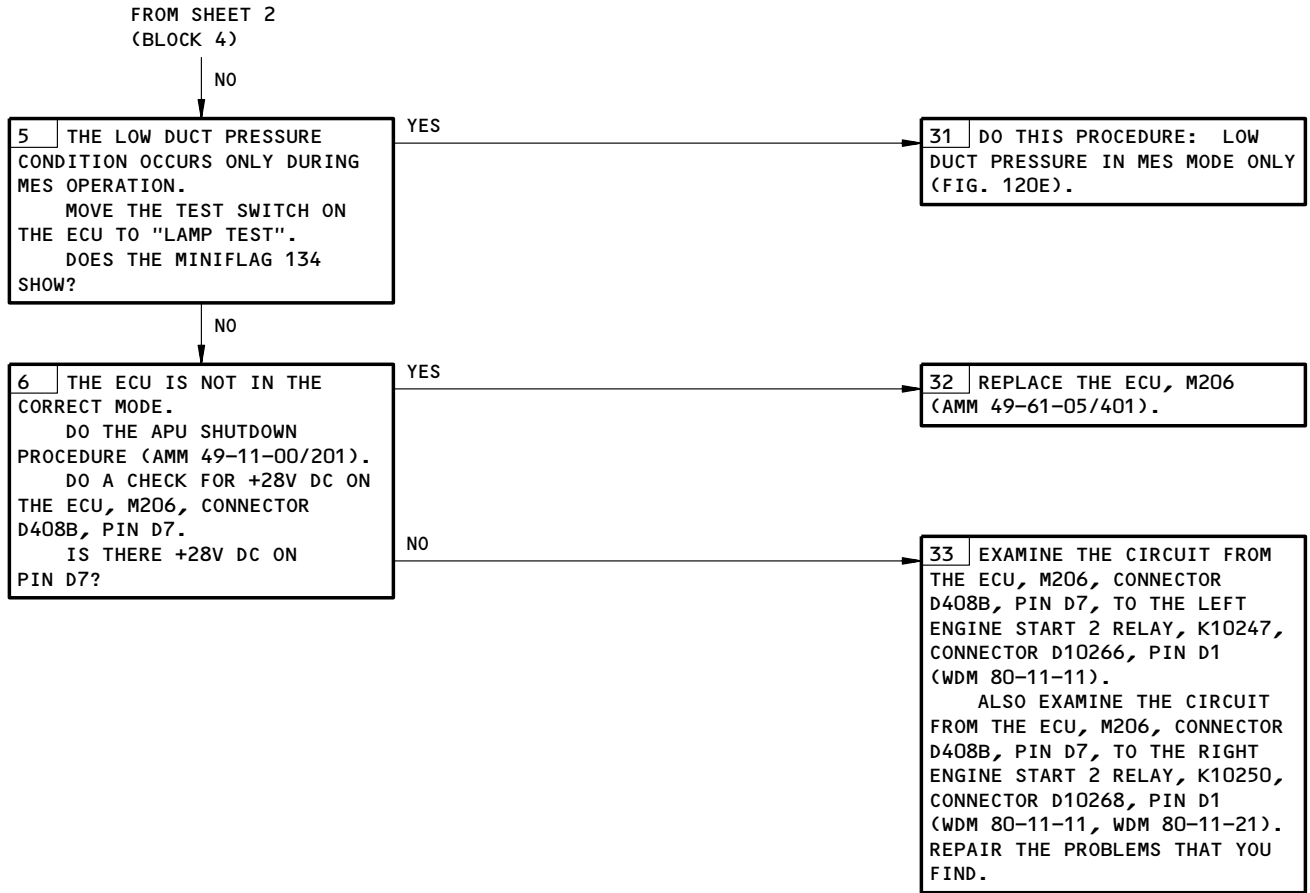
ALL

49-11-00

01A

Page 165  
Dec 22/06

E78913

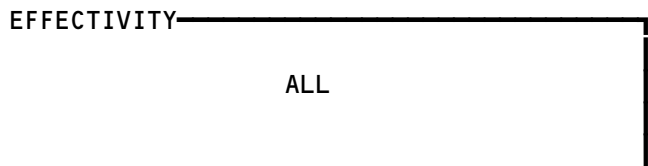


Low Duct Pressure  
Figure 120 (Sheet 3)

EFFECTIVITY ————  
ALL

**49-11-00**

Not Used  
Figure 120A



**49-11-00**

01A

Page 167  
Dec 22/06

610704

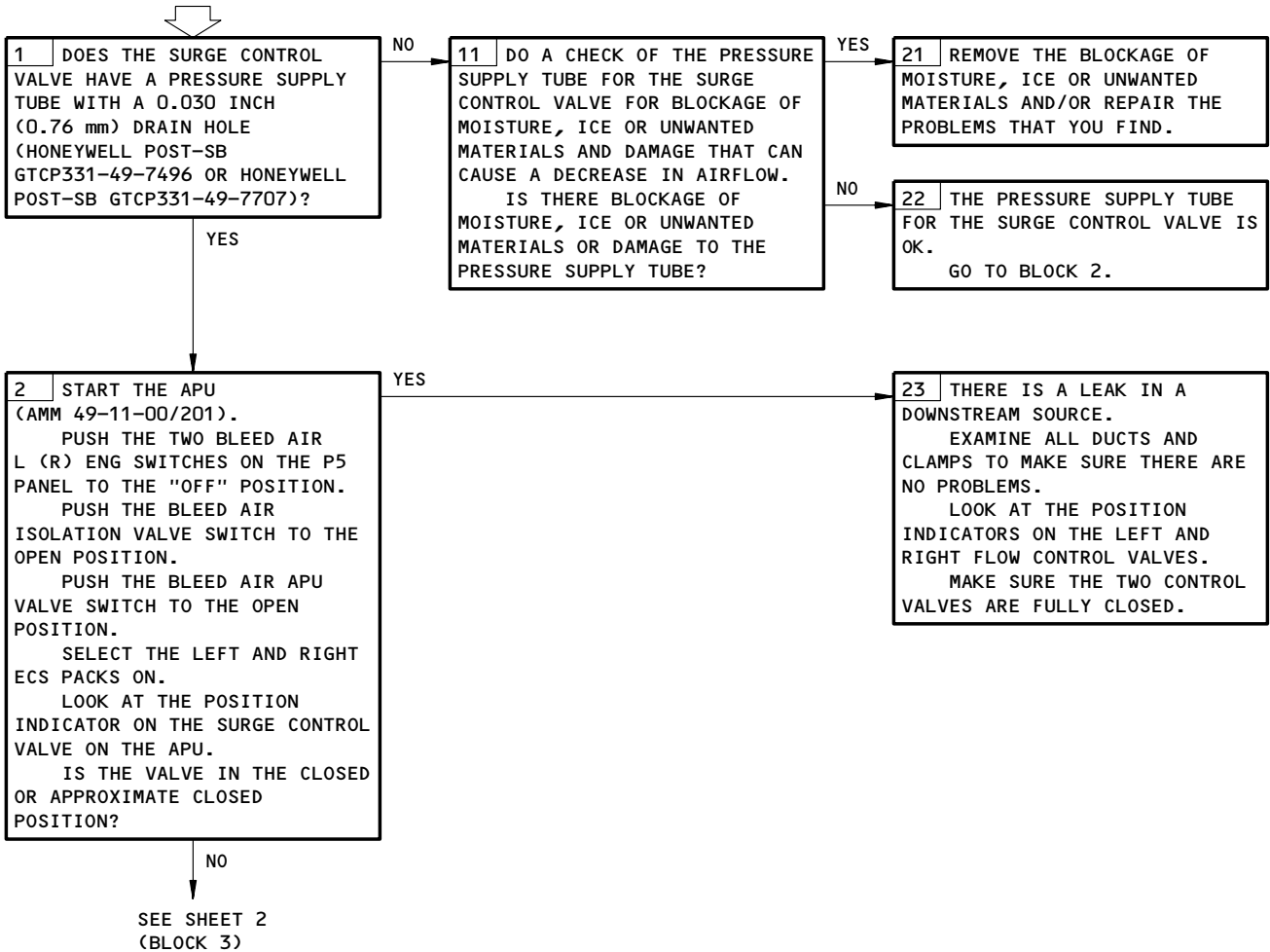
**LOW DUCT PRESSURE  
IN DUCT  
PRESSURIZATION MODE  
(3-25 PSIG)**

**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>1</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



<sup>1</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Low Duct Pressure in Duct Pressurization Mode (3-25 PSIG)  
Figure 120B (Sheet 1)

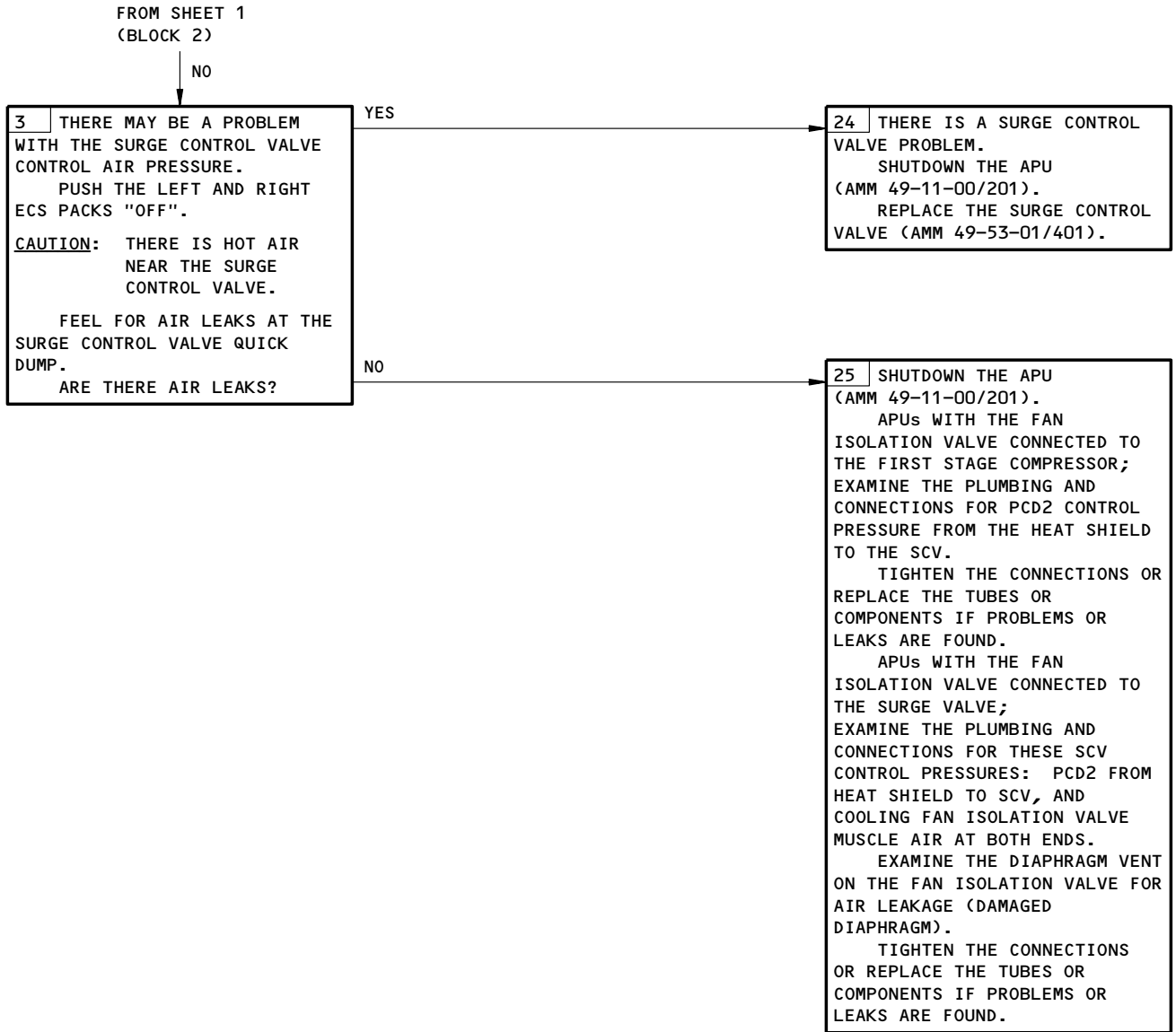
EFFECTIVITY

ALL

**49-11-00**

01A

Page 168  
Dec 22/06



Low Duct Pressure in Duct Pressurization Mode (3-25 PSIG)  
Figure 120B (Sheet 2)

EFFECTIVITY	ALL
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49-11-00



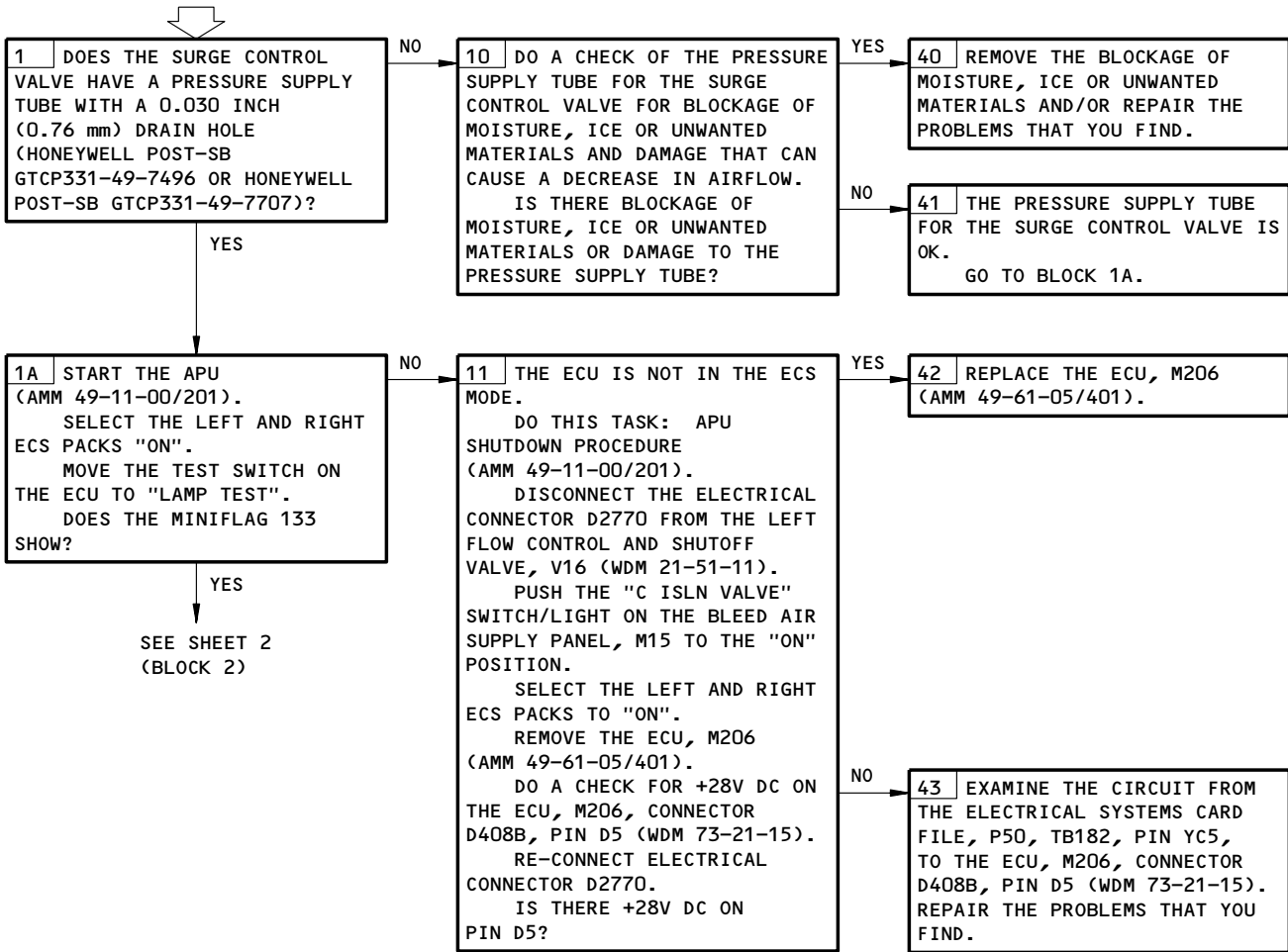
**LOW DUCT PRESSURE  
IN ALL OPERATIONAL  
MODES: ECS, MES  
AND DUCT  
PRESSURIZATION**

**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>2</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



<sup>1</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

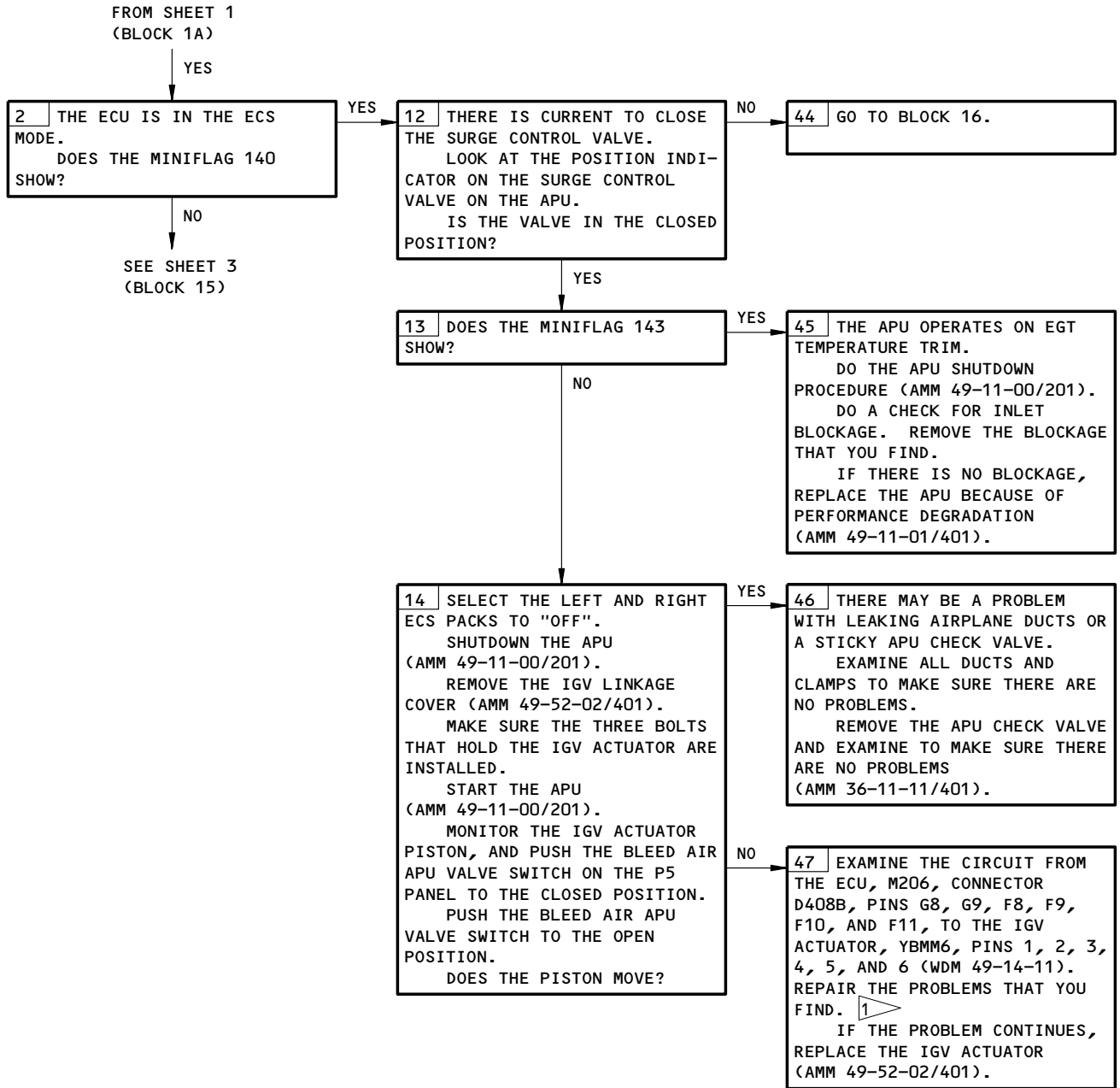
<sup>2</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Low Duct Pressure in All Operational Modes:  
ECS, MES and Duct Pressurization  
Figure 120C (Sheet 1)

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

**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



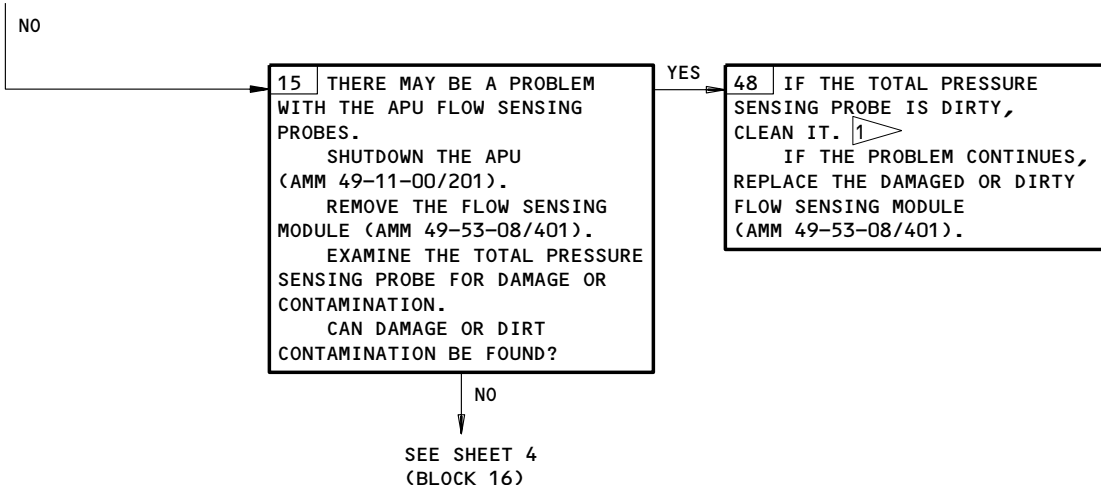
Low Duct Pressure in All Operational Modes:  
ECS, MES and Duct Pressurization  
Figure 120C (Sheet 2)

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

**49-11-00**


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 2)



Low Duct Pressure in All Operational Modes:  
 ECS, MES and Duct Pressurization  
 Figure 120C (Sheet 3)

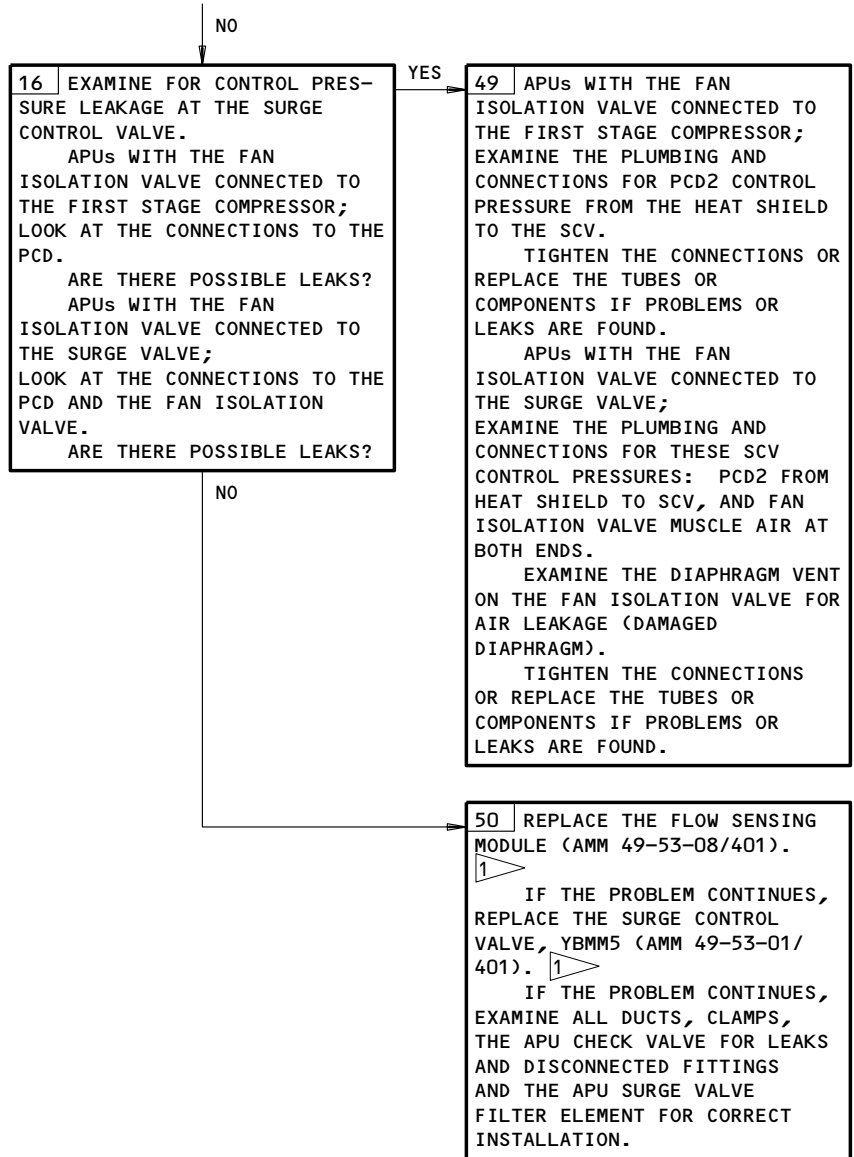
EFFECTIVITY	ALL
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49-11-00

E77838

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 15)



Low Duct Pressure in All Operational Modes:  
ECS, MES and Duct Pressurization  
Figure 120C (Sheet 4)

EFFECTIVITY

ALL
-----

49-11-00

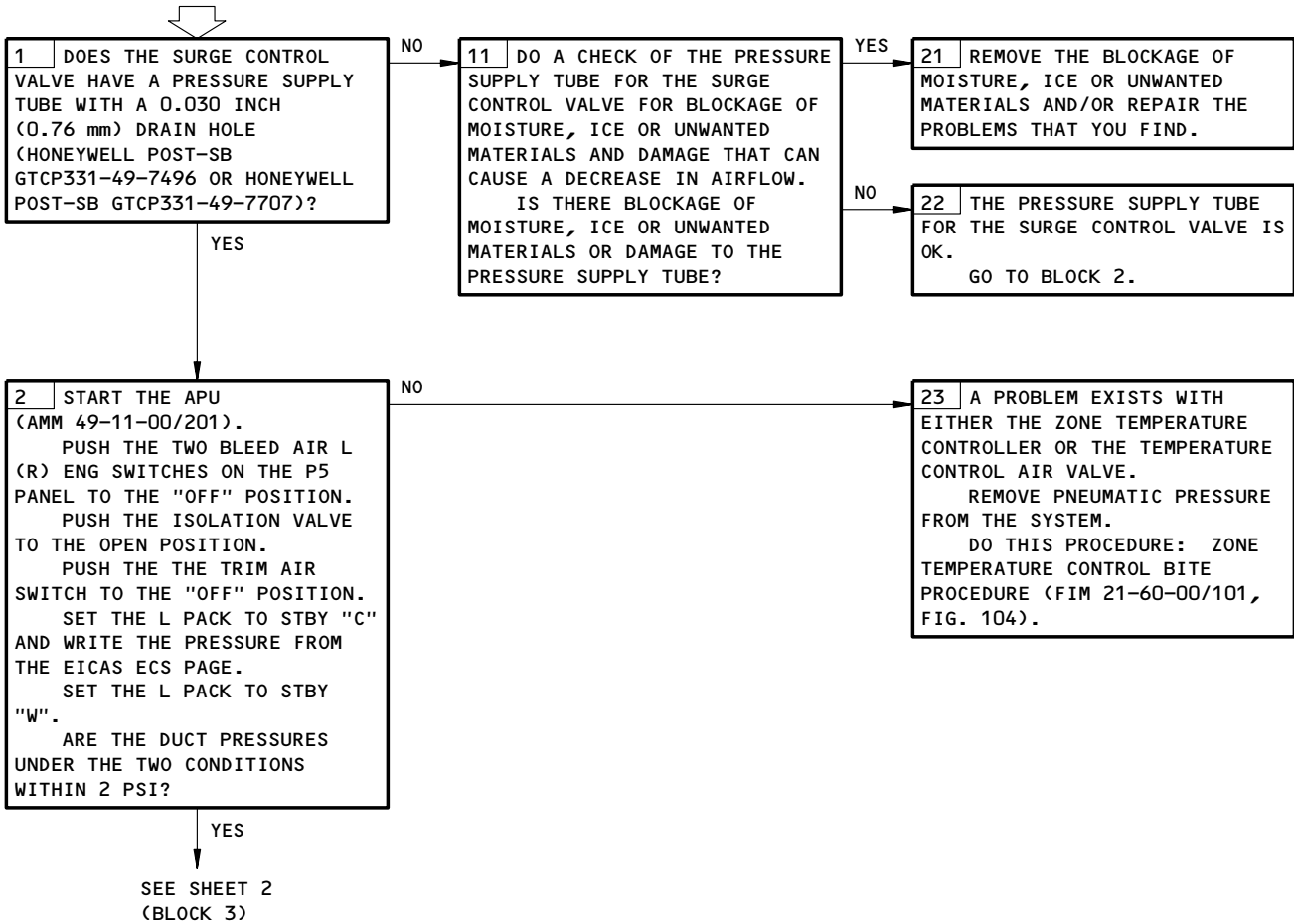
**LOW DUCT PRESSURE  
DURING ONE OR TWO  
ECS PACK OPERATION  
ONLY**

**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>1</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

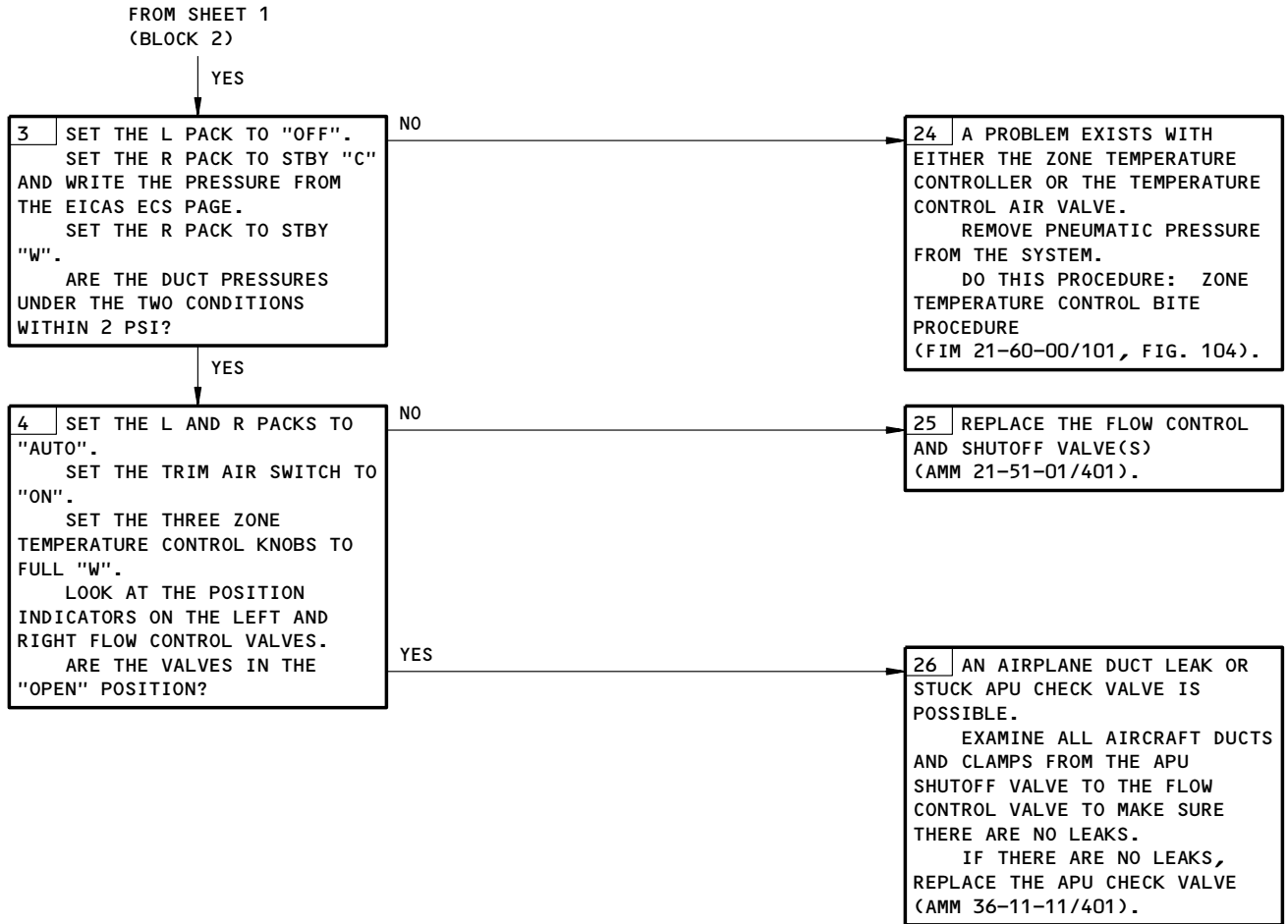


<sup>1</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Low Duct Pressure During One or Two ECS Pack Operation Only  
Figure 120D (Sheet 1)

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

**49-11-00**



Low Duct Pressure During One or Two ECS Pack Operation Only  
Figure 120D (Sheet 2)

EFFECTIVITY

ALL
-----

49-11-00

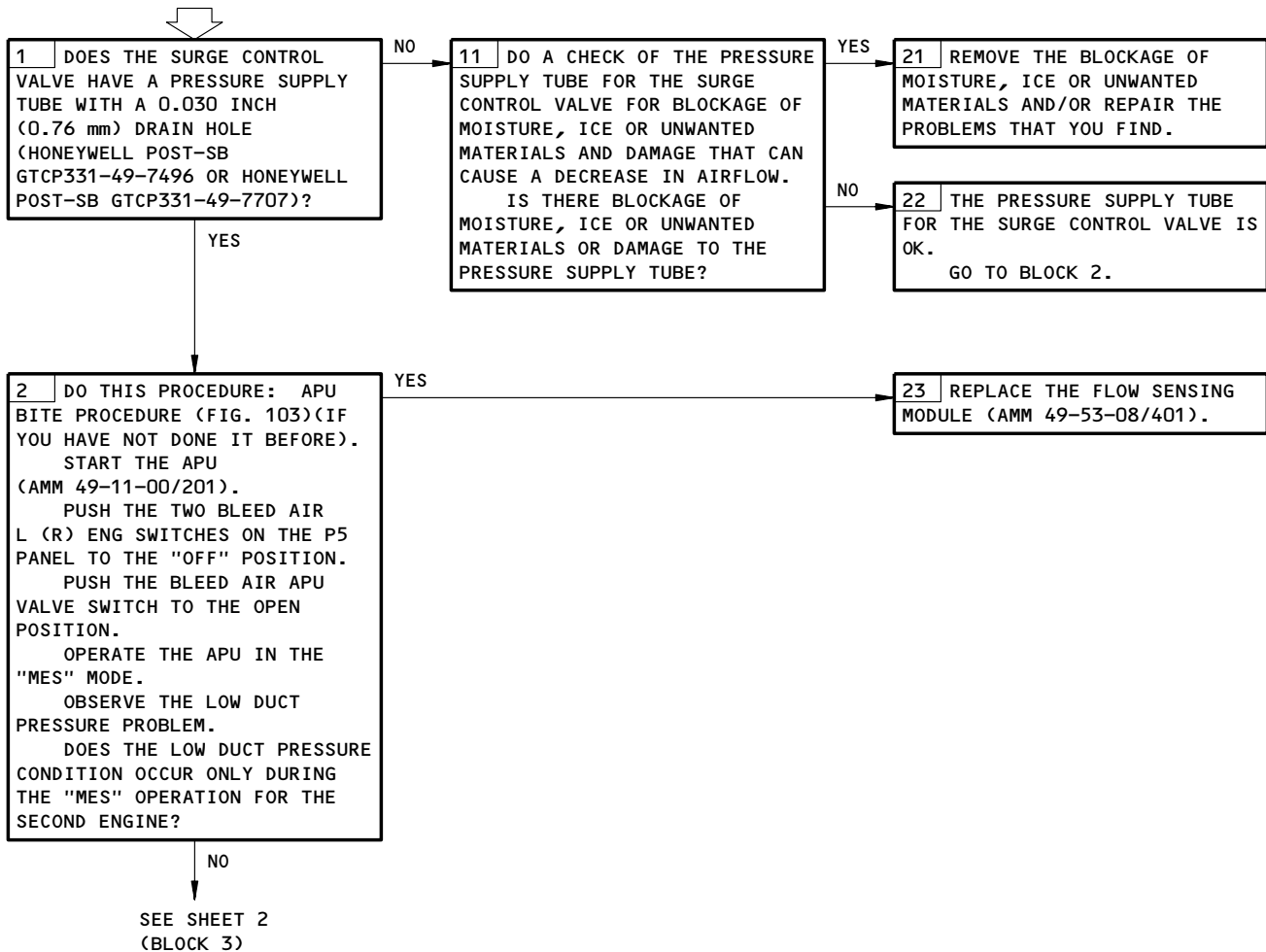
**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>1</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**LOW DUCT PRESSURE  
IN "MES" MODE ONLY**



<sup>1</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Low Duct Pressure in MES Mode Only  
Figure 120E (Sheet 1)

EFFECTIVITY

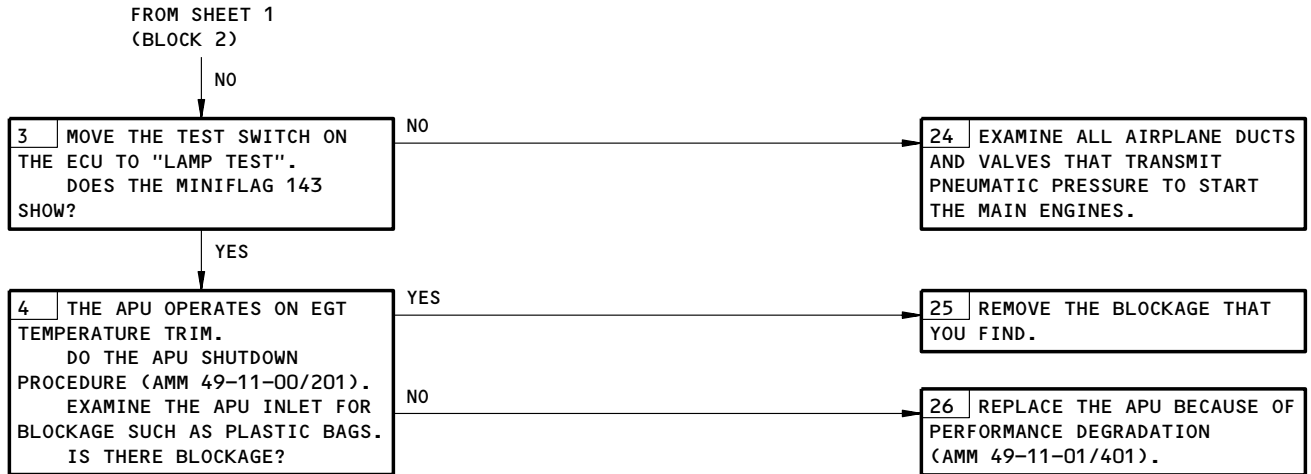
ALL

**49-11-00**

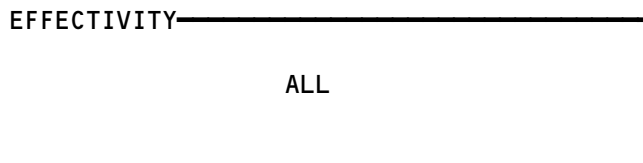
01A

Page 176  
Dec 22/06

L17010



Low Duct Pressure in MES Mode Only  
Figure 120E (Sheet 2)



49-11-00

01A

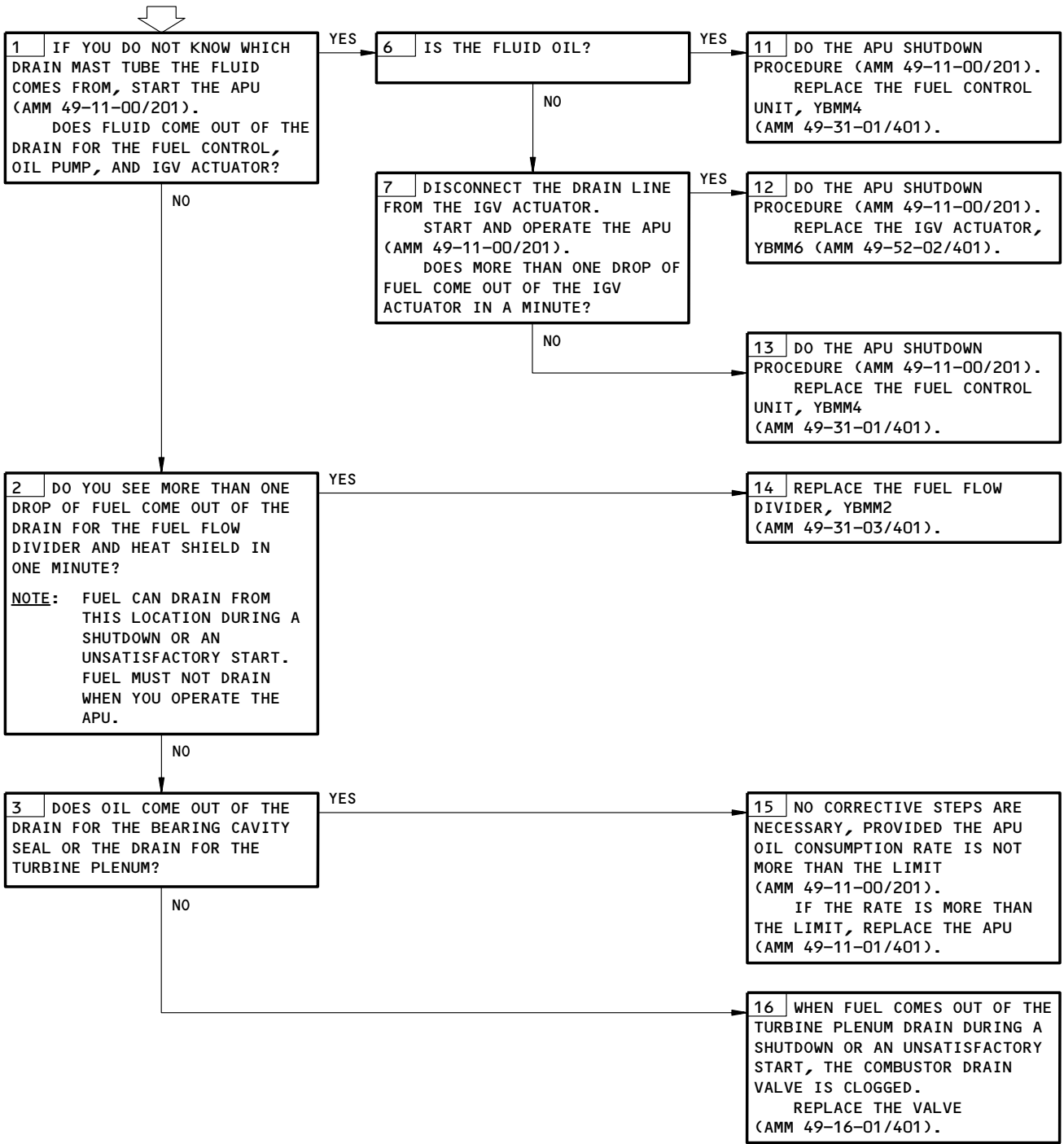
Page 177  
Dec 22/06

W41904



**FLUIDS COMING FROM DRAIN MAST**

**PREREQUISITES**  
 MAKE SURE THIS SYSTEM WILL OPERATE:  
 APU START NORMAL (AMM 49-11-00/201)



Fluids Coming from Drain Mast  
Figure 121

EFFECTIVITY

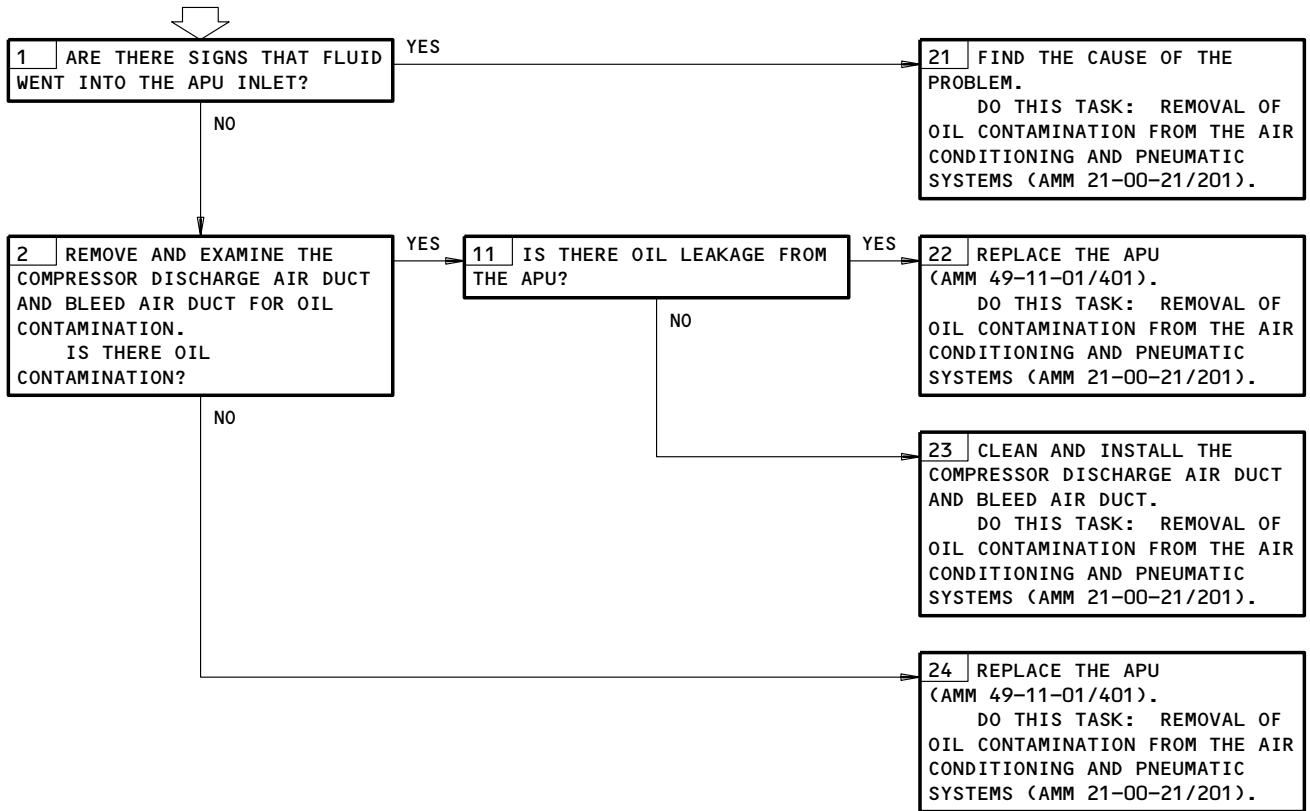
ALL
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**49-11-00**

**FUMES AND/OR SMOKE  
IN THE CABIN**

**PREREQUISITES**

NONE



Fumes and/or Smoke in the Cabin  
Figure 122

EFFECTIVITY

ALL

**49-11-00**

01A

Page 179  
Dec 22/06

E61730

**PREQUISITES**

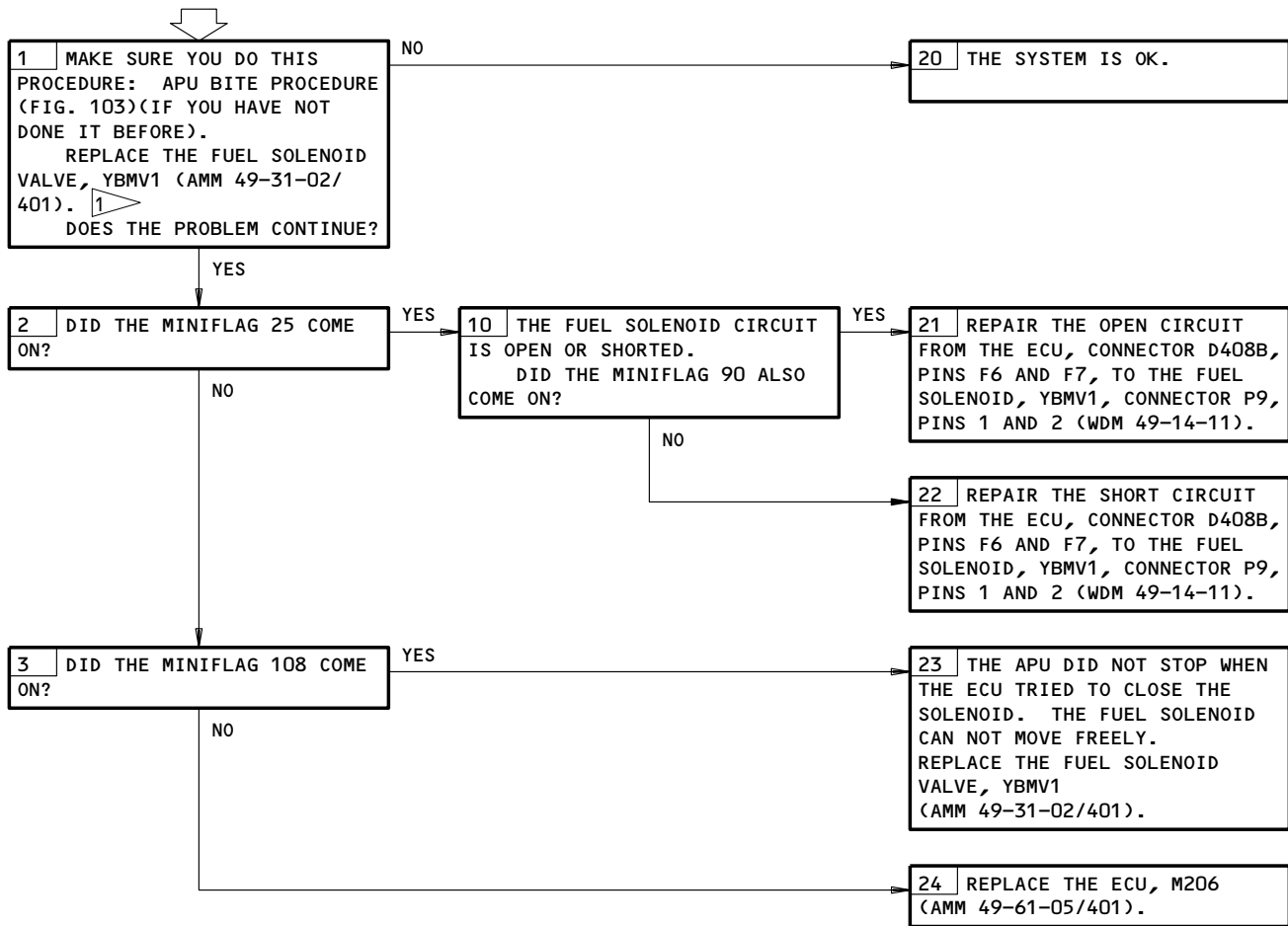
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 2,

APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "FUEL SOL" ON BITE**



1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

2 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - FUEL SOL on BITE  
Figure 123

EFFECTIVITY	ALL
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**49-11-00**

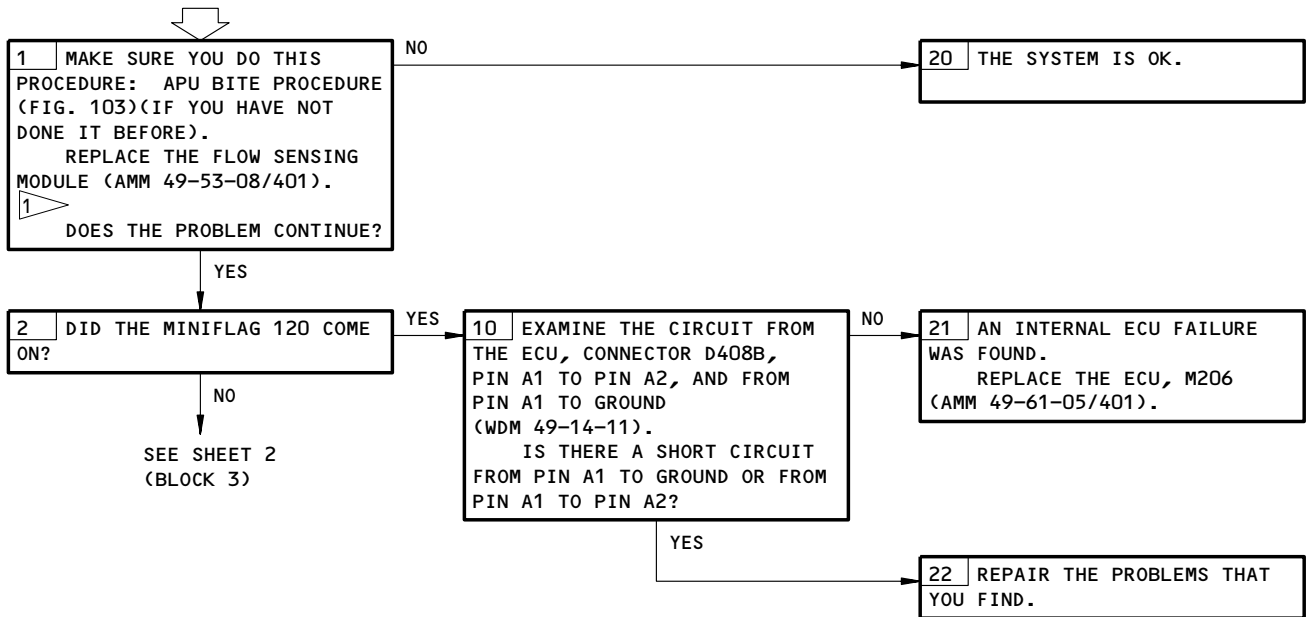
**FAULTY LRU - "PT  
SENSOR" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 2,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

2 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - PT SENSOR on BITE  
Figure 124 (Sheet 1)

EFFECTIVITY

ALL

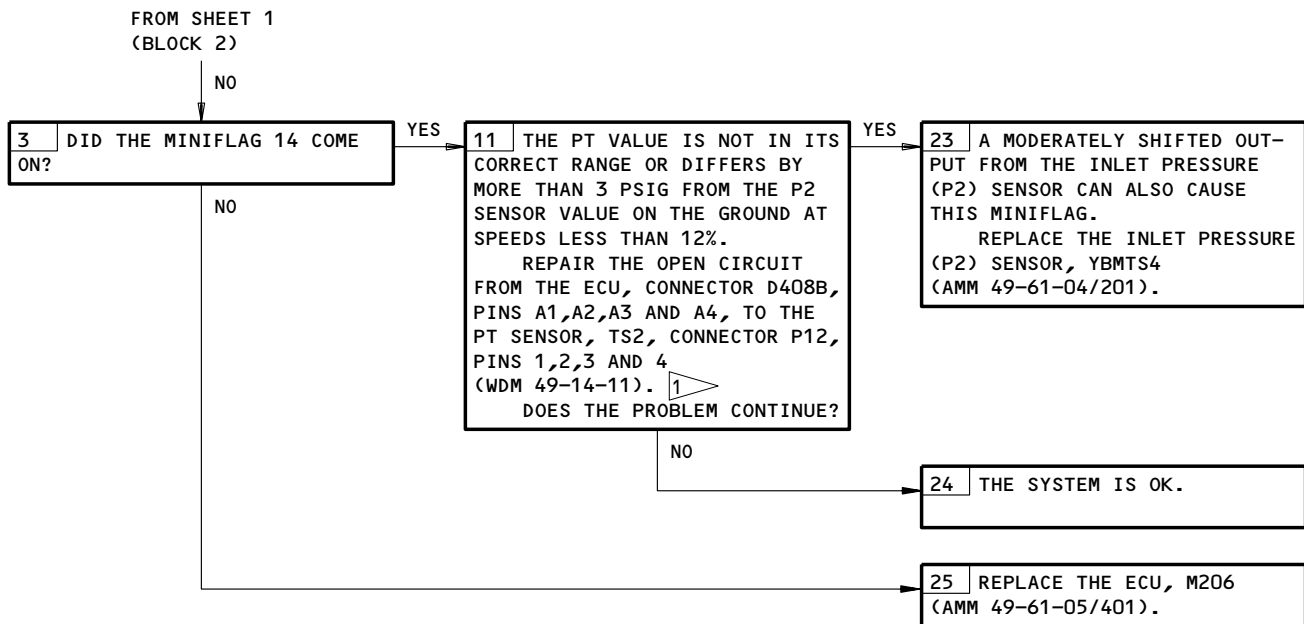
**49-11-00**

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Page 180A  
Dec 22/06

L17046

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Faulty LRU - PT SENSOR on BITE  
Figure 124 (Sheet 2)

EFFECTIVITY	ALL
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49-11-00

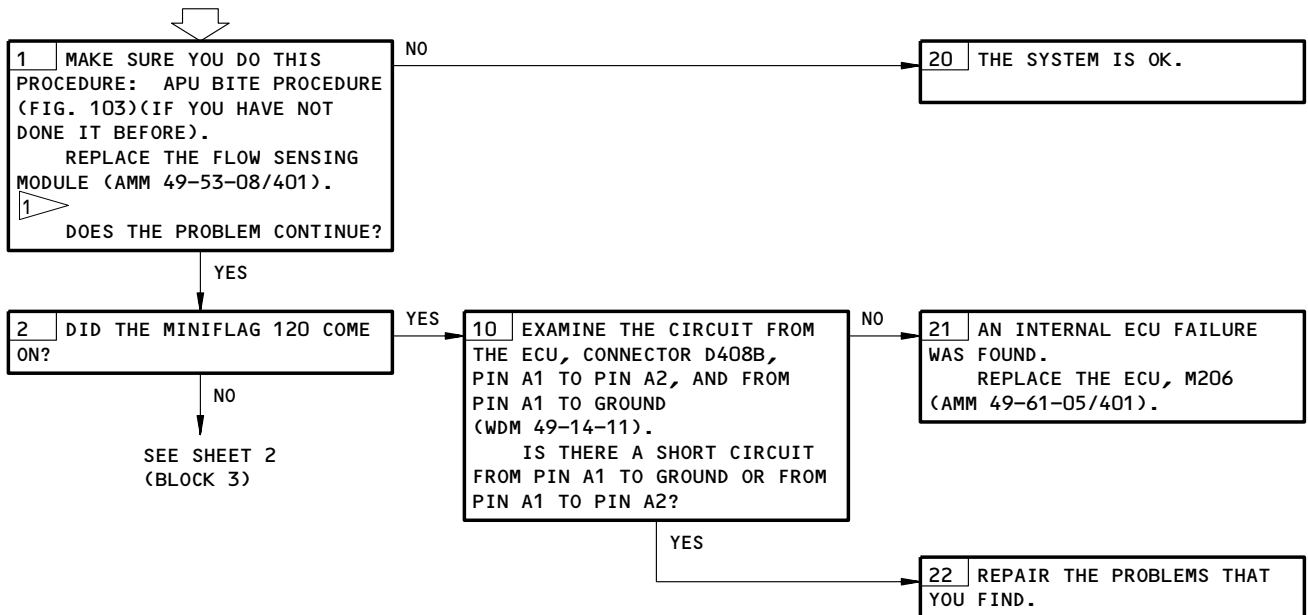
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 2,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "ΔP  
SENSOR" ON BITE**



1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

2 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - Delta P SENSOR on BITE  
Figure 125 (Sheet 1)

EFFECTIVITY

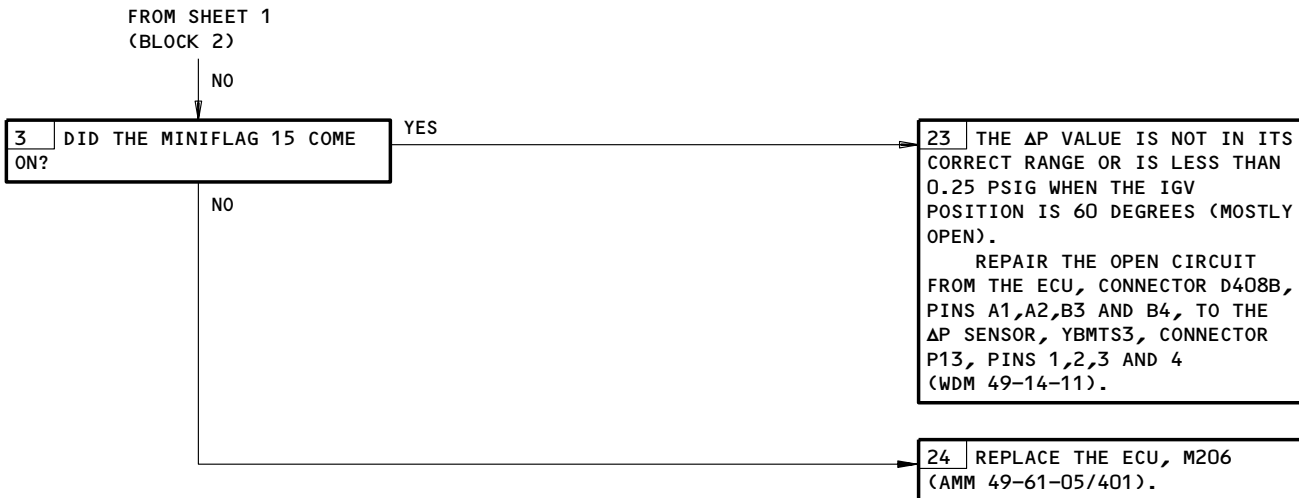
ALL

**49-11-00**

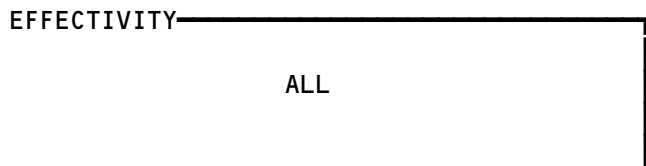
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Page 180C  
Dec 22/06

L17048



Faulty LRU - Delta P SENSOR on BITE  
Figure 125 (Sheet 2)



49-11-00

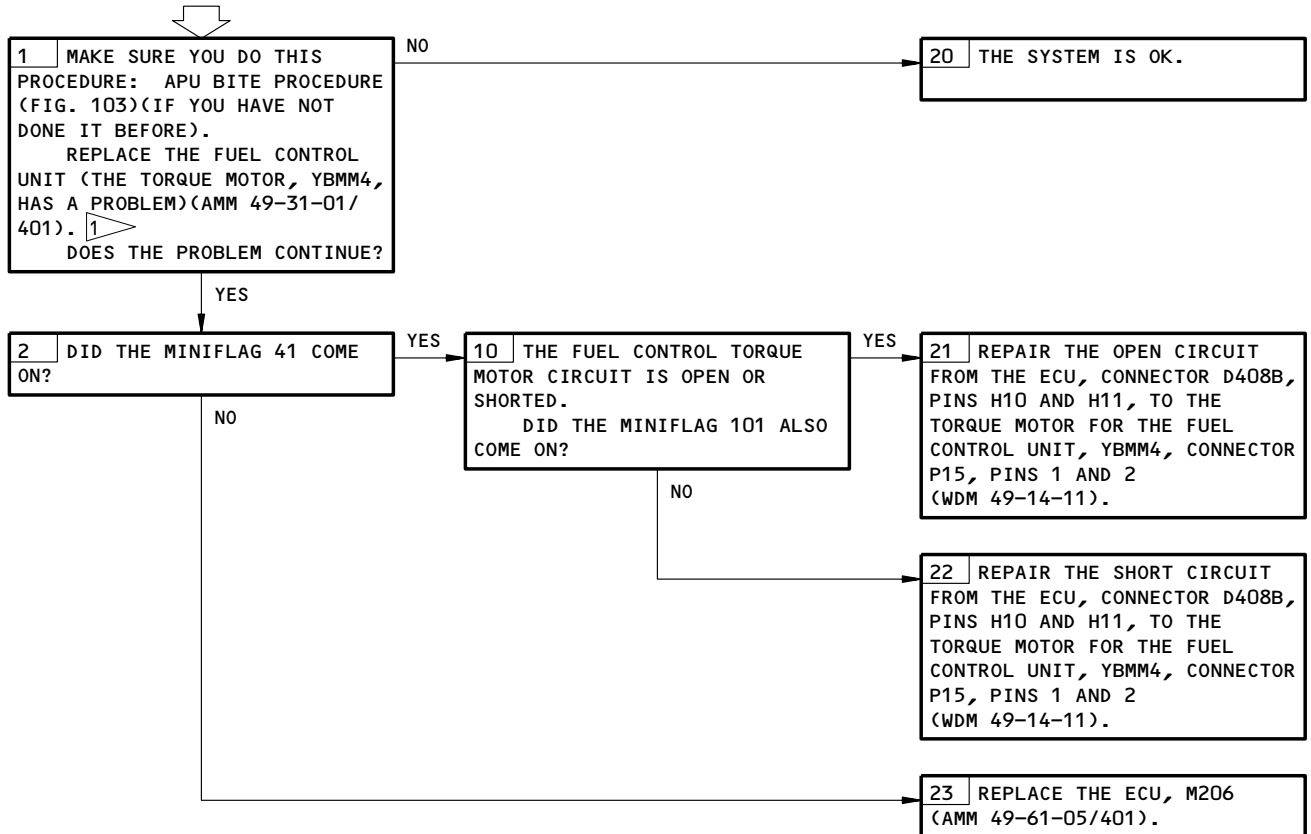
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 2,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "FUEL CONTROL" ON BITE**



1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

2 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - FUEL CONTROL on BITE  
Figure 126

EFFECTIVITY

ALL

**49-11-00**

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Page 180E  
Dec 22/06

L17051



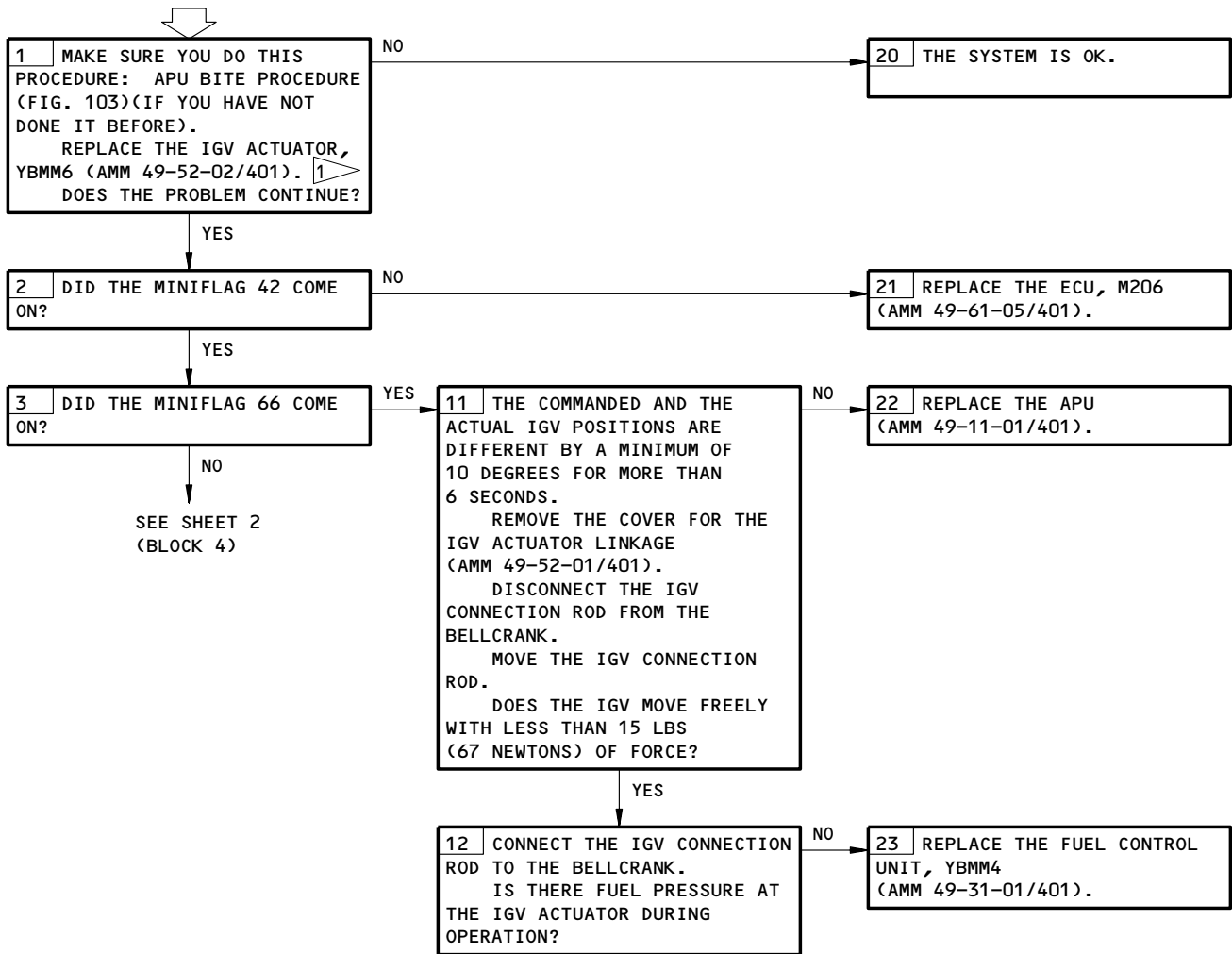
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>2</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "IGV ACT" ON BITE**



<sup>1</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

<sup>2</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

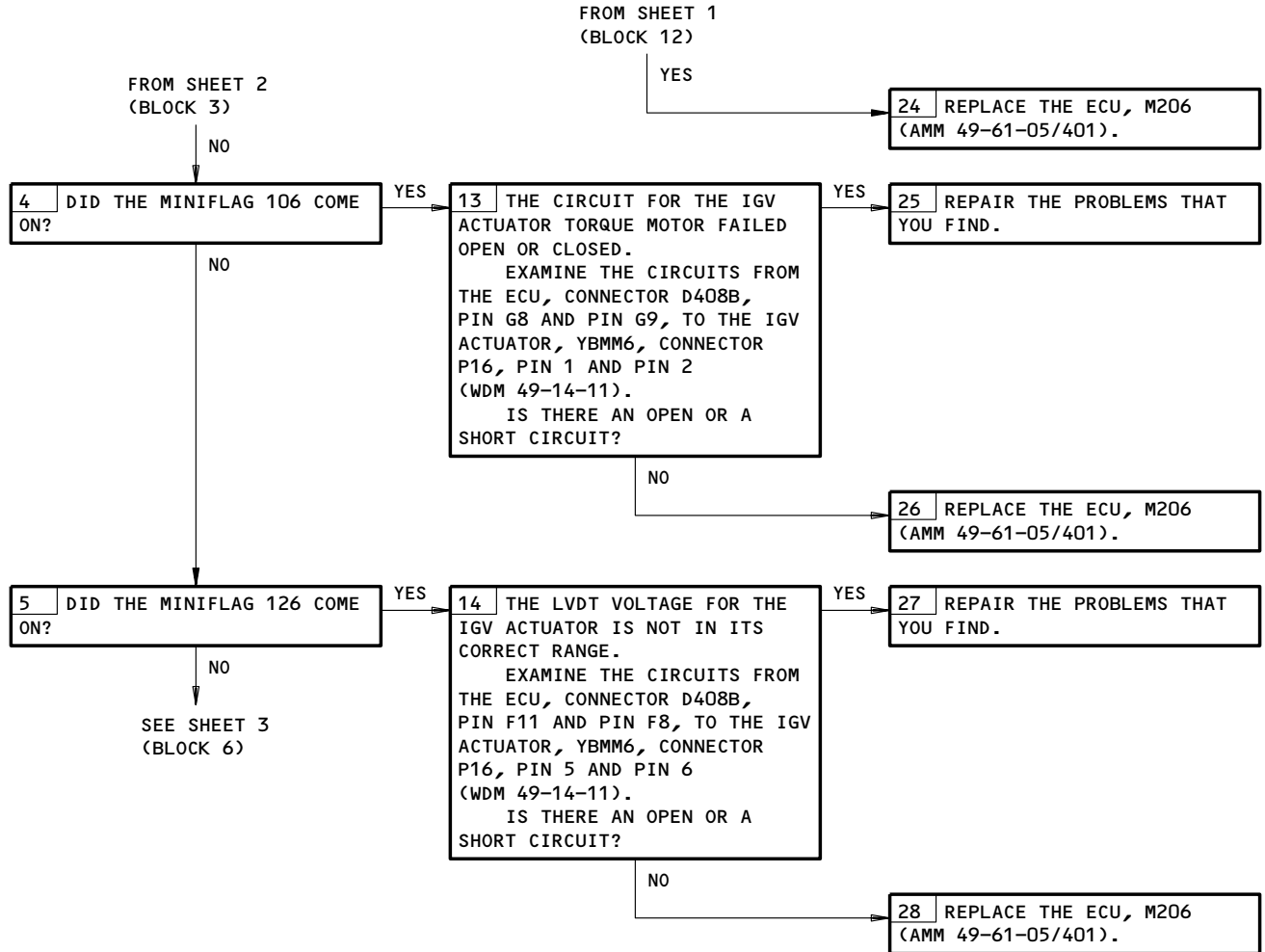
Faulty LRU - IGV ACT on BITE  
Figure 127 (Sheet 1)

EFFECTIVITY

ALL
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**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Faulty LRU - IG V ACT on BITE  
Figure 127 (Sheet 2)

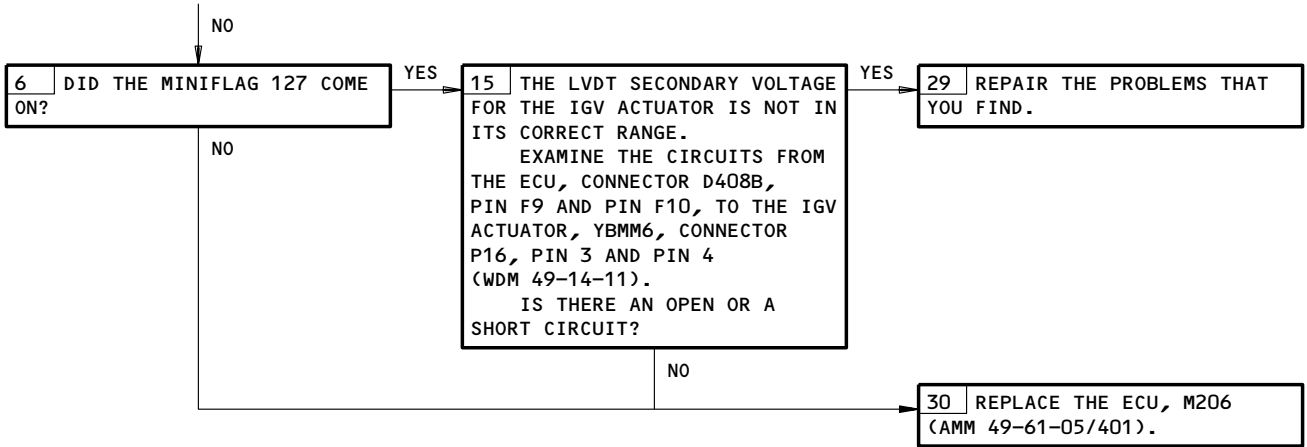
EFFECTIVITY

ALL
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49-11-00


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 5)



Faulty LRU - IGV ACT on BITE  
Figure 127 (Sheet 3)

EFFECTIVITY	ALL
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49-11-00

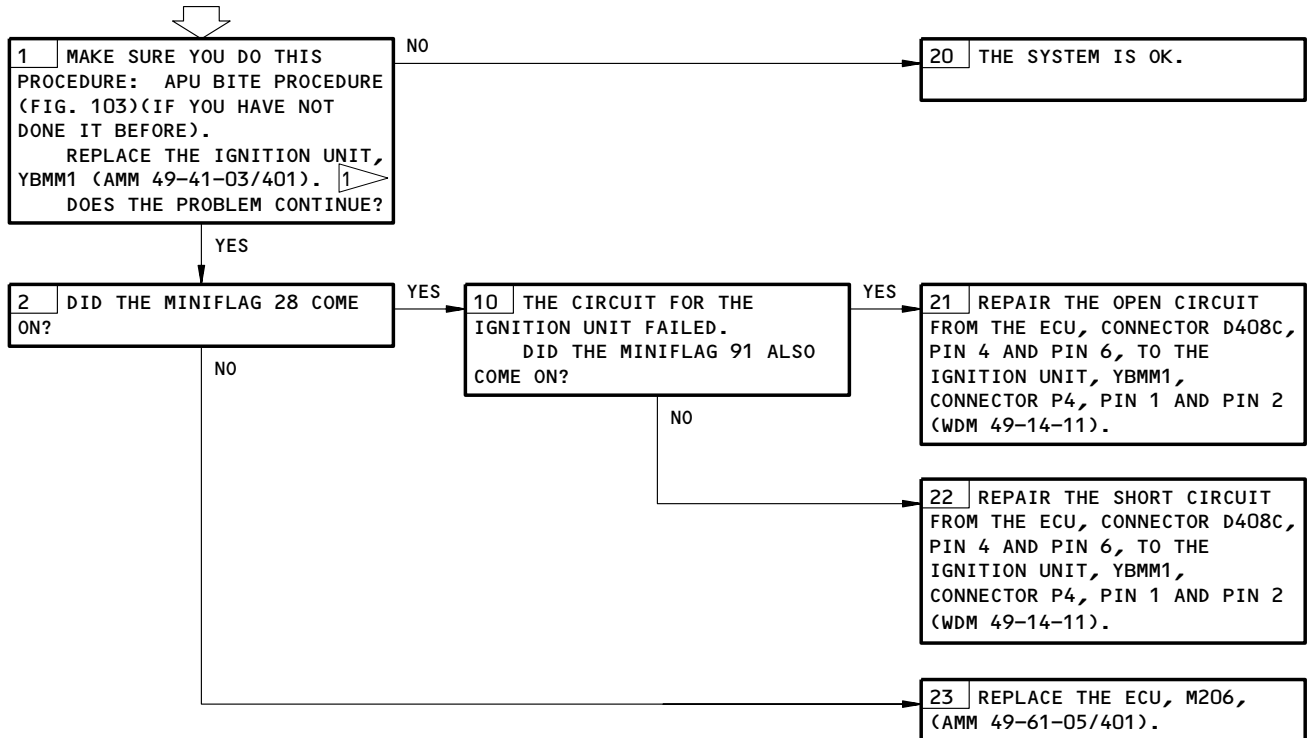
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>2</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "IGN UNIT" ON BITE**



<sup>1</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

<sup>2</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - IGN UNIT on BITE  
Figure 128

EFFECTIVITY	ALL
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**49-11-00**

**FAULTY LRU - "APU STARTER" ON BITE**

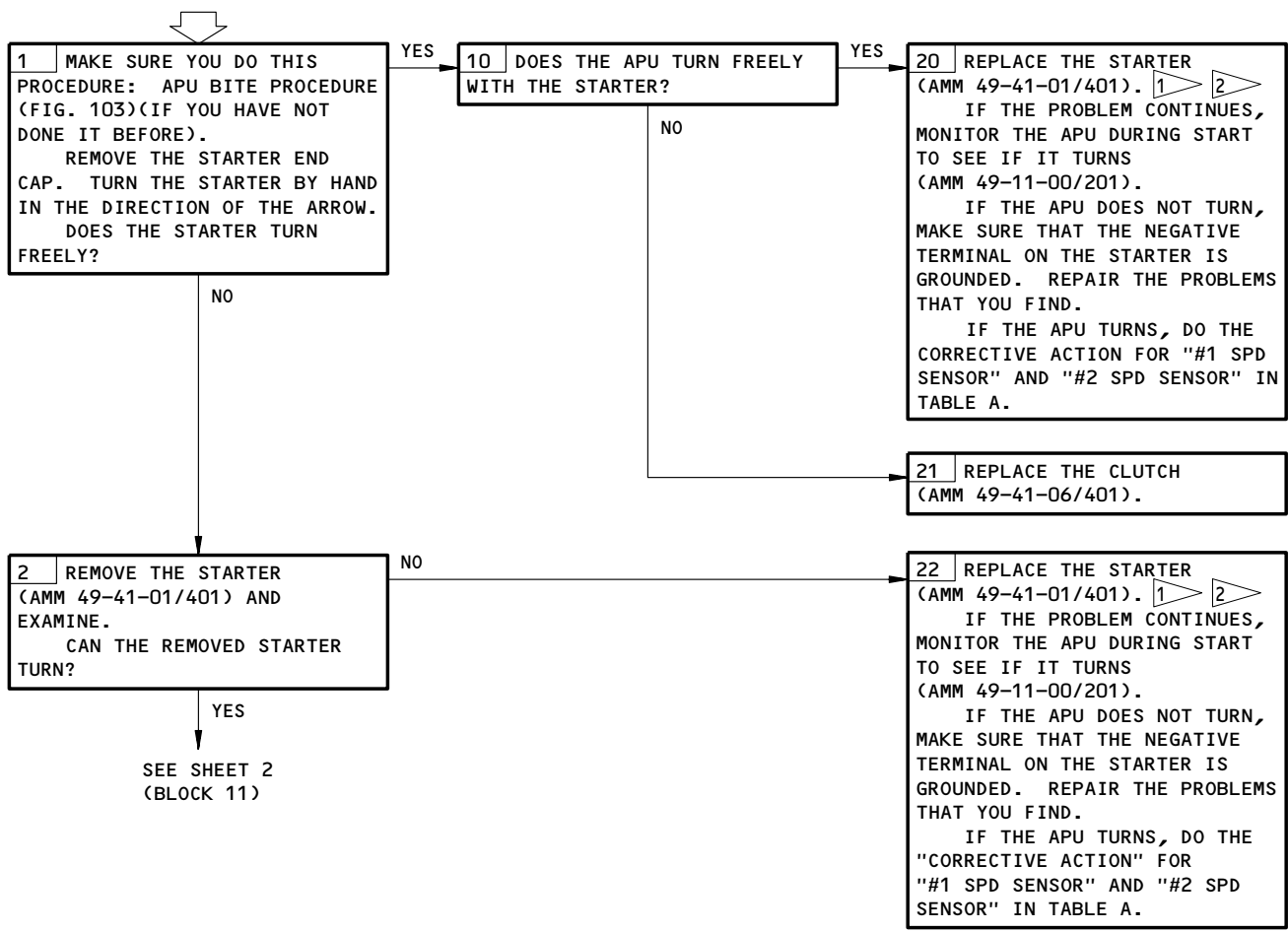
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 3,

APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



- 1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- 2 IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/401), AND THE APU STARTER CLUTCH (AMM 49-41-06/401).
- 3 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - APU STARTER on BITE  
Figure 129 (Sheet 1)

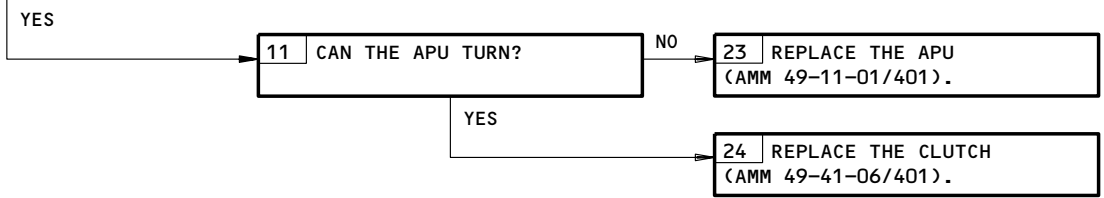
EFFECTIVITY

ALL
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**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



Faulty LRU - APU STARTER on BITE  
Figure 129 (Sheet 2)

EFFECTIVITY

ALL
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49-11-00

01A Page 180K  
Dec 22/06

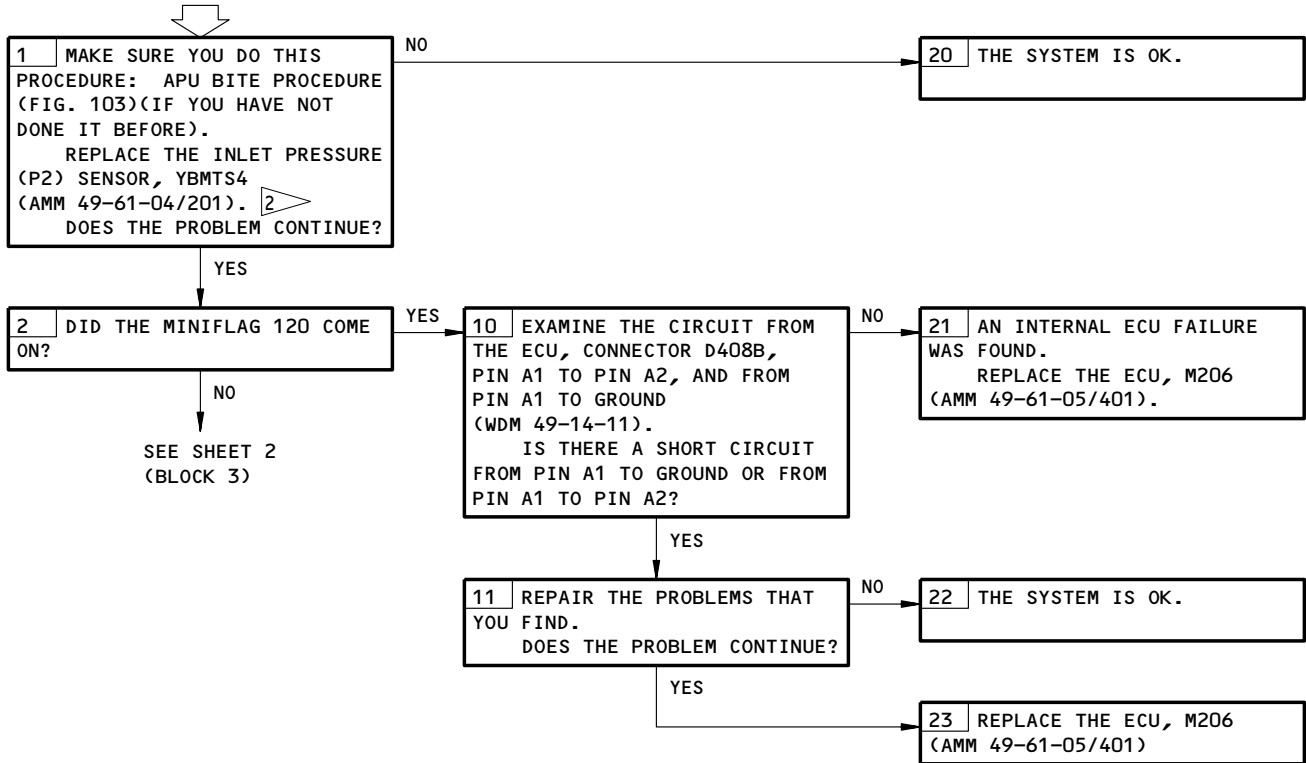
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
 APU PRIME CONT (P49), APU START (P49),  
 APU INLET DR ACT (P49)

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

**FAULTY LRU - "P2  
 SENSOR" ON BITE**



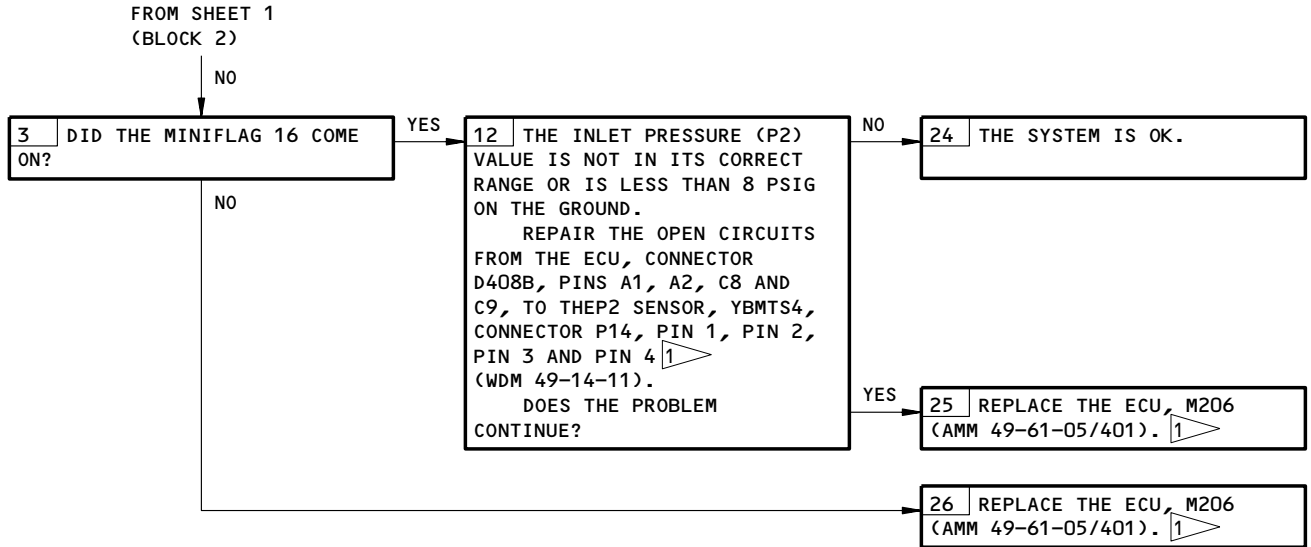
- 1 ▷ ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- 2 ▷ DO THE SELF-TEST (FIG. 103, BLOCK 3) TO MAKE SURE THE PROBLEM IS REPAIRED.
- 3 ▷ AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - P2 SENSOR on BITE  
 Figure 130 (Sheet 1)

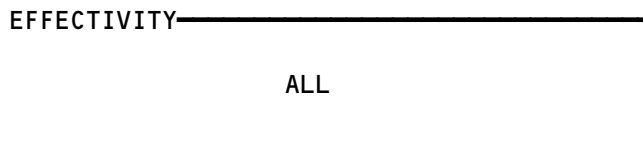
EFFECTIVITY	ALL
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**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Faulty LRU - P2 SENSOR on BITE  
Figure 130 (Sheet 2)



49-11-00



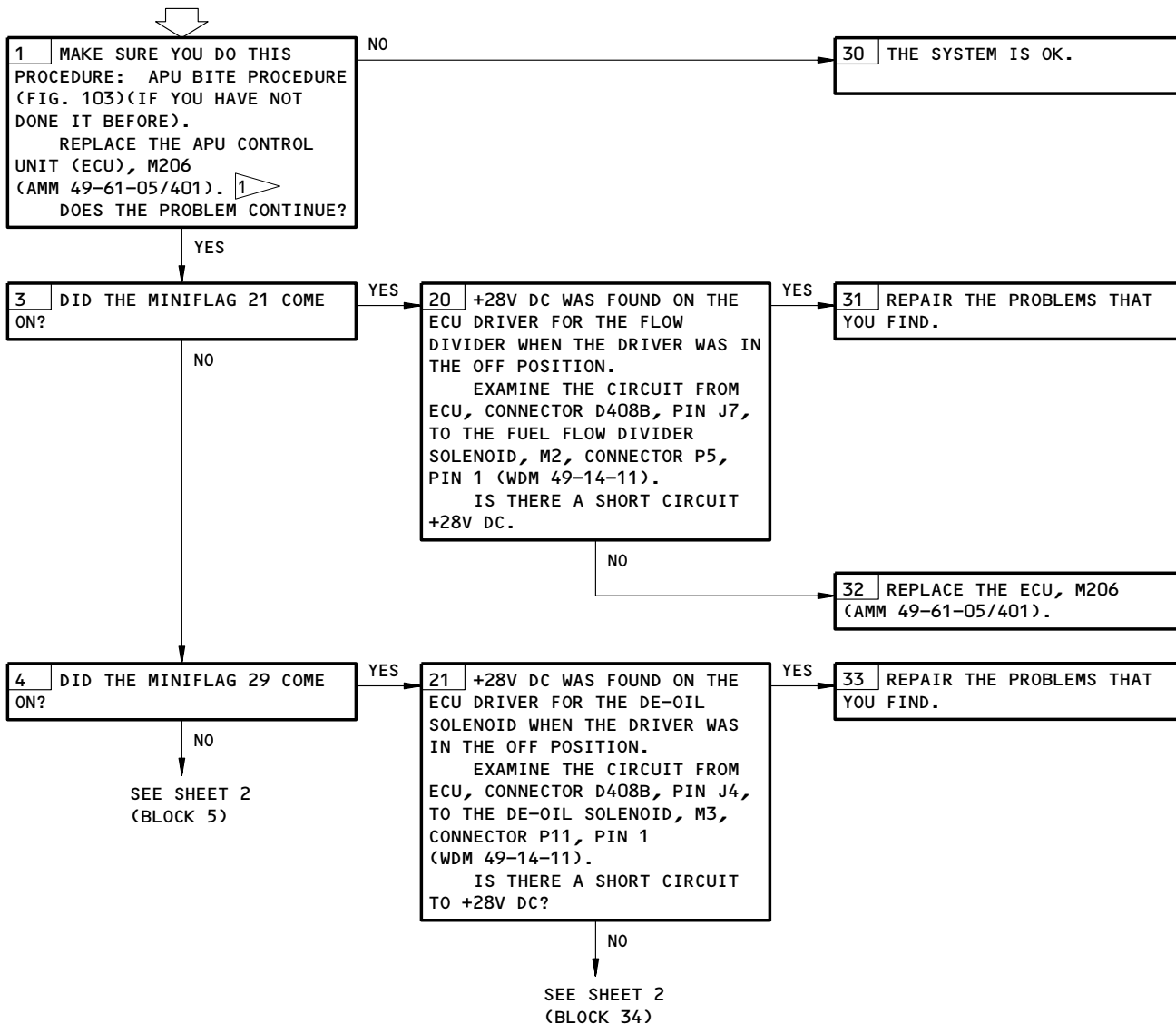
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 2,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "ECU"  
ON BITE**



1 DO THIS PROCEDURE: SELF-TEST (FIG. 103, BLOCK 3) TO MAKE SURE THE PROBLEM IS REPAIRED.

2 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - ECU on BITE  
Figure 131 (Sheet 1)

EFFECTIVITY

ALL

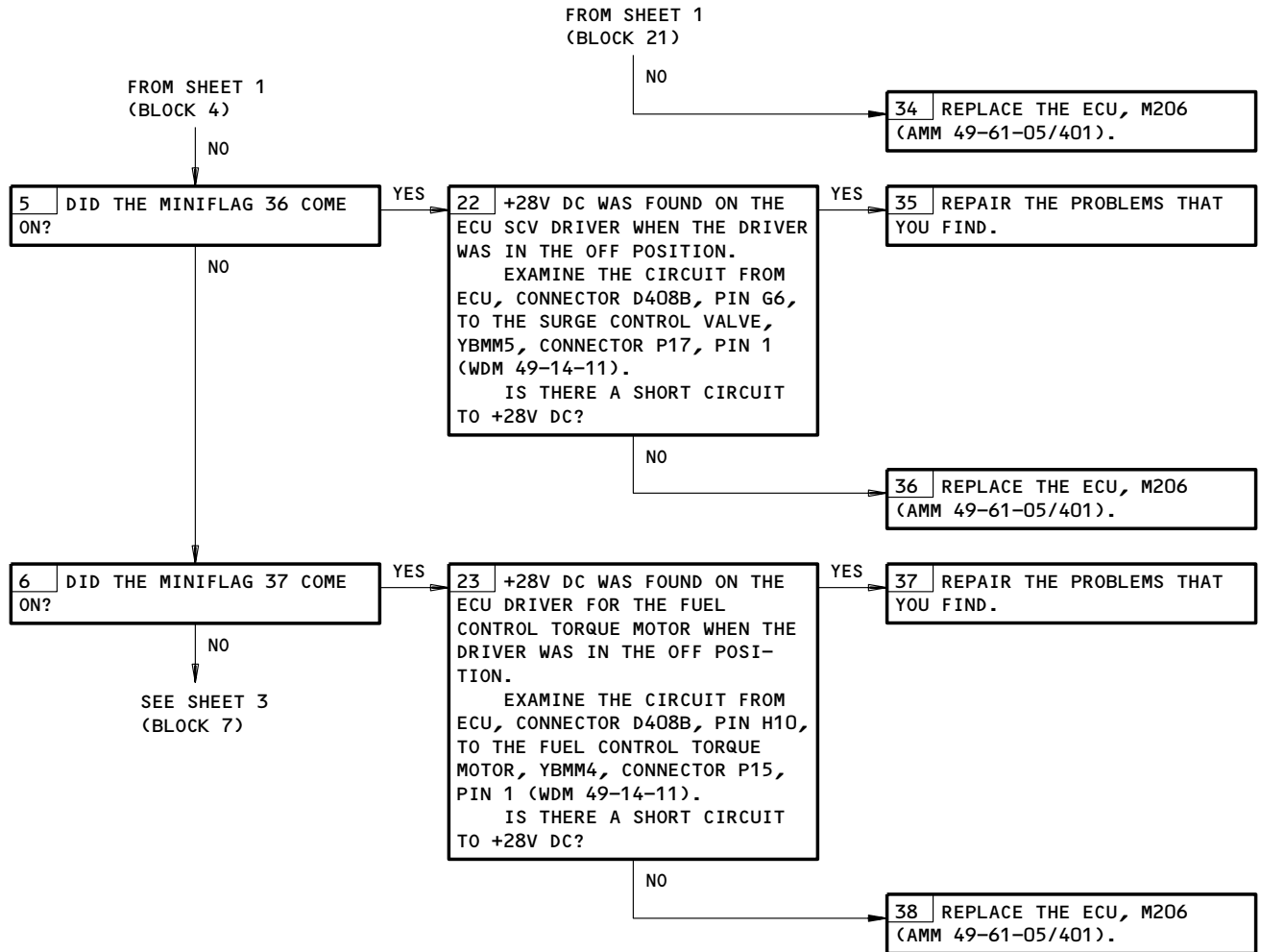
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Page 180N  
Dec 22/06

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**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



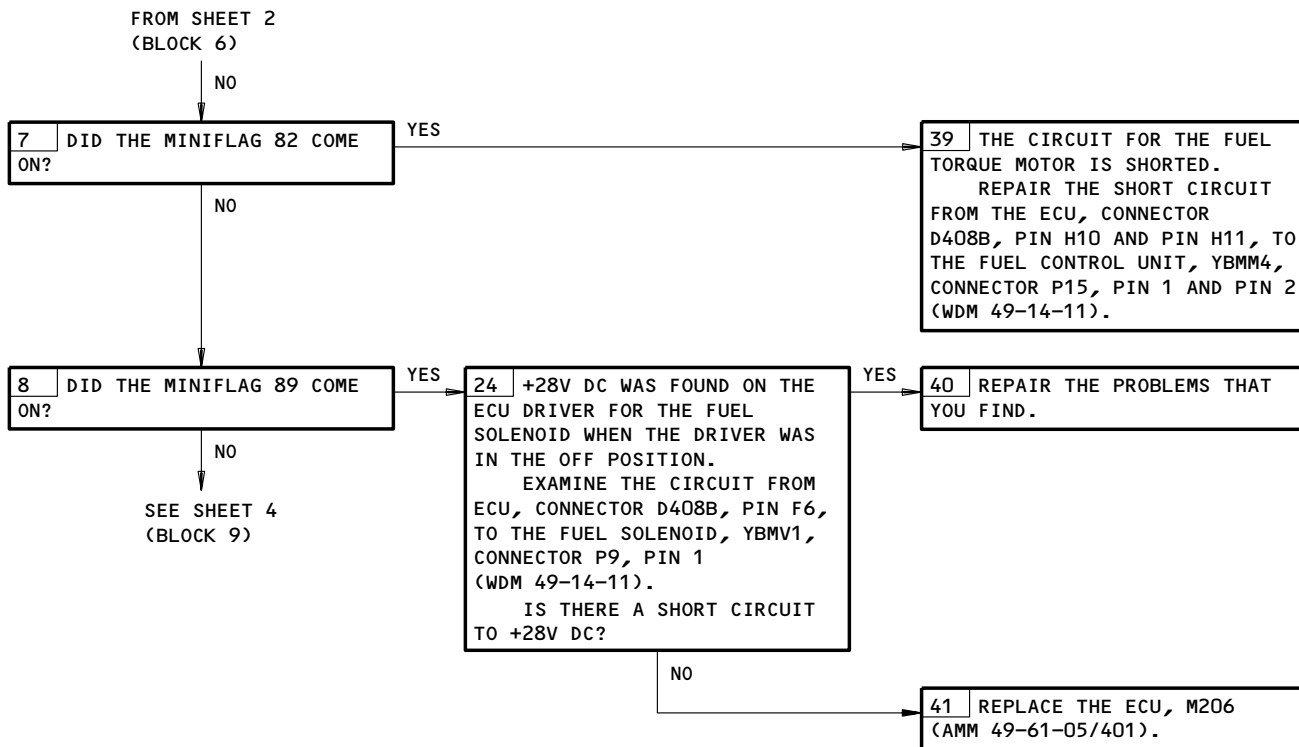
Faulty LRU - ECU on BITE  
Figure 131 (Sheet 2)

EFFECTIVITY

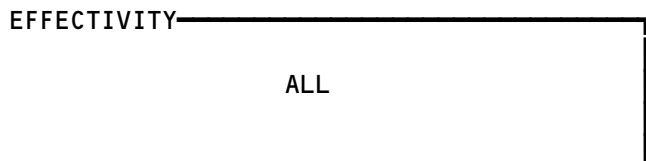
ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

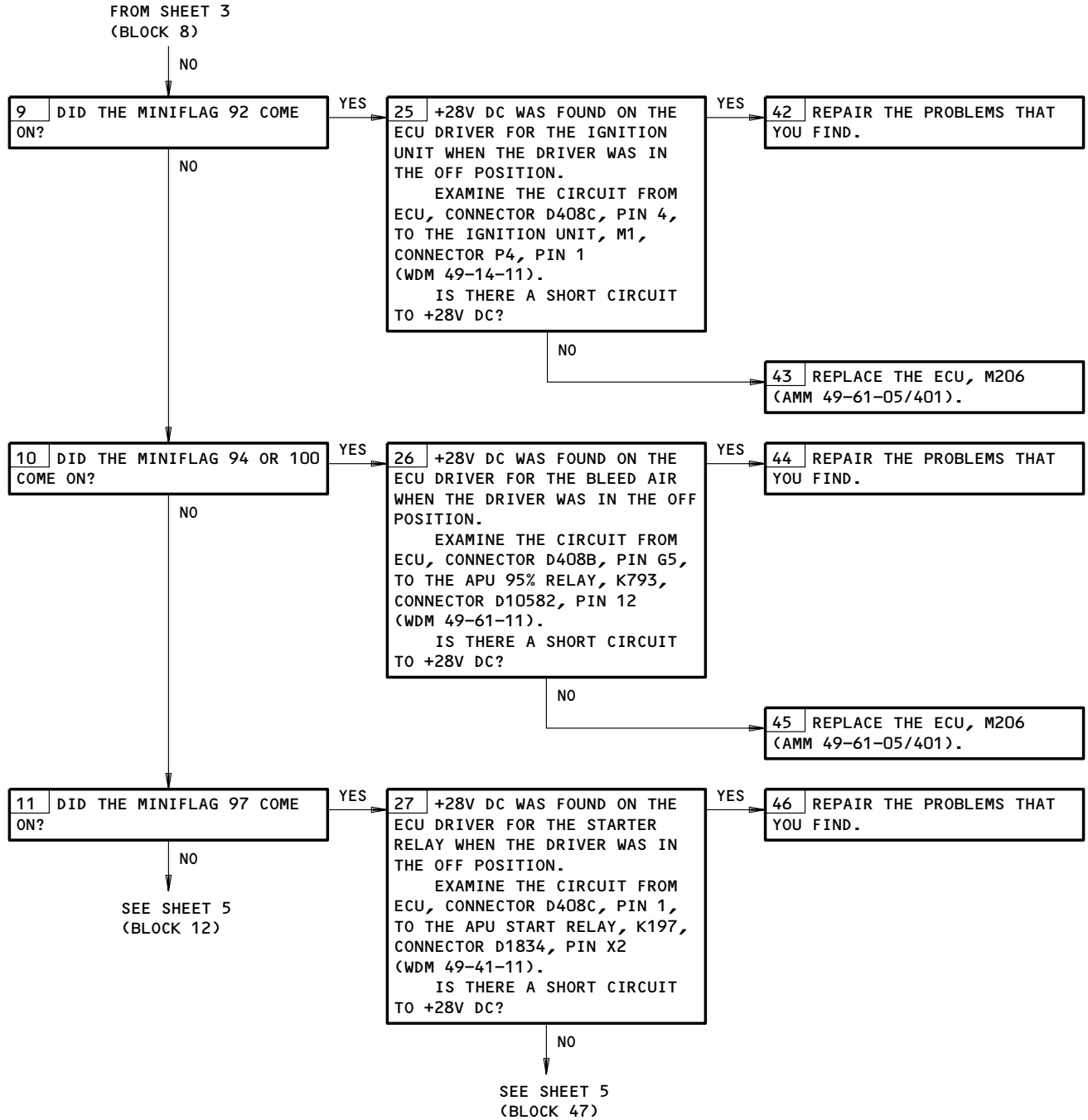


Faulty LRU - ECU on BITE  
Figure 131 (Sheet 3)



49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



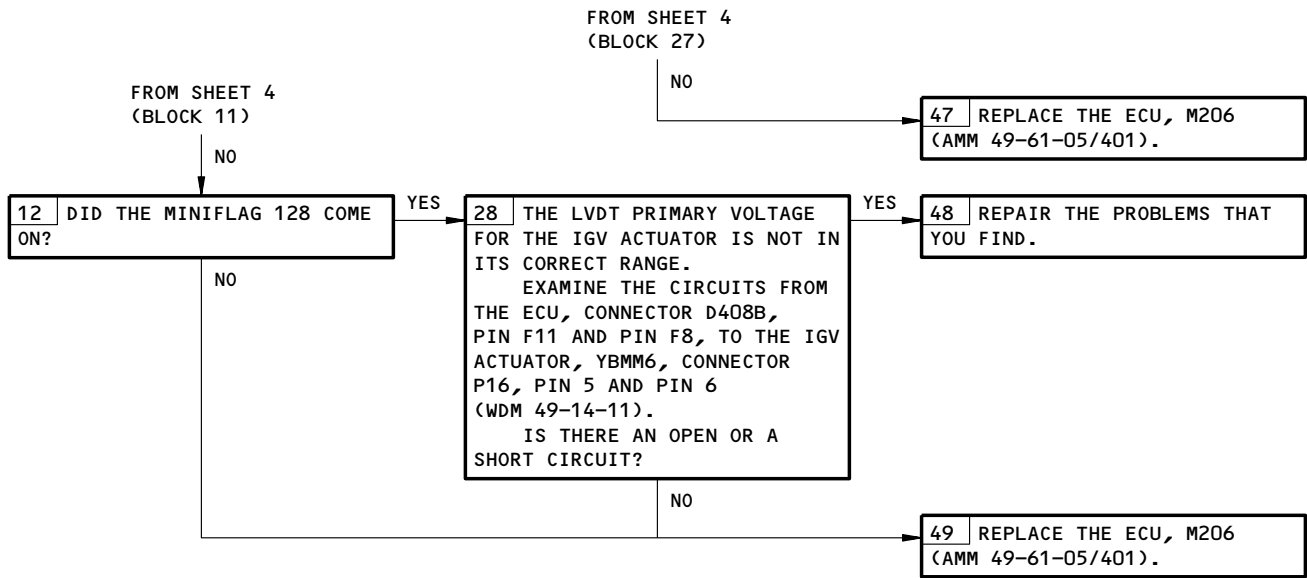
Faulty LRU - ECU on BITE  
Figure 131 (Sheet 4)

EFFECTIVITY

ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



Faulty LRU - ECU on BITE  
Figure 131 (Sheet 5)

EFFECTIVITY	ALL
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49-11-00

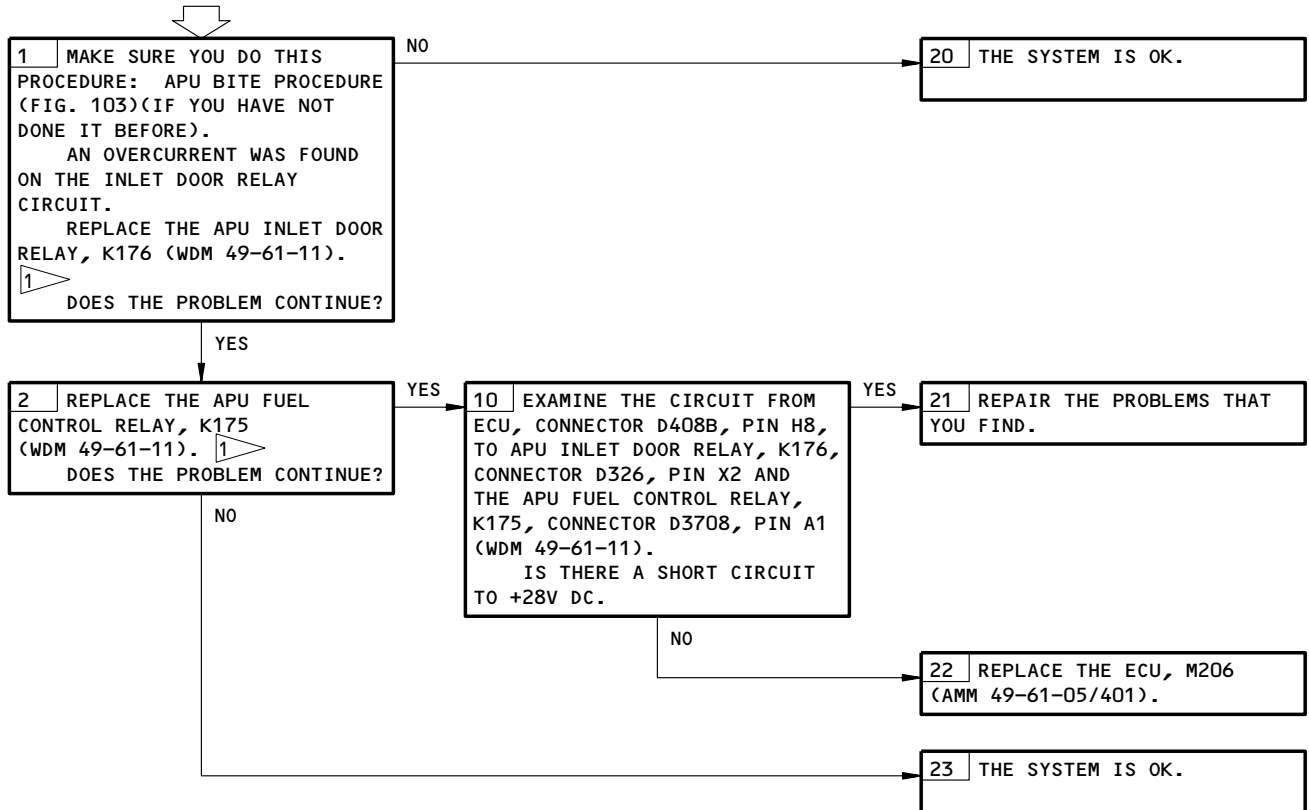
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 2,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**FAULTY LRU - "INLET  
DOOR RLY" ON BITE**



1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

2 AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - INLET DOOR RLY on BITE  
Figure 132

EFFECTIVITY

ALL

**49-11-00**

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Page 180S  
Dec 22/06

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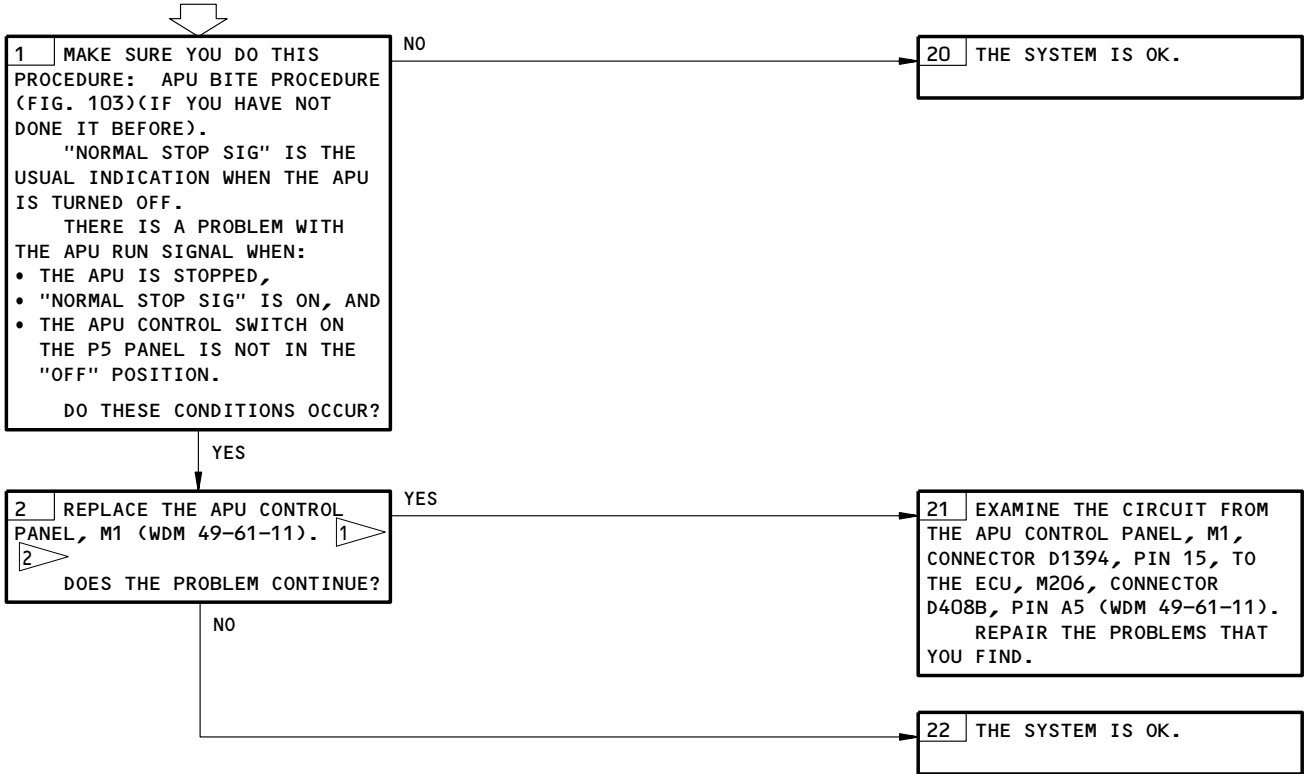
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup> ,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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

**AUTO SHUTDOWN –  
"NORMAL STOP SIG"  
ON BITE**



- <sup>1</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>2</sup> AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown – NORMAL STOP SIG on BITE  
Figure 133

EFFECTIVITY	ALL
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**49-11-00**

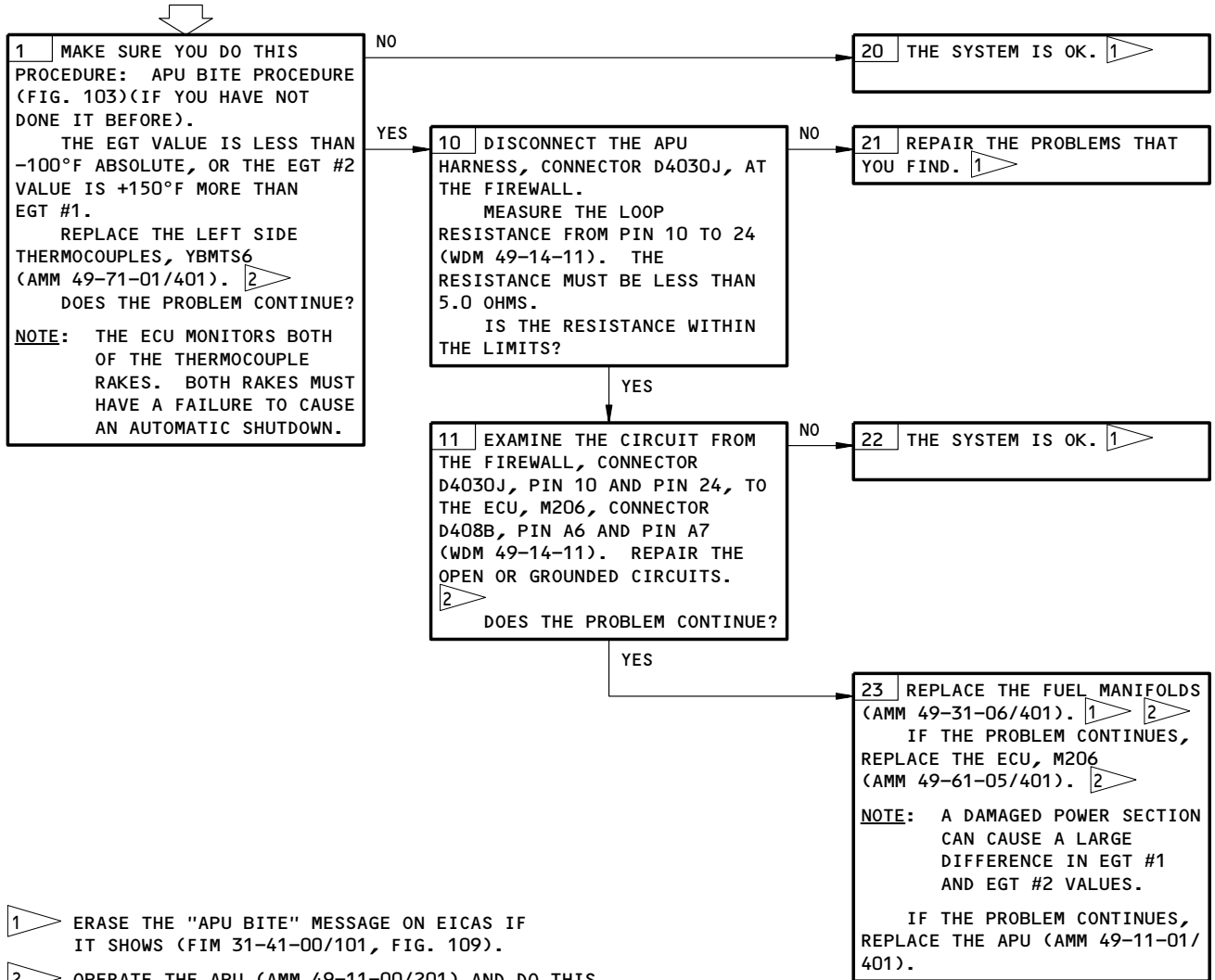
**FAULTY LRU – "EGT #1 CIRCUIT" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



- <sup>1</sup> ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- <sup>2</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU – EGT #1 CIRCUIT on BITE  
Figure 134

EFFECTIVITY ————  
ALL

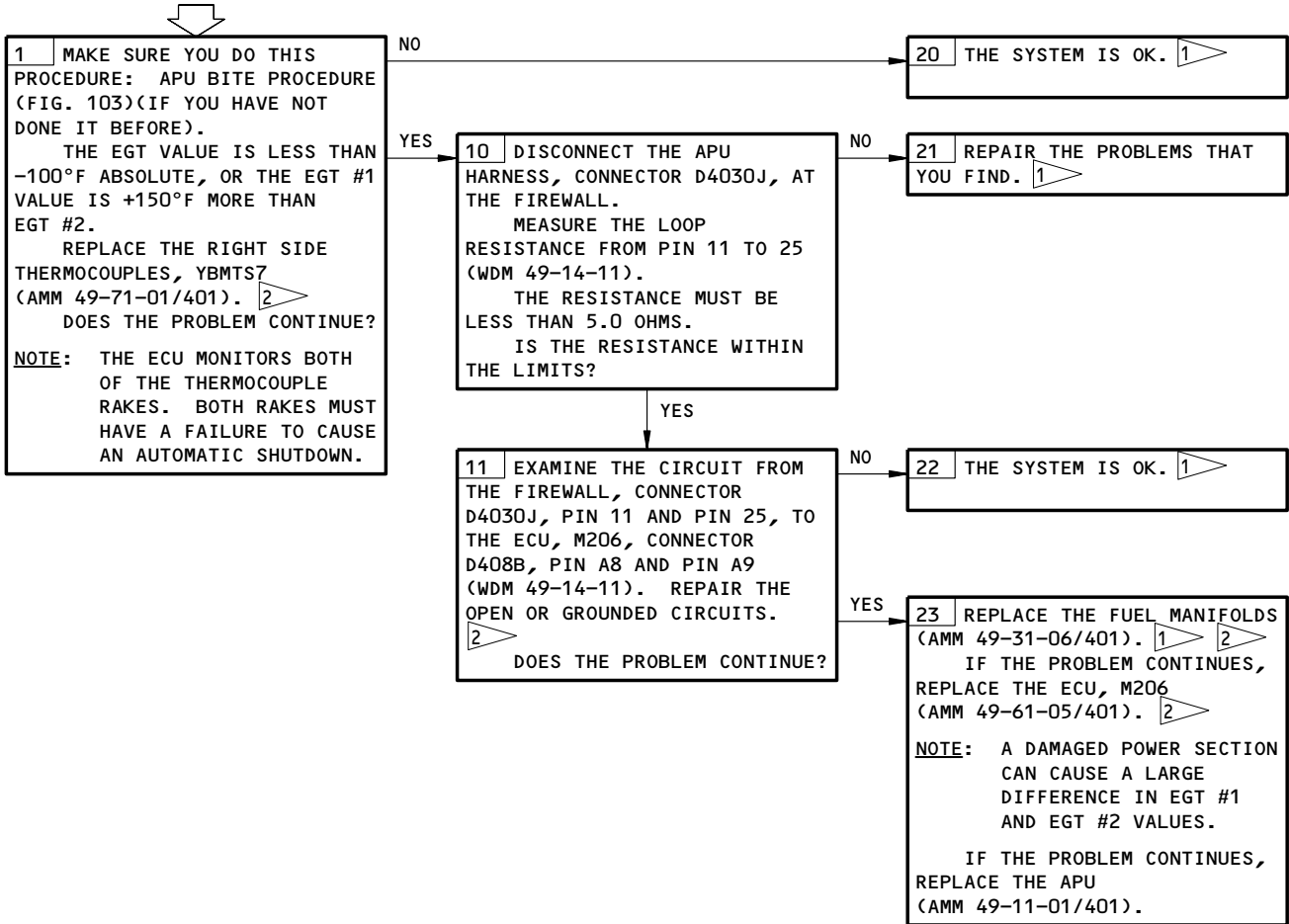
**49-11-00**

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**FAULTY LRU - "EGT #2 CIRCUIT" ON BITE**

**PREREQUISITES**  
 MAKE SURE THIS SYSTEM WILL OPERATE:  
 EICAS (AMM 31-41-00/501)  
 MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
 APU PRIME CONT (P49),  
 APU START (P49),  
 APU INLET DR ACT (P49)  
 MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
 ELECTRICAL POWER IS ON (AMM 24-22-00/201)



- <sup>1</sup> ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- <sup>2</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Faulty LRU - EGT #2 CIRCUIT on BITE  
Figure 135

EFFECTIVITY  
 ALL

**49-11-00**

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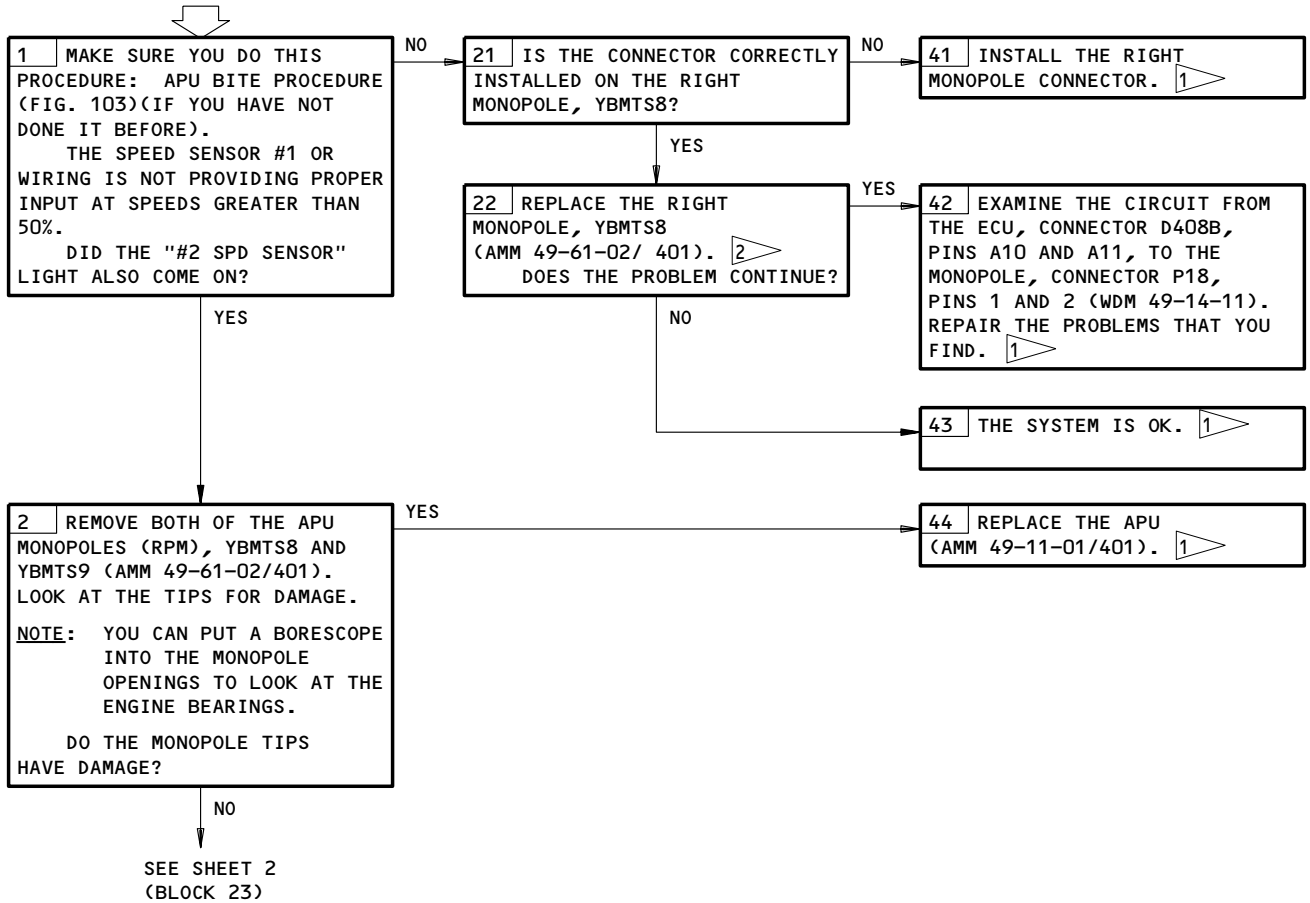
**FAULTY LRU - "#1 SPD SENSOR" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



- <sup>1</sup> ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- <sup>2</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

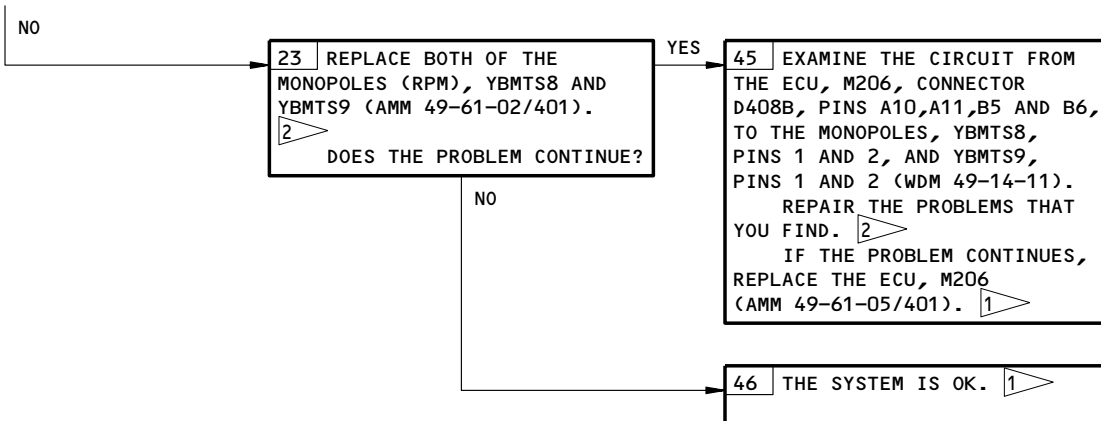
Faulty LRU - #1 SPD SENSOR on BITE  
Figure 136 (Sheet 1)

EFFECTIVITY	ALL
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49-11-00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



Faulty LRU - #1 SPD SENSOR on BITE  
Figure 136 (Sheet 2)

EFFECTIVITY	ALL
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49-11-00

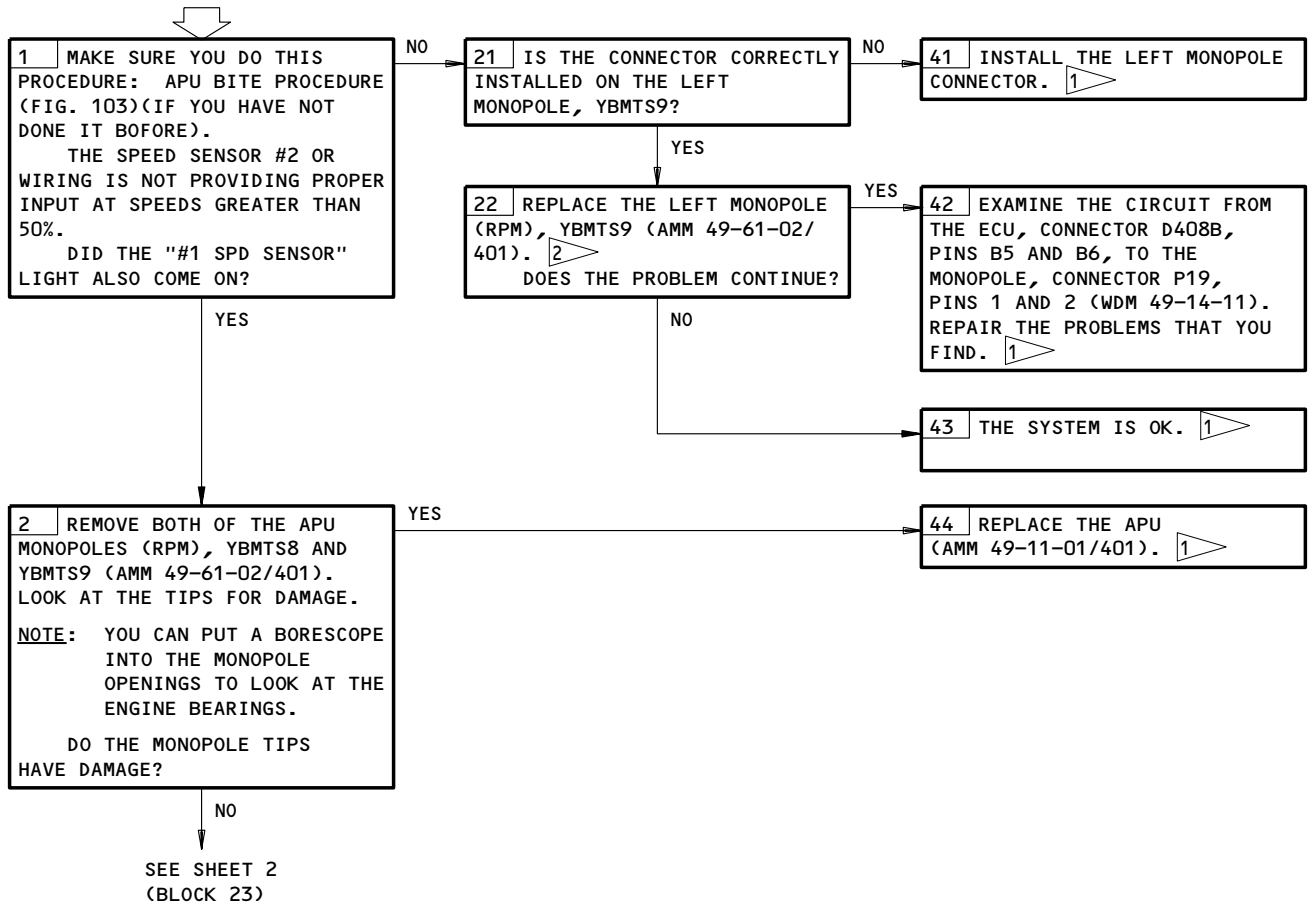
**FAULTY LRU - "#2 SPD SENSOR" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



- <sup>1</sup> ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- <sup>2</sup> OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG, 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.
- <sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

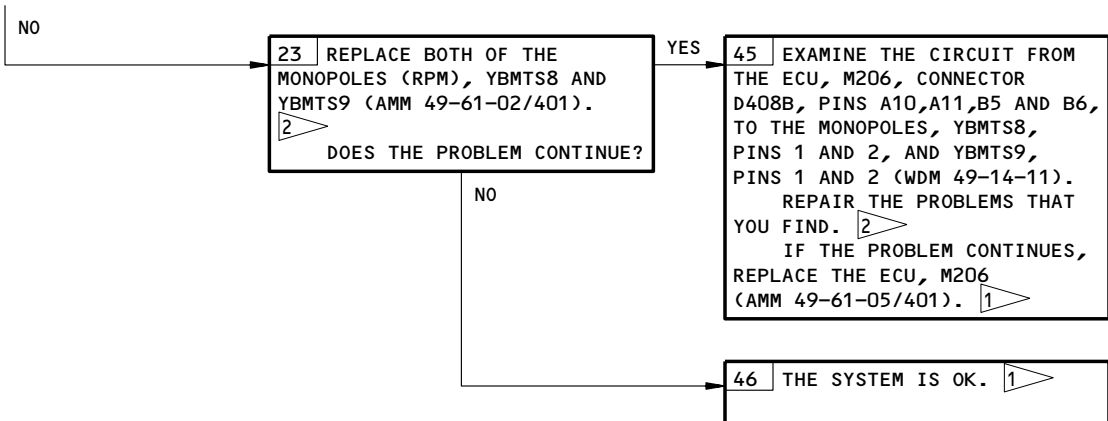
Faulty LRU - #2 SPD SENSOR on BITE  
Figure 137 (Sheet 1)

EFFECTIVITY	ALL
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**49-11-00**

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



Faulty LRU - #2 SPD SENSOR on BITE  
Figure 137 (Sheet 2)

EFFECTIVITY	ALL
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Page 180Z  
Dec 22/06

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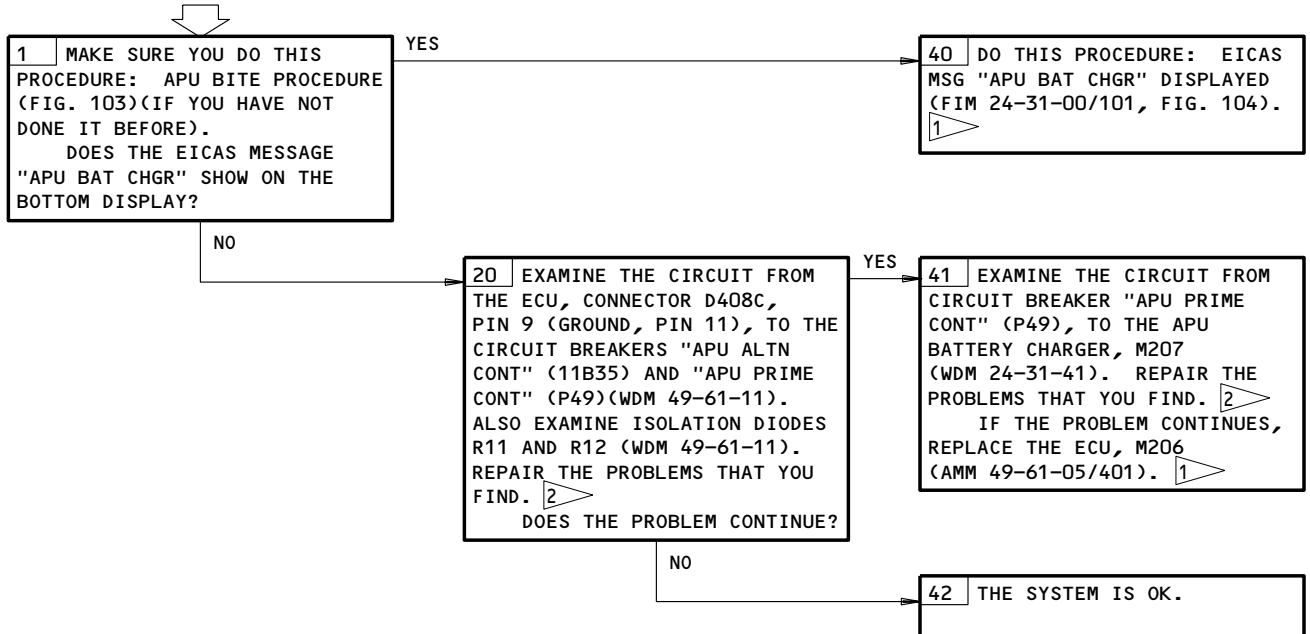
**AUTO SHUTDOWN - "DC PWR LOSS" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6G24, 11B35, 11D34, 11D35, 11M25, 11T35 <sup>3</sup>,  
APU PRIME CONT (P49), APU START (P49),  
APU INLET DR ACT (P49)

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



<sup>1</sup> AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

<sup>2</sup> DO THIS PROCEDURE: SELF-TEST (FIG. 103, BLOCK 3) TO MAKE SURE THE PROBLEM IS REPAIRED.

<sup>3</sup> AIRPLANES WITH THE TRANSFORMER RECTIFIER UNIT

Auto Shutdown - DC PWR LOSS on BITE  
Figure 138

EFFECTIVITY	ALL
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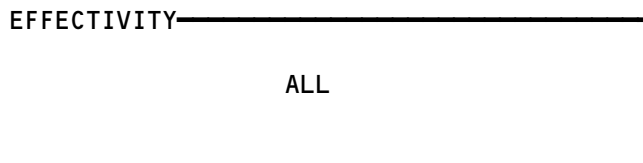
**49-11-00**


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

APU MOUNTS

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
BRACKET - APU MOUNT	--	3	316AR, 315AL, APU COMPT	49-13-03
MOUNTS - APU AFT SUPPORT AND VIBRATION ISOLATOR	--	2	316AR, 315AL, APU COMPT	49-13-02
MOUNT - APU FORWARD SUPPORT AND VIBRATION ISOLATOR	--	1	316AR, 315AL, APU COMPT	49-13-01

APU Mounts - Component Index  
Figure 101

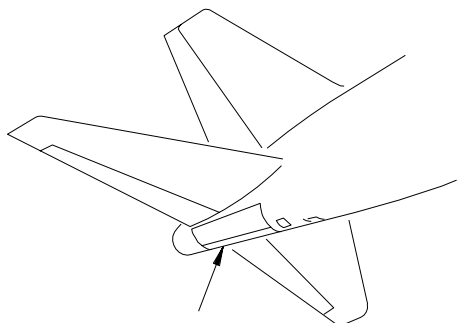


**49-13-00**

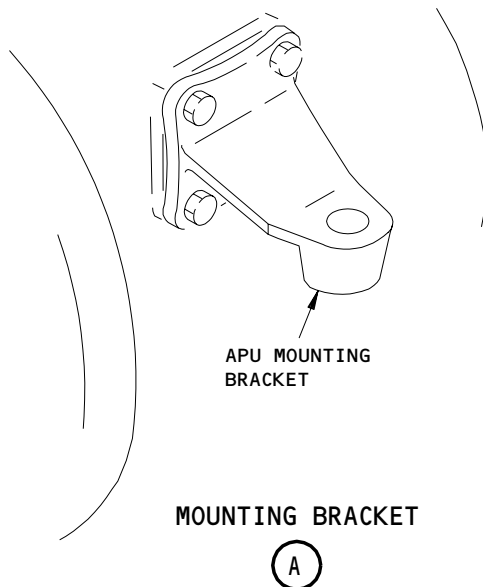
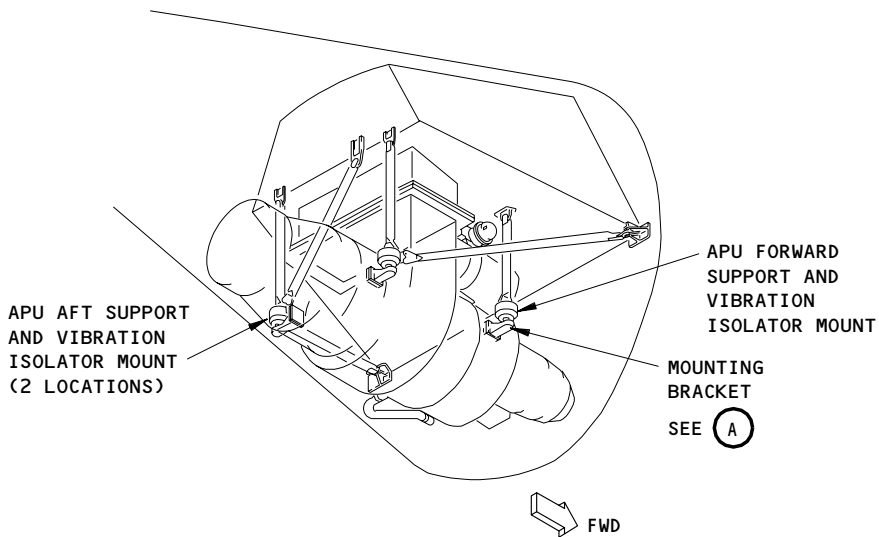
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Page 101  
Aug 10/94

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APU ACCESS DOORS,  
315AL, 316AR



APU Mounts - Component Location  
Figure 102

EFFECTIVITY	ALL
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49-13-00

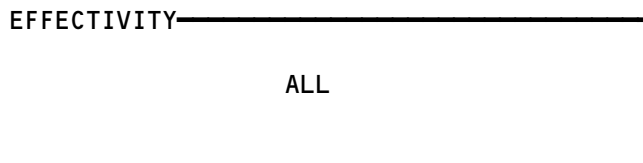



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 FAULT ISOLATION/MAINT MANUAL

APU AIR INTAKE

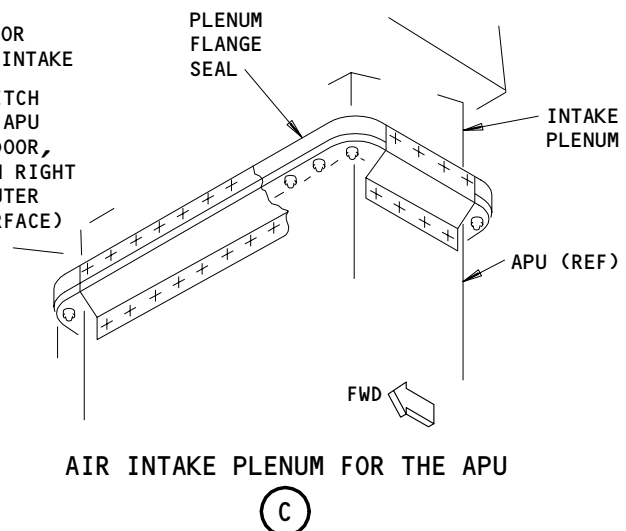
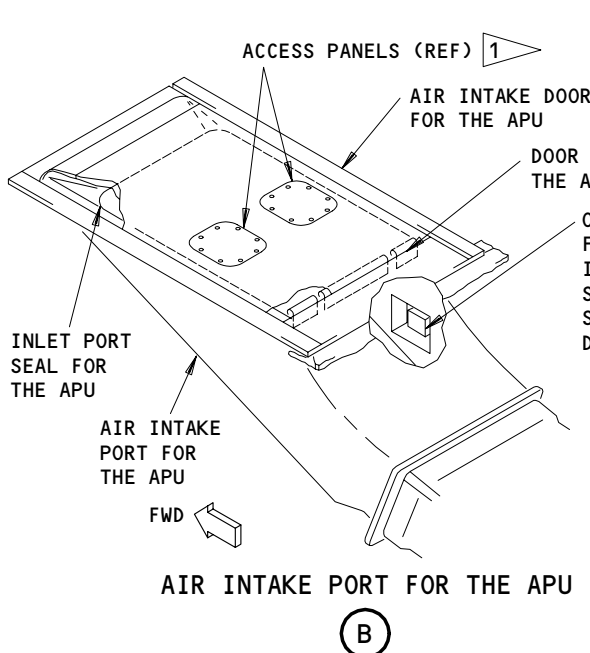
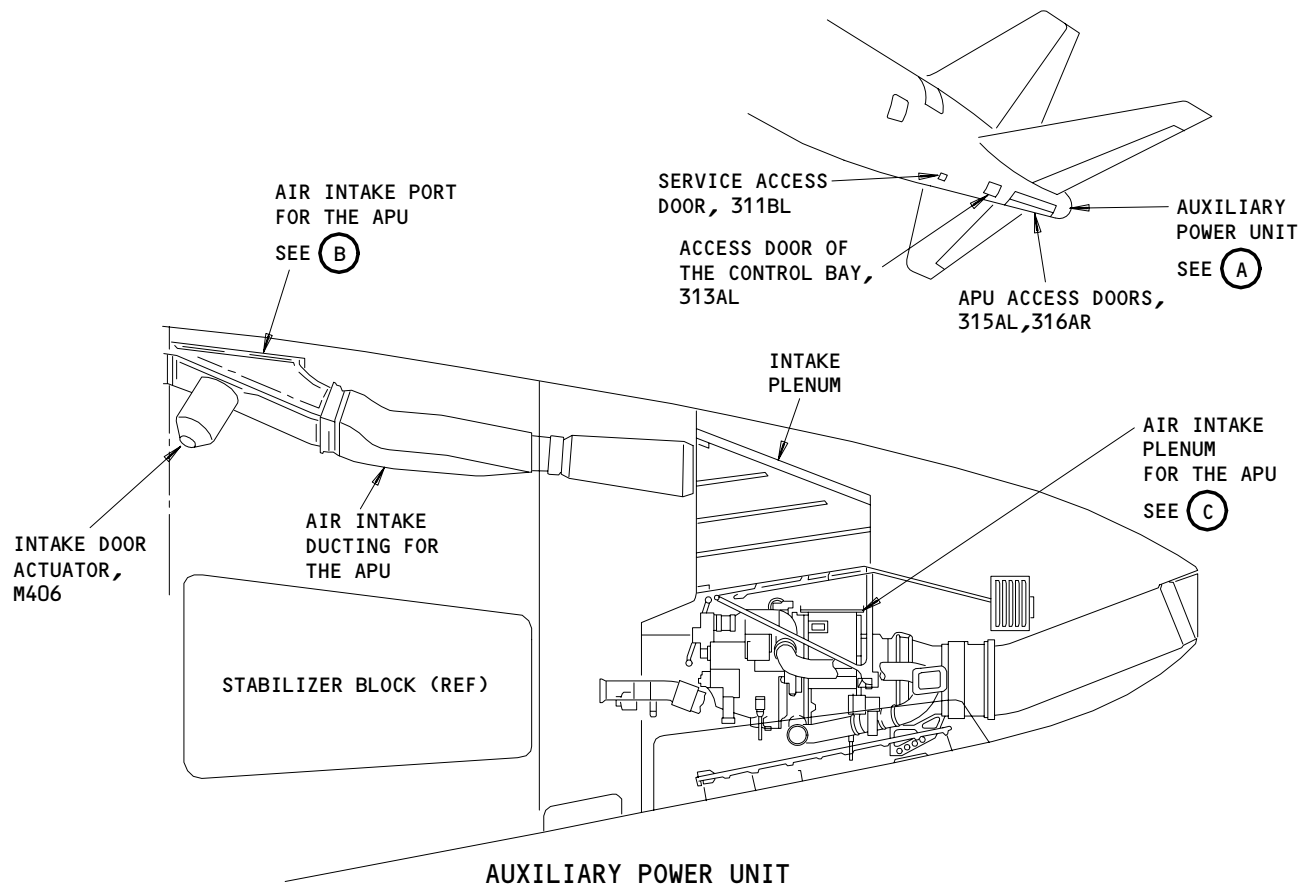
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - DOOR, M406	1	1	311BL, STABILIZER COMPT, AUXILIARY POWER UNIT	49-15-06
DOOR - APU AIR INTAKE	1	1	APU AIR INTAKE PORT	49-15-05
DUCT	1	2	311BL,313AL, STABILIZER COMPT, AUXILIARY POWER UNIT	49-15-01
PORT - APU AIR INTAKE	1	1	311BL, STABILIZER COMPT, AUXILIARY POWER UNIT	49-15-08
RELAYS - (31-01-49/101) APU INLET DOOR, K176 APU INLET DOOR OPEN, K547				
PLENUM - INTAKE	1	1	313AL,315AL,316AR, APU COMPT, APU AIR INTAKE PLENUM	49-15-03
SEAL - APU INLET DOOR	1	3	APU AIR INTAKE PORT	49-15-07
SEAL - APU AIR INTAKE PORT	1	1	APU AIR INTAKE PORT	49-15-09
SEAL - PLENUM FLANGE	1	1	315AL,316AR, APU COMPT, APU AIR INTAKE PLENUM	49-15-04
SWITCH - (49-61-00/101) APU MASTER CONTROL, S1				
SWITCH - APU INTAKE DOOR OPEN, S506	1	1	311BL, STABILIZER COMPT, APU AIR INTAKE PORT	49-15-02

APU Air Intake - Component Index  
Figure 101



**49-15-00**

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FAULT ISOLATION/MAINT MANUAL



1 ACCESS PANELS NOT INSTALLED ON ALL AIRPLANES





APU Air Intake - Component Location  
Figure 102

EFFECTIVITY	ALL
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
49-15-00

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FAULT ISOLATION/MAINT MANUAL

APU DRAINS AND VENTS

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
DRAIN - APU INLET PLENUM	2	1	315AL, 316AR, APU COMPT, BOTTOM OF INLET PLENUM	49-16-00
DRAIN - APU PLENUM	1	1	315AL, 316AR, APU COMPT, LEFT FORWARD CORNER	49-16-03
DRAIN - BEARING SEAL CAVITY	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00
DRAIN - FORWARD BEARING SEAL CAVITY - TELL TALE	2	1	315AL, 316AR, APU COMPT, BOTTOM OF INLET PLENUM	49-16-00
DRAIN - FUEL CONTROL UNIT/LUBE PUMP/IGV ACTUATOR	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00
DRAIN - FUEL CONTROL UNIT/LUBE PUMP - TELL TALE	2	1	315AL, 316AR, APU COMPT, BOTTOM OF INLET PLENUM	49-16-00
DRAIN - FUEL FLOW DIVIDER 	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00
DRAIN - FUEL FLOW DIVIDER/HEAT SHIELD 	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00
DRAIN - IGV ACTUATOR - TELL TALE	2	1	315AL, 316AR, APU COMPT, BOTTOM OF INLET PLENUM	49-16-00
DRAIN - MID-BEARING SEAL CAVITY - TELL TALE	2	2	315AL, 316AR, APU COMPT, BOTTOM OF INLET PLENUM	49-16-00
DRAIN - OIL SCUPPER	1	1	315AL, 316AR, APU COMPT, LOWER LEFT SIDE OF APU	49-27-00
DRAIN - TURBINE PLENUM 	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00
DRAIN - TURBINE PLENUM/HEAT SHIELD 	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00
MAST - APU DRAIN	2	1	315AL, 316AR, APU COMPT, DRAIN MAST	49-16-00

\* SEE THE WDM EQUIPMENT LIST

-  APUs WITH TWO DIFFERENT DRAINS FOR THE TURBINE PLENUM AND THE HEAT SHIELD
-  APUs WITH ONE DRAIN FOR THE TURBINE PLENUM AND THE HEAT SHIELD

APU Drains and Vents - Component Index  
Figure 101

EFFECTIVITY

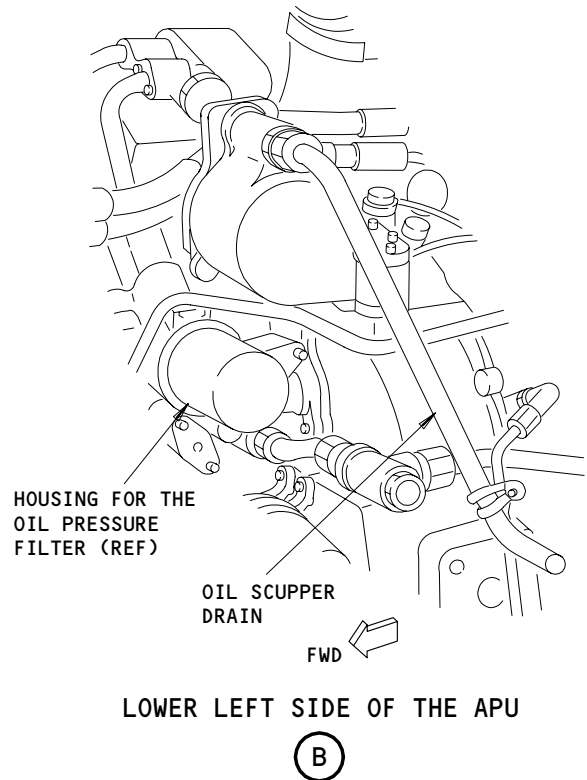
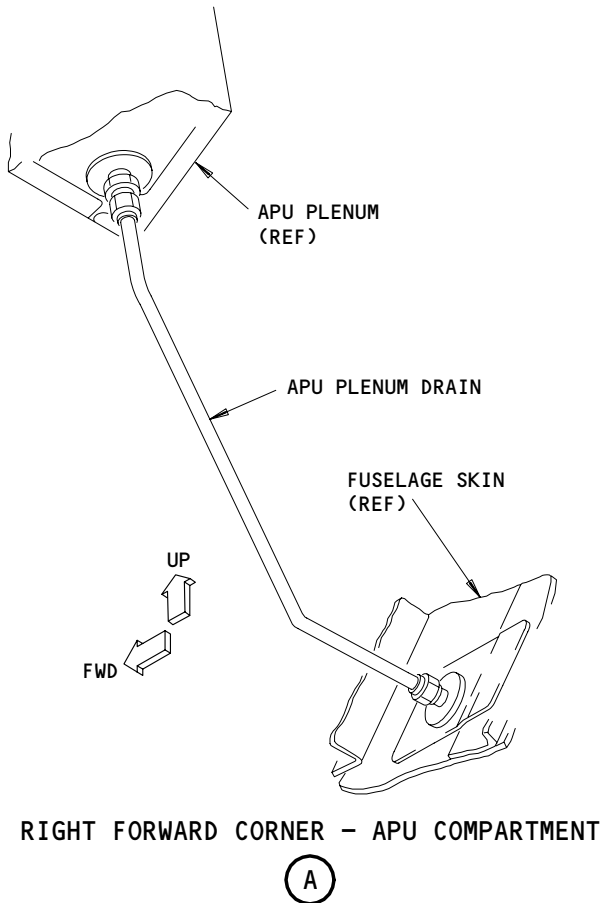
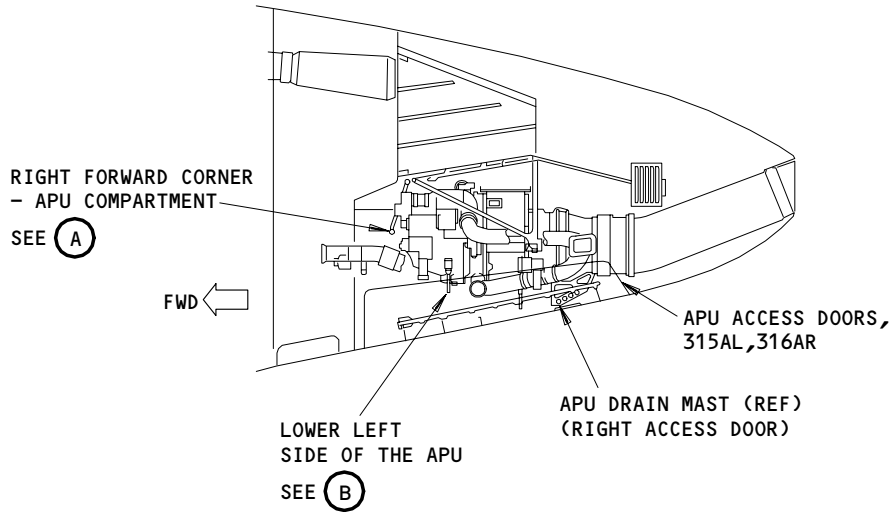
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Page 101  
Dec 22/07

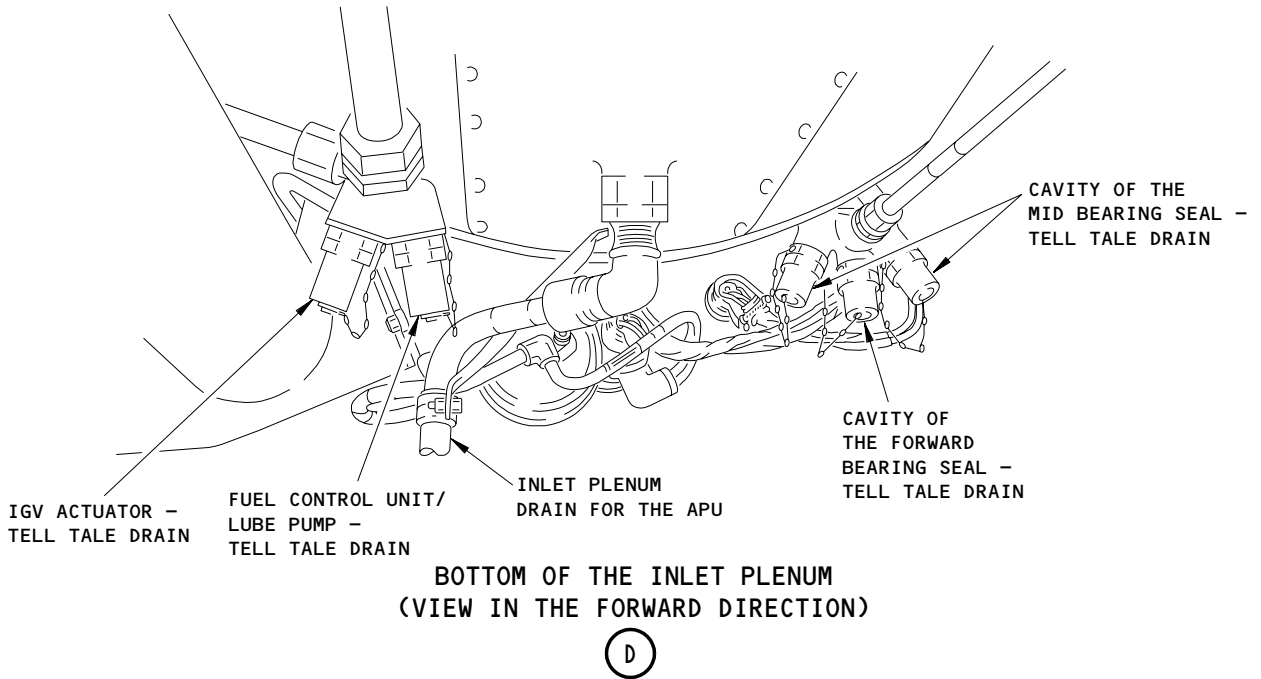
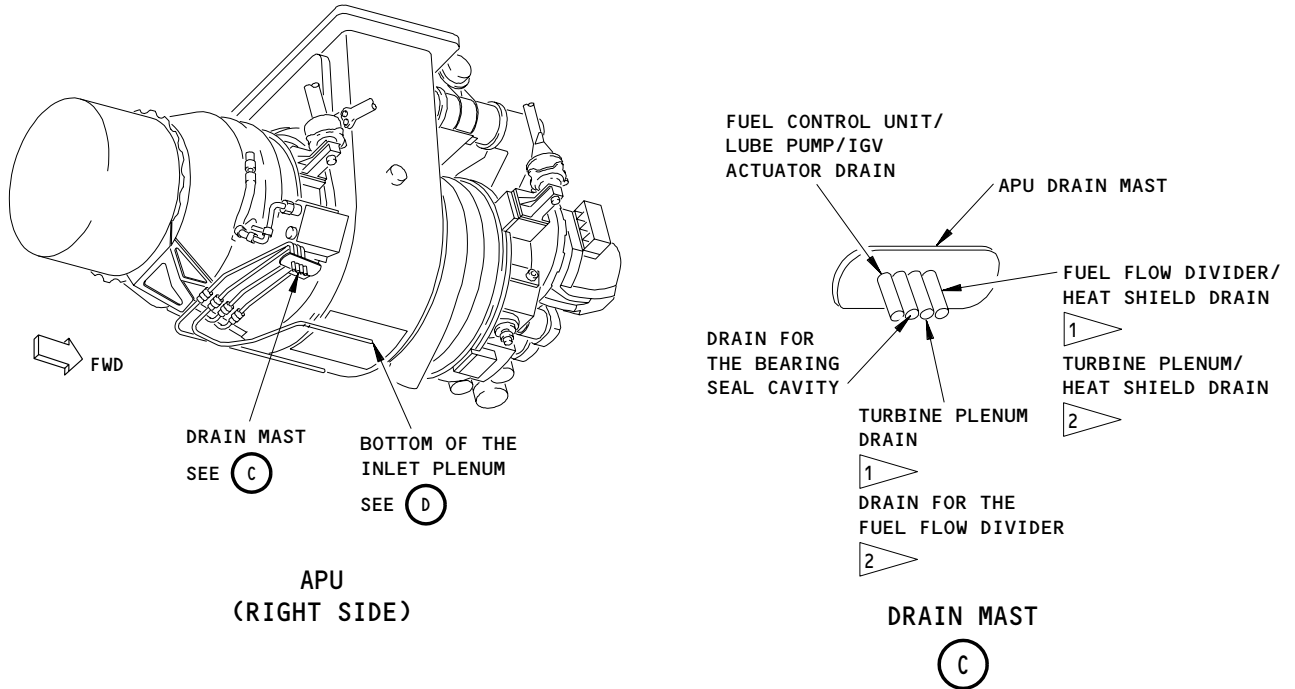
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APU Drains and Vents - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	ALL
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49-16-00



- 1 APUs WITH TWO DIFFERENT DRAINS FOR THE TURBINE PLENUM AND THE HEAT SHIELD
- 2 APUs WITH ONE DRAIN FOR THE TURBINE PLENUM AND THE HEAT SHIELD

APU Drains and Vents - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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49-16-00

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FAULT ISOLATION/MAINT MANUAL

APU AND GENERATOR LUBRICATION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
COOLER - OIL	1	1	315AL, 316AR, APU COMPT, UPPER COMPRESSOR SECTION	49-27-09
DETECTOR - COMPRESSOR BEARING MAGNETIC CHIP	4	1	315AL, 316AR, APU COMPT, LEFT SIDE OF GEARBOX	49-27-04
DETECTOR - GEARBOX MAGNETIC CHIP	4	1	315AL, 316AR, APU COMPT, BOTTOM OF GEARBOX	49-27-04
DETECTOR - GENERATOR SCAVENGE MAGNETIC CHIP	4	1	315AL, 316AR, APU COMPT, BOTTOM OF GEARBOX	49-27-04
DETECTOR - TURBINE BEARING MAGNETIC CHIP	4	1	315AL, 316AR, APU COMPT, RIGHT SIDE OF APU	49-27-04
ELEMENTS - LUBE AND GENERATOR SCAVENGE FILTER	2	2	315AL, 316AR, APU COMPT, GEARBOX ACCESSORIES	49-27-03
INDICATOR - GENERATOR FILTER DIFFERENTIAL PRESSURE	2	1	315AL, 316AR, APU COMPT, FRONT OF APU	49-27-16
INDICATOR - LUBE FILTER DIFFERENTIAL PRESSURE	2	1	315AL, 316AR, APU COMPT, GEARBOX ACCESSORIES	49-27-07
PLUG - DRAIN	4	1	315AL, 316AR, APU COMPT, BOTTOM OF GEARBOX	49-27-04
PUMP - GENERATOR SCAVENGE	2	1	315AL, 316AR, APU COMPT, FRONT OF APU	49-27-02
PUMP - LUBE	2	1	315AL, 316AR, APU COMPT, GEARBOX ACCESSORIES	49-27-01
REGULATOR - OIL PRESSURE	2	1	315AL, 316AR, APU COMPT, GEARBOX ACCESSORIES	49-27-05
SEAL PLATE - APU GENERATOR	3	1	315AL, 316AR, APU COMPT, FRONT OF GEARBOX	49-27-06
SENSOR - (FIM 49-94-00/101) OIL TEMPERATURE, YBMS1				
SWITCH - (FIM 49-94-00/101) LOW OIL PRESSURE, YBMS2				
SWITCH - GENERATOR FILTER DIFFERENTIAL PRESSURE, YBMS1	2	1	315AL, 316AR, APU COMPT, FRONT OF APU	49-27-15
SWITCH - LOW OIL TEMPERATURE, YBMS5	4	1	315AL, 316AR, APU COMPT, BOTTOM OF GEARBOX	49-27-14
TRANSMITTER - (FIM 49-94-00/101) OIL QUANTITY, YBMS3				
VALVE - DEOIL SOLENOID, YBMM3	3	1	315AL, 316AR, APU COMPT, FRONT OF GEARBOX	49-27-08
VALVE - GEARBOX PRESSURE REGULATING	3	1	315AL, 316AR, APU COMPT, FRONT OF GEARBOX	49-27-12
VALVE - GEARBOX SHUTOFF	3	1	315AL, 316AR, APU COMPT, RIGHT SIDE INLET PLENUM	49-27-11
VALVE - OIL COOLER BYPASS	1	1	315AL, 316AR, APU COMPT, UPPER COMPRESSOR SECTION	49-27-10
VALVE - SHUTTLE	3	1	315AL, 316AR, APU COMPT, RIGHT SIDE INLET PLENUM	49-27-13
UNIT - (FIM 49-61-00/101) APU CONTROL, M206				

APU and Generator Lubrication System - Component Index  
Figure 101

EFFECTIVITY

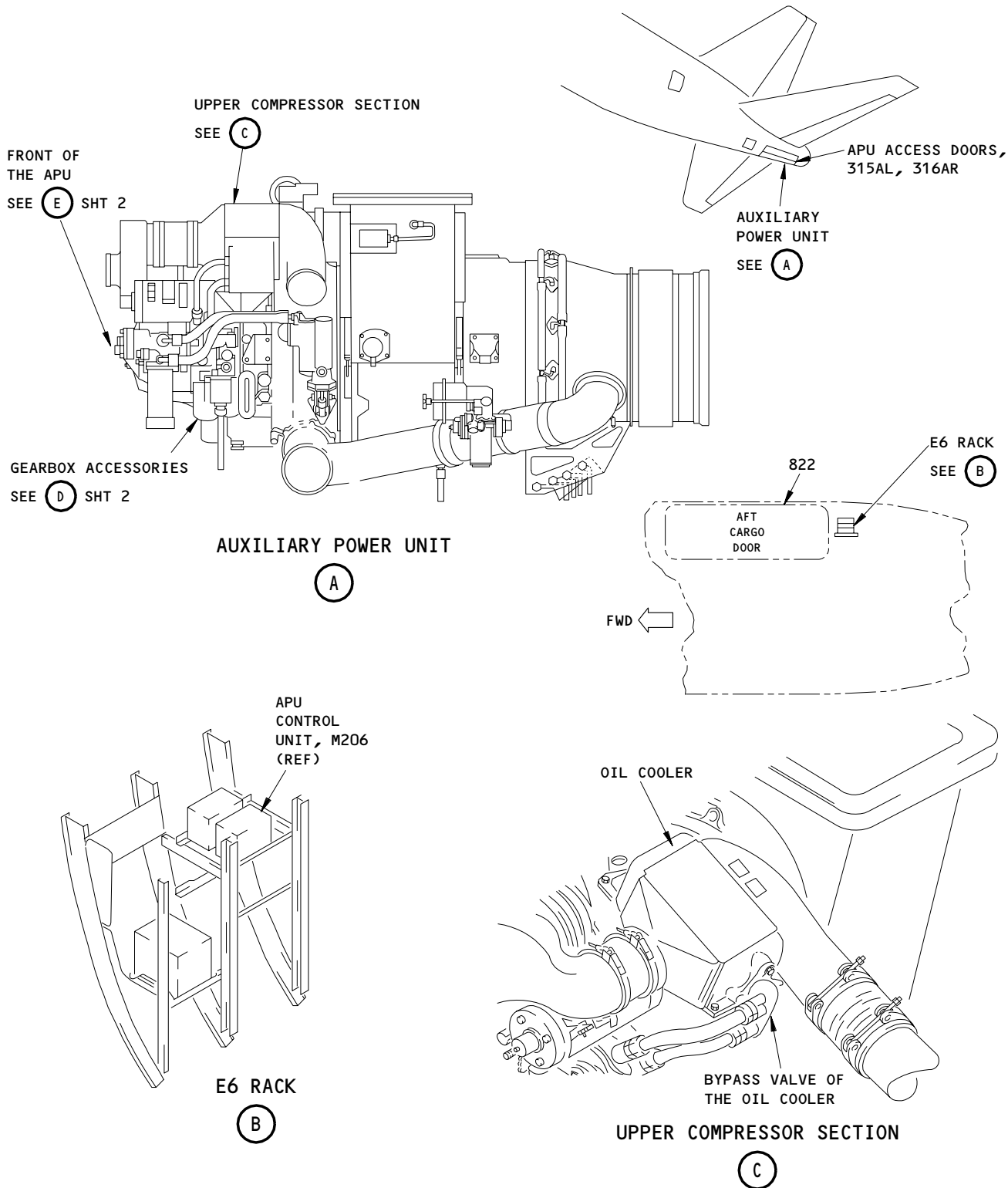
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Page 101  
Apr 22/99

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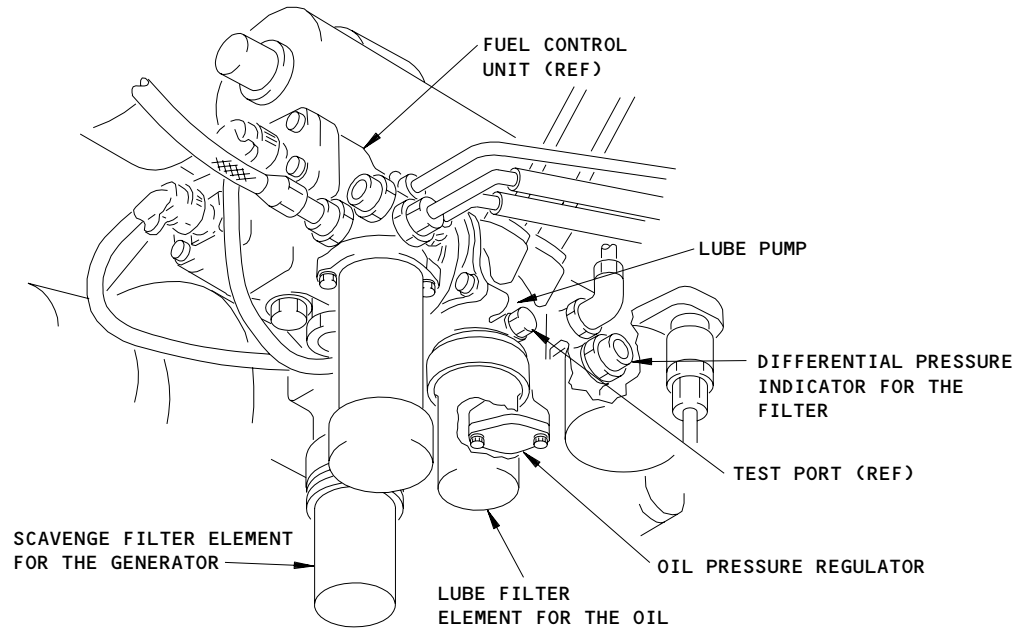


APU and Generator Lubrication System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
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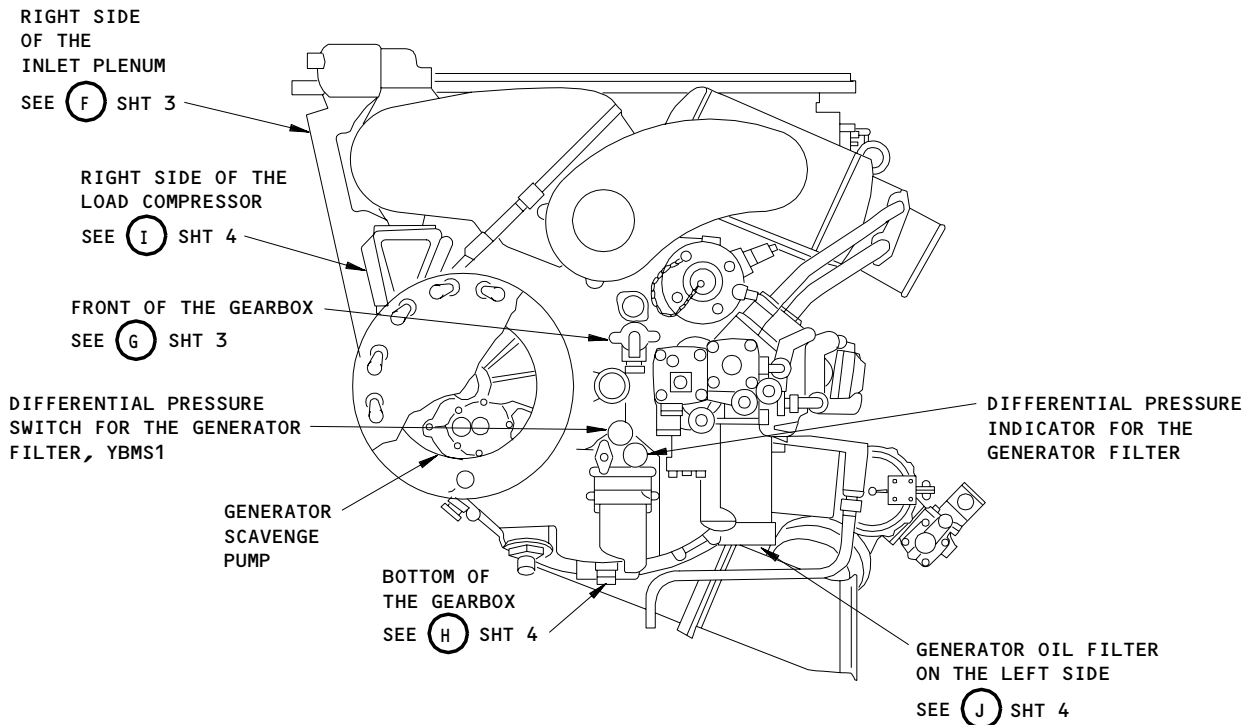
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FAULT ISOLATION/MAINT MANUAL



**GEARBOX ACCESSORIES**

D



**FRONT OF THE APU**

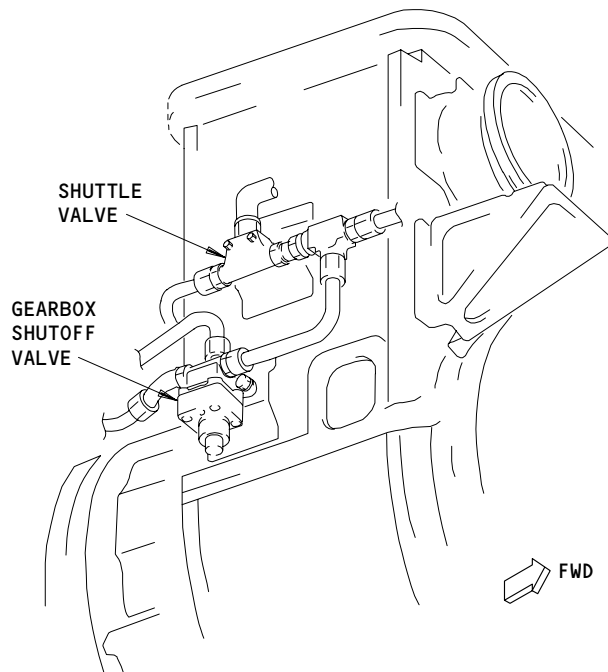
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APU and Generator Lubrication System - Component Location (Details from Sht 1)  
Figure 102 (Sheet 2)

EFFECTIVITY	
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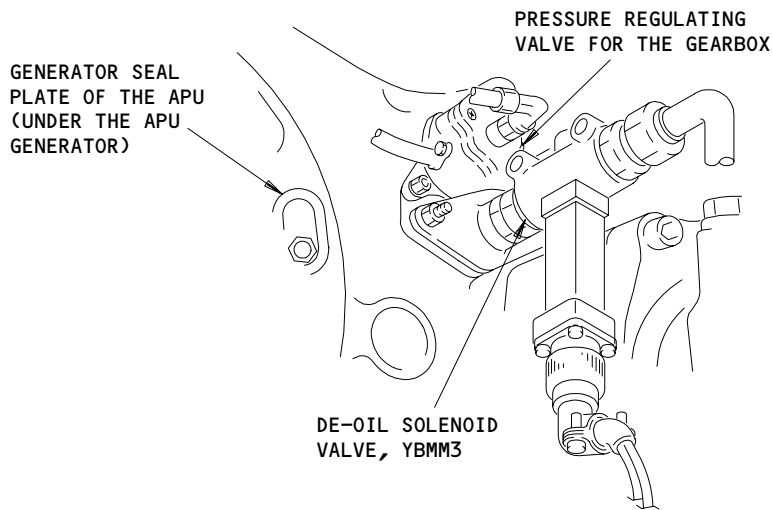
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RIGHT SIDE OF THE INLET PLENUM

(F)



FRONT OF THE GEARBOX

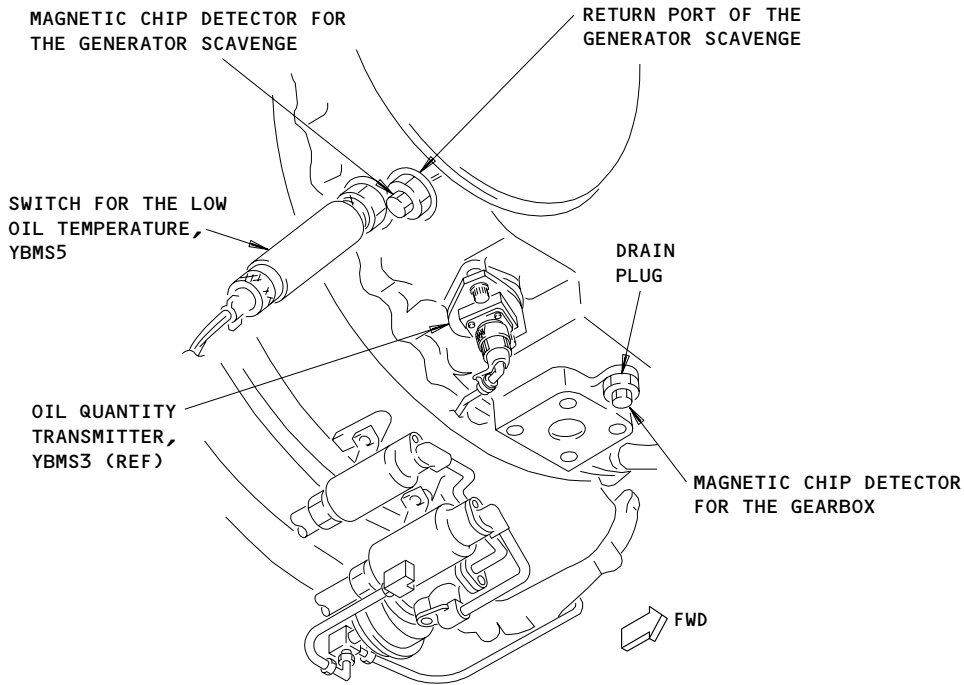
(G)

APU and Generator Lubrication System - Component Location (Details from Sht 2)  
Figure 102 (Sheet 3)

EFFECTIVITY	
	ALL

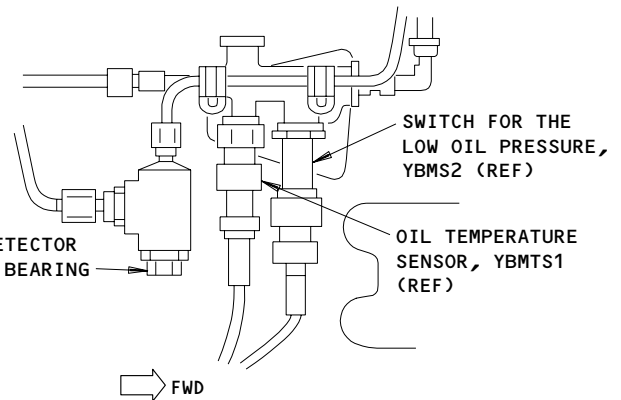
49-27-00

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FAULT ISOLATION/MAINT MANUAL



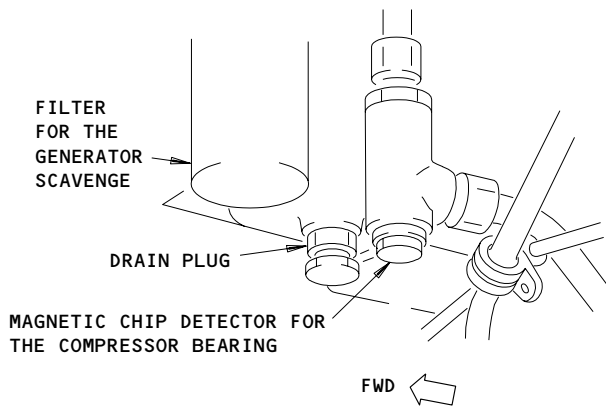
BOTTOM OF THE GEARBOX

(H)



RIGHT SIDE OF THE LOAD COMPRESSOR

(I)



LEFT SIDE OF THE LOAD COMPRESSOR

(J)

APU and Generator Lubrication System - Component Location (Details from Sht 2)  
Figure 102 (Sheet 4)

EFFECTIVITY	
	ALL

49-27-00

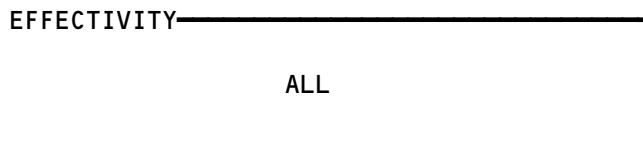
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FAULT ISOLATION/MAINT MANUAL

APU ENGINE FUEL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
COMPUTERS - (31-41-00/101) EICAS L, M10181 EICAS R, M10182 ELEMENT - FUEL FILTER	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-04
ELEMENT - FUEL FLOW DIVIDER FILTER	1	1	316AR,315AL, APU COMP, LEFT SIDE OF COMBUSTOR	49-31-08
FILTER - FUEL HIGH PRESSURE	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-07
HOSES - FUEL MANIFOLD	1	2	316AR,315AL, APU COMP, LEFT SIDE OF COMBUSTOR	49-31-09
MANIFOLDS AND NOZZLES	1	12	316AR,315AL, APU COMP, LEFT SIDE OF COMBUSTOR	49-31-06
MONOPOLE - (49-61-00/101) YBMTS8,YBMTS9 RESISTOR - EGT LOAD, R543, R550 SENSORS - (49-61-00/101) APU INLET PRESSURE, YBMTS4 APU INLET TEMPERATURE, YBMTS5 THERMOCOUPLE ASSEMBLY - (49-71-00/101) YBMTS6,YBMTS7	2	2	119AL, MAIN EQUIP CENTER, E8	*
UNIT - FUEL CONTROL	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-01
VALVE - FUEL CONTROL SOLENOID, YBMV1	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-02
VALVE - FUEL FILTER BYPASS	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-05
VALVE - FUEL FLOW DIVIDER AND SOLENOID, YBMM2	1	1	316AR,315AL, APU COMP, LEFT SIDE OF COMBUSTOR	49-31-03

\* SEE THE WDM EQUIPMENT LIST

APU Engine fuel System - Component Index  
Figure 101



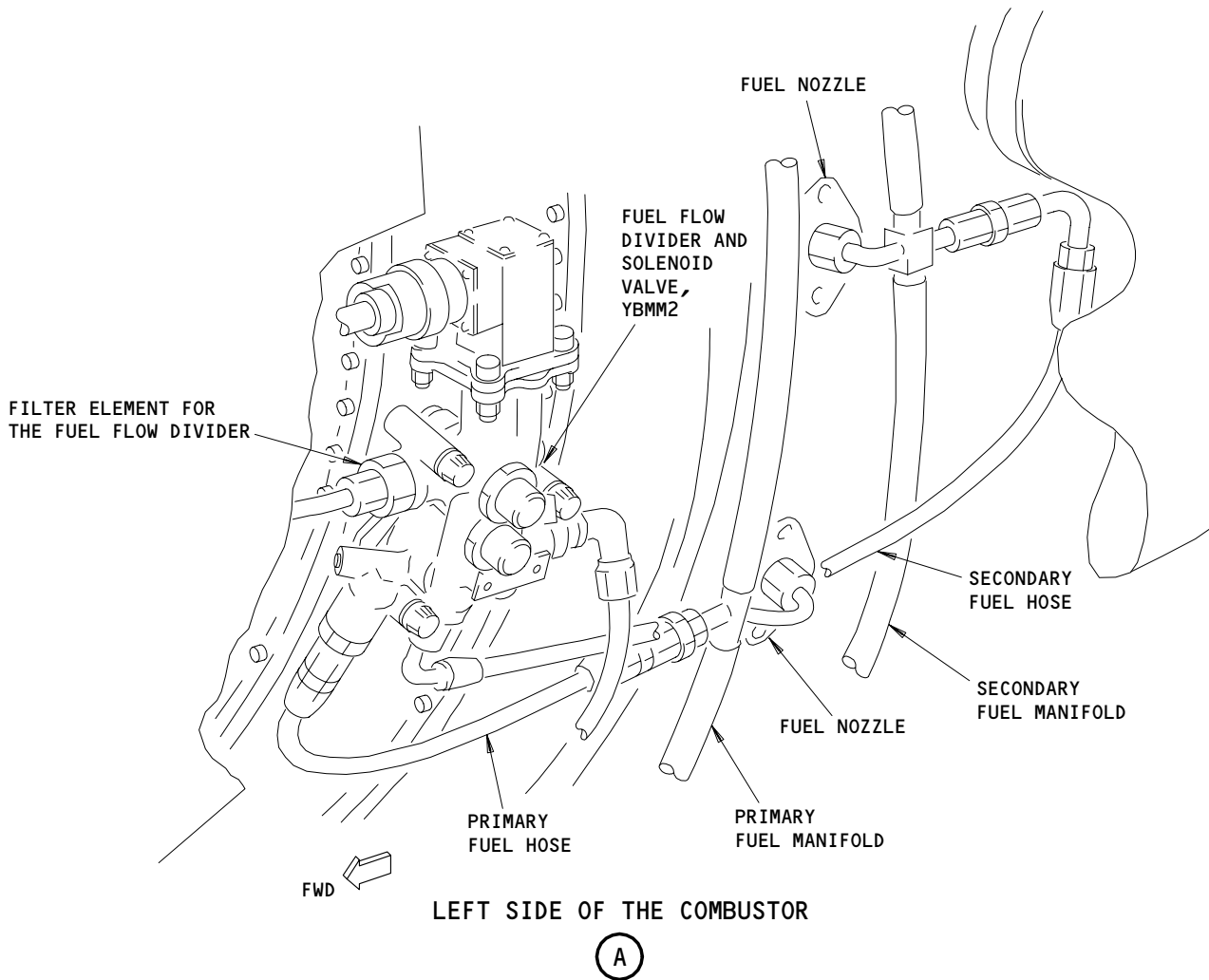
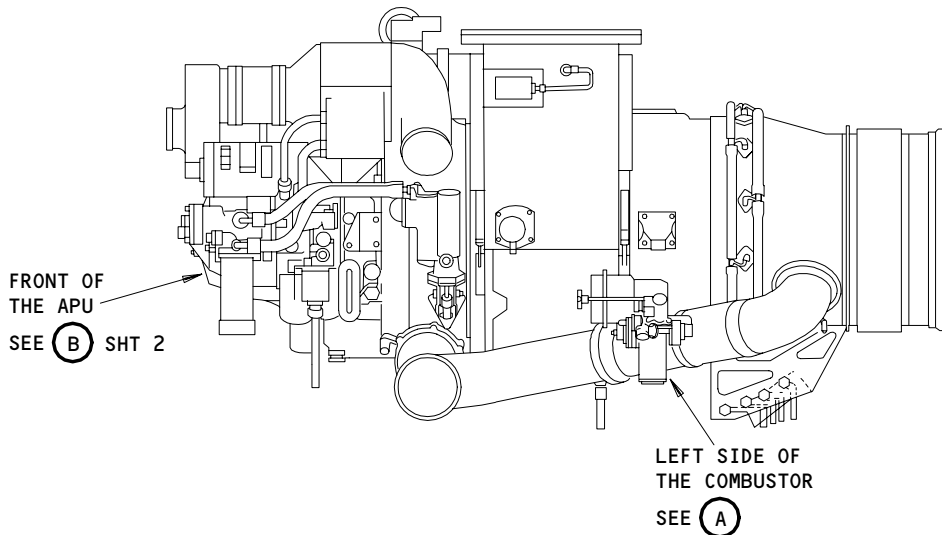
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Page 101  
Feb 10/92

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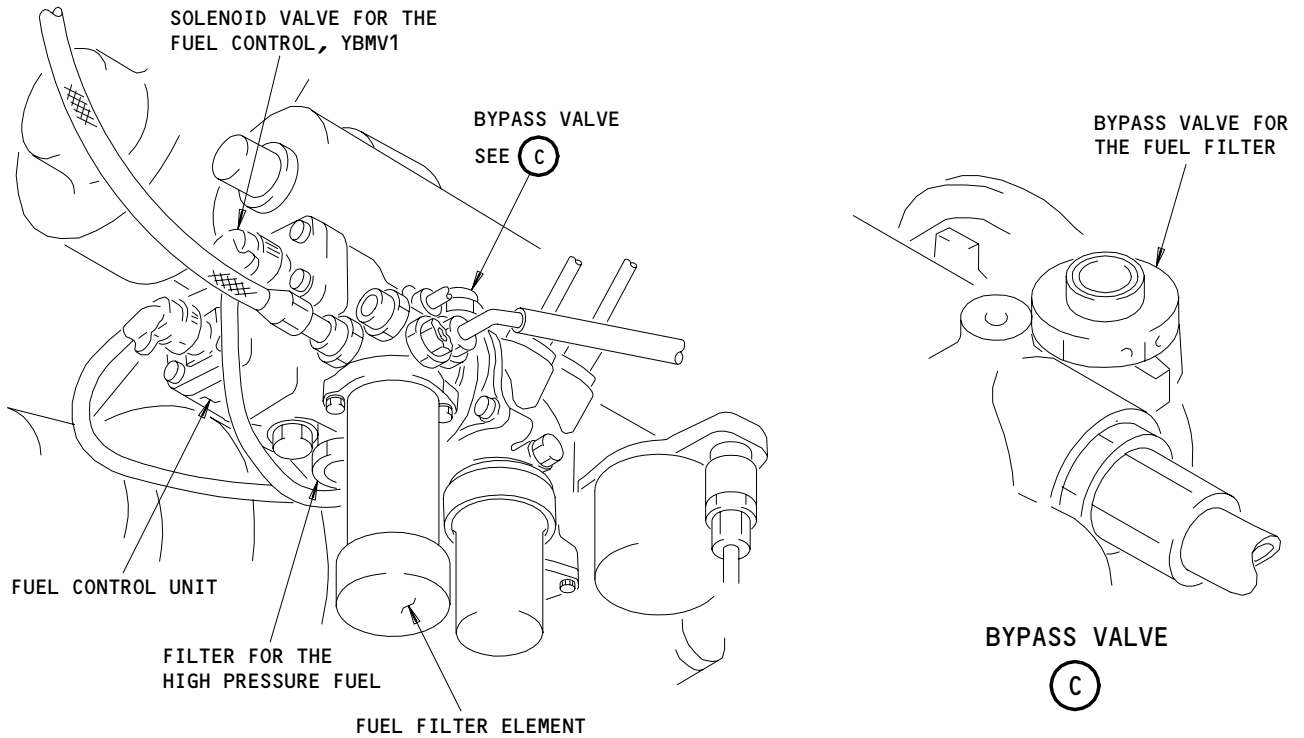
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FAULT ISOLATION/MAINT MANUAL



APU Engine Fuel System - Component Location  
Figure 102 (Sheet 1)

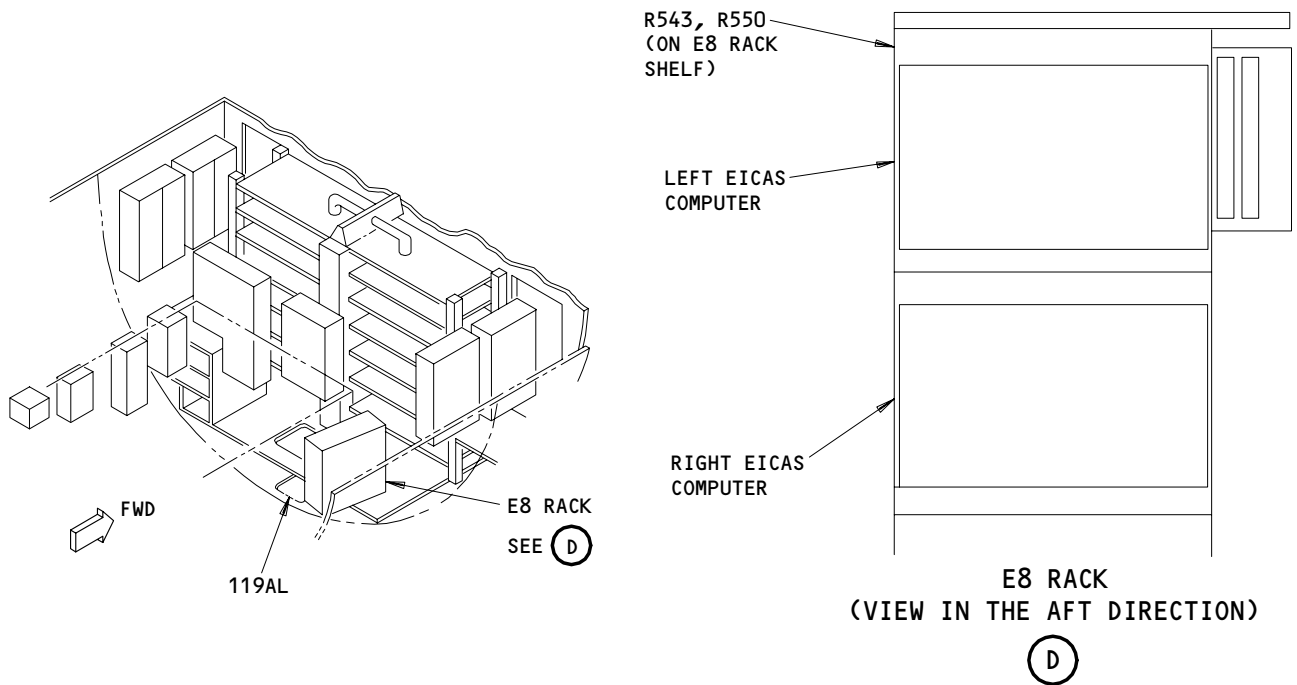
EFFECTIVITY	
	ALL

49-31-00



FRONT OF THE APU

(B) FROM SHT 1



E8 RACK  
(VIEW IN THE AFT DIRECTION)

APU Engine Fuel System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	ALL
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


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Page 103  
Feb 10/92



767  
 FAULT ISOLATION/MAINT MANUAL

APU IGNITION AND STARTING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR - (FIM 49-15-00/101) APU INLET DOOR, M406				
BATTERY - (FIM 24-31-00/101) APU, M208				
CARD 3 - (FIM 26-15-00/101) FIRE/OVHT LOGIC TEST, M10400				
CIRCUIT BREAKER - APU ALTN CONT, C1391	1	1	FLT COMPT, P6, P11	*
APU START TRU CONT, C865 		1	11B35	
FIRE EXT APU 1, C780		1	6H12	*
CIRCUIT BREAKER - APU START TRU POWER 		1	6G1	
CIRCUIT BREAKER - APU INLET DOOR ACTUATOR, C1385	1	1	MAIN EQUIP CTR, P32	*
APU PRIME CONT, C1382		1	822, AFT EQUIP CTR, P49	*
APU START, C20		1		*
APU START TRU FAN 				*
CLUTCH - STARTER	2	1	316AR, 315AL, APU COMP, FRONT OF APU	49-41-06
CONTACTOR - APU CRANK, K117	2	1	882, AFT CARGO DOOR, E6 RACK, P49, C3	49-41-05
DIODE - (FIM 31-01-34/101) R110				
R111				
DIODE - (FIM 31-01-37/101) R65				
DIODE - (FIM 31-01-49/101) R11				
R12				
LEAD - IGNITION	1	1	316AR, 315AL, APU COMP, RIGHT SIDE OF COMBUSTOR	49-41-04
MOTOR - STARTER, M893	2	1	316AR, 315AL, APU COMP, FRONT OF APU	49-41-01

\* SEE THE WDM EQUIPMENT LIST

 AIRPLANES WITH TRANSFORMER RECTIFIER UNIT

APU Ignition and Starting System - Component Index  
 Figure 101 (Sheet 1)

EFFECTIVITY

ALL







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Page 101  
 Aug 22/99

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767  
FAULT ISOLATION/MAINT MANUAL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
PANEL - (FIM 24-33-00/101) STBY PWR CONT, M10062 PANEL - (FIM 26-11-00/101) FIRE/OVHT TEST, M10445 PANEL - (FIM 26-15-00/101) APU SHUTDOWN, P40 PANEL - (FIM 49-61-00/101) APU CONTROL, M1 PLUG - IGNITER, M1  RELAYS - (FIM 31-01-37/101) APU FAULT, K442 APU FUEL CONT, K175 EXT SHUTDOWN, K421 SYSTEM NO. 2 AIR/GND, K203 RELAYS - (FIM 31-01-49/101) APU START, K197 APU START CONTROL  APU START ENABLE  APU START TRU FAN CONT  APU START TRU OVERHEAT  APU TRU START  SWITCH - (FIM 26-22-00/101) APU FIRE, S39 SWITCH - (FIM 49-15-00/101) INLET DOOR OPEN, S506 UNIT - (FIM 24-32-00/101) APU START TRANSFORMER RECTIFIER, T189  UNIT - IGNITION, M1	1	1	316AR, 315AL, APU COMP, RIGHT SIDE OF COMBUSTOR	49-41-02
	1	1	316AR, 315AL, APU COMP, RIGHT SIDE OF COMBUSTOR	49-41-03

APU Ignition and Starting System - Component Index  
Figure 101 (Sheet 2)

EFFECTIVITY

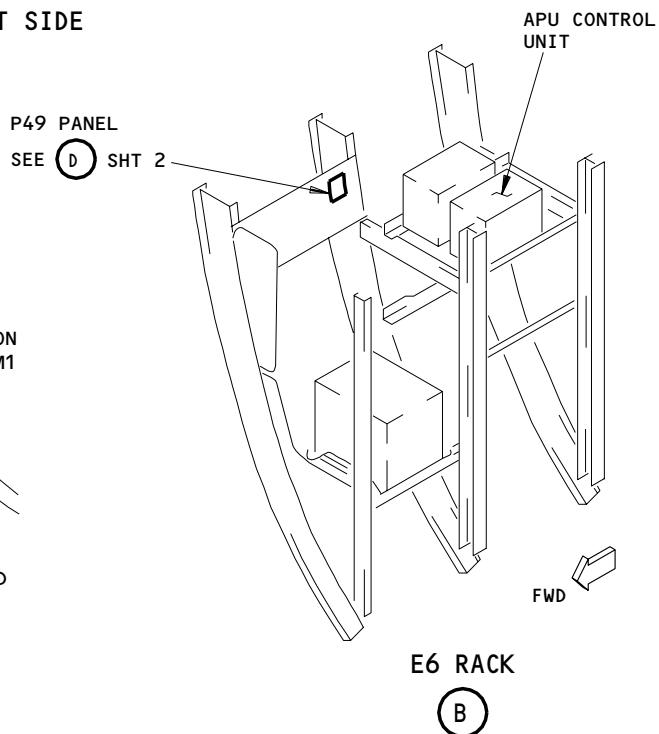
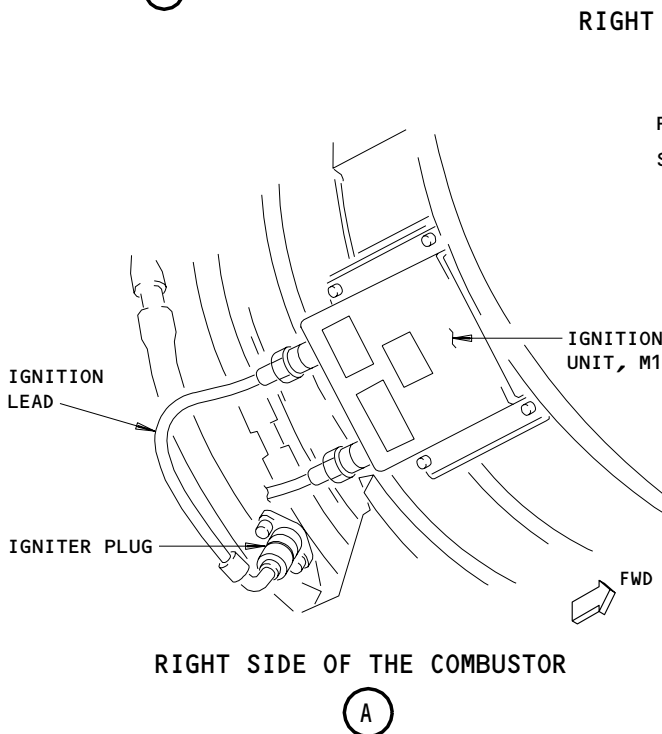
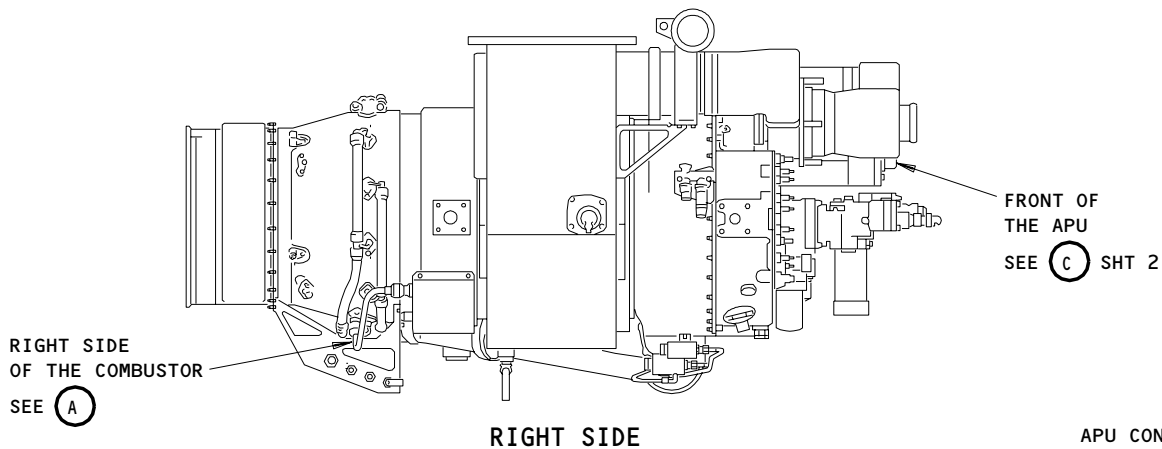
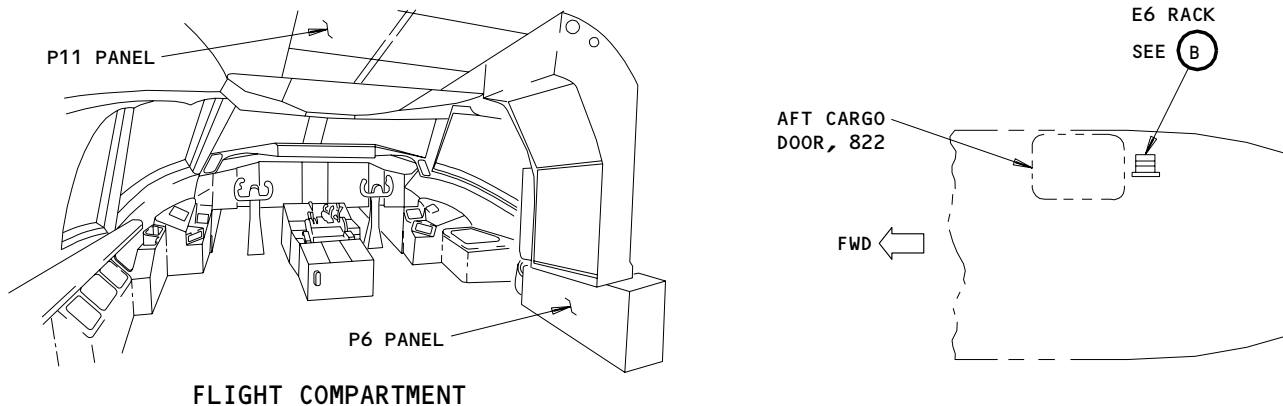
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**49-41-00**

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Page 102  
Apr 22/99

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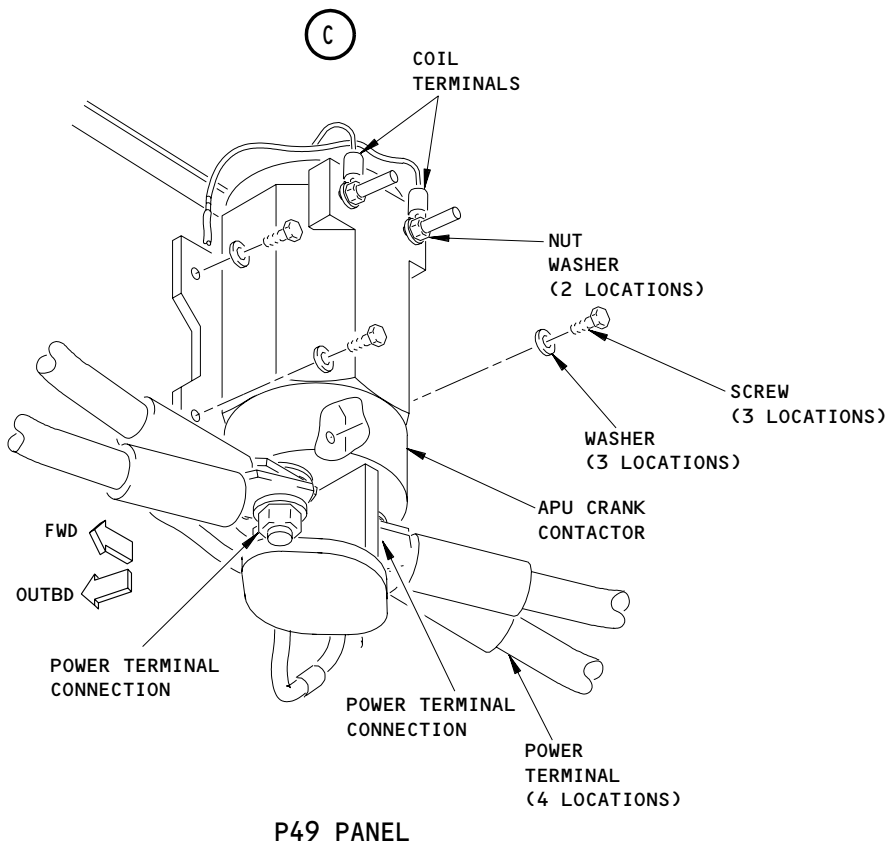
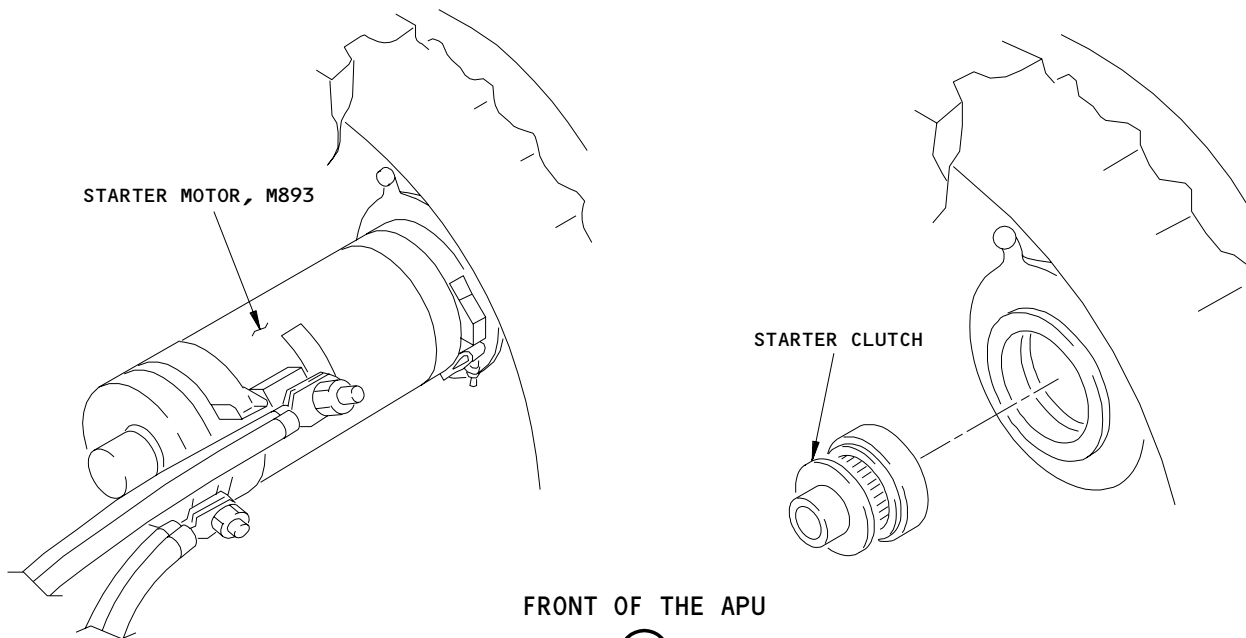
APU Ignition and Starting System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

49-41-00



**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL





APU Ignition and Starting System - Component Location (Details from Sht 1)  
Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

**49-41-00**

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767  
FAULT ISOLATION/MAINT MANUAL

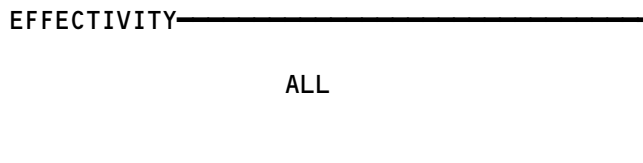
APU COOLING AIR SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
DUCT - OIL COOLING	--	1	316AR,315AL	49-51-01
FAN - COOLING	--	1	316AR,315AL	49-51-03
VALVE - FAN ISOLATION 	--	1	316AR,315AL	49-51-02
SWITCH - FAN VALVE POSITION, YBMS4 	--	1	316AR,315AL	*

\* SEE THE WDM EQUIPMENT LIST

 APUs PRE-HONEYWELL SB 49-7391

APU Cooling Air System - Component Index  
Figure 101



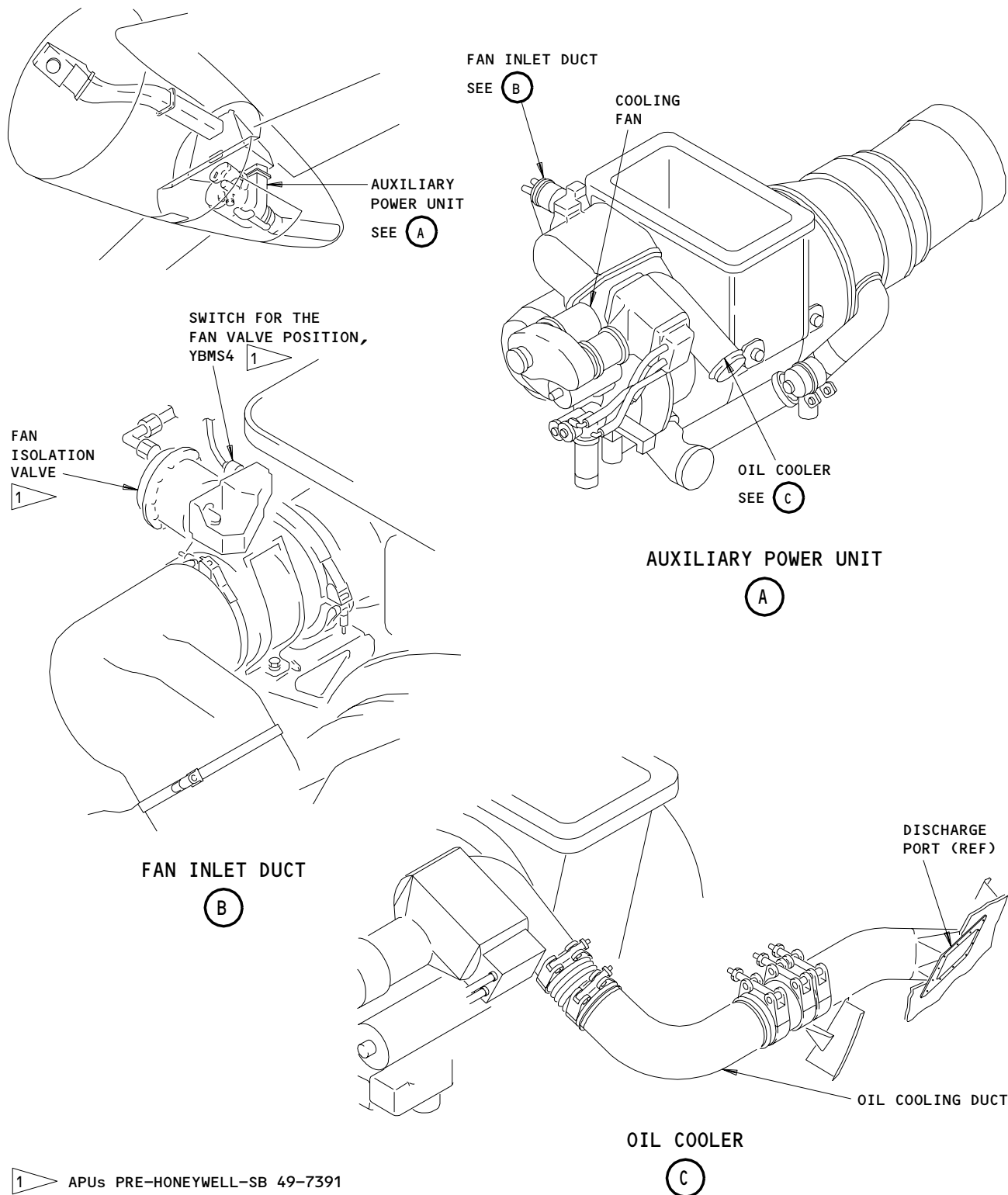
**49-51-00**

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Page 101  
Dec 22/00

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**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL



APU Cooling Air System - Component Location  
Figure 102

EFFECTIVITY	
	ALL

49-51-00

01

Page 102  
Dec 22/00

**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

APU BLEED AIR SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - INLET GUIDE VANE, YBMM6	--	1	316AR,315AL, APU COMP, LEFT SIDE COMPRESSOR	49-52-02
BEARING - INLET GUIDE VANE LINKAGE ROD END	--	1	316AR,315AL, APU COMP, LEFT SIDE COMPRESSOR	49-52-01
BELLCRANK - INLET GUIDE VANE LINKAGE	--	1	316AR,315AL, APU COMP, LEFT SIDE COMPRESSOR	49-52-03
CARD ASSYS - (73-21-00/101) L ENG EEC DISCRETES, M590 R ENG EEC DISCRETES, M591				
CIRCUIT BREAKER - AIR SUPPLY APU BLEED CONT, C1333	--	1	11S24	*
RELAYS - (31-01-06/101) L ENG START 2, K10247 R ENG START 2, K10250				
RELAY - (31-01-37/101) SYSTEM NO. 2 AIR/GRD, K214				
RELAY - (31-01-49/101) APU AIR SUPPLY VALVE OPEN IND, K25				
SWITCH - (49-51-00/102) FAN VALVE POSITION, YBMS4				
TRANSDUCERS - (49-53-00/101) DIFFERENTIAL PRESSURE, YBMTS3 TOTAL PRESSURE, YBMTS2				
UNIT - (21-61-00/101) ZONE TEMPERATURE CONT, M195				
VALVE - SURGE, YBMM5 (49-53-00/101)				

\* SEE THE WDM EQUIPMENT LIST

APU Bleed Air System - Component Index  
Figure 101

EFFECTIVITY

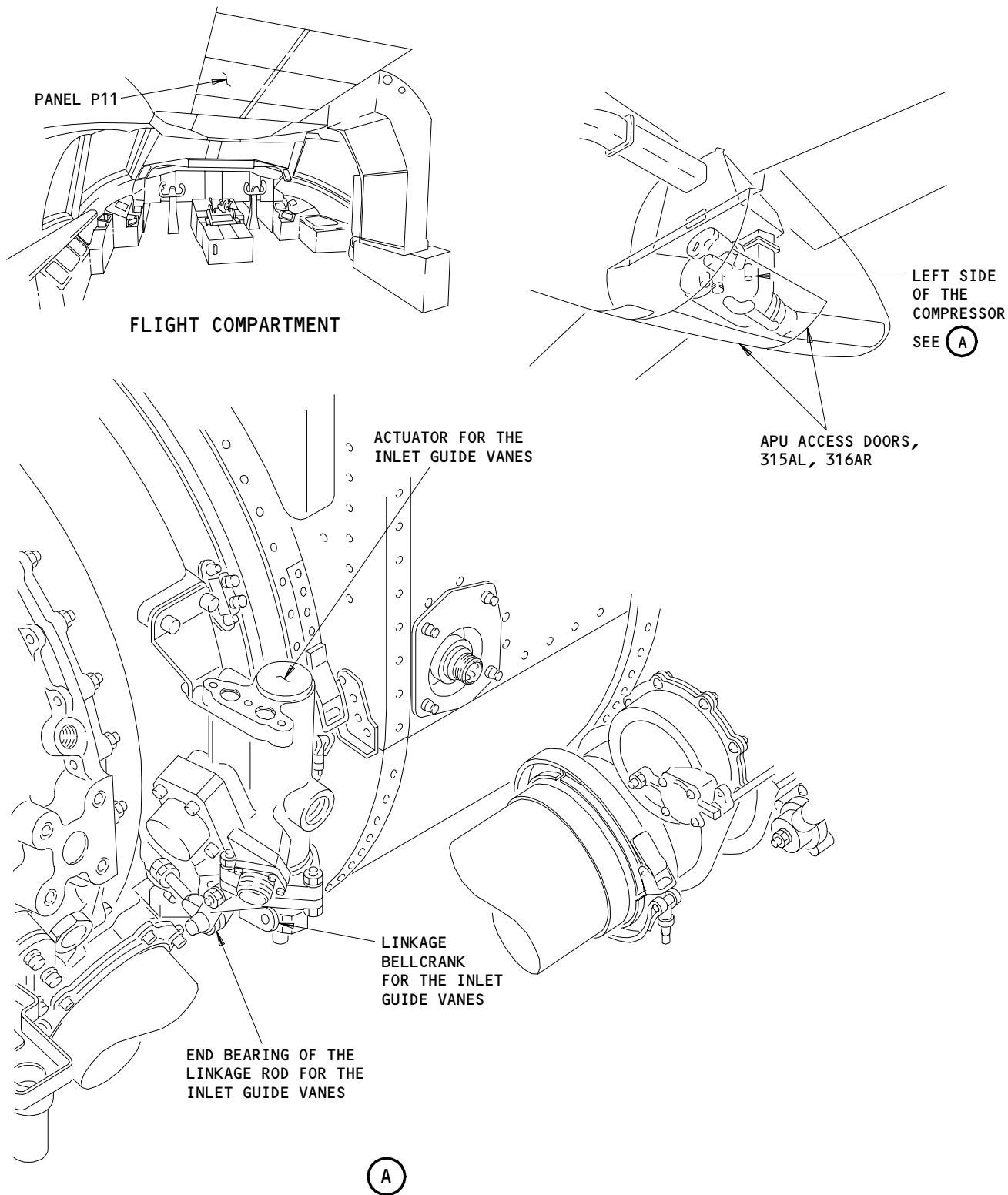
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ALL

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Page 101  
Feb 10/92



APU Bleed Air System - Component Location  
Figure 102

EFFECTIVITY

ALL






49-52-00



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Page 102  
Feb 10/92

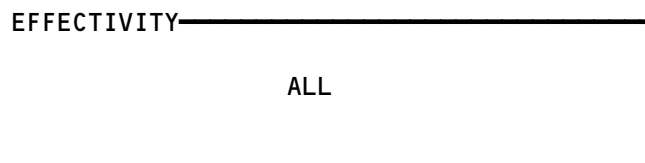
**BOEING**  
767  
FAULT ISOLATION/MAINT MANUAL

APU SURGE BLEED SYSTEM

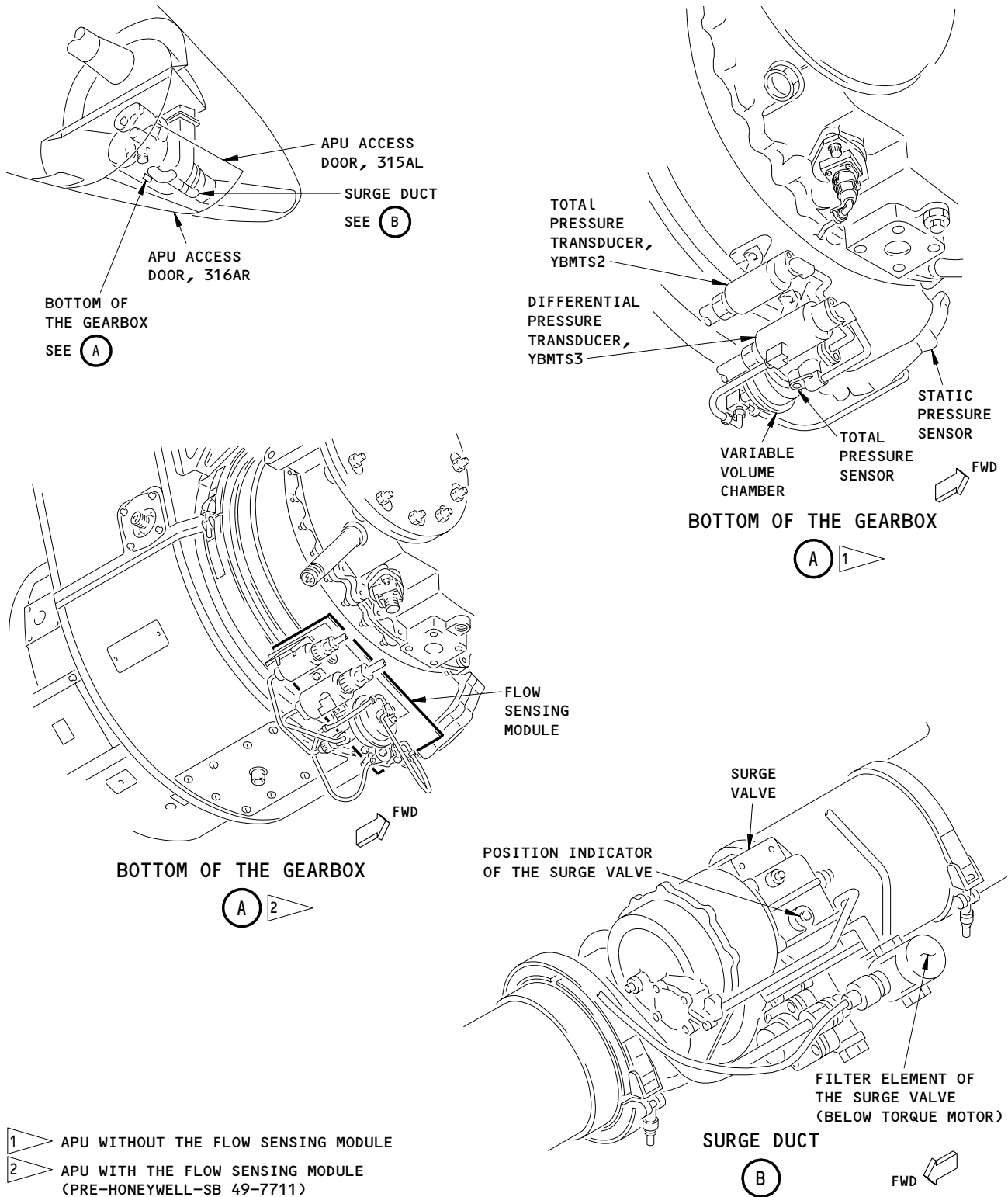
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ELEMENT - SURGE VALVE FILTER	--	1	315AL,316AR, APU COMPT, SURGE DUCT	49-53-06
MODULE - FLOW SENSING 	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-53-08
SENSOR - STATIC PRESSURE 	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-53-05
SENSOR - TOTAL PRESSURE FLOW 	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-53-03
TRANSDUCER - DIFFERENTIAL PRESSURE, YBMTS3 	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-53-04
TRANSDUCER - TOTAL PRESSURE, YBMTS2 	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-53-02
VALVE - SURGE, YBMM5	--	1	315AL,316AR, APU COMPT, SURGE DUCT	49-53-01

-  APUs WITHOUT THE FLOW SENSING MODULE
-  APUs WITH THE FLOW SENSING MODULE

APU Surge Bleed System - Component Index  
Figure 101



49-53-00



APU Surge Bleed System - Component Location  
Figure 102 (Sheet 1)

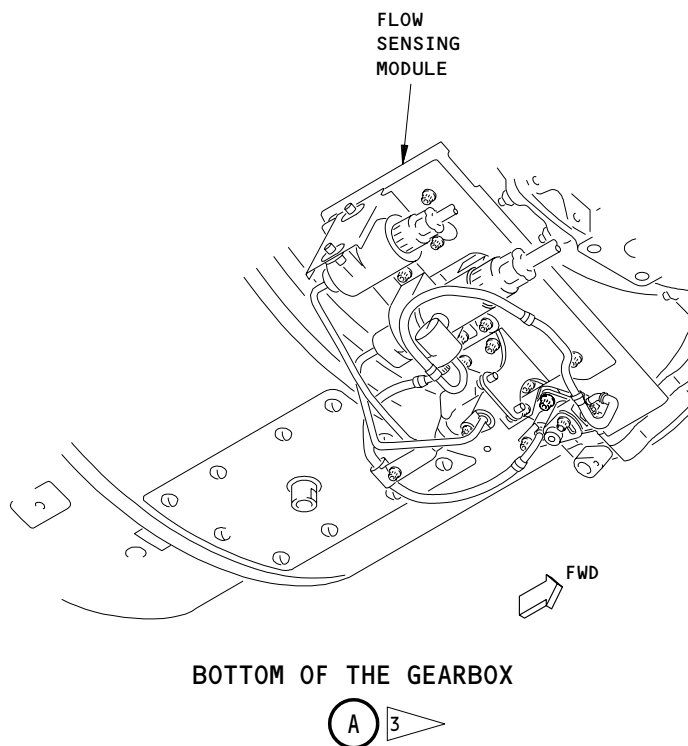
EFFECTIVITY

ALL

49-53-00

01

Page 102  
Aug 22/04



3 APU WITH THE FLOW SENSING MODULE (POST-HONEYWELL-SB 49-7711)

APU Surge Bleed System - Component Location  
Figure 102 (Sheet 2)

EFFECTIVITY	
	ALL

**49-53-00**

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Page 103  
Aug 22/04

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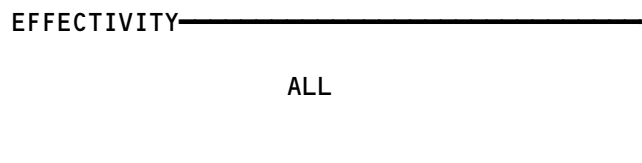

**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

APU CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
MONOPOLE - YBMTS8, YBMTS9	1	2	315AR, 316AL, APU COMP	49-61-02
PANEL - APU CONTROL, M1	1	1	FLT COMPT, P5	*
SENSOR - APU INLET PRESSURE, YBMTS4	1	1	315AR, 316AL, APU COMP	49-61-04
SENSOR - APU INLET TEMPERATURE, YBMTS5	1	1	315AR, 316AL, APU COMP	49-61-03
UNIT - AUXILIARY POWER CONTROL, M206	1	1	822, AFT EQUIP CTR, E6	49-61-05

\* SEE THE WDM EQUIPMENT LIST

APU Control System - Component Index  
Figure 101



**49-61-00**

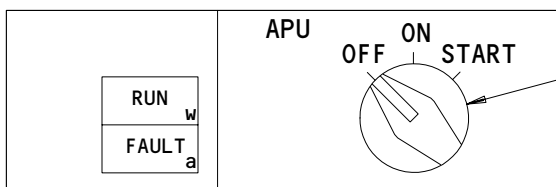
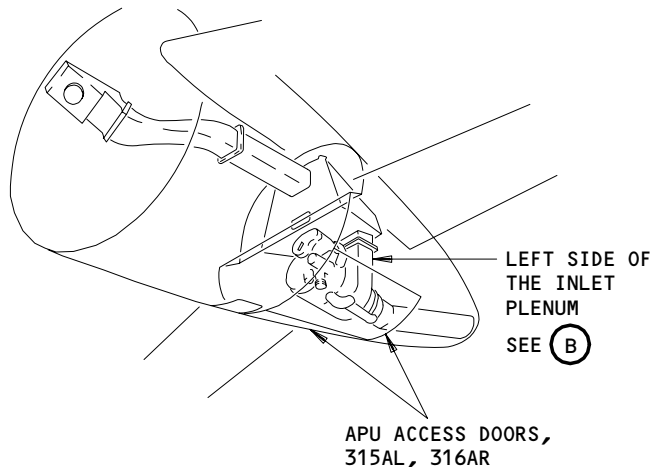
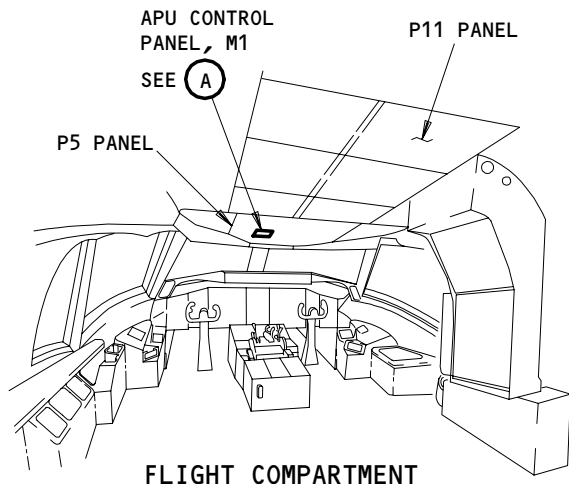
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Page 101  
Feb 10/92

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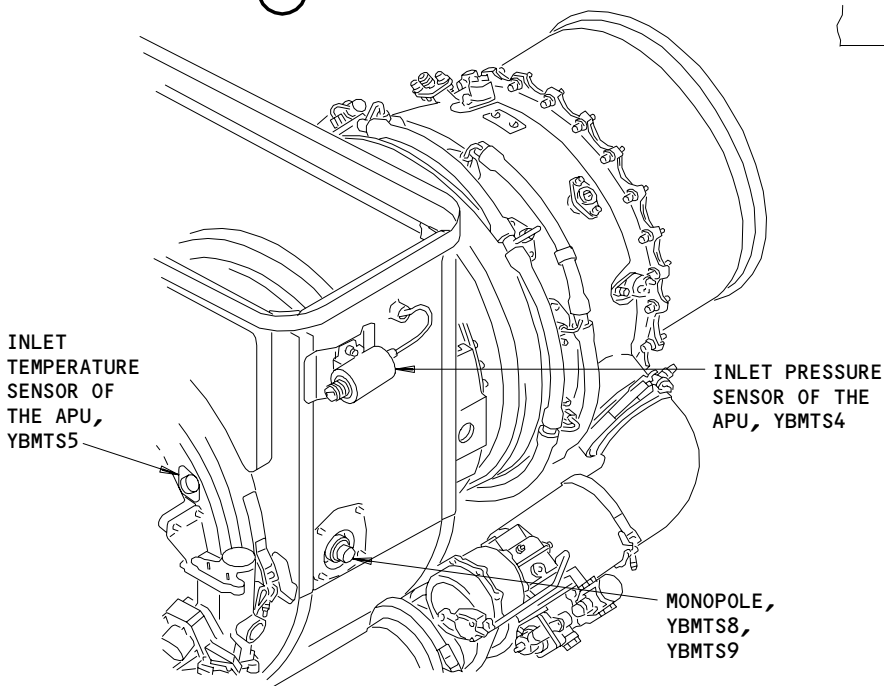
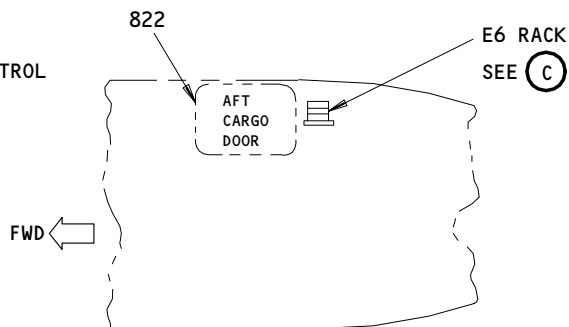
# BOEING

## 767 FAULT ISOLATION/MAINT MANUAL



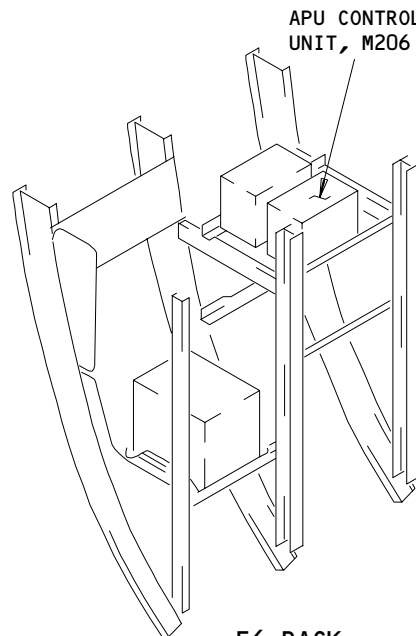
APU CONTROL PANEL, M1

(A)



LEFT SIDE OF THE INLET PLENUM

(B)



E6 RACK

(C)

APU Control System - Component Location  
Figure 102

EFFECTIVITY

ALL

49-61-00

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Page 102  
Feb 10/92

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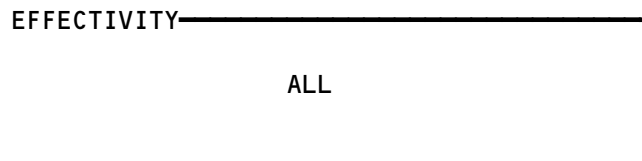


767  
FAULT ISOLATION/MAINT MANUAL

APU EXHAUST GAS TEMPERATURE INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ASSEMBLY - APU EGT THERMOCOUPLE, YBMTS6,YBMTS7 UNIT - (FIM 49-61-00/101) AUXILIARY POWER CONTROL, M206	--	2	316AR,315AL, APU COMPT	49-71-01

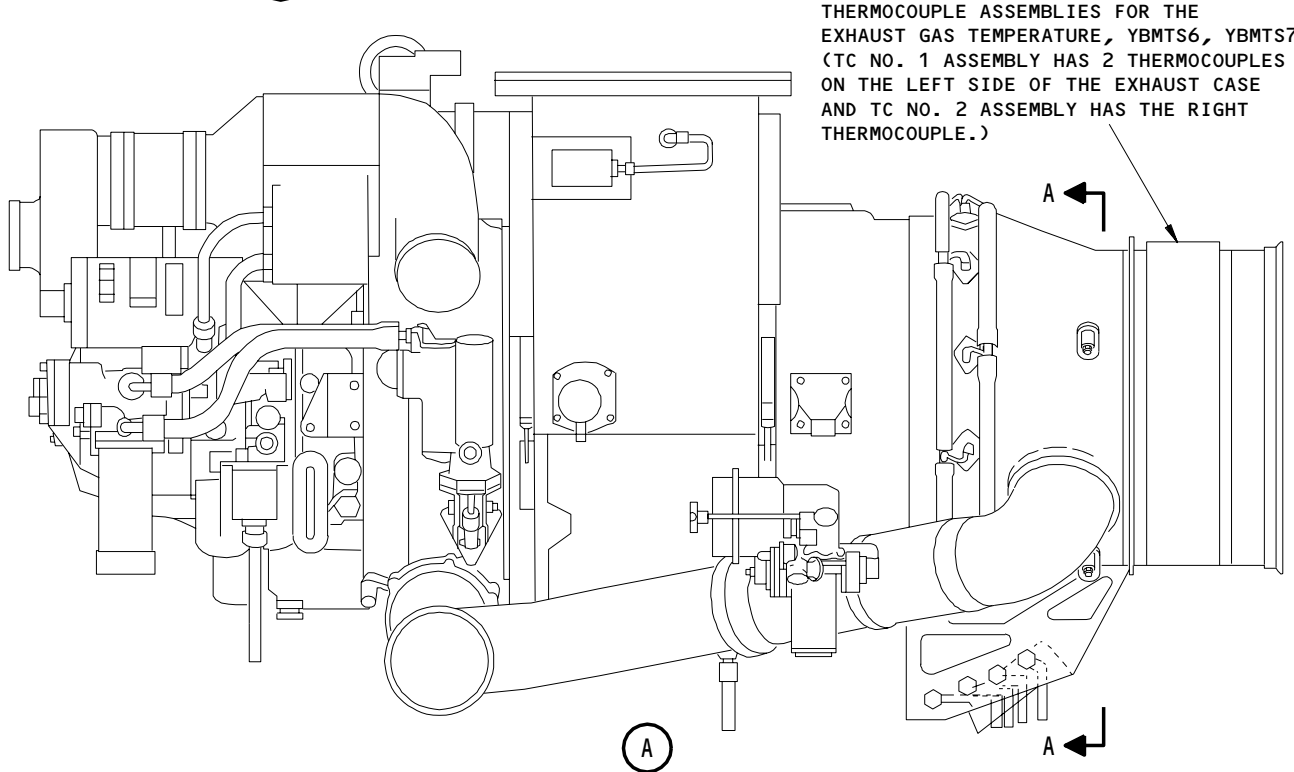
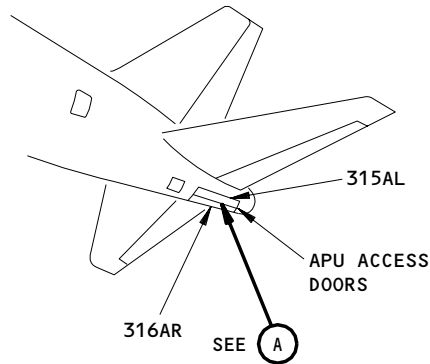
APU Exhaust Gas Temperature Indicating System - Component Index  
Figure 101



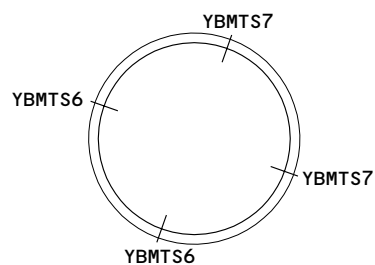
49-71-00

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Page 101  
Aug 10/94



THERMOCOUPLE ASSEMBLIES FOR THE EXHAUST GAS TEMPERATURE, YBMTS6, YBMTS7 (TC NO. 1 ASSEMBLY HAS 2 THERMOCOUPLES ON THE LEFT SIDE OF THE EXHAUST CASE AND TC NO. 2 ASSEMBLY HAS THE RIGHT THERMOCOUPLE.)



(VIEW IN THE FORWARD DIRECTION)  
A-A

APU Exhaust Gas Temperature Indicating System - Component Location  
Figure 102

EFFECTIVITY	
	ALL

49-71-00

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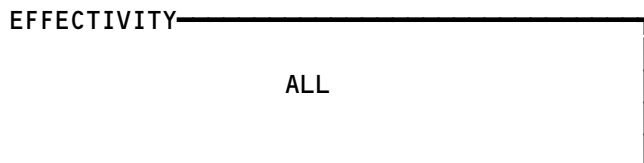

**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

APU INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
HOURLMETER, N109	--	1	FLT COMPT, P61	49-72-01

\* SEE THE WDM EQUIPMENT LIST

APU Indicating System - Component Index  
Figure 101



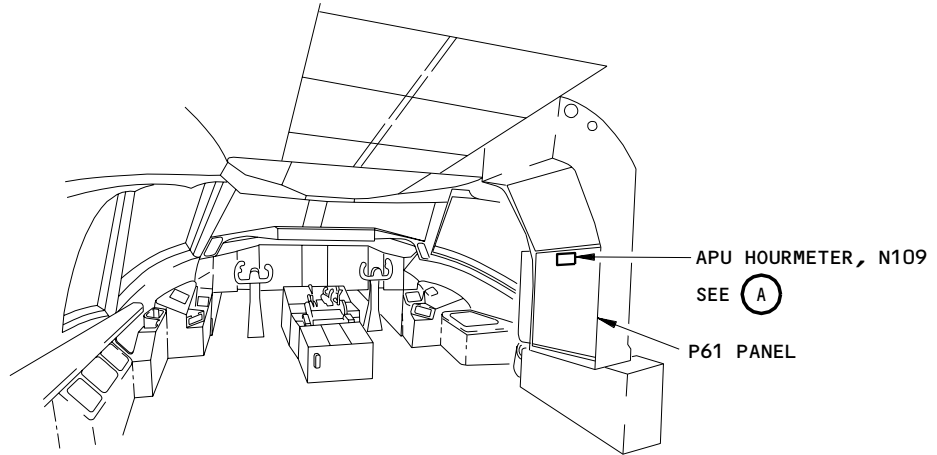
**49-72-00**

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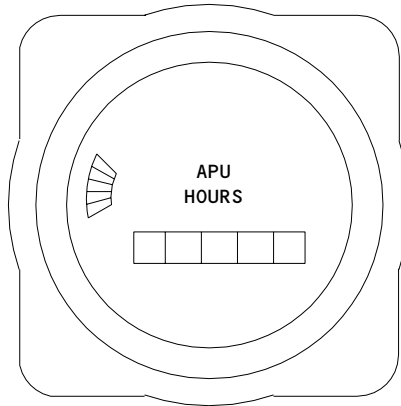
Page 101  
Aug 22/03

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**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL



FLIGHT COMPARTMENT



APU HOURMETER, N109

(A)

APU Indicating System - Component Location  
 Figure 102

EFFECTIVITY	ALL
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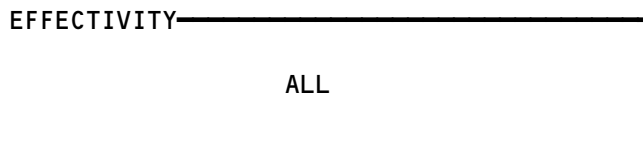
49-72-00


**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

APU EXHAUST SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
BLANKET - EXHAUST DUCT INSULATION	--	1	316AR, 315AL, APU COMPT	49-81-02
DUCT - EXHAUST	--	1	316AR, 315AL, APU COMPT	49-81-01
SEAL - EXHAUST DUCT SUPPORT	--	1	316AR, 315AL, APU COMPT	49-81-03

APU Exhaust System - Component Index  
Figure 101

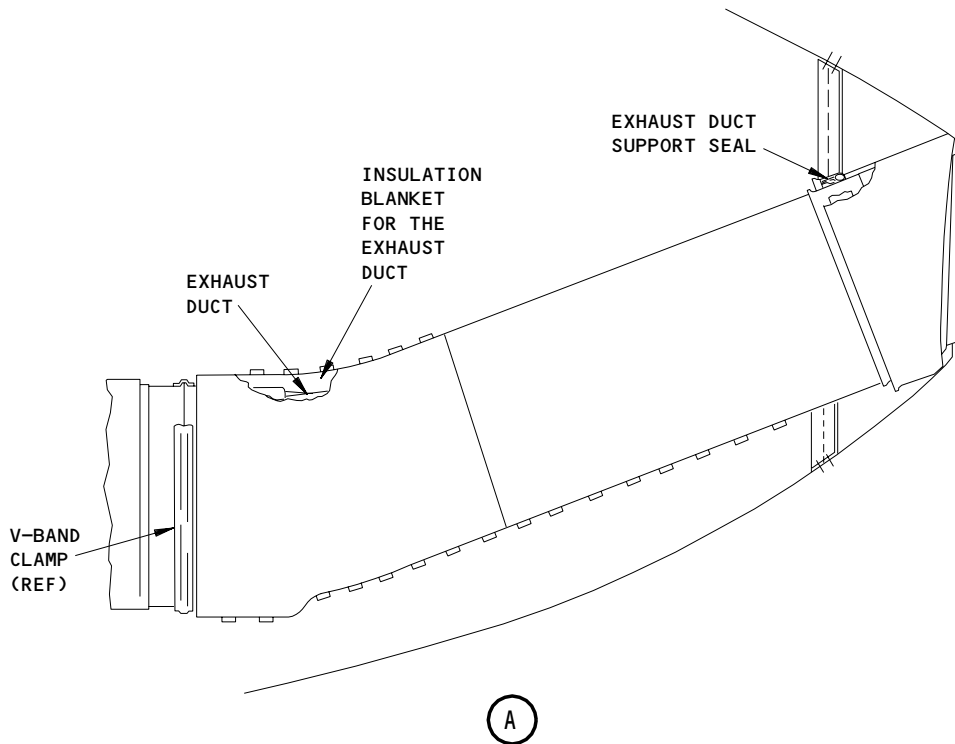
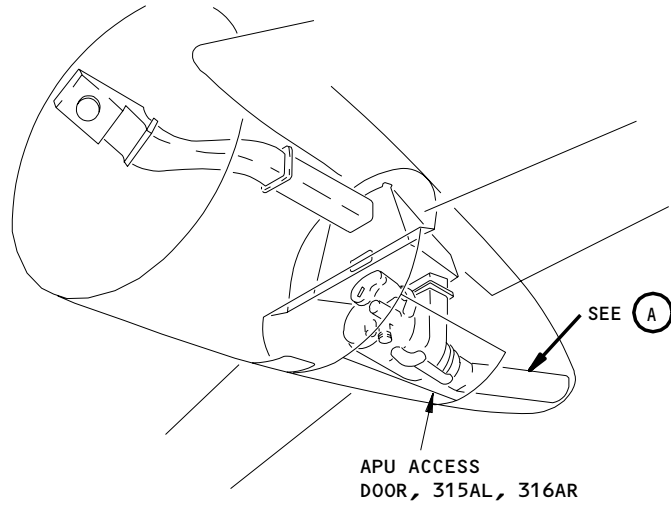


49-81-00

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Page 101  
Apr 22/99

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APU Exhaust System - Component Location  
 Figure 102

EFFECTIVITY	ALL
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49-81-00

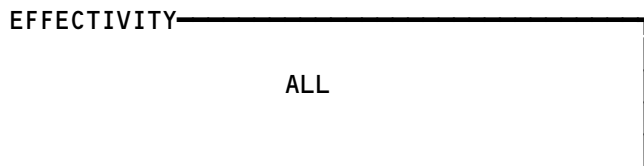



**BOEING**  
 767  
 FAULT ISOLATION/MAINT MANUAL

APU OIL INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SENSOR - OIL TEMPERATURE, YBMS1	--	1	315AL, 316AR, APU COMPT, RIGHT SIDE LOAD COMPRESSOR	49-94-01
SWITCH - LOW OIL PRESSURE, YBMS2	--	1	315AL, 316AR, APU COMPT, RIGHT SIDE LOAD COMPRESSOR	49-94-02
TRANSMITTER - OIL QUANTITY, YBMS3	--	1	315AL, 316AR, APU COMPT, BOTTOM OF GEARBOX	49-94-04

APU Oil Indicating System - Component Index  
Figure 101

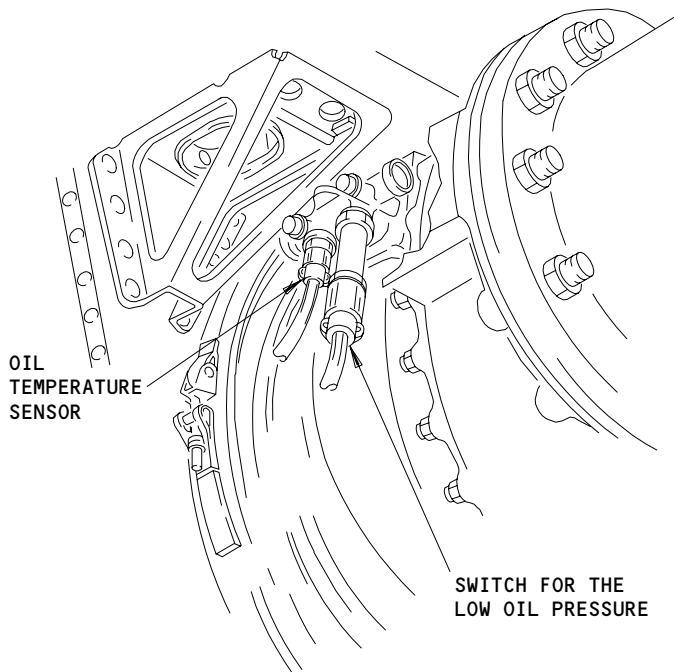
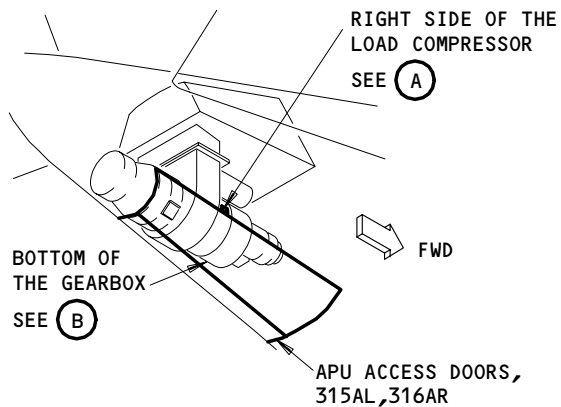


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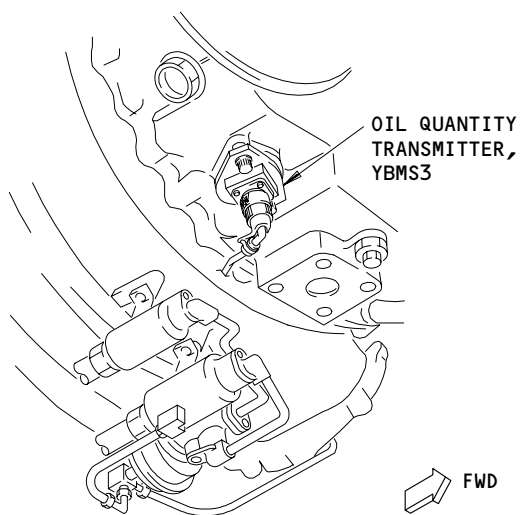
Page 101  
Aug 22/99

E17738



RIGHT SIDE OF THE LOAD COMPRESSOR

(A)



BOTTOM OF THE GEARBOX

(B)

APU Oil Indicating System - Component Location  
Figure 102

EFFECTIVITY	
	ALL

49-94-00