



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

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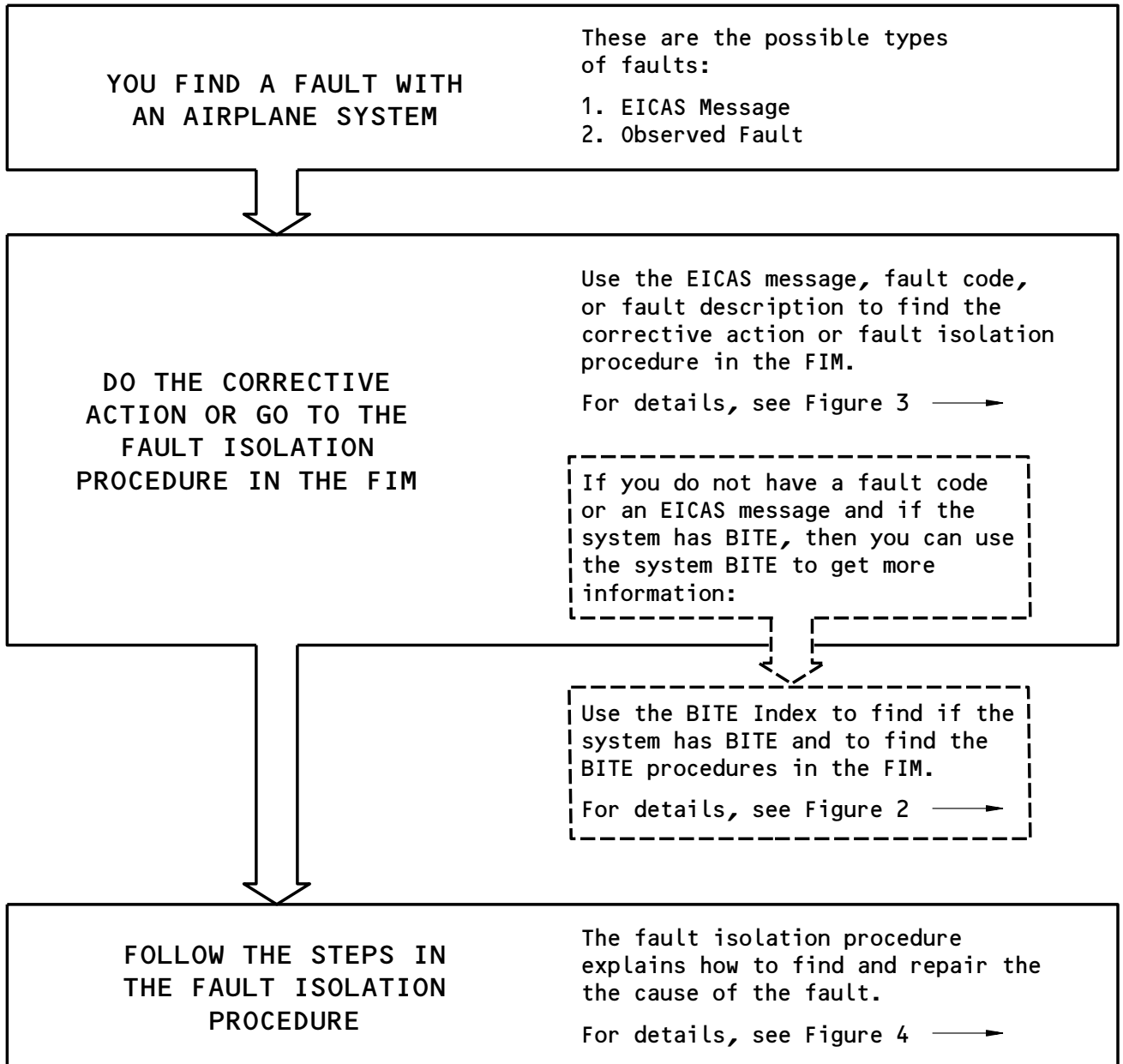
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Basic Fault Isolation Process  
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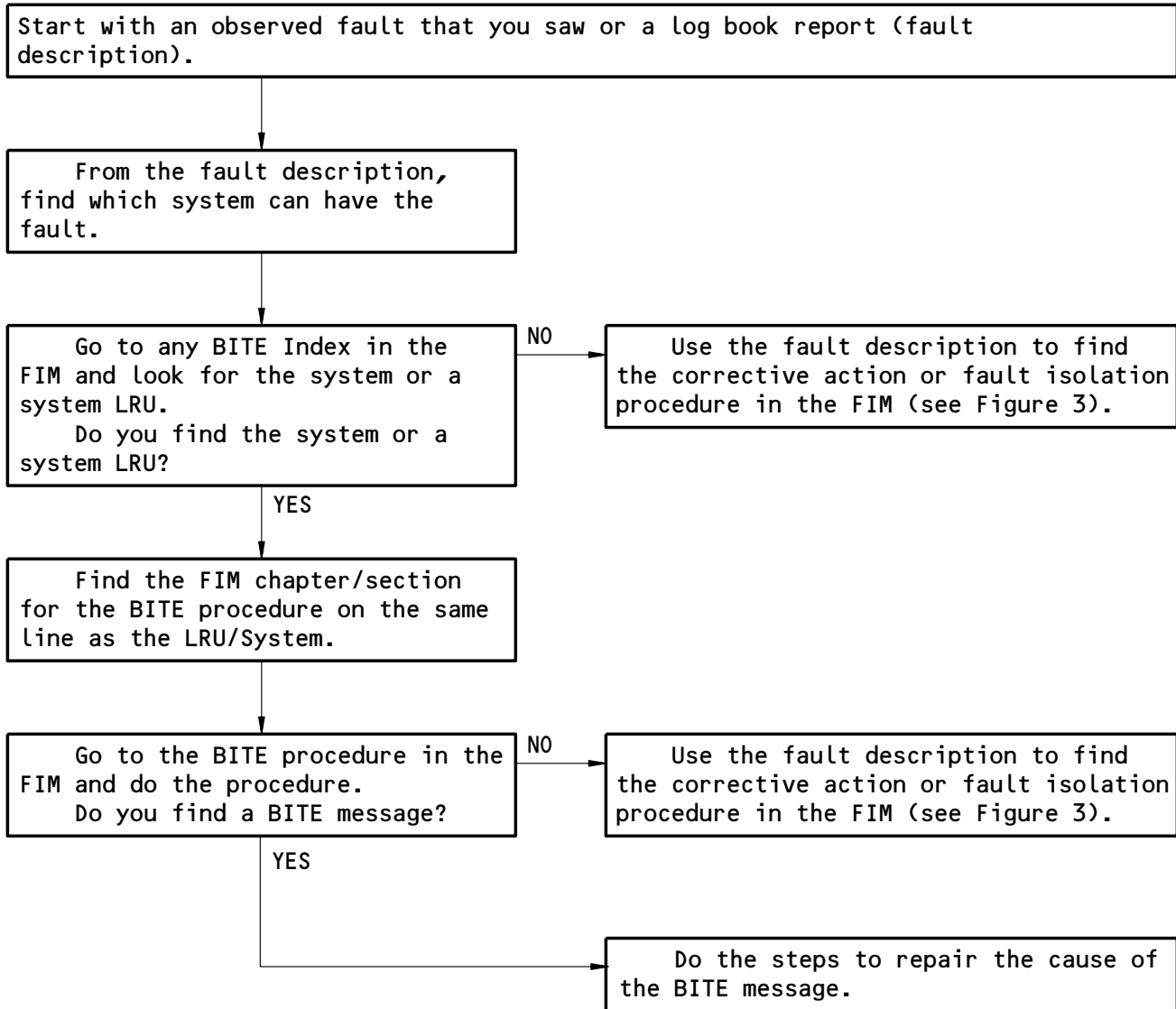
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How to Get Fault Information from BITE  
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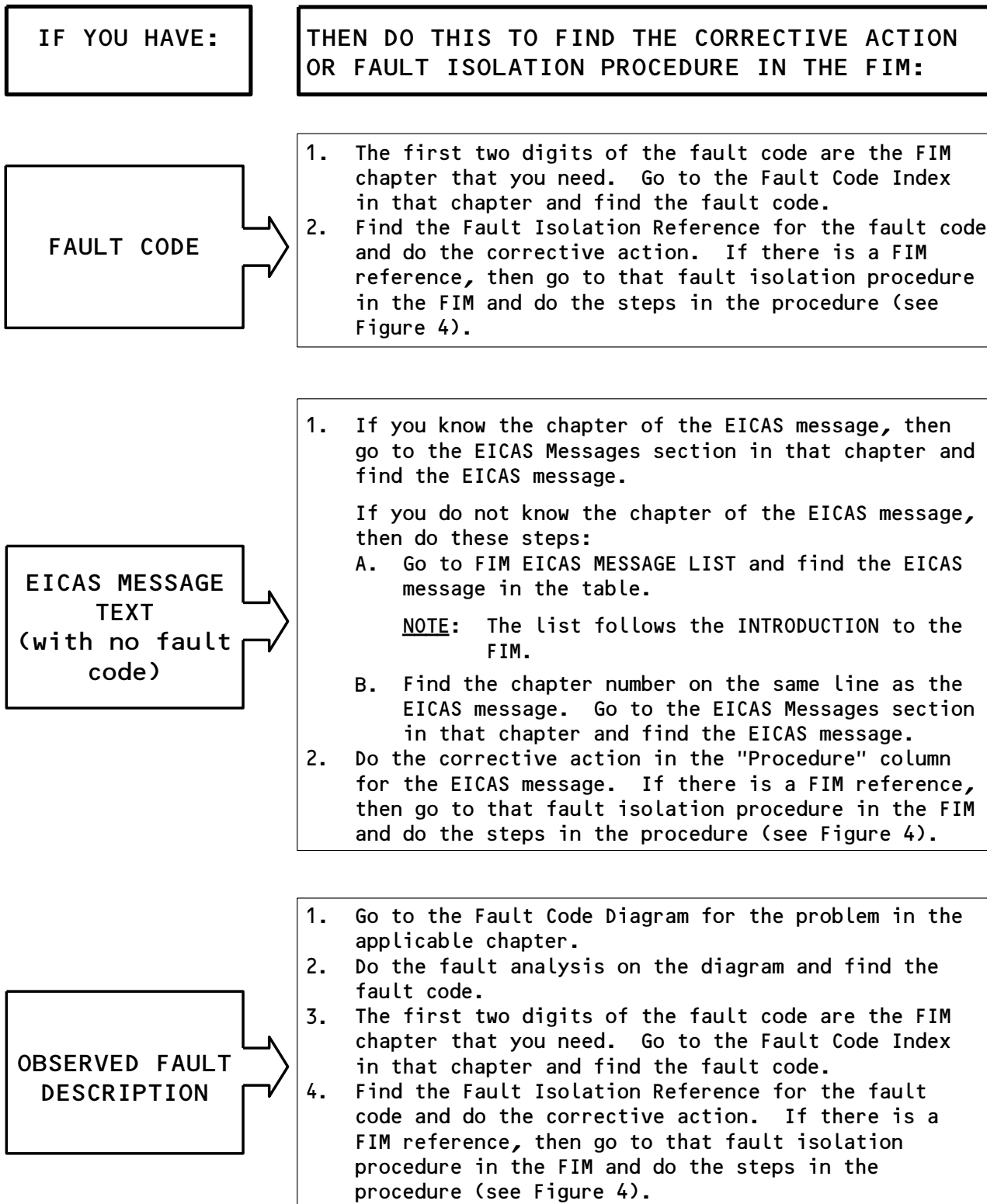
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## 49-HOW TO USE THE FIM

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

Figure 3

EFFECTIVITY

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## 49-HOW TO USE THE FIM

01

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ASSUMED CONDITIONS AT START OF TASK

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

PREREQUISITES

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

FAULT ISOLATION BLOCKS

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

Do the Fault Isolation Procedure  
Figure 4

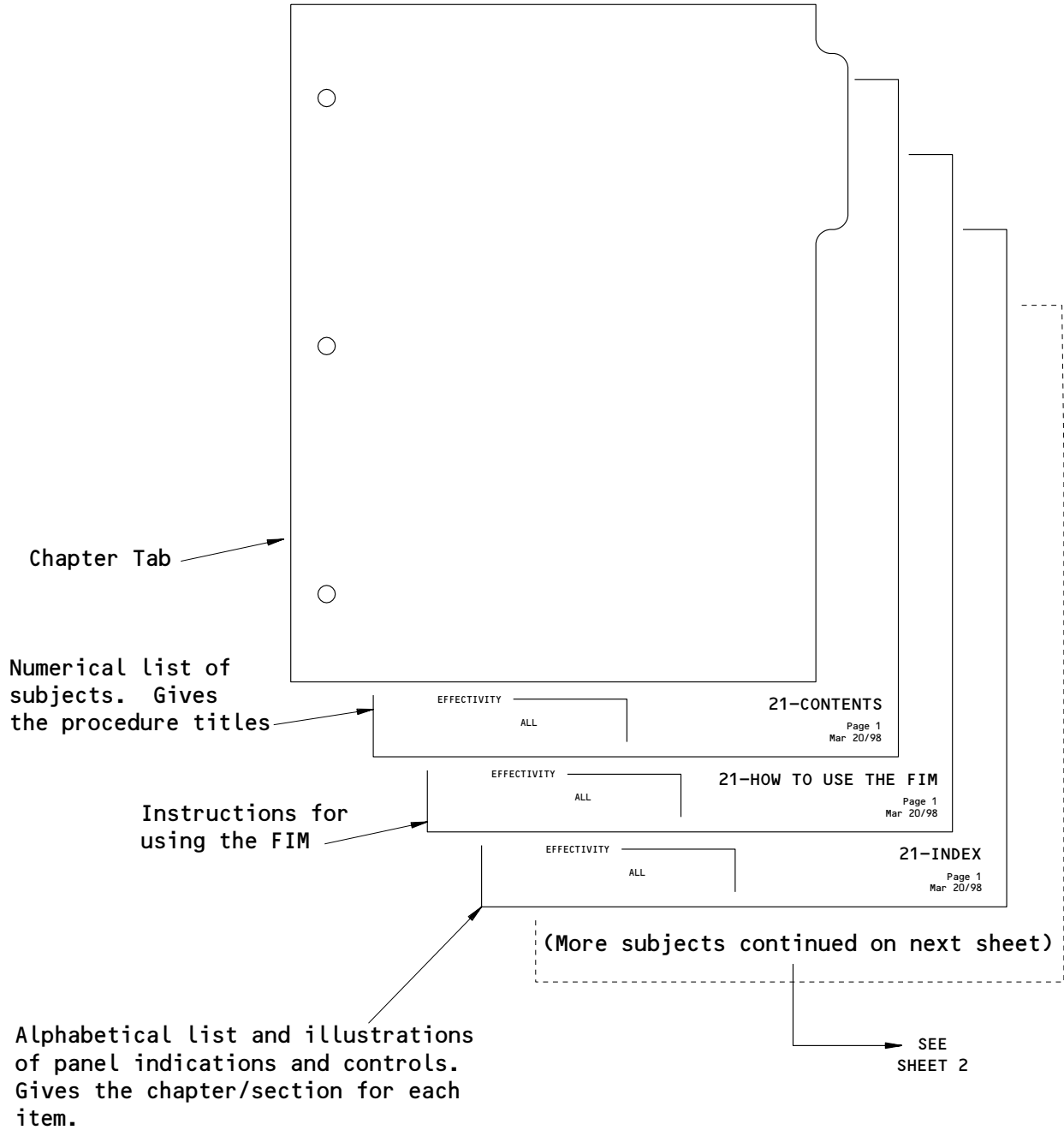
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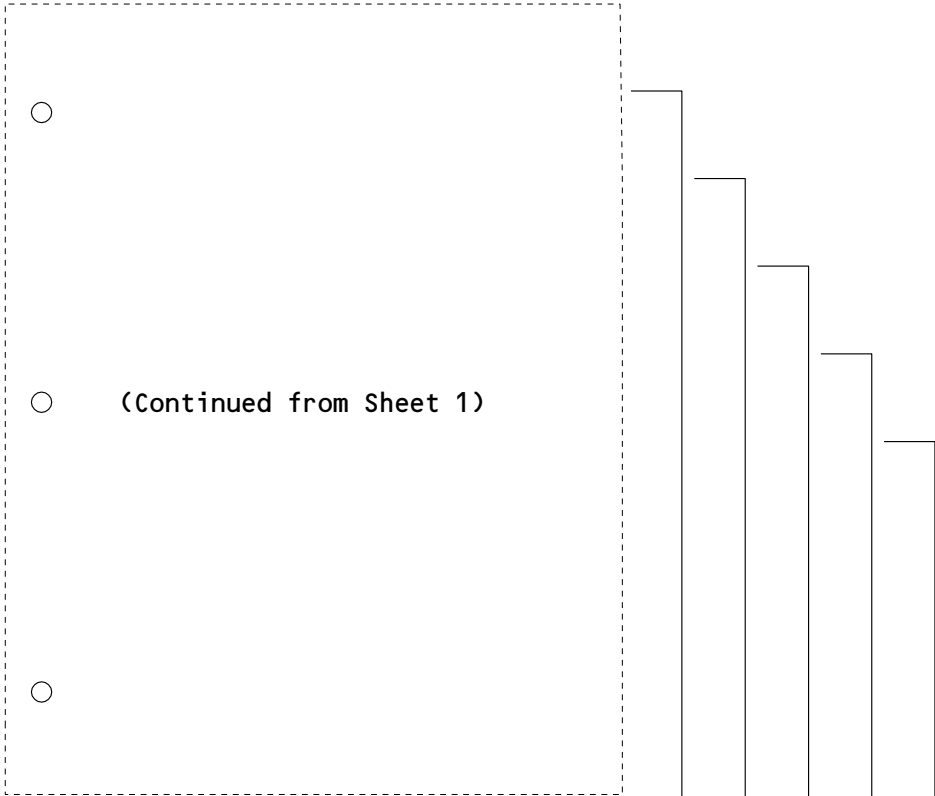
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Subjects in Each FIM Chapter  
Figure 5 (Sheet 1)

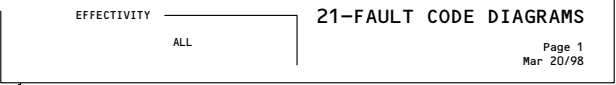
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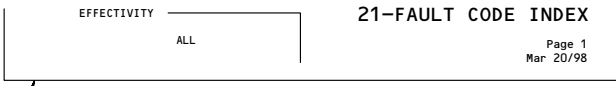
Alphabetical list of the EICAS messages. Gives the procedure to repair the cause of the message or a reference to a fault isolation procedure.



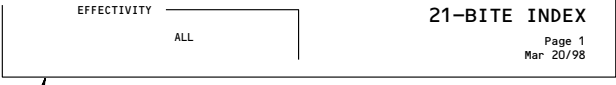
Failure analysis diagrams for the airplane systems to find the correct fault code for the fault.



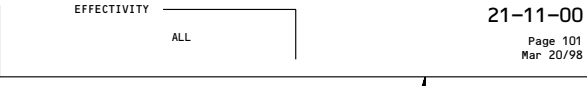
Numerical list of fault codes. Gives the procedure to repair the cause of the fault or a reference to a fault isolation procedure.



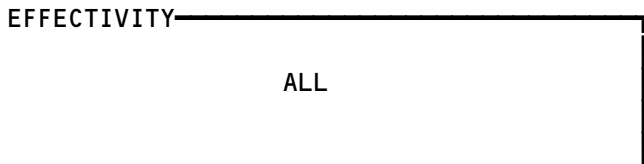
Alphabetical list of all the LRUs/systems that have BITE. Gives the chapter/section for the BITE procedure.



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

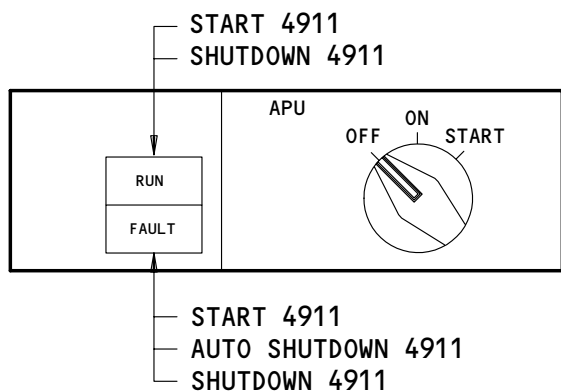
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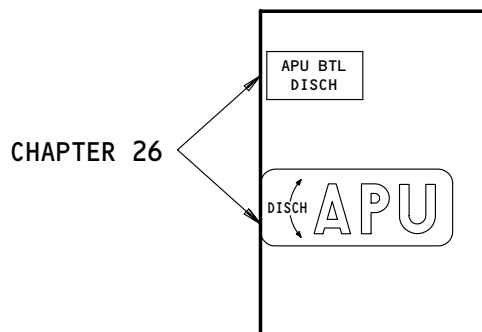
EFFECTIVITY	ALL
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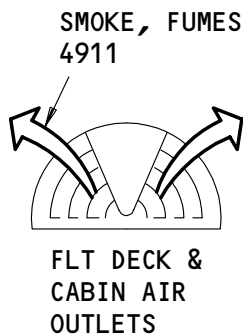




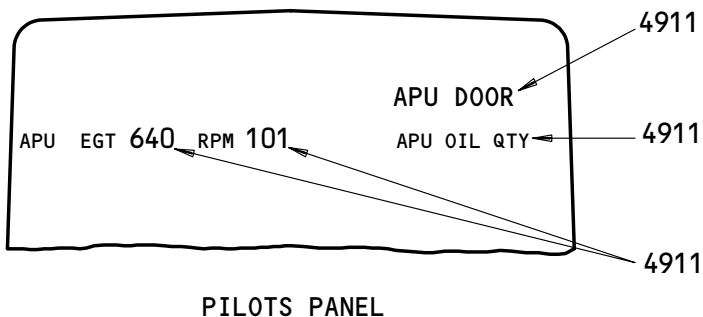
OVERHEAD PANEL



AFT ELECTRONIC CONTROL PANEL



EICAS STATUS



APU - INDEX

EFFECTIVITY	ALL
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**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

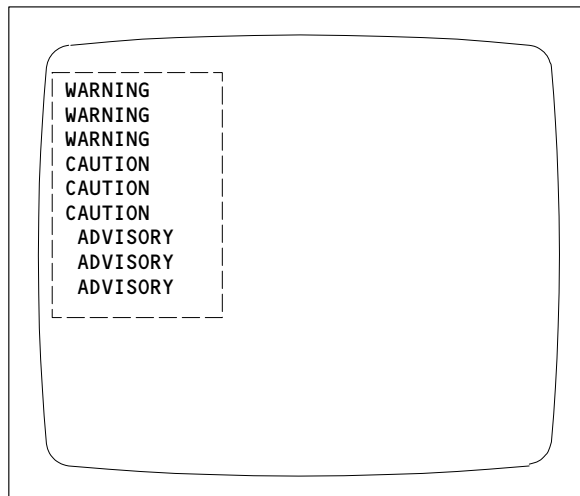
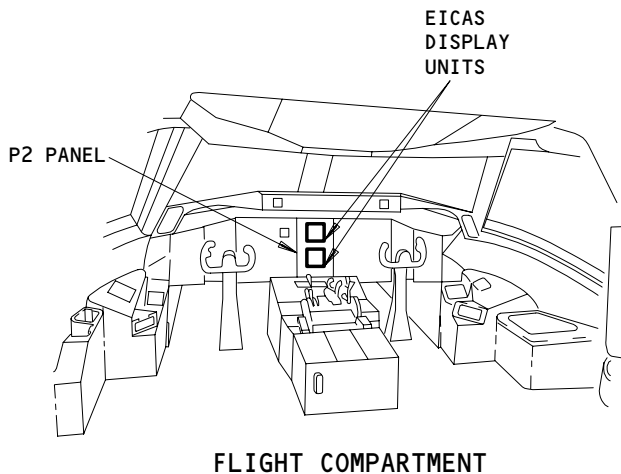
ALL

## 49-EICAS MESSAGES

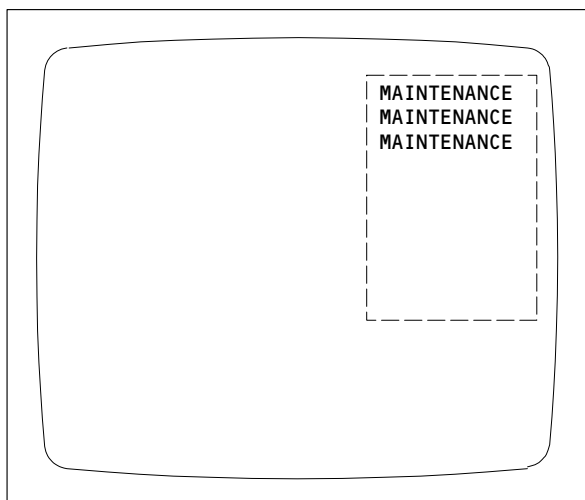
01

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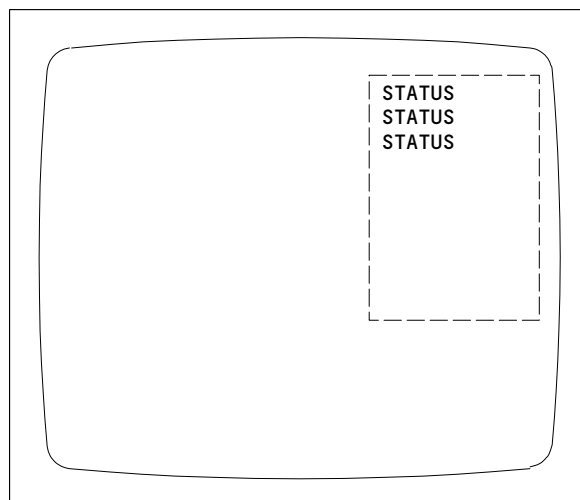
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FAULT ISOLATION/MAINT MANUAL



ENGINE PRIMARY PAGE OR COMPACTED PAGE  
(TOP DISPLAY UNIT)



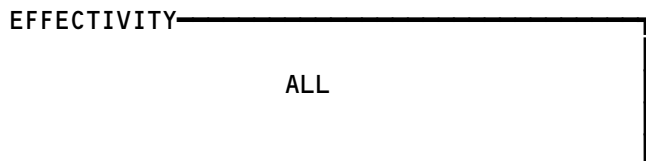
ECS/MSG PAGE  
(BOTTOM DISPLAY UNIT)



STATUS PAGE  
(BOTTOM DISPLAY UNIT)

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

EICAS Message Locations  
Figure 1



# 49-EICAS MESSAGES


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EICAS MESSAGE LIST		
EICAS MESSAGE	LEVEL	PROCEDURE
APU BAT CHGR	S, M	Go To 24-EICAS MESSAGES
APU BAT DISCH	C	Go To 24-EICAS MESSAGES
APU BAT NO STBY	S, M	Go To 24-EICAS MESSAGES
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

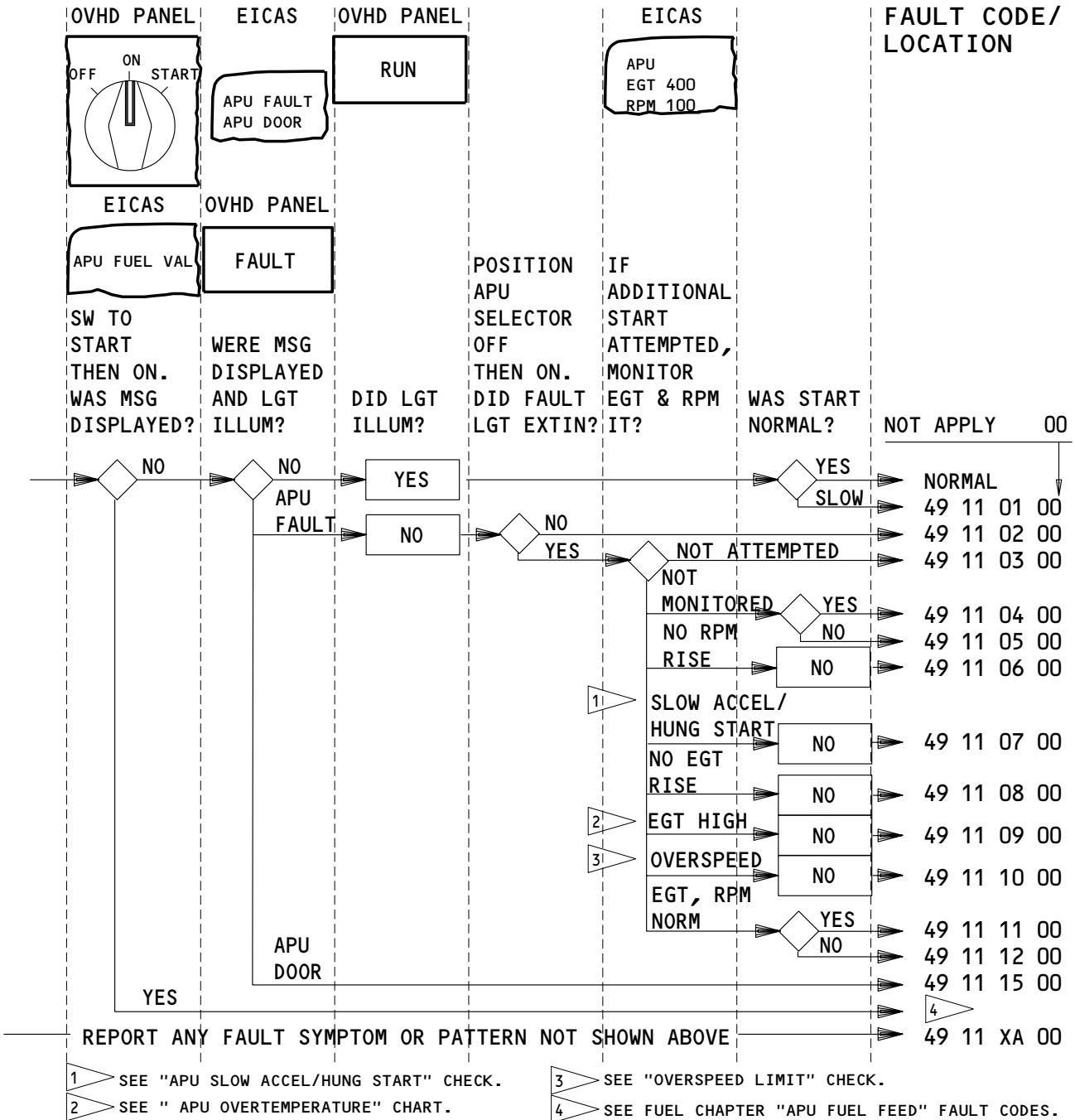
EFFECTIVITY

ALL

## 49-EICAS MESSAGES

02

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APPLICABLE CIRCUIT BREAKERS AS INSTALLED

6E3	APU FUEL VALVES	11B34	APU (MN BAT, ALTN) CONT	11D35	DC PUMP CONT
6H12	APU START TRU CONT	11C33	DC PUMP (APU, PWR)		
6H23	L FWD FUEL BOOST PUMP	11D32	DISAGREE (ENABLE, ENBL) APU		

APU START - FAULT CODES

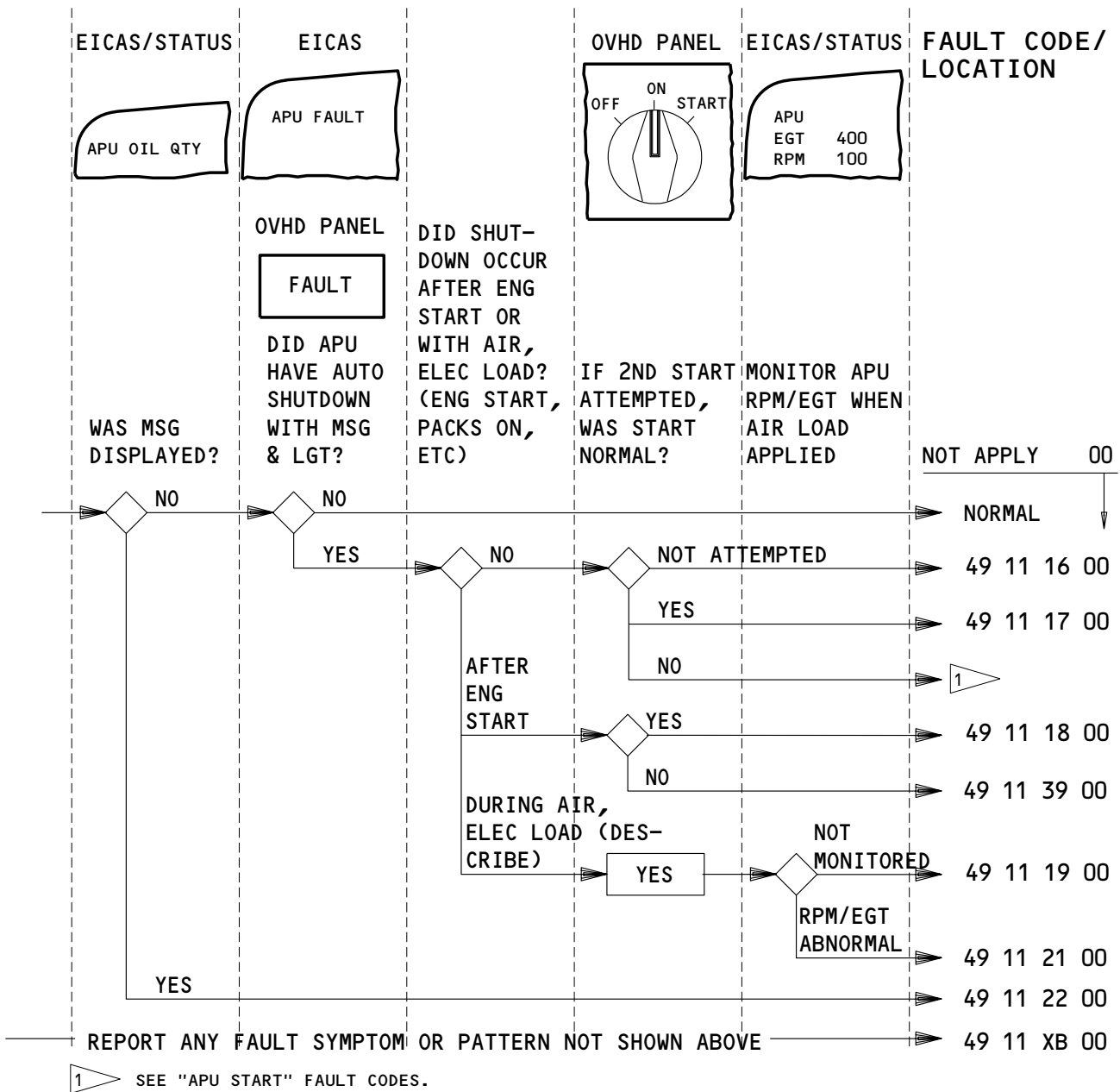
EFFECTIVITY

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## 49-FAULT CODE DIAGRAM

# BOEING

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**APPLICABLE CIRCUIT BREAKERS AS INSTALLED**

6E3	APU FUEL VALVES	11C33	DC PUMP APU	11D32	DISAGREE ENABLE APU
6H12	APU START TRU CONT	11C33	DC PUMP PWR	11D32	DISAGREE ENBL APU
11B34	APU ALTN CONT			11D35	DC PUMP CONT

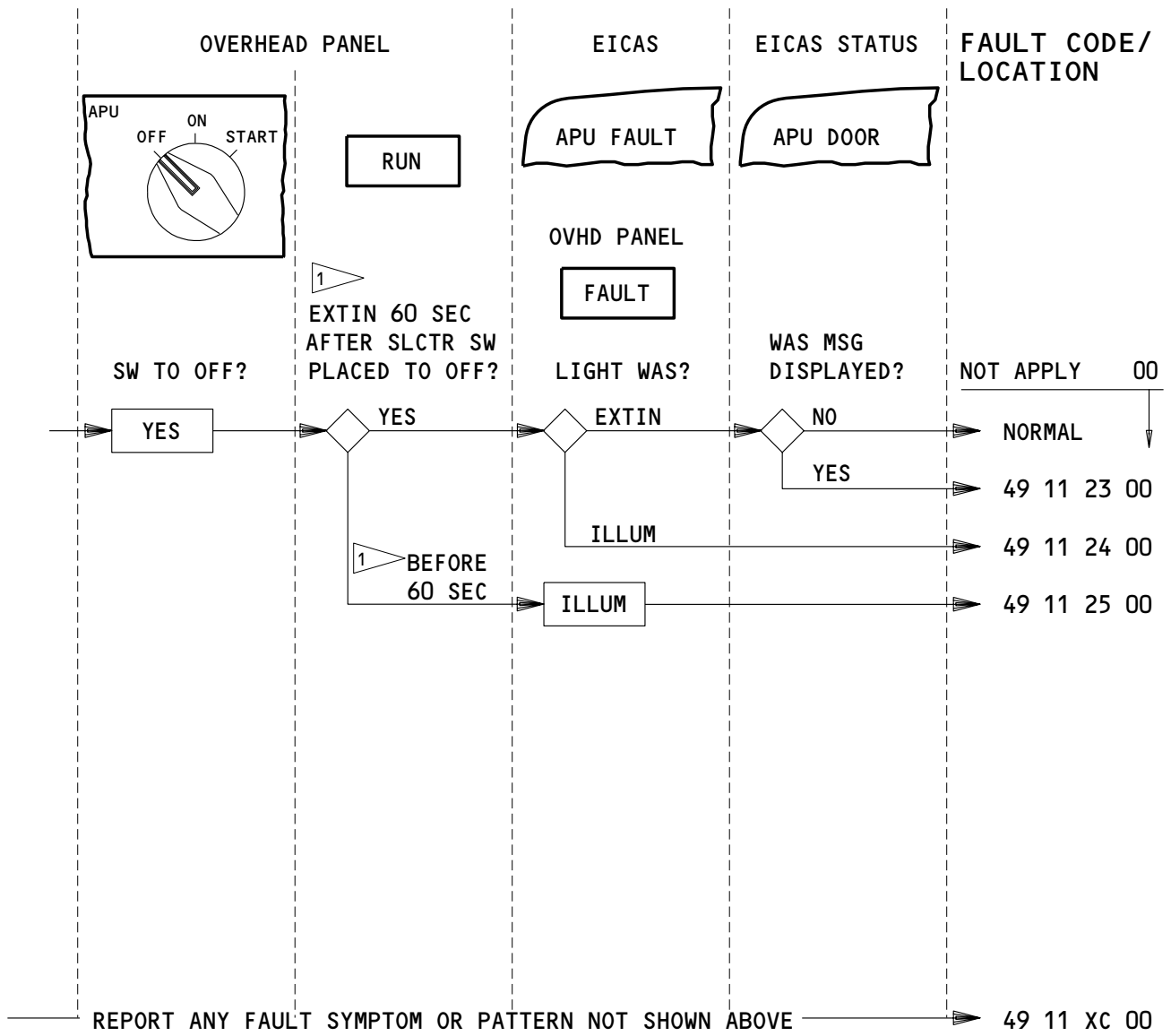
**APU AUTO SHUTDOWN/APU OIL QTY – FAULT CODES**

EFFECTIVITY

---

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## 49-FAULT CODE DIAGRAM



1 **NOTE:** CLOSING THE APU BLEED VALVE REDUCES WORKLOAD ON THE APU AND PERMITS APU COOLING BEFORE SHUTDOWN. APU RUN LIGHT WILL EXTIN BEFORE 60 SEC IF APU BLEED VALVE IS CLOSED BEFORE APU SLCTR SW IS PLACED TO OFF.

**APPLICABLE CIRCUIT BREAKERS AS INSTALLED**

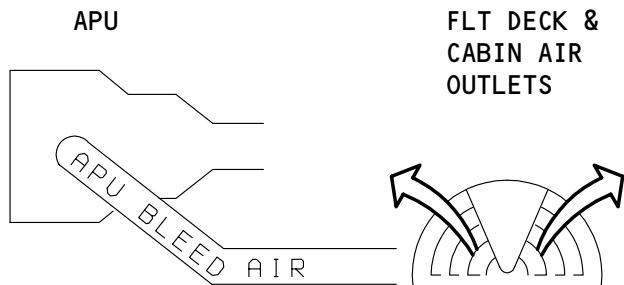
6E3	APU FUEL VALVES	11D32	DISAGREE ENABLE APU
11B34	APU ALTN CONT	11D32	DISAGREE ENBL APU
11B34	APU MN BAT CONT	11D35	DC PUMP CONT
11C33	DC PUMP APU		
11C33	DC PUMP PWR		

**APU SHUTDOWN – FAULT CODES**

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**49-FAULT CODE DIAGRAM**

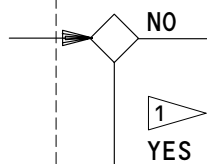
54521



**FAULT CODE/  
LOCATION**

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

**NOT APPLY 00**



**NORMAL**

**49 11 26 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**

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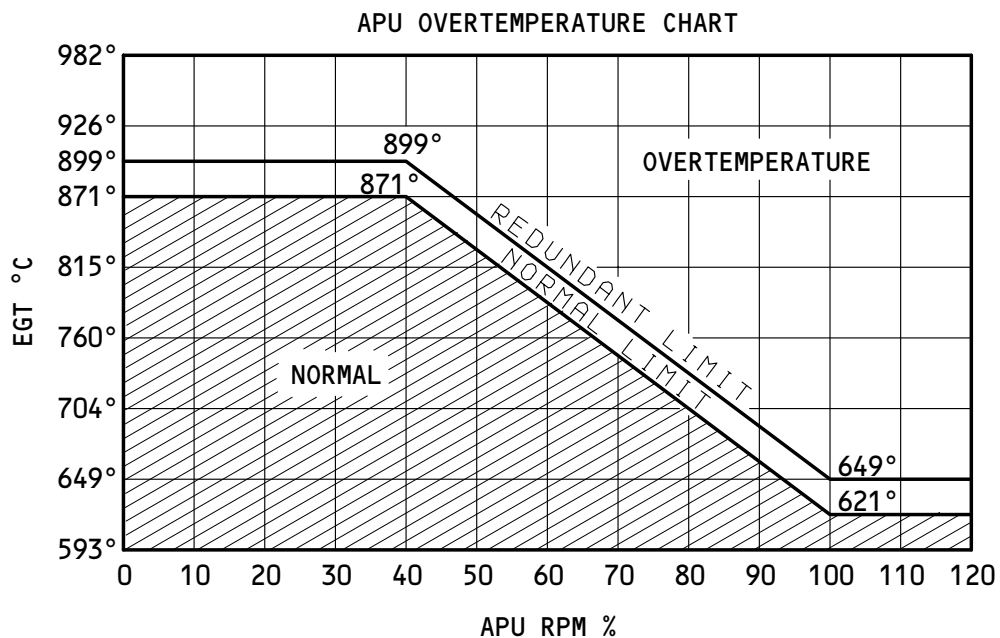
**49-FAULT CODE DIAGRAM**

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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.

CHARTS

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## 49-FAULT CODE DIAGRAM

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**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**

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**49-Fault Code Diagram**

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FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
49 11 XA 00	An APU start problem was encountered by the flight crew which is not covered by the fault code diagrams.	SSM 49-41-01
49 11 XB 00	An APU auto shutdown or oil quantity problem was encountered by the flight crew which is not covered by the fault code diagrams.	SSM 49-61-01
49 11 XC 00	An APU shutdown problem was encountered by the flight crew which is not covered by the fault code diagrams.	SSM 49-61-01
49 11 XD 00	An APU smoke, fumes from APU problem was encountered by the flight crew which is not covered by the fault code diagrams.	FIM 49-11-00/101, Fig. 122, Block 1
49 11 01 00	APU slow to start, ____ sec elapsed before RUN light turned on.	FIM 49-11-00/101, Fig. 104, Block 1
49 11 02 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. APU selector positioned OFF then ON, light and message remained.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 03 00	APU failed to start. RUN light off, FAULT light on and EICAS APU FAULT message displayed. (describe additional indications such as: RPM, EGT, etc.).	FIM 49-11-00/101, Fig. 103, Block 1
49 11 04 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. APU started normal on next attempt.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 05 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Additional start attempts unsuccessful.	FIM 49-11-00/101, Fig. 103, Block 1

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## 49-FAULT CODE INDEX

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FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
49 11 05 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second attempt indicates no RPM rise.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 07 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second attempt indicates slow accel, hung start.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 08 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second attempt indicates no EGT rise.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 09 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second attempt indicates EGT high.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 10 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second attempt indicates APU overspeed.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 11 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second start norm, EGT & RPM norm.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 12 00	APU failed to start. FAULT light on and EICAS message APU FAULT displayed. Second attempt shows norm EGT & RPM, but APU quit.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 15 00	APU failed to start. EICAS megs APU DOOR & APU FAULT displayed & FAULT lgt on when sw placed to START.	FIM 49-11-00/101, Fig. 104, Block 23
49 11 16 00	APU shutdown, FAULT light on and EICAS APU FAULT message displayed.	FIM 49-11-00/101, Fig. 103, Block 1

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## 49-FAULT CODE INDEX

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FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
49 11 17 00	APU had auto shutdown, FAULT light on and EICAS message APU FAULT displayed. Next start attempt normal.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 18 00	APU had auto shutdown after eng start. FAULT light on and EICAS message EICAS msg APU FAULT displayed. Next start attempt normal.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 19 00	APU had auto shutdown during eng start, packs on, etc. FAULT light on and EICAS message APU FAULT displayed. Next start attempt normal.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 22 00	EICAS message APU OIL QTY displayed.	FIM 49-11-00/101, Fig. 116, Block 1
49 11 23 00	EICAS message APU D00R remains displayed after APU shutdown.	FIM 49-11-00/101, Fig. 104, Block 23
49 11 24 00	APU fault during shutdown. FAULT light on and EICAS APU FAULT message displayed.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 25 00	APU shut down prior to 60-second cool down period. FAULT light on and EICAS APU FAULT message displayed.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 26 00	(Smoke, Fumes) Coming into cabin from APU.	FIM 49-11-00/101, Fig. 122, Block 1
49 11 27 00	EICAS APU BITE message displayed.	FIM 49-11-00/101, Fig. 103, Block 1
49 11 28 00	EICAS message APU D00R displayed.	FIM 49-11-00/101, Fig. 104, Block 23
49 11 29 00	EICAS APU OIL QTY msg displayed.	FIM 49-11-00/101, Fig. 116, Block 1
49 11 30 --	(01=L,02=R) Engine slow to start using APU air. Duct press low, _____ psi.	FIM 49-11-00/101, Fig. 120, Block 1

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## 49-FAULT CODE INDEX

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FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
49 11 31 --	(O1=L,O2=R) Engine N3 failed to rotate with start selector in GND, duct press was low, ___ psi with start vlv open. APU was press source.	FIM 49-11-00/101, Fig. 120, Block 1
49 11 32 --	(O1=L,O2=R) Engine low max N3 motoring speed during start, duct press was low with start vlv open.	FIM 49-11-00/101, Fig. 120, Block 1
49 11 33 00	L and R duct pressure zero with APU running, APU bleed air switch ON, and VALVE light off.	FIM 49-11-00/101, Fig. 118, Block 1
49 11 34 00	L and R duct press low with APU suppling pneumatic system.	FIM 49-11-00/101, Fig. 120, Block 1
49 11 35 00	L and R duct press fluctuates with APU supplying pneumatic system.	FIM 49-11-00/101, Fig. 119, Block 1
49 11 36 00	APU generator OFF light off and EICAS message APU GEN OFF displayed when packs operated engine started.	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 39 00	APU shutdown after eng start, FAULT light on and EICAS APU FAULT message displayed. Next start attempt abnormal.	FIM 49-11-00/101, Fig. 103, Block 1
49 72 01 00	APU hours indicator does not advance normally with APU operating.	Replace the APU hourmeter (WDM 49-72-11). If the problem continues, examine circuit from the E6 rack APU TOTALIZER circuit breaker to the hourmeter terminals. Repair any problems that you find.

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## 49-FAULT CODE INDEX

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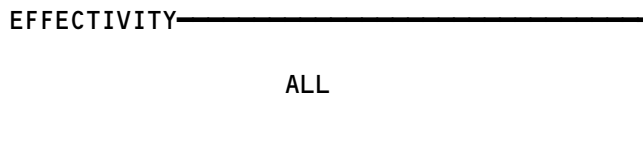
**BITE Index**

**1. General**

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

<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
Air Data Computer	ADC	34-12
Air Data Inertial Reference Unit	ADIRU	34-26
Air Traffic Control Transponder	ATC	34-53
Airborne Vibration Monitor Signal Conditioner	AVM	77-31
Antiskid/Autobrake Control Unit		32-42
APU Fire Detection System		26-15
Automatic Direction Finder Receiver	ADF	34-57
APU Control Unit	ECU	49-11
Brake Temperature Monitor Unit		32-46
Bus Power Control Unit	BPCU	24-20
Cabin Pressure Controller		21-30
Digital Flight Data Acquisition Unit	DFDAU	31-31
Distance Measuring Equipment Interrogator	DME	34-55
Duct Leak (Wing and Body)		26-18
E/E Cooling Control Card (If cards installed)		21-58
ECS Bleed Configuration Card		36-10
Electronic Engine Control (RR Engines)	EEC	73-21
Electronic Engine Control Monitor Unit (PW Engines)	EECM	71-EPCS Message Index
Electronic Flight Instrument System	EFIS	34-22
Electronic Propulsion Control System (PW Engines)	EPCS	71-EPCS Message Index
Engine Fire/Overheat Detection System		26-11
Engine Indication and Crew Alerting System Computer	EICAS	31-41

Bite Index  
Figure 1 (Sheet 1)

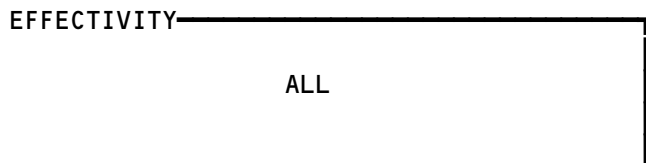


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<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
Engine Turbine Cooling Overheat Detection System (RR Engines)		26-13
Enhanced Ground Proximity Warning Computer	EGPWC	34-46
Flap/Slat Accessory Module	FSAM	27-51
Flap/Slat Electronic Unit	FSEU	27-51
Flight Management Computer	FMC	34-61
Fuel Quantity Indicating System Processor	FQIS	28-41
Ground Proximity Warning Computer	GPWC	34-46
HF (High Frequency) Communication		23-11
Inertial Reference Unit	IRU	34-21
Instrument Comparator Unit	ICU	34-25
Instrument Landing System Receiver	ILS	34-31
Lower Cargo Compartment Smoke Detection System		26-16
Maintenance Control Display Panel	MCDP	22-00
PA (Passenger Address) Amplifier		23-31
Pack Standby Temperature Controller		21-51
Pack Temperature Controller		21-51
Passenger Entertainment System	PES	23-34
Power Supply Module (Control System Electronics Units)	PSM	27-09
Propulsion Discrete Interface Unit (PW Engines)	PDIU	73-21
Proximity Switch Electronics Unit	PSEU	32-09
Radio Altimeter Transmitter/Receiver	RA	34-33
Rudder Ratio Changer Module	RRCM	27-09
Spoiler Control Module	SCM	27-09
Stabilizer Position Module	SPM	27-48
Stabilizer Trim/Elevator Asymmetry Limit Module	SAM	27-09
Stall Warning Computer/Module (in Warning Electronic Unit)	SWC	27-32
Strut Overheat Detection System (RR Engines)		26-12

Bite Index  
Figure 1 (Sheet 2)



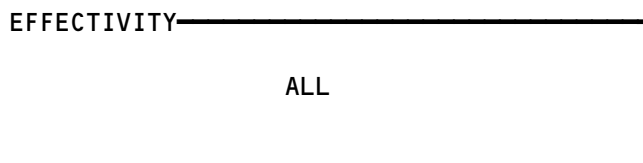
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<u>LRU/System Name</u>	<u>Acronym</u>	<u>FIM Reference</u>
Thrust Management Computer/Autothrottle	TMC	22-00
Traffic Alert and Collision Avoidance Computer	TCAS	34-45
VHF (Very High Frequency) Communication		23-12
VOR/Marker Beacon Receiver	VOR/MKR	34-51
Warning Electronic Unit BITE Module (Stall Warning)	WEU	27-32
Weather Radar Transceiver	WXR	34-43
Wheel Well Fire Detection		26-17
Window Heat Control Unit	WHCU	30-41
Yaw Damper Module	YDM	22-21
Yaw Damper/Stabilizer Trim Module	YSM	27-09
Zone Temperature Controller		21-60

Bite Index  
Figure 1 (Sheet 3)



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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

EFFECTIVITY  
 AIRPLANES WITH THE APU  
 CONTROL UNIT -18 AND BEFORE

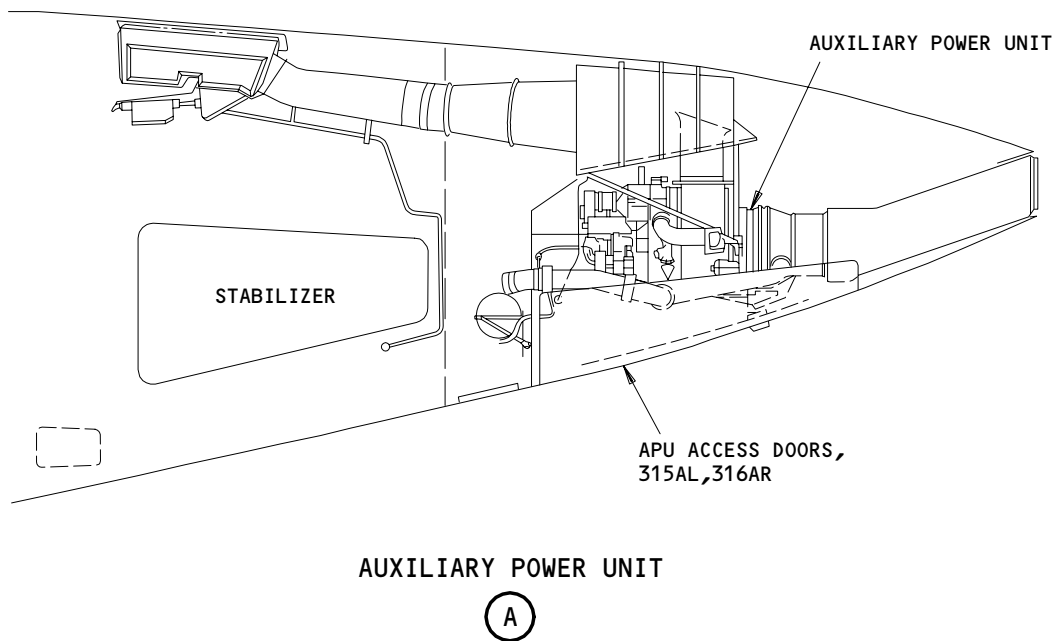
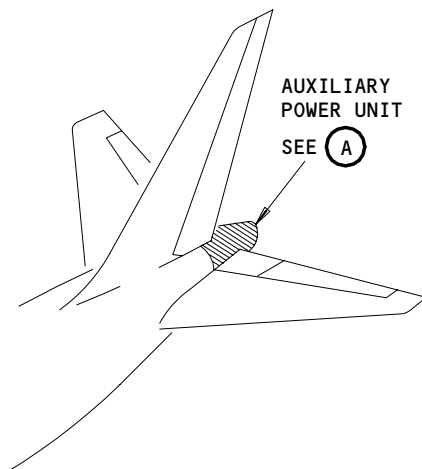
E48312

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Auxiliary Power Unit - Component Location  
Figure 102

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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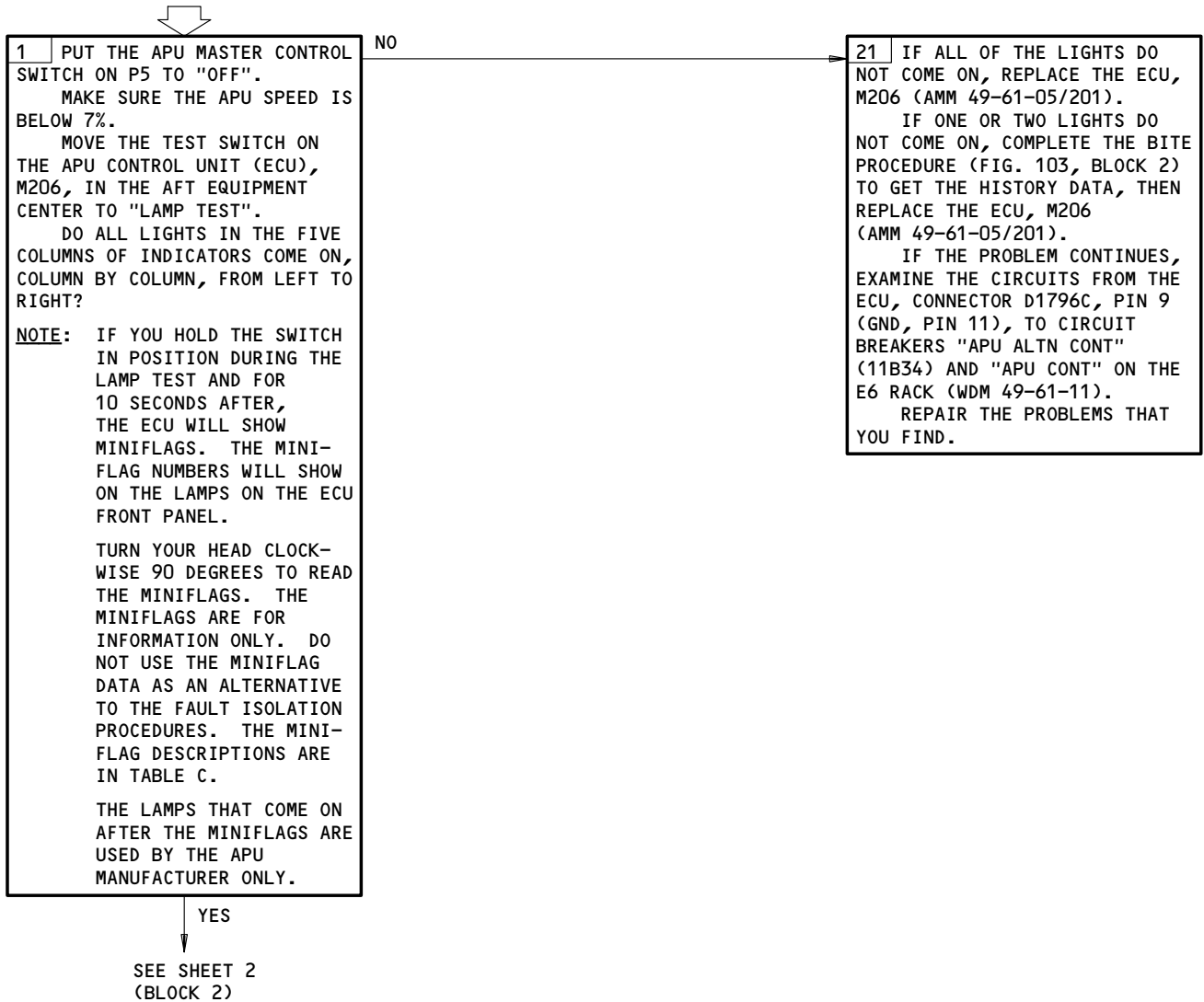
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,APU  
START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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

**APU BITE PROCEDURE**



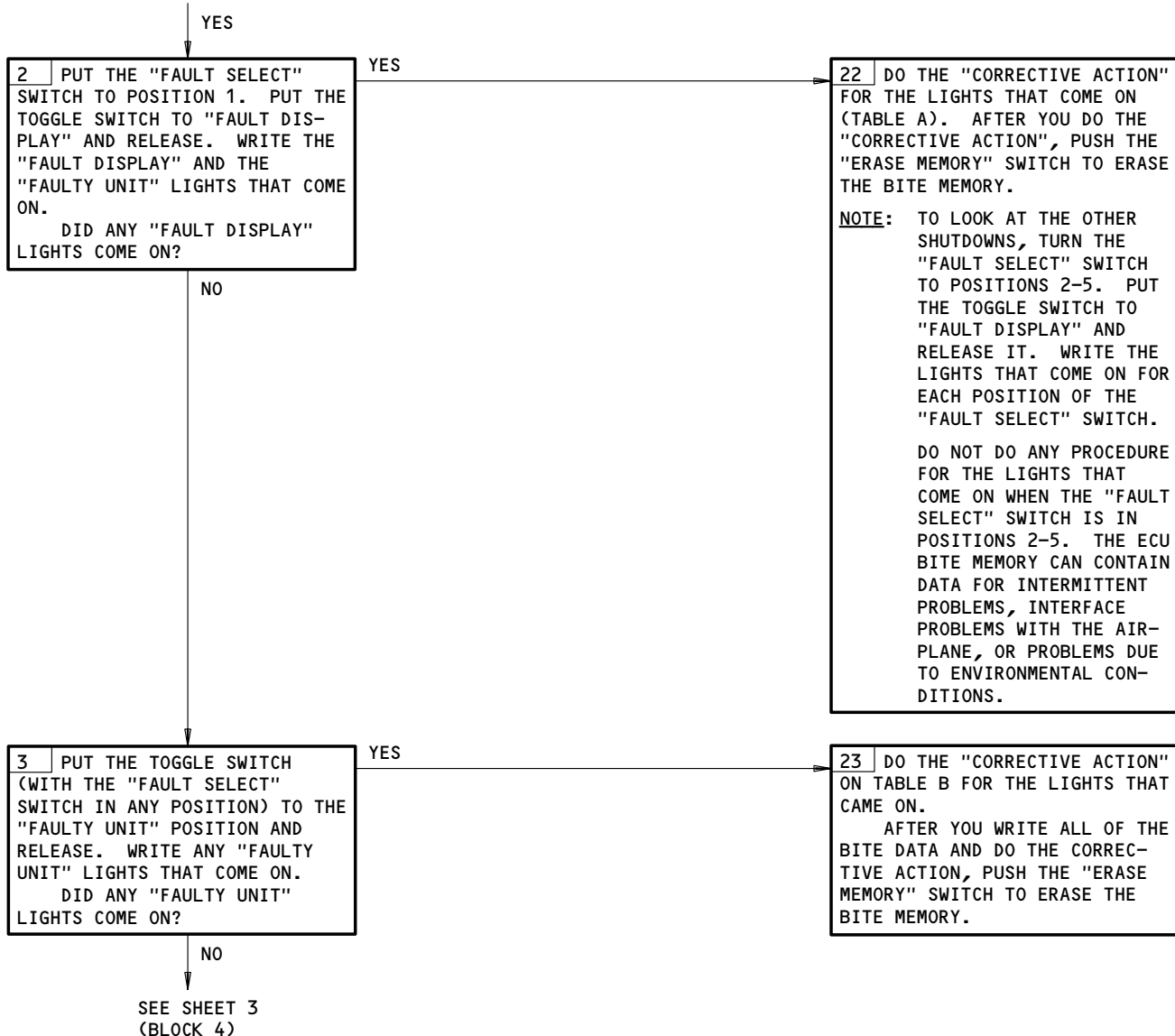
APU BITE Procedure  
Figure 103 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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FROM SHEET 1  
(BLOCK 1)



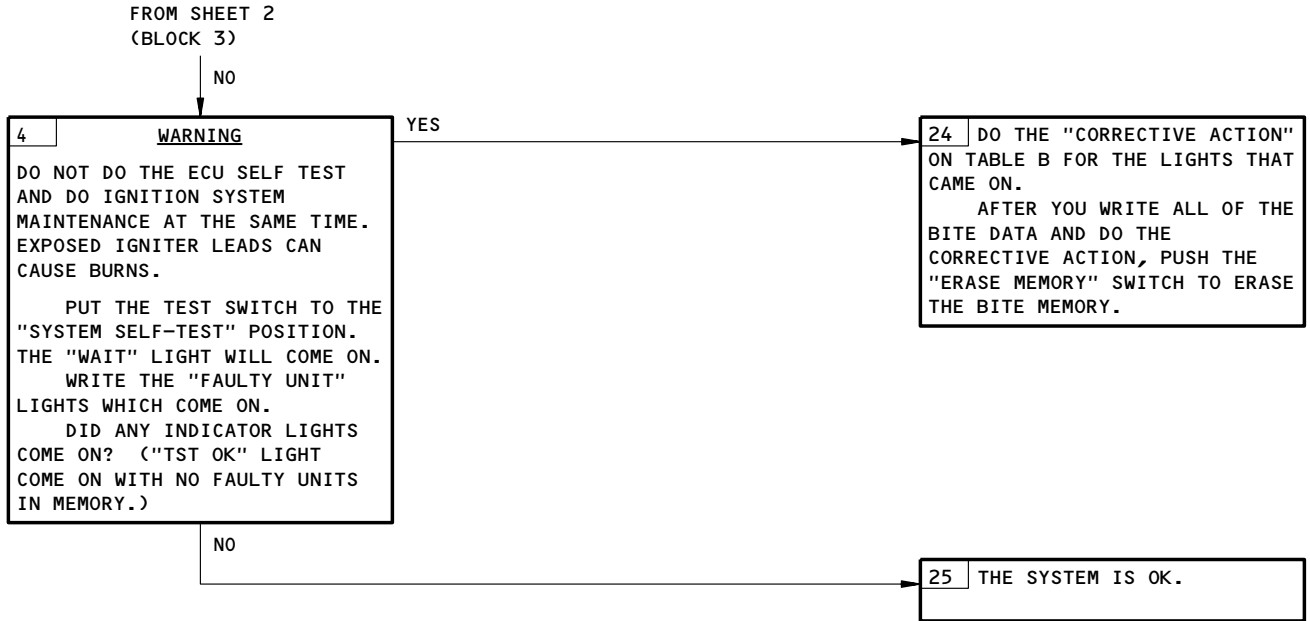
APU BITE Procedure  
Figure 103 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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MESSAGE	CORRECTIVE ACTION
ECU NO ACCEL SLOW START NO FLAME REVERSE FLOW  DC PWR LOSS LOP INLET DOOR S/D CIRCUIT  HOT OVER SPEED GEN FILTER FIRE EMERG  OVER TEMP FAILED SENSOR	REPLACE THE ECU, M206 (AMM 49-61-05/201). FIG. 105. FIG. 106. FIG. 107. FOR AN APU START SHUTDOWN, TIGHTEN THE INLET TEMPERATURE SENSOR FOR THE LOAD COMPRESSOR (LCIT), YBMTS5 CONNECTIONS. IF THE PROBLEM CONTINUES, REPLACE THE SURGE VALVE, YBMM5 (AMM 49-53-01/401). FOR AN APU GOVERNED SPEED SHUTDOWN, DO THIS PROCEDURE: AUTO SHUTDOWN DURING GOVERNED SPEED - "REVERSE FLOW" ON BITE (FIG. 108). FIG. 104, BLOCK 22. FIG. 109. FIG. 104, BLOCK 23. REPLACE THE ECU, M206 (AMM 49-61-05/201). IF THE PROBLEM CONTINUES, REPLACE THE FUEL CONTROL UNIT, YBMM4 (AMM 49-31-01/401). FIG. 110. FIG. 111. FIG. 112. 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). FIG. 113. FIG. 114.

FAULT DISPLAY REFERENCE  
TABLE A







APU BITE Procedure  
Figure 103 (Sheet 3)

EFFECTIVITY  
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
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MESSAGE	CORRECTIVE ACTION	IF PROBLEM CONTINUES
LCIT SENSOR	REPLACE THE LCIT SENSOR, YBMTS5 (AMM 49-61-03/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS E6 AND E7, TO THE INLET TEMPERATURE SENSOR (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
FUEL SOL	REPLACE THE FUEL SOLENOID VALVE, YBMV1 (AMM 49-31-02/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS F6 AND F7, TO THE VALVE CONNECTOR, PINS 1,2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
PT SENSOR	REPLACE THE FLOW SENSING MODULE (AMM 49-53-08/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS A1,A2,A3, AND A4, TO THE PT TRANSDUCER CONNECTOR, PINS 1,2,3, AND 4 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
ΔP SENSOR	REPLACE THE FLOW SENSING MODULE (AMM 49-53-08/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS A1,A2,B3, AND B4, TO THE ΔP TRANSDUCER CONNECTOR, PINS 1,2,3, AND 4 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
NO. 1 SPD SENSOR	REPLACE THE RIGHT MONOPOLE, YBMTS8 (AMM 49-61-02/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS A10 AND A11, TO THE MONOPOLE CONNECTOR, PINS 1,2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
NO. 2 SPD SENSOR	REPLACE THE LEFT MONOPOLE, YBMTS9 (AMM 49-61-02/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS B5 AND B6, TO THE MONOPOLE CONNECTOR, PINS 1 AND 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
LOP SWITCH	REPLACE THE LOP SWITCH, YBMS2 (AMM 49-94-02/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PIN C5, TO THE LOP SWITCH CONNECTOR, PIN 1. EXAMINE THE CIRCUIT FROM THE LOP SWITCH CONNECTOR, PIN 2, TO GROUND (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
FUEL CONTROL	REPLACE THE FUEL CONTROL UNIT (THE TORQUE MOTOR, YBMM4, HAS A PROBLEM) (AMM 49-31-01/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS H10 AND H11, TO THE TORQUE MOTOR CONNECTOR, PINS 1 AND 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
SURGE VALVE	REPLACE THE SURGE VALVE, YBMM5 (AMM 49-53-01/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS G6 AND G7, TO THE TORQUE MOTOR CONNECTOR, PINS 1 AND 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
NO. 1 T/C RAKE	REPLACE THE LEFT SIDE THERMOCOUPLES, YBMTS6 (AMM 49-71-01/201). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS A6 AND A7, TO THE THERMOCOUPLE RAKE NO. 1 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
NO. 2 T/C RAKE	REPLACE THE RIGHT SIDE THERMOCOUPLES, YBMTS7 (AMM 49-71-01/201). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS A8 AND A9, TO THE THERMOCOUPLE RAKE NO. 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.

FAULTY UNIT REFERENCE  
TABLE B

 ERASE THE "APU BITE" MESSAGE IF IT SHOWS (FIM 31-41-00/101, FIG. 109).





APU BITE Procedure  
Figure 103 (Sheet 4)

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MESSAGE	CORRECTIVE ACTION	IF PROBLEM CONTINUES
IGV ACT	REPLACE THE IGV ACTUATOR, YBMM6 (AMM 49-52-02/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS G8,G9,F9,F10,F11, AND F8, TO THE ACTUATOR CONNECTOR, PINS 1,2,3, 4,5, AND 6 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
IGN UNIT	REPLACE THE IGNITION UNIT, YBMM1 (AMM 49-41-03/401).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796C, PINS 4 AND 6, TO THE IGNITION UNIT CONNECTOR, PINS 1 AND 2 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
DEOIL SOL	REPLACE THE DEOIL SOLENOID VALVE, YBMM3 (AMM 49-27-08/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS J4 AND J5, TO THE SOLENOID CONNECTOR, PINS 1 AND 2. EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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 D1796B, 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).	
APU STARTER	REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/201).	
STARTER CIRCUIT	SEE FIG. 106A.	
HOT SENSOR	REPLACE THE OIL TEMPERATURE (HOT) SENSOR, YBMTS1 (AMM 49-94-01/401). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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	REPLACE THE INLET PRESSURE (P2) SENSOR, YBMTS4 (AMM 49-61-04/201). 	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PINS A1,A2,C8, AND C9, TO THE P2 SENSOR CONNECTOR, PINS 1,2,3, AND 4 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.
ECU	REPLACE THE APU CONTROL UNIT (ECU), M206 (AMM 49-61-05/201).	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, PIN J10, TO THE OIL TEMP SWITCH, YBMS5, CONNECTOR, PIN 1 (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.

FAULTY UNIT REFERENCE  
TABLE B

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Figure 103 (Sheet 5)

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MESSAGE	CORRECTIVE ACTION	IF PROBLEM CONTINUES
FAN VALVE	<p>APU WITHOUT THE FAN ISOLATION VALVE (POST-ALLIEDSIGNAL-SB 49-7391); IGNORE THIS MESSAGE, IT IS A NUISANCE MESSAGE. 1</p> <p>APU WITH THE FAN ISOLATION VALVE (PRE-ALLIEDSIGNAL-SB 49-7391); REPLACE THE FAN ISOLATION VALVE, YBMS4 (AMM 49-51-02/401). 1</p>	<p>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. 1</p> <p>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. 1</p> <p>IF THE PROBLEM CONTINUES, REPLACE THE SURGE CONTROL VALVE FILTER (AMM 49-53-06/201).</p> <p>EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D408B, PIN B10, TO THE FAN VALVE SWITCH CONNECTOR, PIN 1.</p> <p>EXAMINE THE CIRCUIT FROM THE SWITCH CONNECTOR, PIN 2, TO GROUND (WDM 49-14-11). REPAIR THE PROBLEMS THAT YOU FIND.</p> <p>IF THERE WAS A HEAT PROBLEM, EXAMINE THE FAN INLET DUCT FOR DAMAGE. REPAIR THE PROBLEMS THAT YOU FIND.</p>
FILTER SWITCH	<p>REPLACE THE GENERATOR ΔP SWITCH, YBMS1 (AMM 49-27-15/401). 1</p>	<p>EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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.</p>
A/C RELAY	<p>REPLACE RELAY, K175 (WDM 49-61-11).</p>	<p>REPLACE RELAY, K176 (WDM 49-61-11).</p>

FAULTY UNIT REFERENCE  
TABLE B

APU BITE Procedure  
Figure 103 (Sheet 6)

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**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.
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.
15	FAILED DIFFERENTIAL PRESSURE SENSOR/CIRCUIT. THE DP VALUE IS OUT OF ITS NORMAL OPERATING RANGE.
16	FAILED AMBIENT PRESSURE (P2) SENSOR/CIRCUIT. THE P2 VALUE IS OUT OF ITS NORMAL OPERATING RANGE.
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.
22	CLOGGED GENERATOR FILTER.
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.
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

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Figure 103 (Sheet 7)

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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 30 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 SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER WAS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
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 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, 29-33,39,44,45,46,65,83-89,92-100,105,107,112,116-119,121-124 OR 128. IT CAN ALSO BE SET BY MINIFLAGS 36,37, OR 38.
65	ECU HI-WINS SPEED CIRCUIT FAILURE. INTERNAL ECU FAILURE WAS FOUND.
75	AIRPLANE MAINTENANCE LAMP CIRCUIT OVERCURRENT
76	AIRPLANE BLEED AIR RELAY OVERCURRENT
77	AIRPLANE GENERATOR AVAILABLE RELAY OVERCURRENT
78	AIRPLANE FAULT RELAY OVERCURRENT

ECU MINIFLAG DESCRIPTION  
TABLE C

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NUMBER	DESCRIPTION
80	LOP LAMP OVERCURRENT
81	HOT LAMP OVERCURRENT
83	ECU LCIT CONDITIONER FAILED. INTERNAL ECU FAILURE WAS FOUND.
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.
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.
102	FAILED FUEL D/A CONVERTER. INTERNAL ECU FAILURE WAS FOUND.
103	FAILED IGV D/A CONVERTER. INTERNAL ECU FAILURE WAS FOUND.
104	FAILED SCV D/A CONVERTER. INTERNAL ECU FAILURE WAS FOUND.
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.
109	FAILED FUEL TORQUE MOTOR DRIVER WRAP AROUND. INTERNAL ECU FAILURE WAS FOUND.
110	FAILED IGV ACTUATOR DRIVER WRAP AROUND. INTERNAL ECU FAILURE WAS FOUND.
111	FAILED SCV TORQUE MOTOR DRIVER WRAP AROUND. INTERNAL ECU FAILURE WAS FOUND.
112	ECU MAGNETIC RELAY FAILED. THE ECU MAGNETIC LATCH WAS FOUND FAILED DURING SHUTDOWN.
114	FAILED STOP TIMER (N > 7% 120 SECONDS AFTER STOP OR 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.

ECU MINIFLAG DESCRIPTION  
TABLE C

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NUMBER	DESCRIPTION
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.
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.
	APU CONTROL UNIT -18 AND BEFORE; THERE ARE NO DIAGNOSTIC MINIFLAGS THAT ARE ACTIVE DURING APU OPERATION.

ECU MINIFLAG DESCRIPTION  
TABLE C

APU BITE Procedure  
Figure 103 (Sheet 10)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

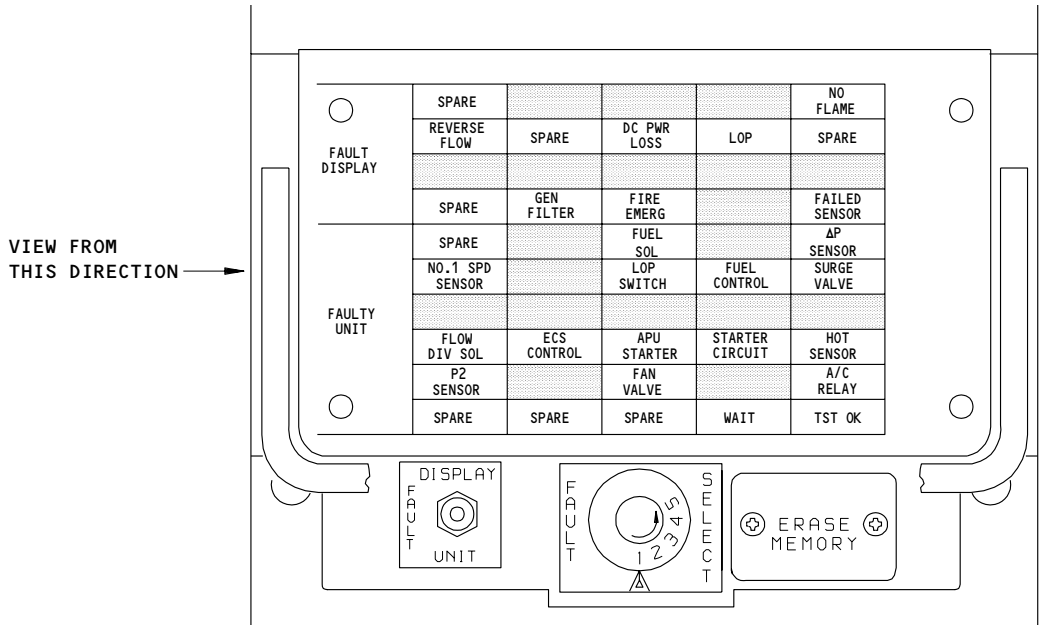
F55473

49-11-00

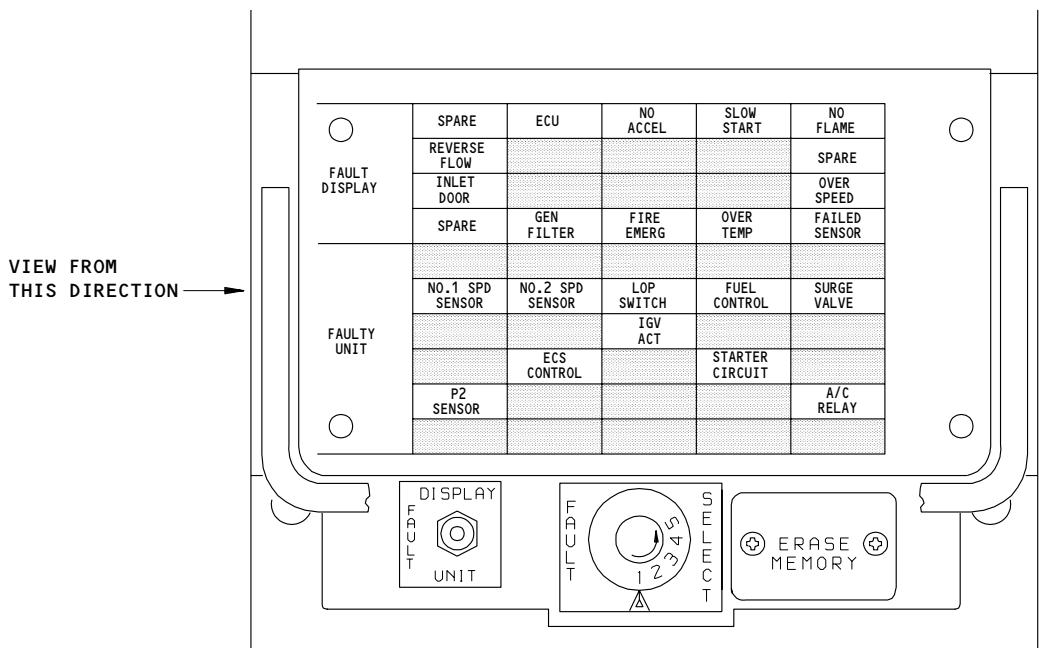
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FAULT ISOLATION/MAINT MANUAL



**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  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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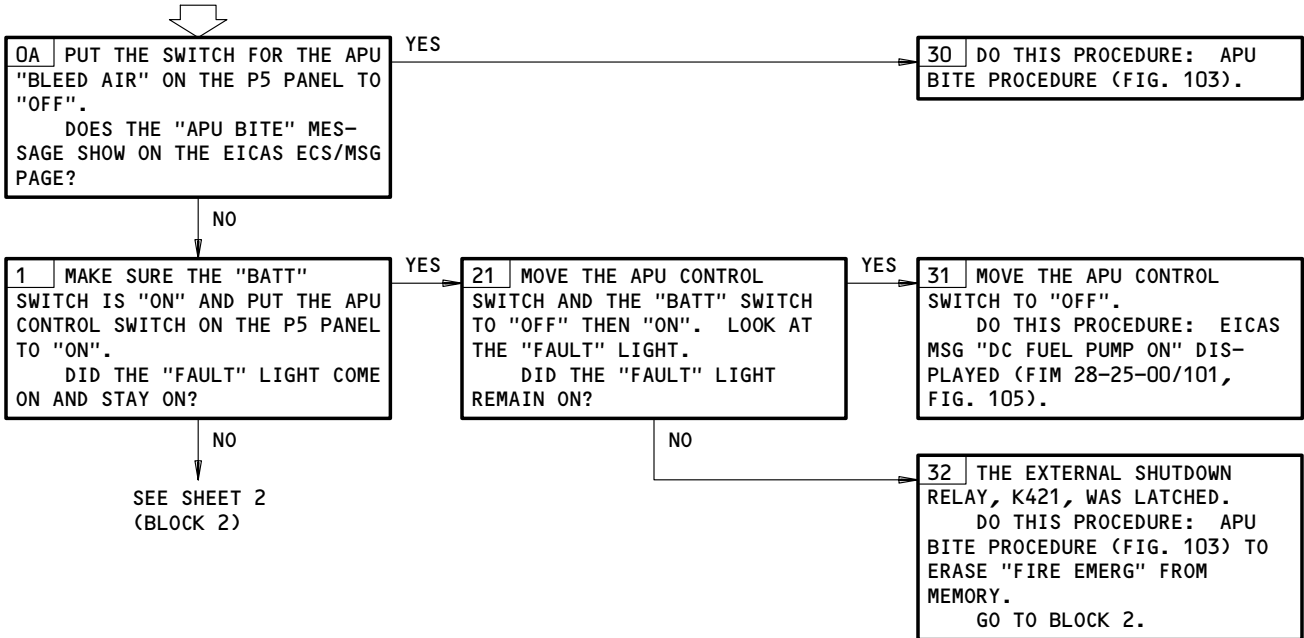
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

**APU STARTING PROBLEMS**



- 1 ▷ WHEN YOU START THE APU, LOOK AT THE APU BATTERY VOLTAGE AND THE CURRENT ON THE EICAS "ELEC/HYD" DISPLAY. LOOK AT THE APU RPM AND THE EGT ON THE EICAS "PERF/APU" DISPLAY.
- 2 ▷ PUSH THE "ECS/MSG" SWITCH ON THE EICAS PANEL, P61, AND MAKE SURE "APU DOOR" MESSAGE DOES NOT SHOW.

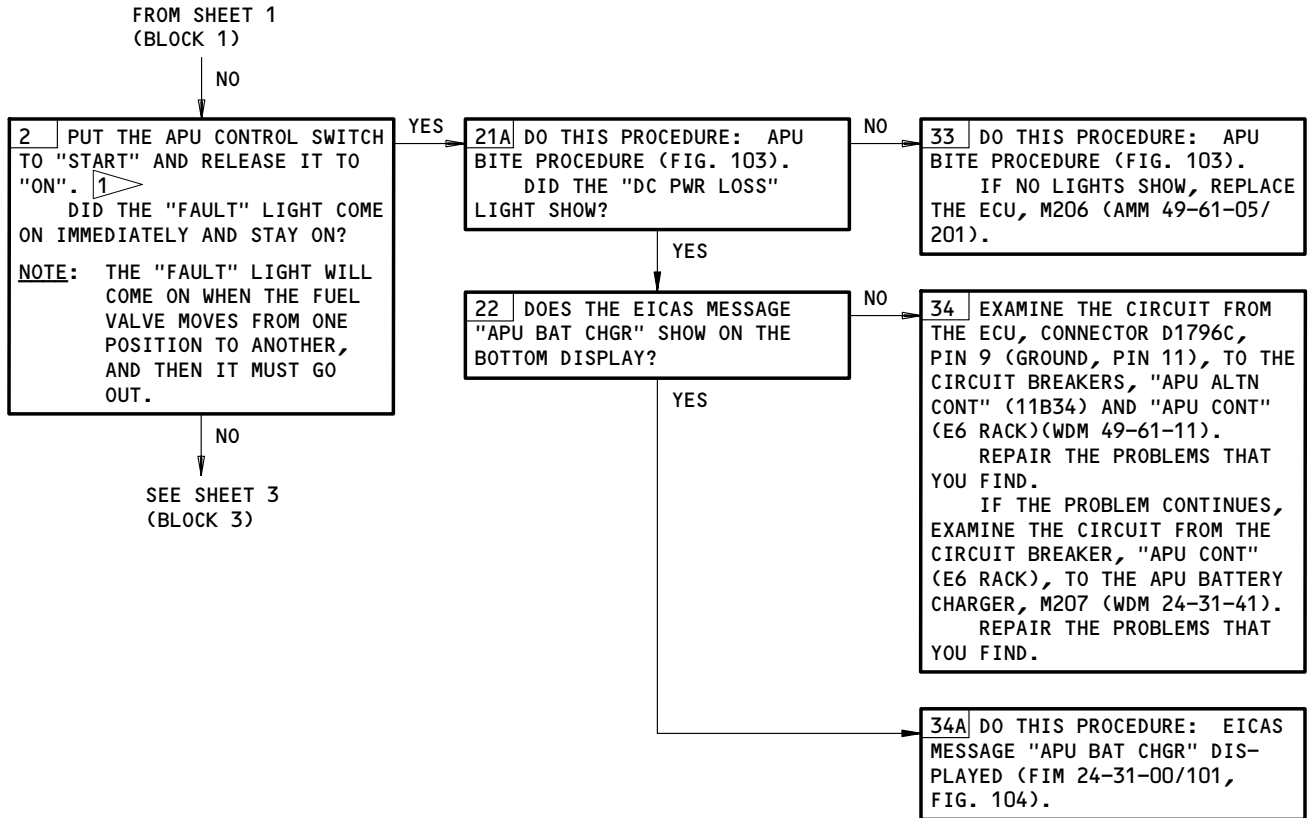
APU Starting Problems  
Figure 104 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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APU Starting Problems  
Figure 104 (Sheet 2)

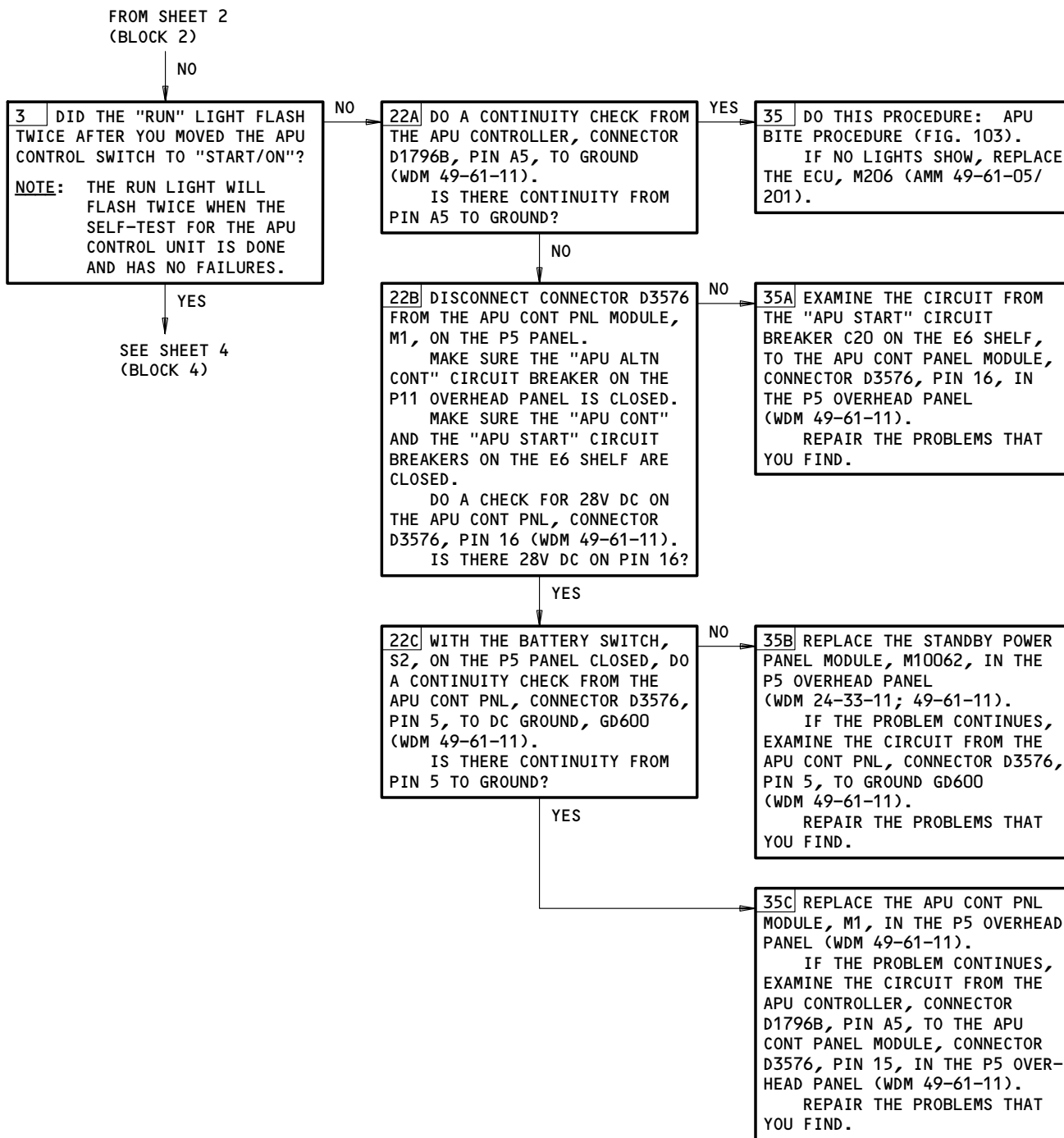
EFFECTIVITY  
 AIRPLANES WITH THE APU  
 CONTROL UNIT -18 AND BEFORE

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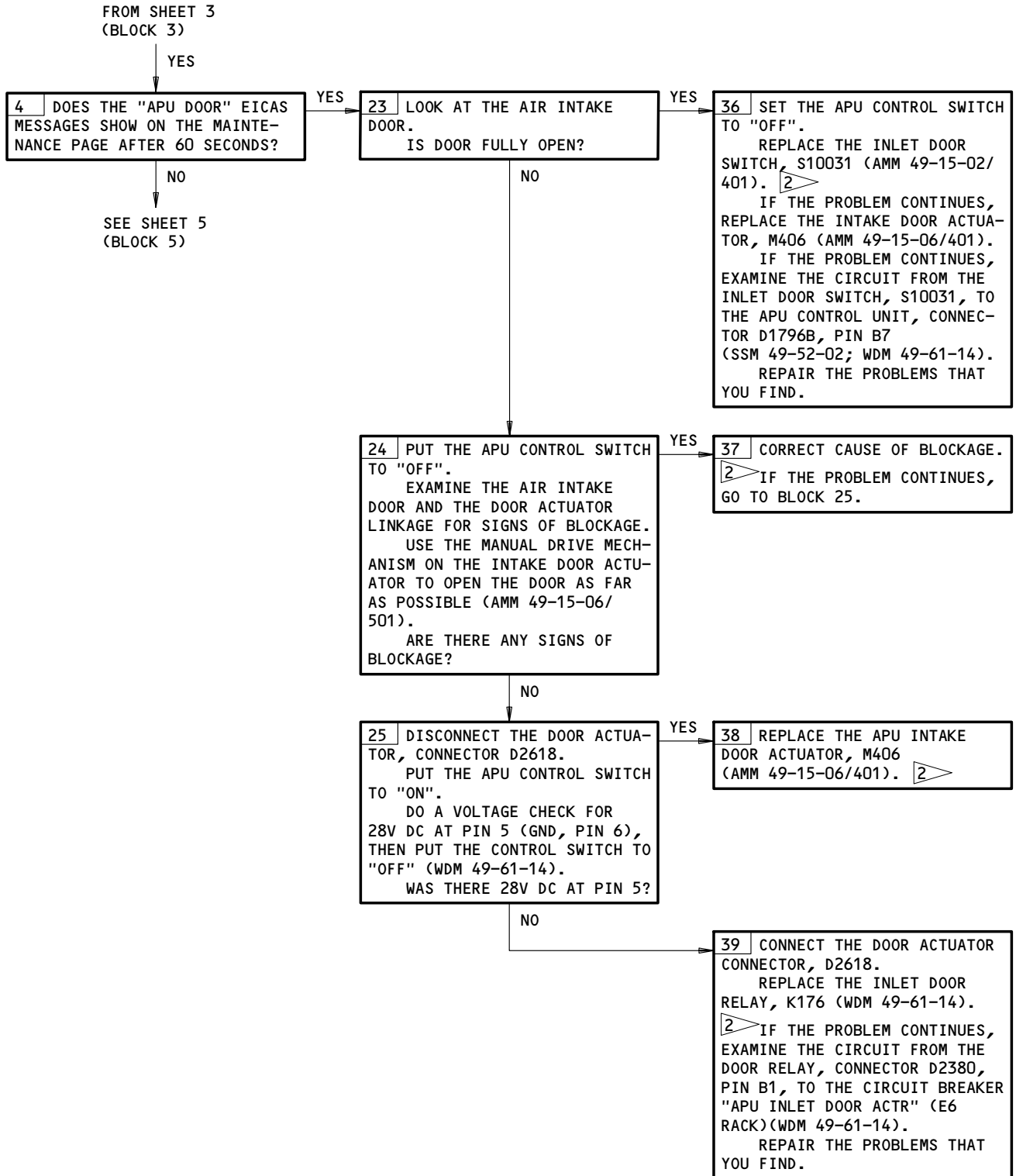
APU Starting Problems  
Figure 104 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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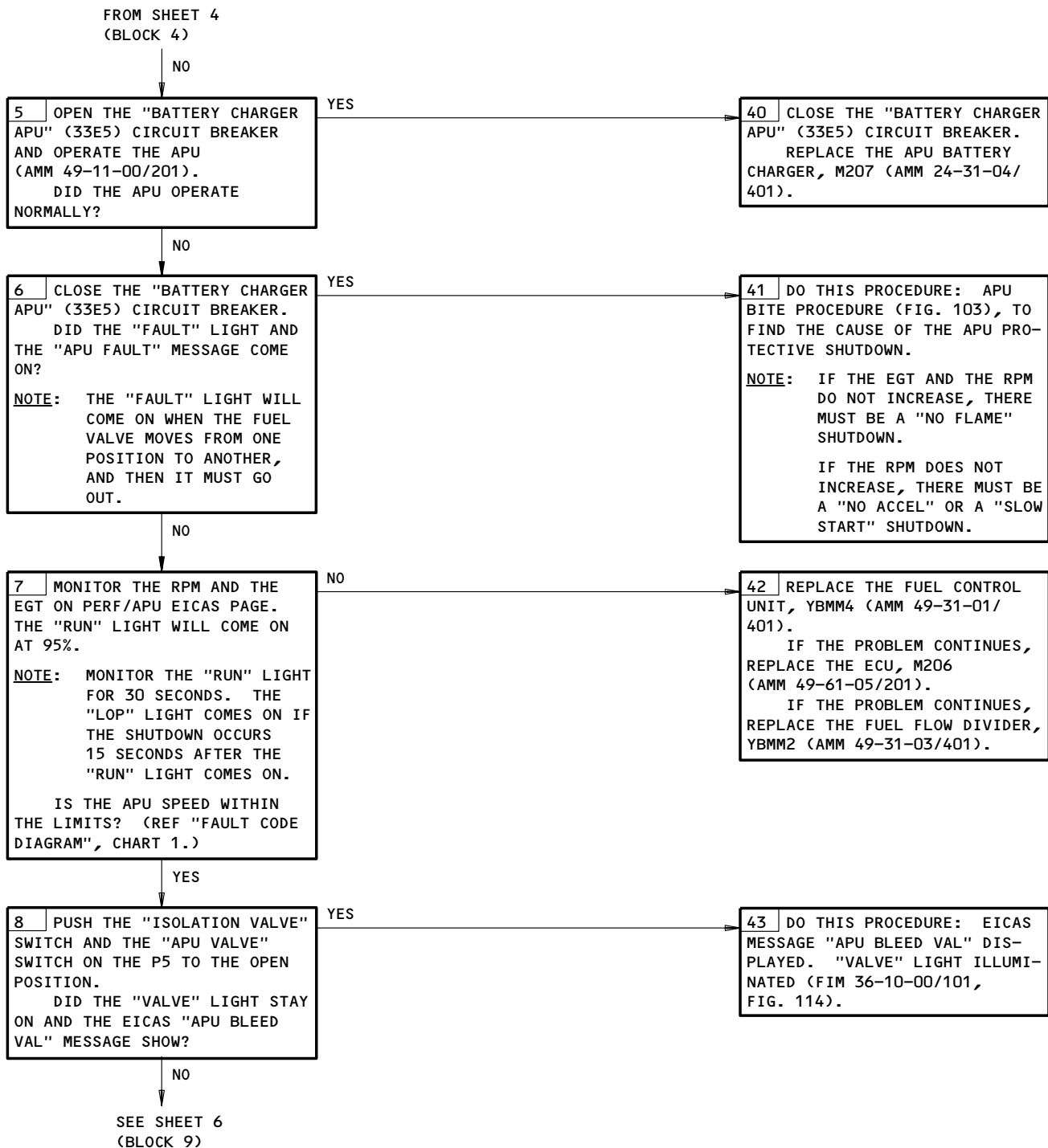


APU Starting Problems  
Figure 104 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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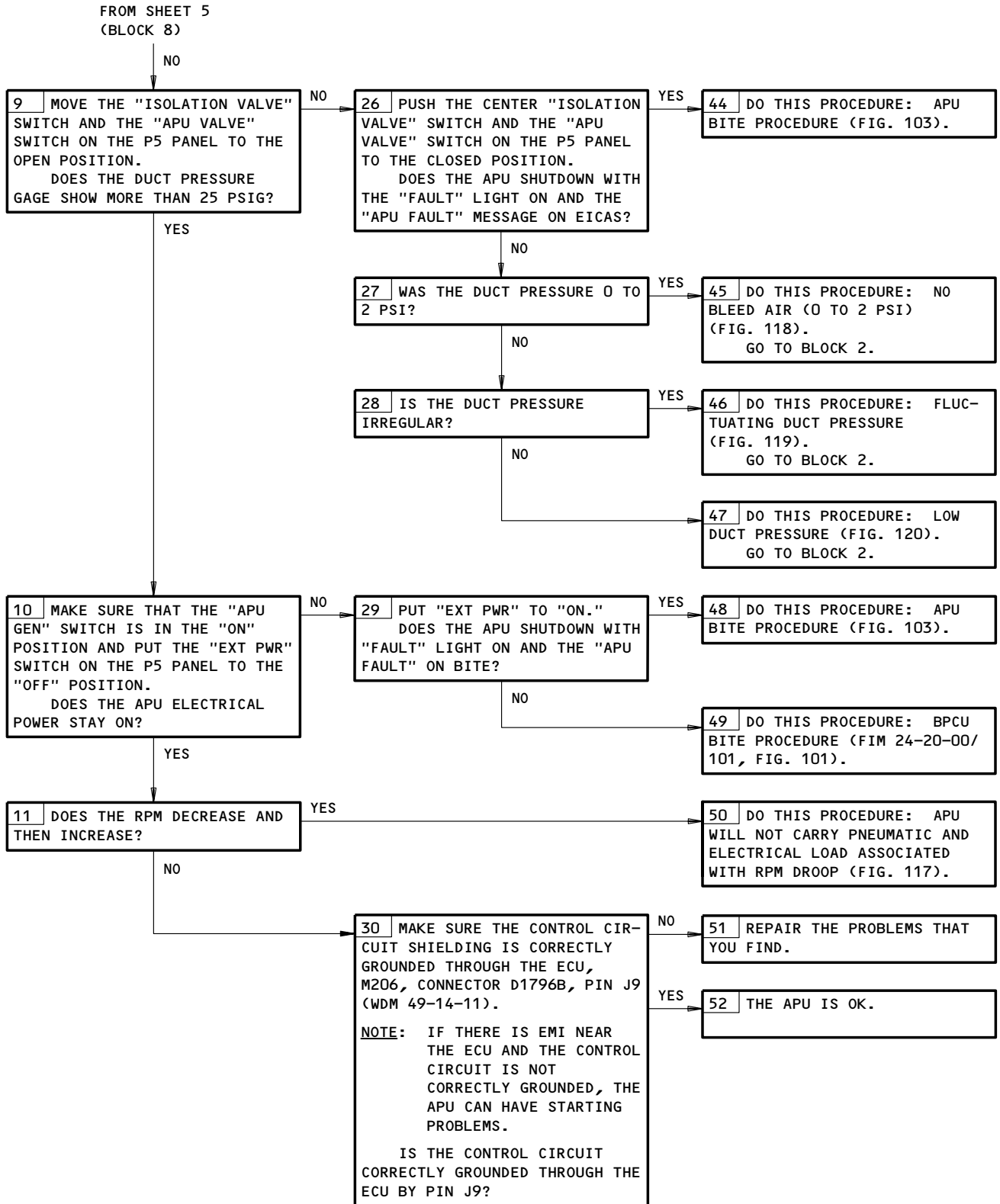
APU Starting Problems  
Figure 104 (Sheet 5)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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APU Starting Problems  
Figure 104 (Sheet 6)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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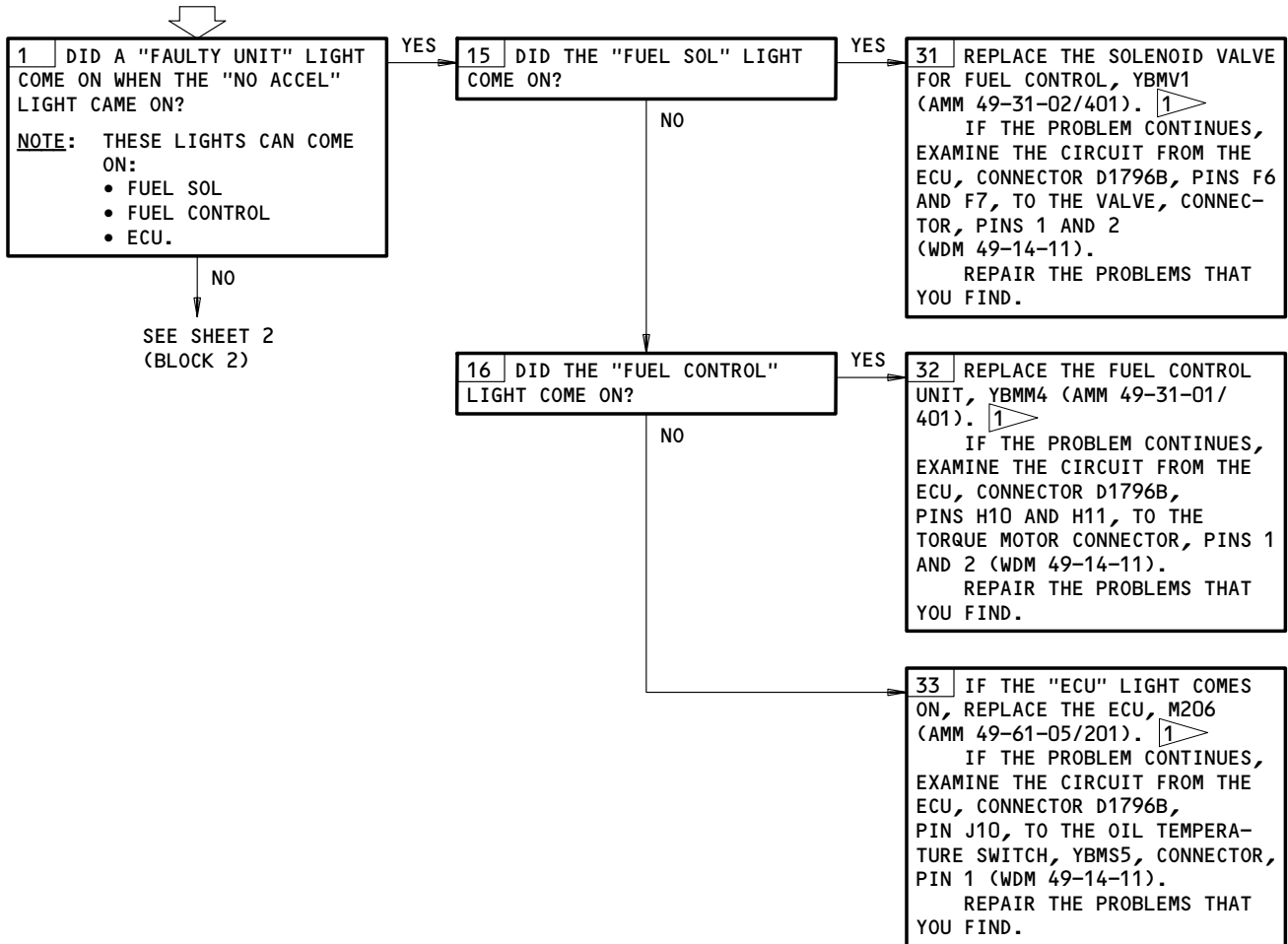
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D34,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

**AUTO SHUTDOWN -  
"NO ACCEL" 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> IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/201), AND THE APU STARTER CLUTCH (AMM 49-41-06/201).

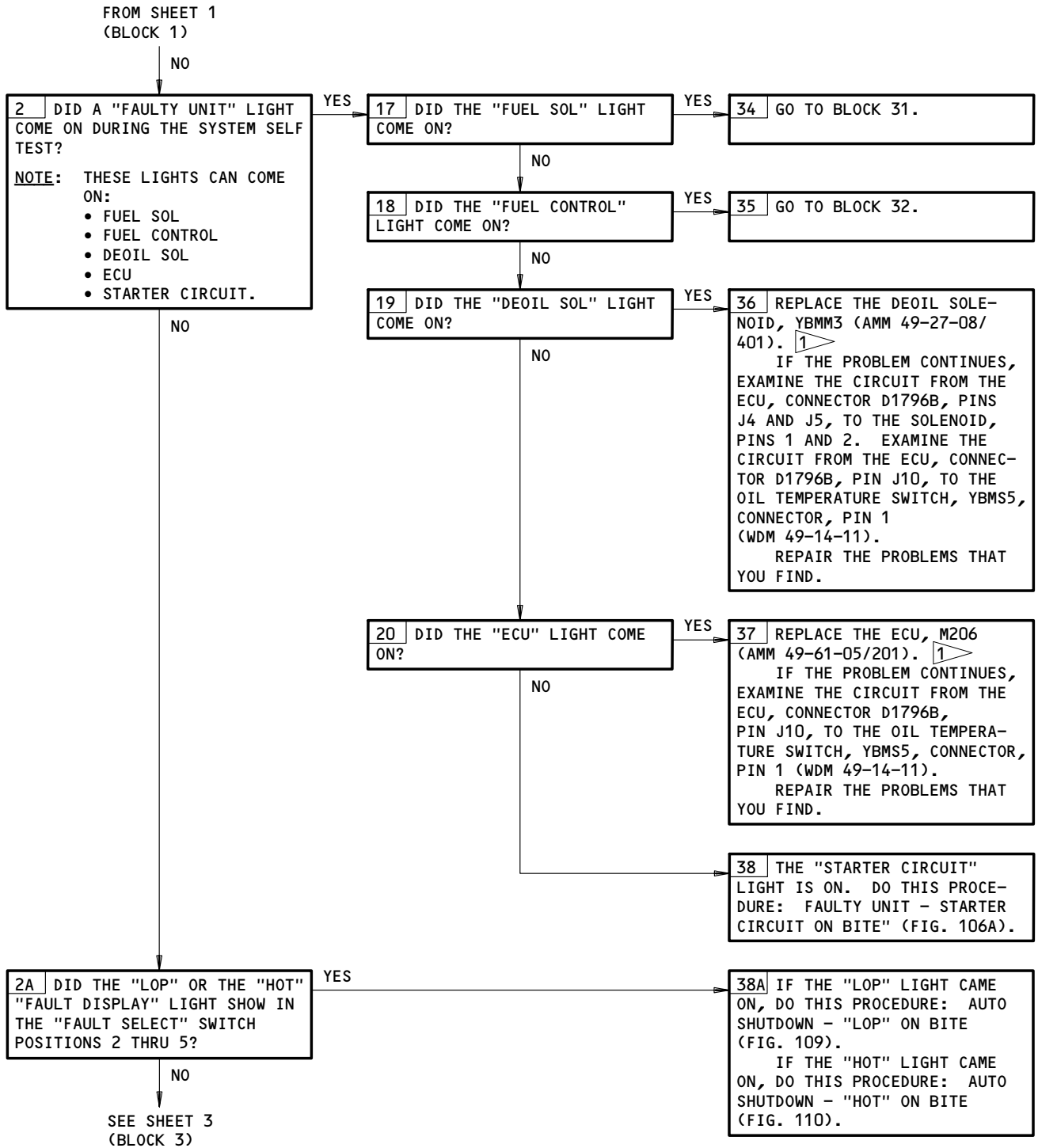
Auto Shutdown - NO ACCEL on BITE  
Figure 105 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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**BOEING**  
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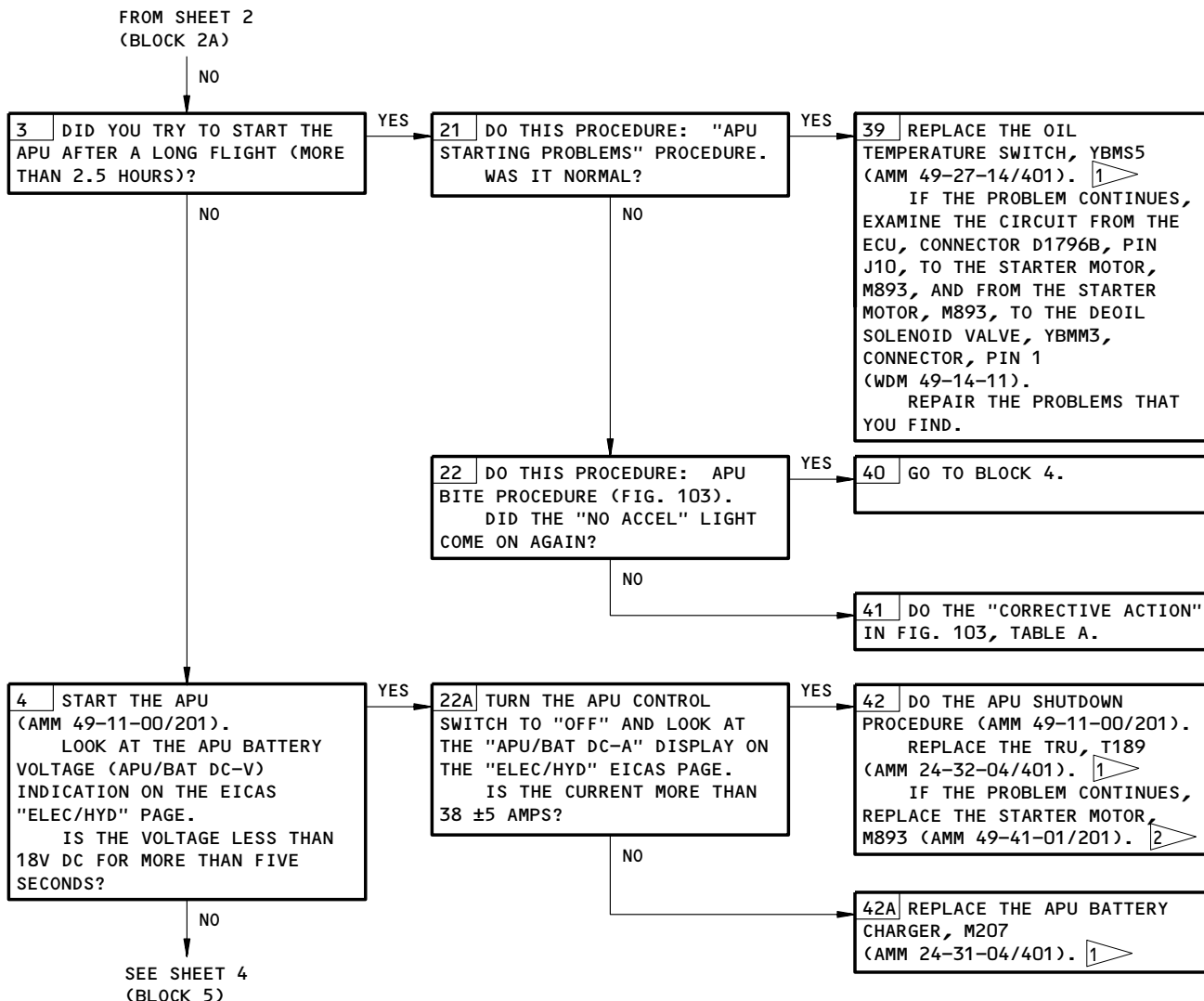
Auto Shutdown - NO ACCEL on BITE  
Figure 105 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

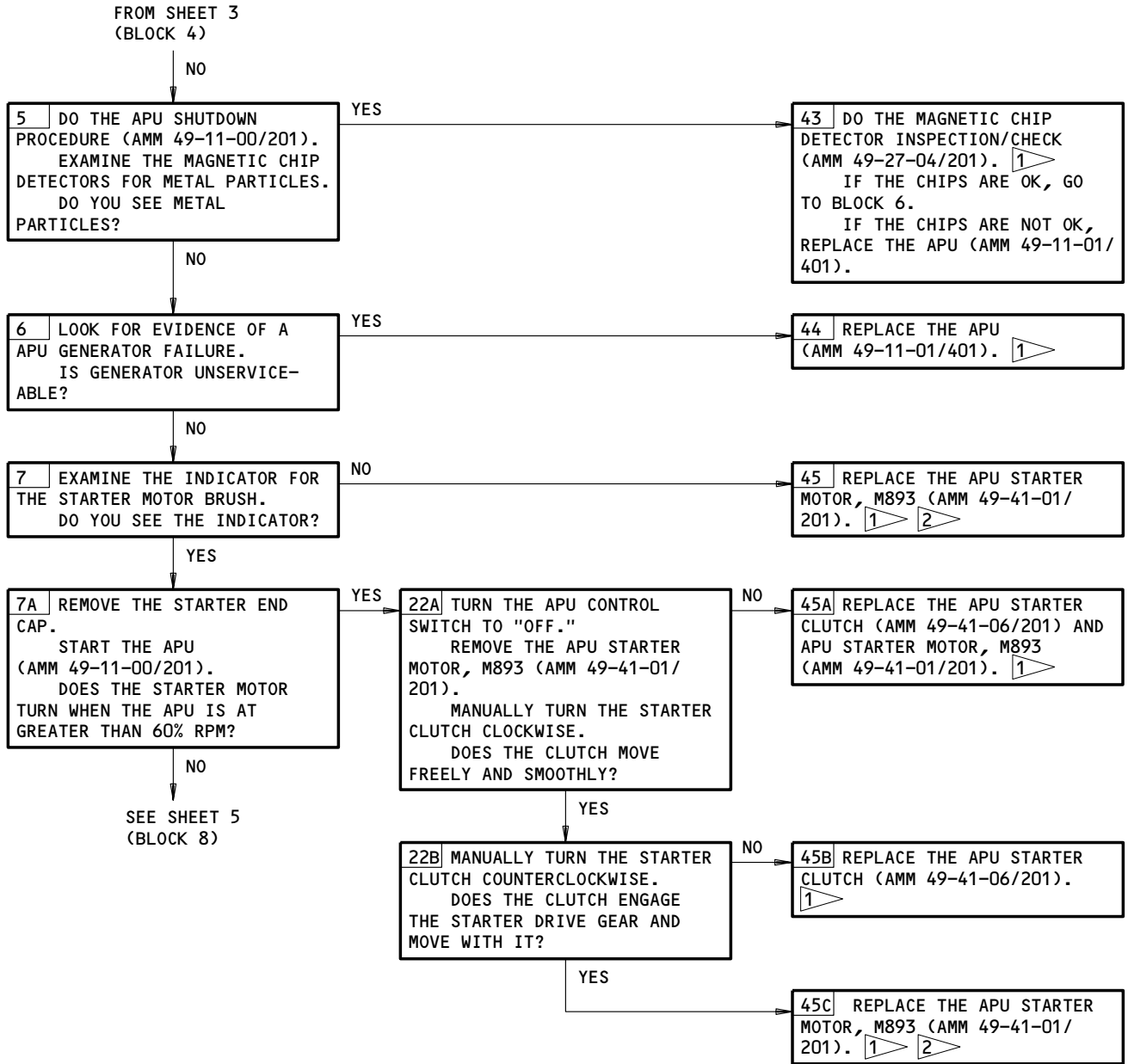


Auto Shutdown - NO ACCEL on BITE  
Figure 105 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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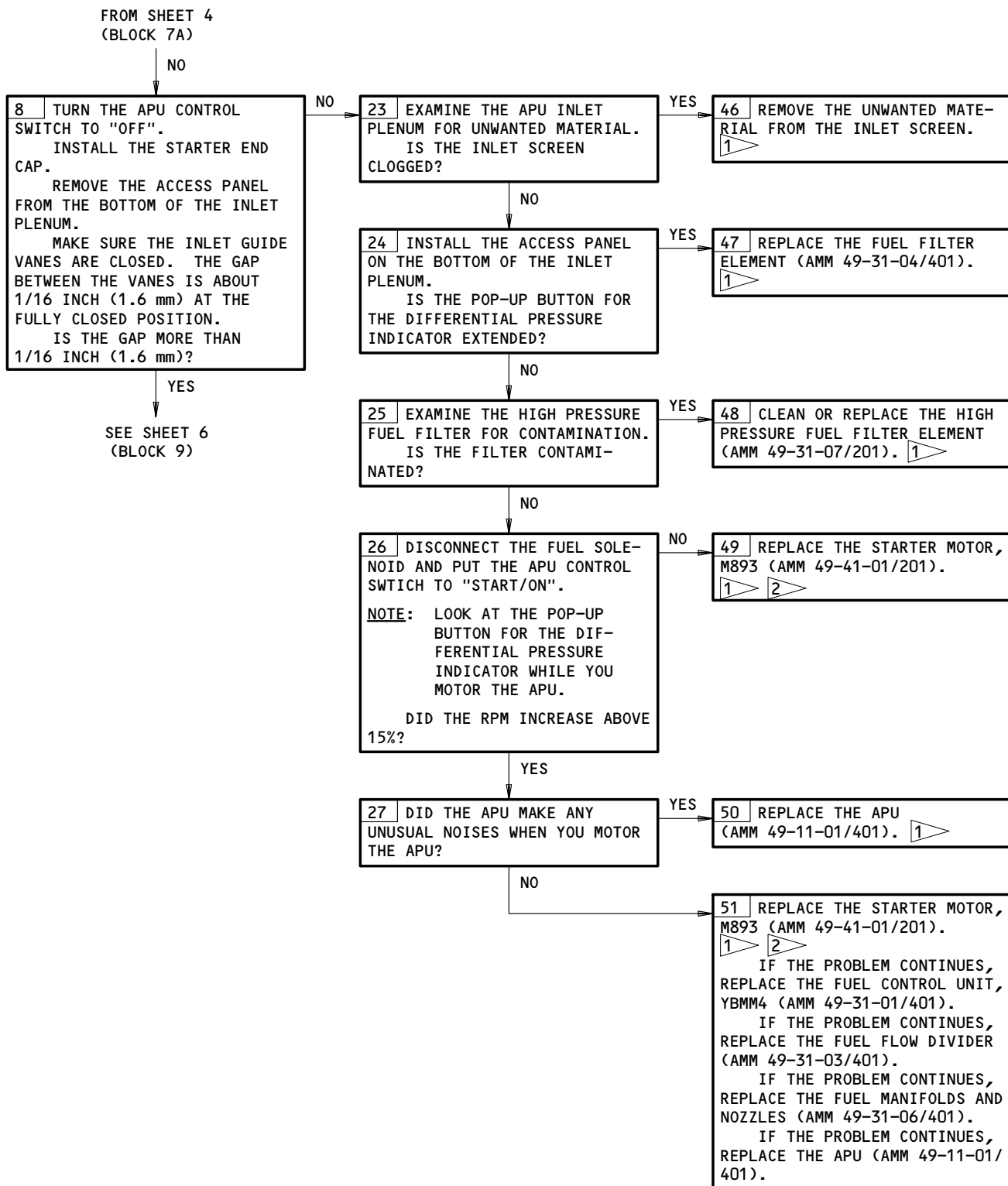
Auto Shutdown - NO ACCEL on BITE  
Figure 105 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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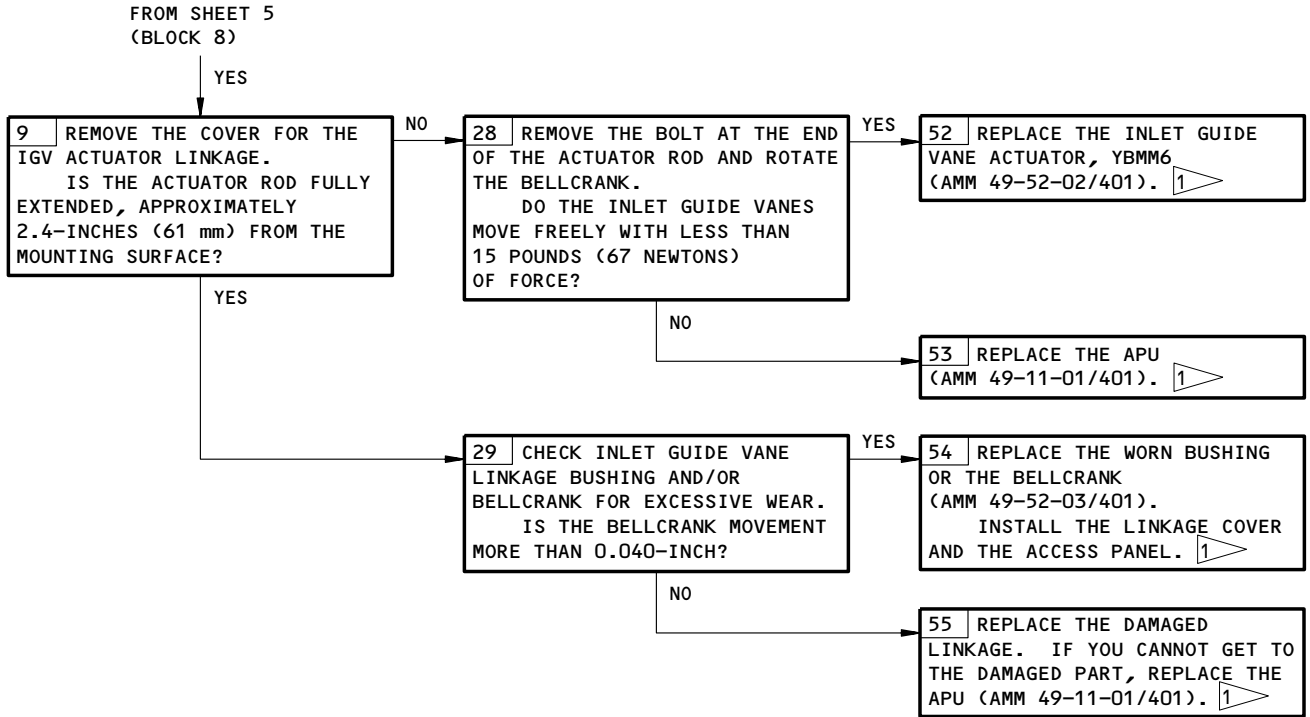


Auto Shutdown - NO ACCEL on BITE  
Figure 105 (Sheet 5)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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Auto Shutdown - NO ACCEL on BITE  
Figure 105 (Sheet 6)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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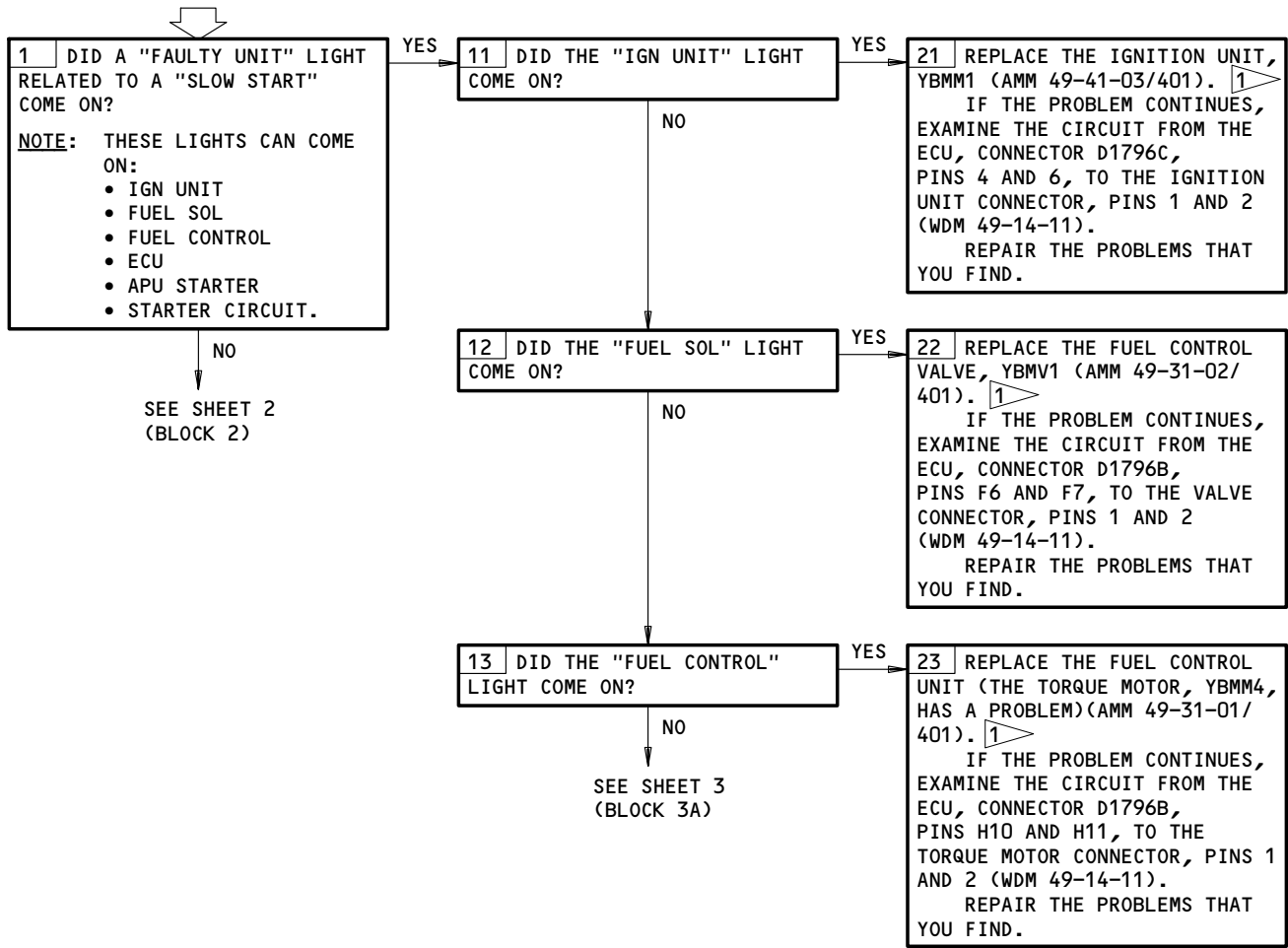
**AUTO SHUTDOWN –  
"SLOW START" ON  
BITE 3**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER  
E6)

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



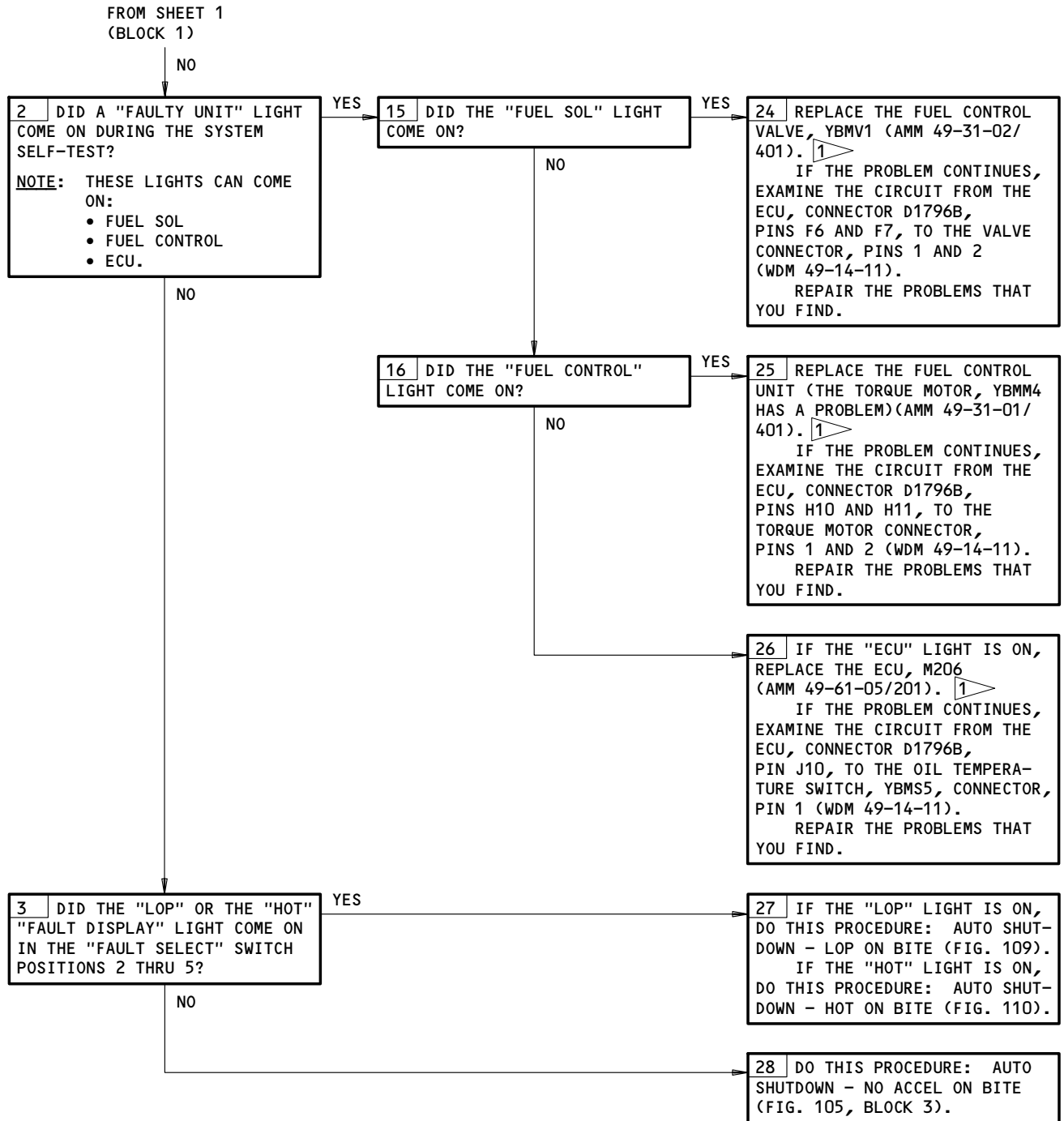
- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF-APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 IF TWO APU STARTER MOTORS ARE REPLACED IN LESS THAN 30 DAYS, REPLACE THE APU STARTER MOTOR, M893 (AMM 49-41-01/201), AND THE APU STARTER CLUTCH (AMM 49-41-06/201).
- 3 IF THE SLOW START CONTINUES, THE PROBLEM MAY BE AN APU LOW OUTPUT DEFECT. EXAMINE THE TRU FOR SIGNS THAT IT HAS BECOME TOO HOT.

Auto Shutdown – SLOW START on BITE 3  
Figure 106 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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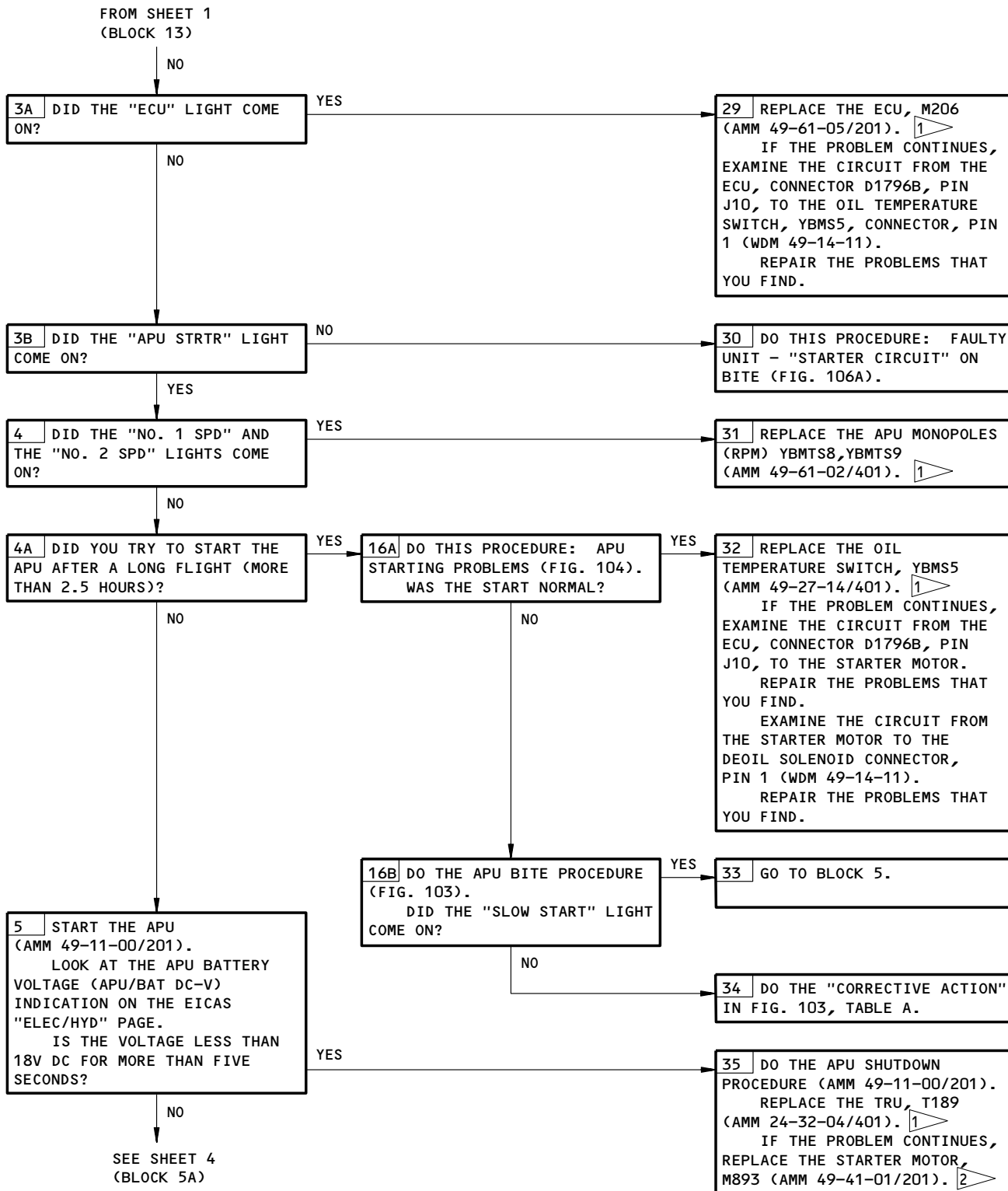


Auto Shutdown - SLOW START on BITE  
Figure 106 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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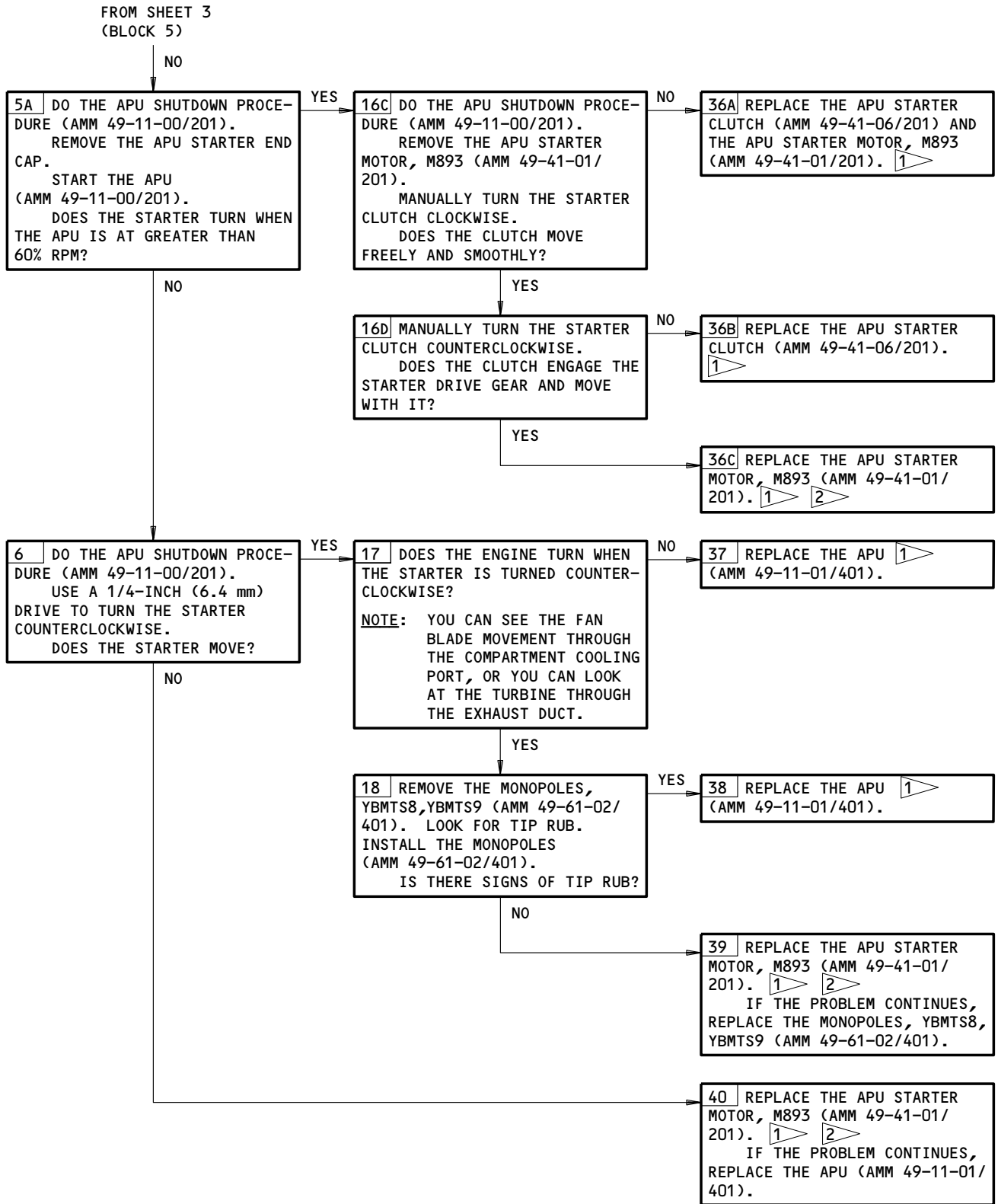
Auto Shutdown - SLOW START on BITE  
Figure 106 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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Auto Shutdown - SLOW START on BITE  
Figure 106 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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**PREREQUISITES**

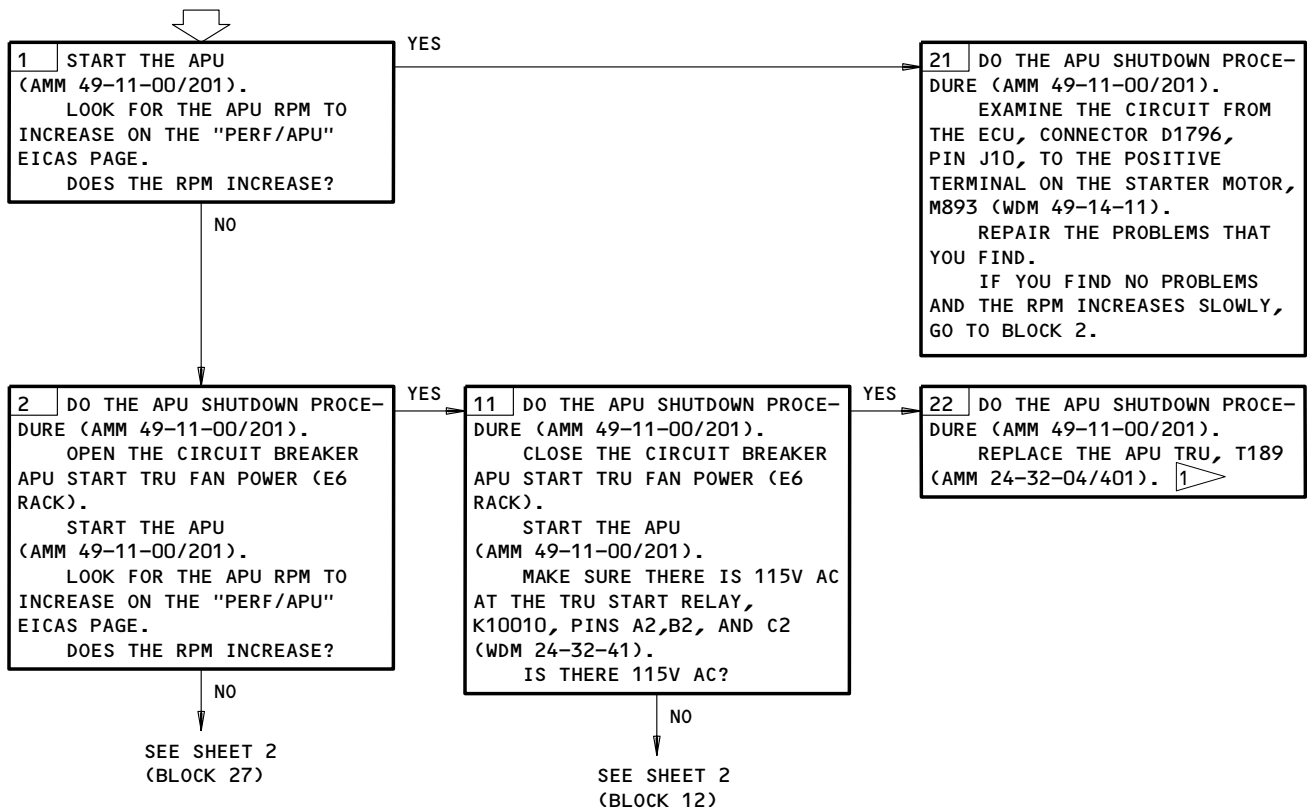
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,APU  
START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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 INSTRUC-  
TIONS, YOU CAN CAUSE DAMAGE TO THE APU.

**FAULTY UNIT -  
"STARTER 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 49-41-01/201), AND THE APU STARTER CLUTCH (AMM 49-41-06/201).

Faulty Unit - STARTER CIRCUIT on BITE  
Figure 106A (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

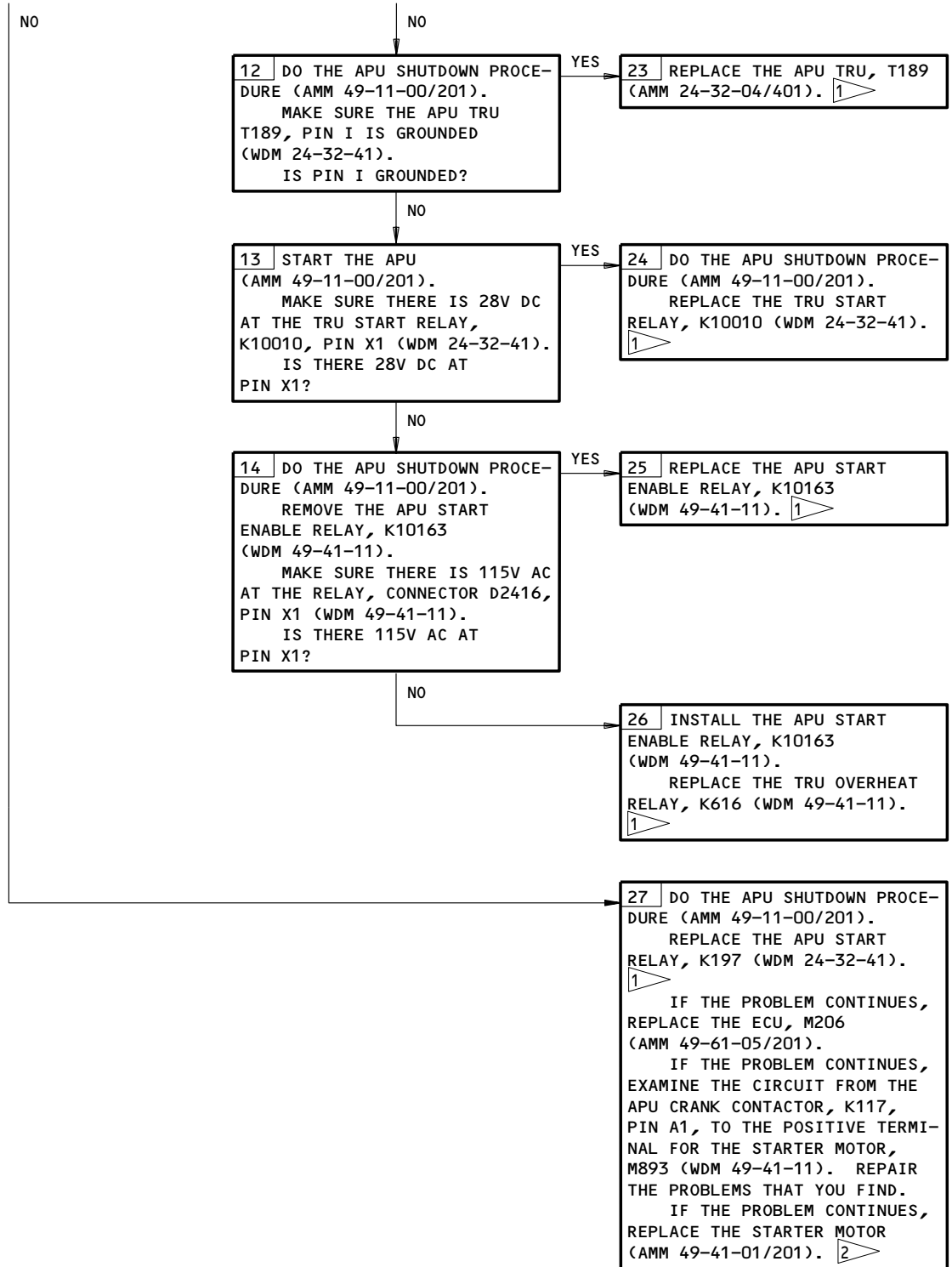
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Faulty Unit - STARTER CIRCUIT on BITE  
Figure 106A (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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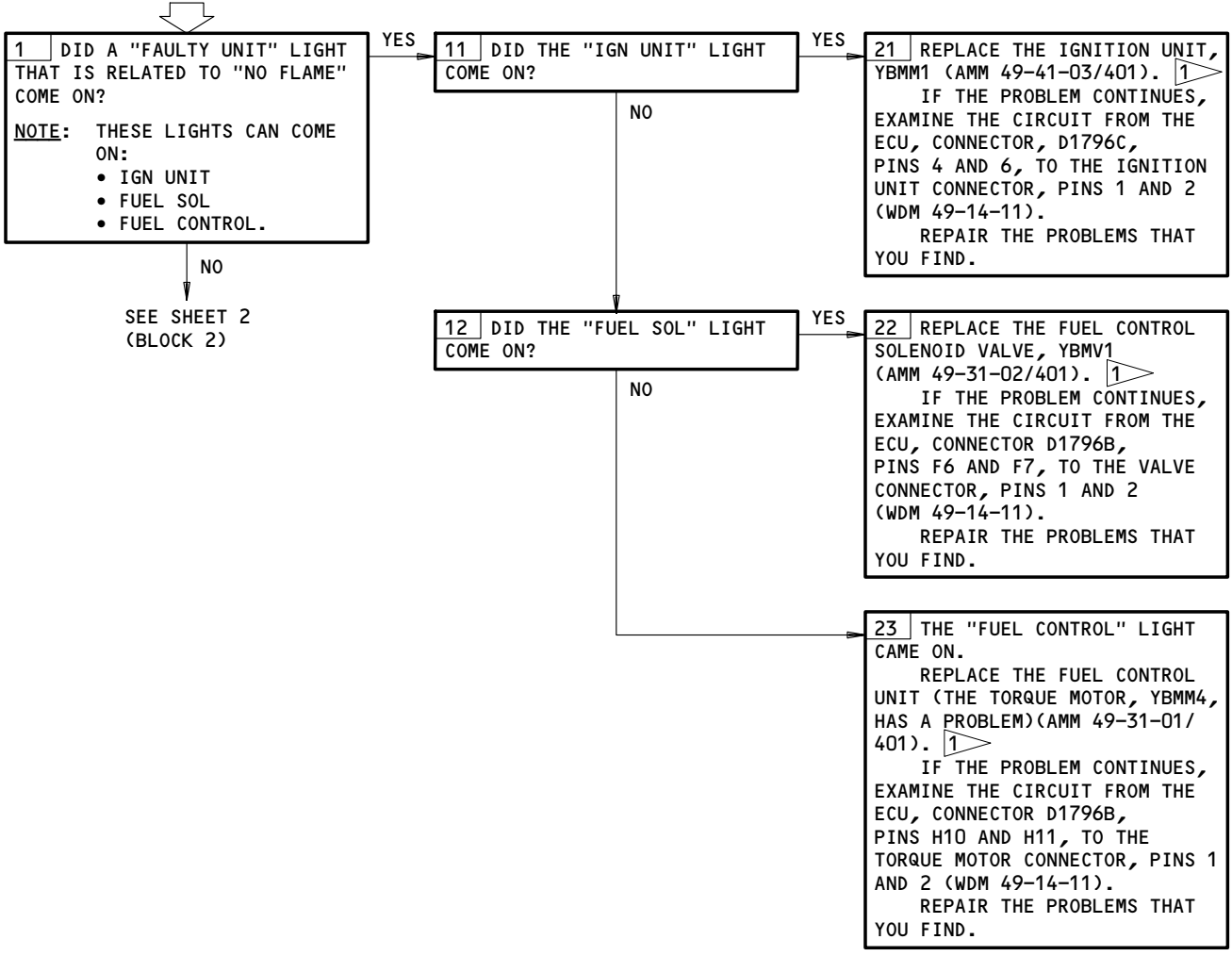
**AUTO SHUTDOWN – "NO FLAME" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START (AFT EQUIPMENT CENTER, E6)

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.

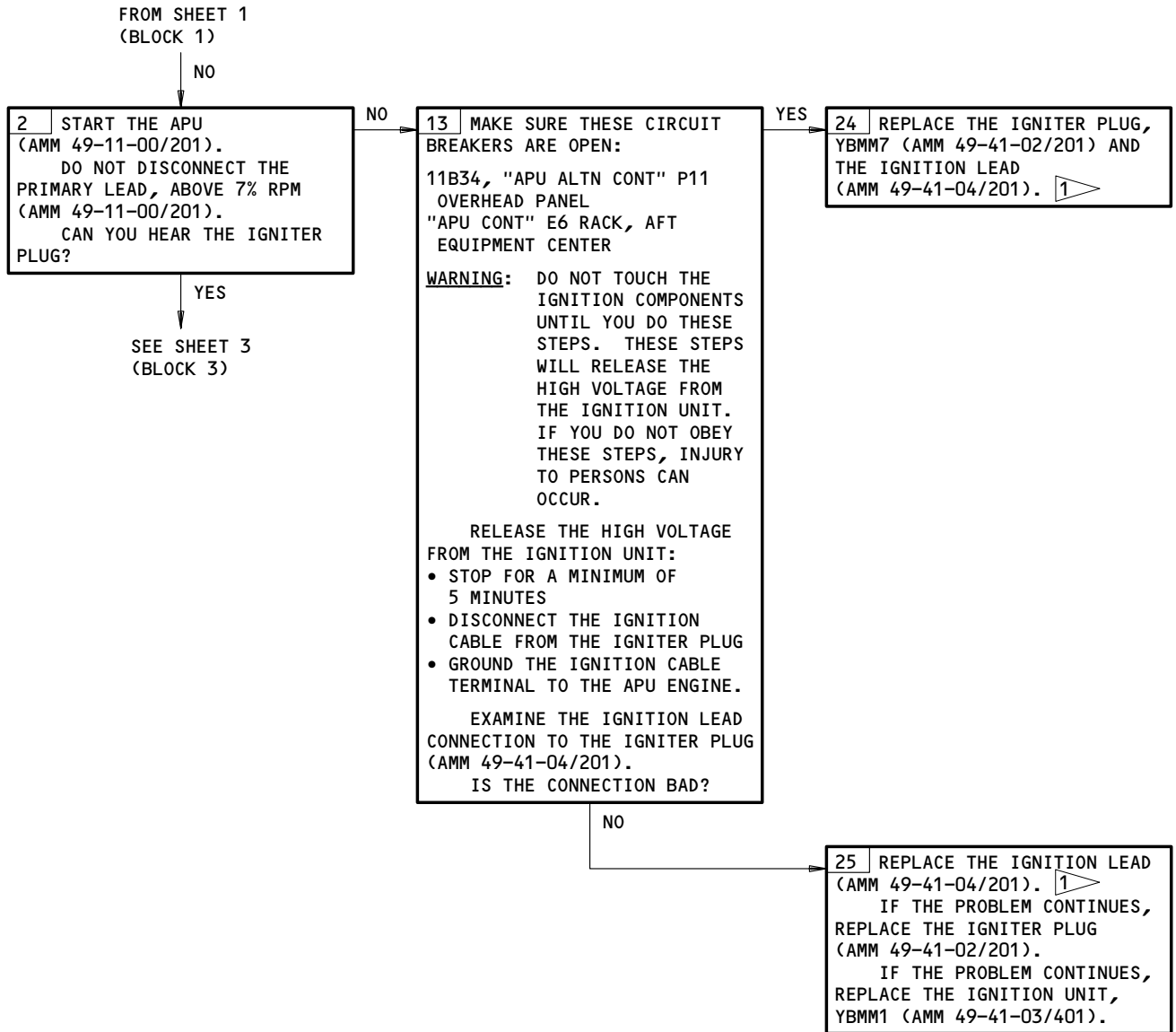
Auto Shutdown – NO FLAME on BITE  
Figure 107 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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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.

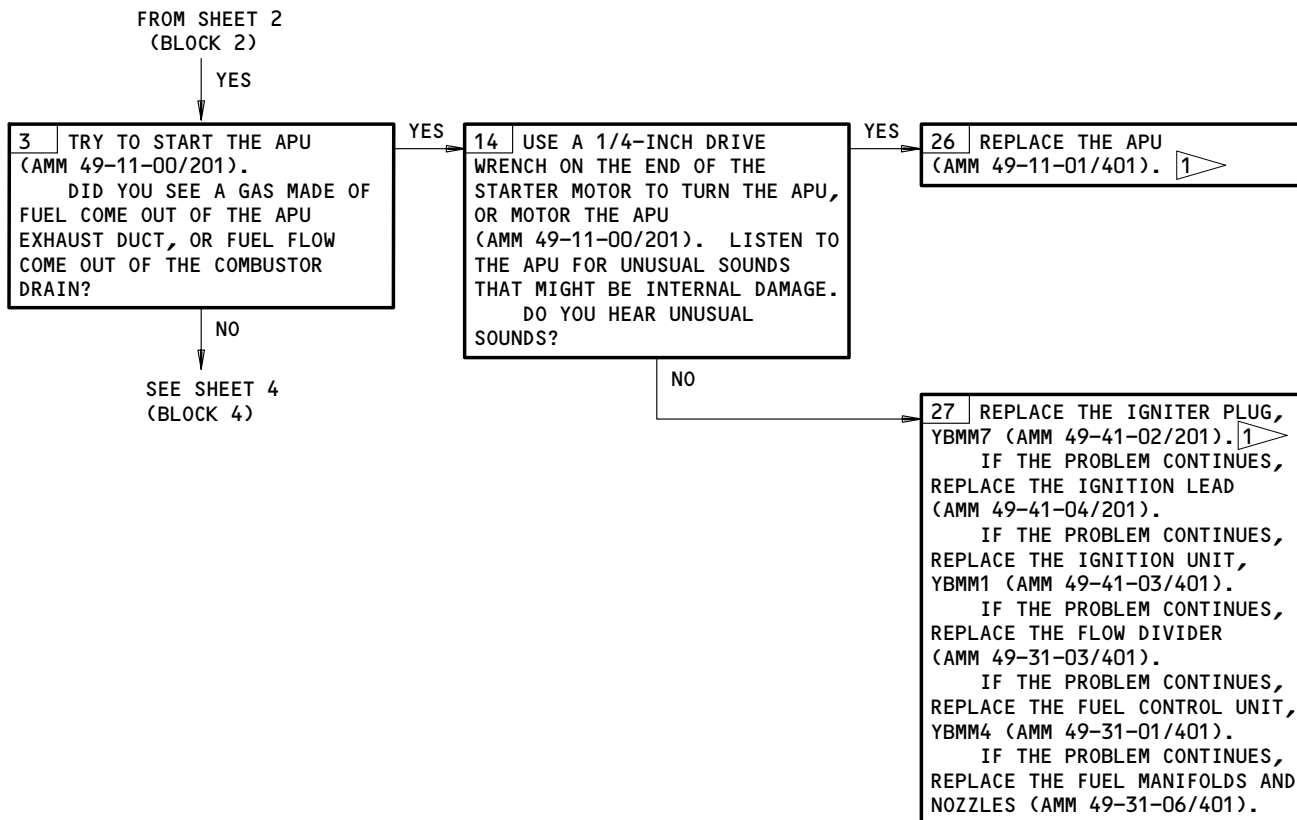
Auto Shutdown - NO FLAME on BITE  
Figure 107 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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**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.

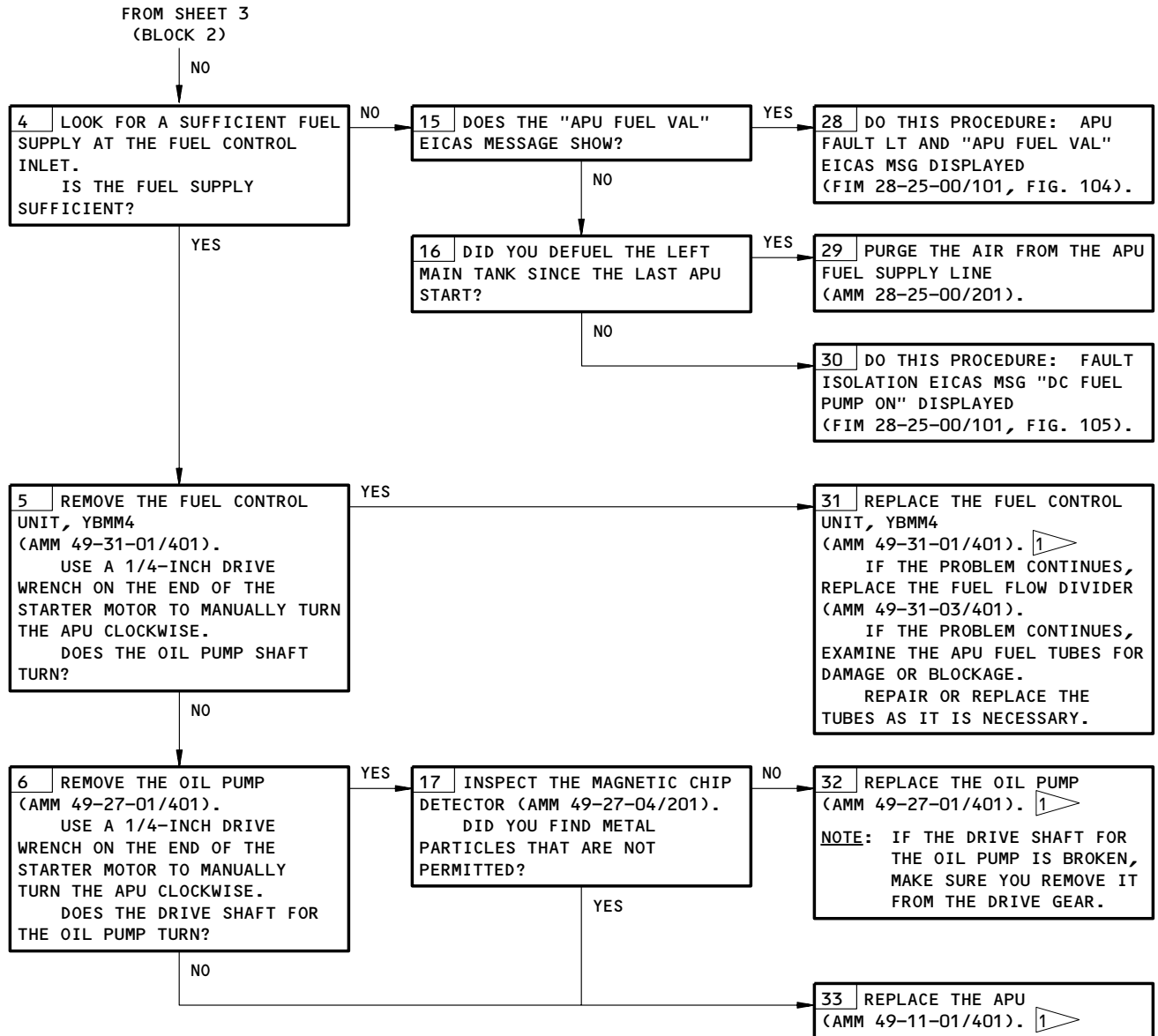
Auto Shutdown - NO FLAME on BITE  
Figure 107 (Sheet 3)

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

Auto Shutdown - NO FLAME on BITE  
Figure 107 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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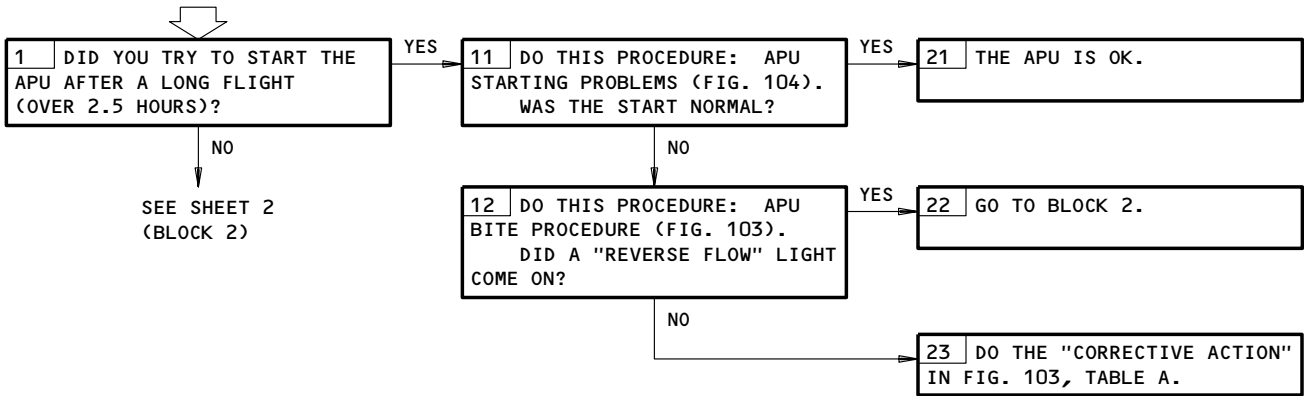
## AUTO SHUTDOWN DURING GOVERNED SPEED – "REVERSE FLOW" ON BITE

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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



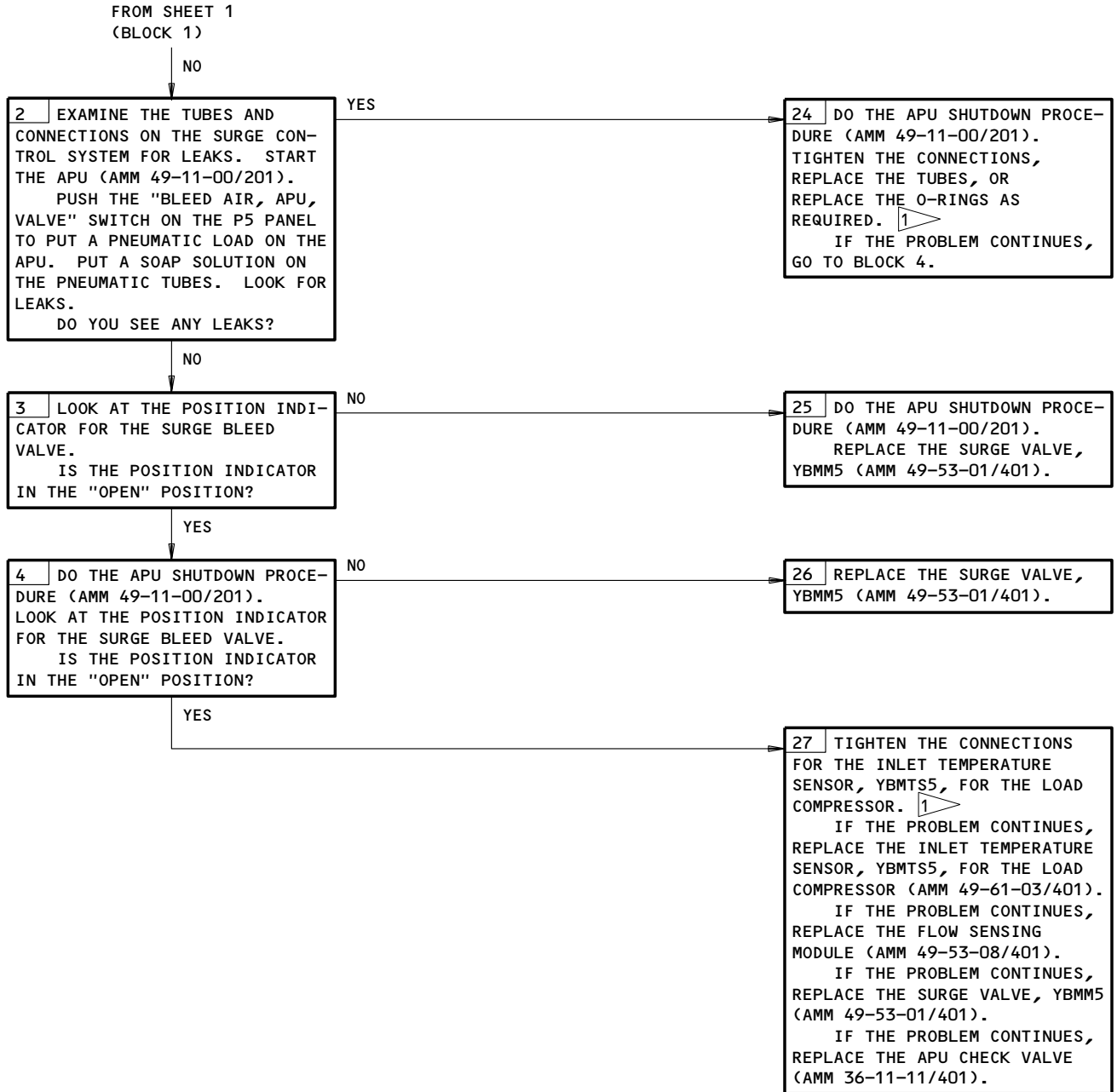
1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF-APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

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

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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

EFFECTIVITY  
AIRPLANES WITH THE APU  
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**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

NOTE: AIRPLANES WITH AN S351T020-18 APU CONTROL UNIT (ECU);  
THE "LOP" LIGHT ON THE ECU WILL FLASH WHEN AN "LOP" SHUTDOWN OCCURS ON THE THIRD TRY TO START THE APU WITH THE AIRPLANE ON THE GROUND. THE "LOP" LIGHT WILL ONLY FLASH IF THE ECU MEMORY WAS NOT ERASED AFTER THE FIRST TWO "LOP" SHUTDOWNS.

AIRPLANES WITH A -18 APU CONTROL UNIT WITH AIRESEARCH SB 2117342-49-2195;  
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.

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.

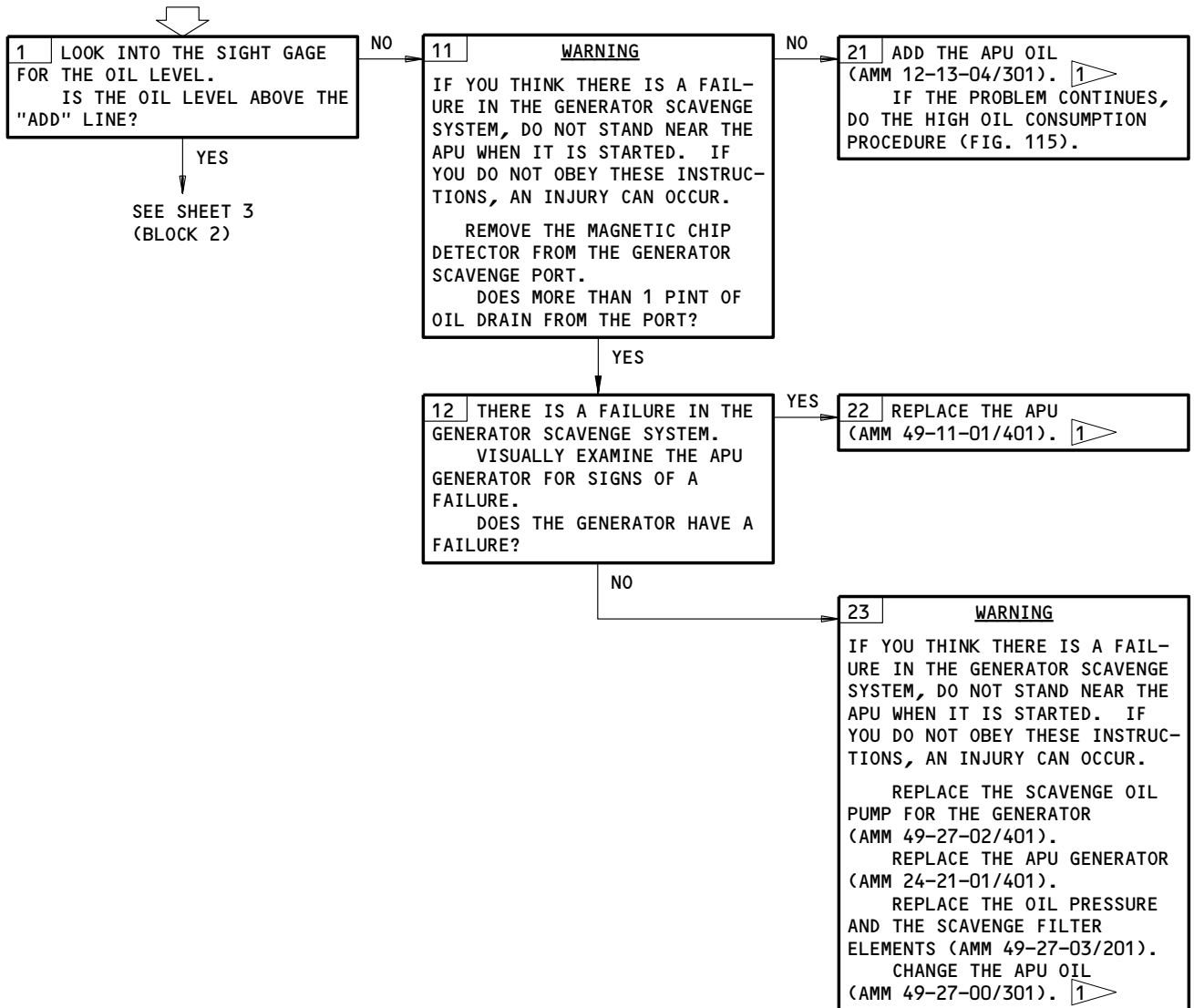
Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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**AUTO SHUTDOWN -  
"LOP" 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.

Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 2)

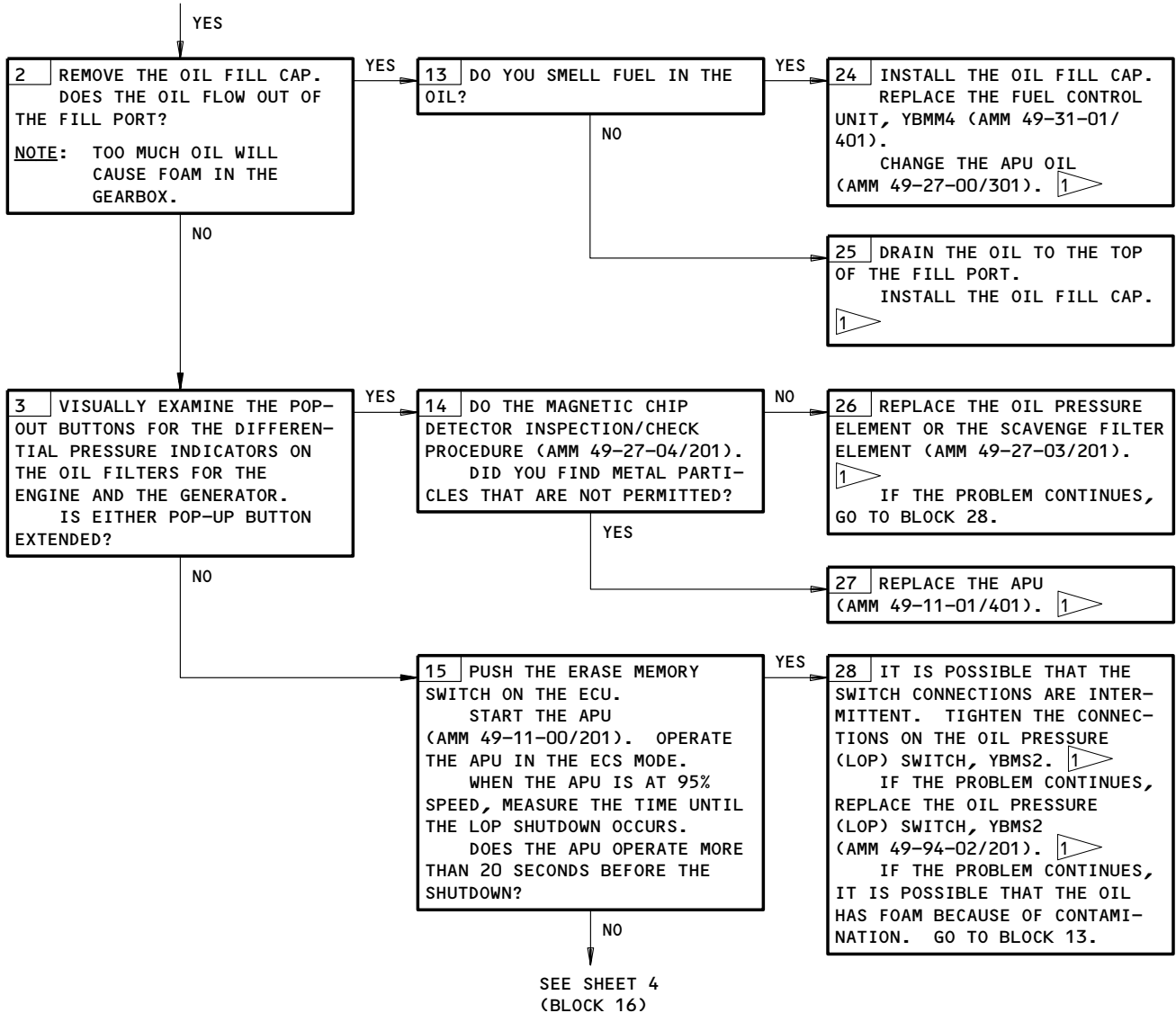
EFFECTIVITY  
AIRPLANES WITH THE APU  
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FROM SHEET 2  
(BLOCK 1)



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 - LOP on BITE  
Figure 109 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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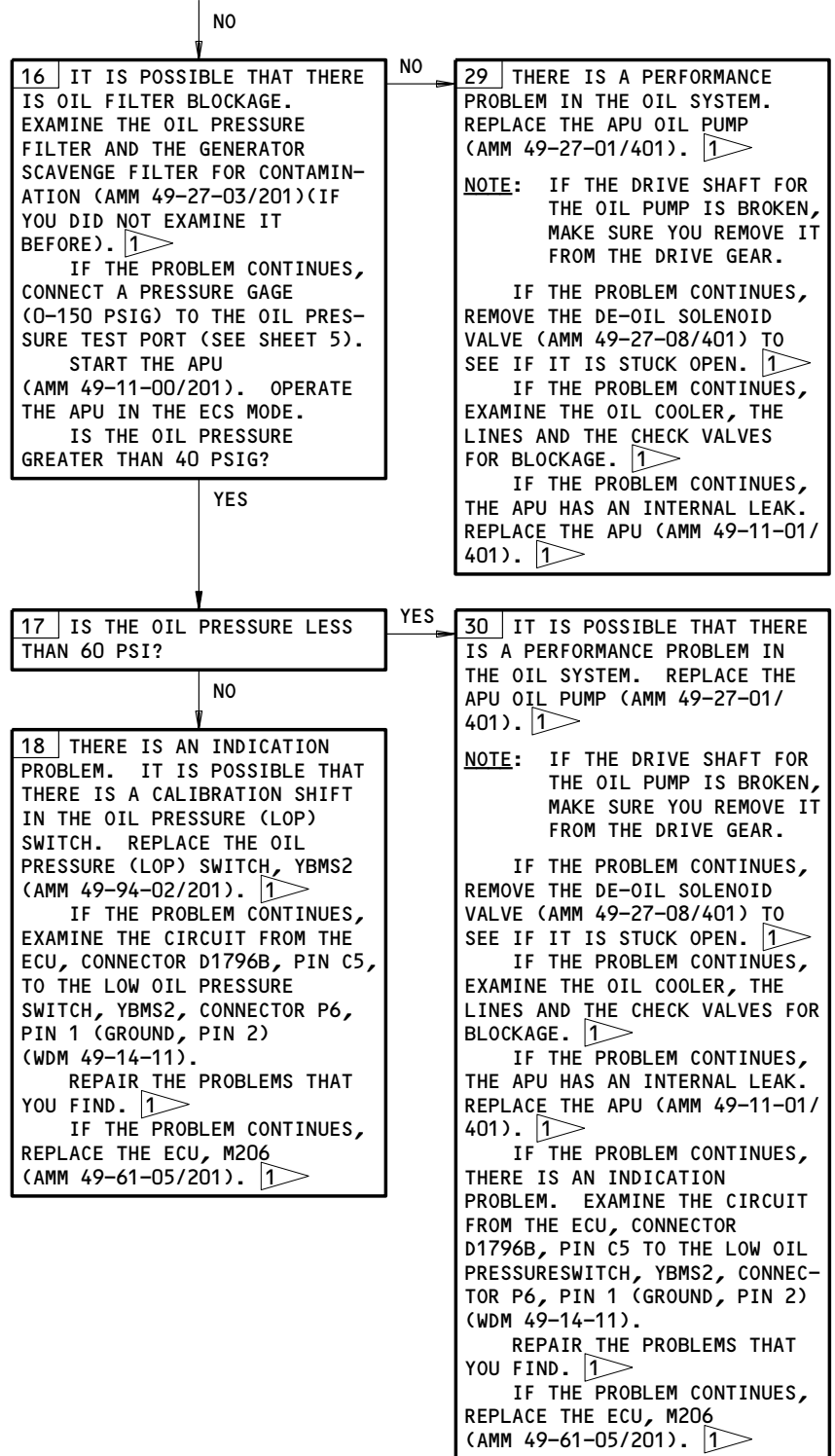
05

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 15)

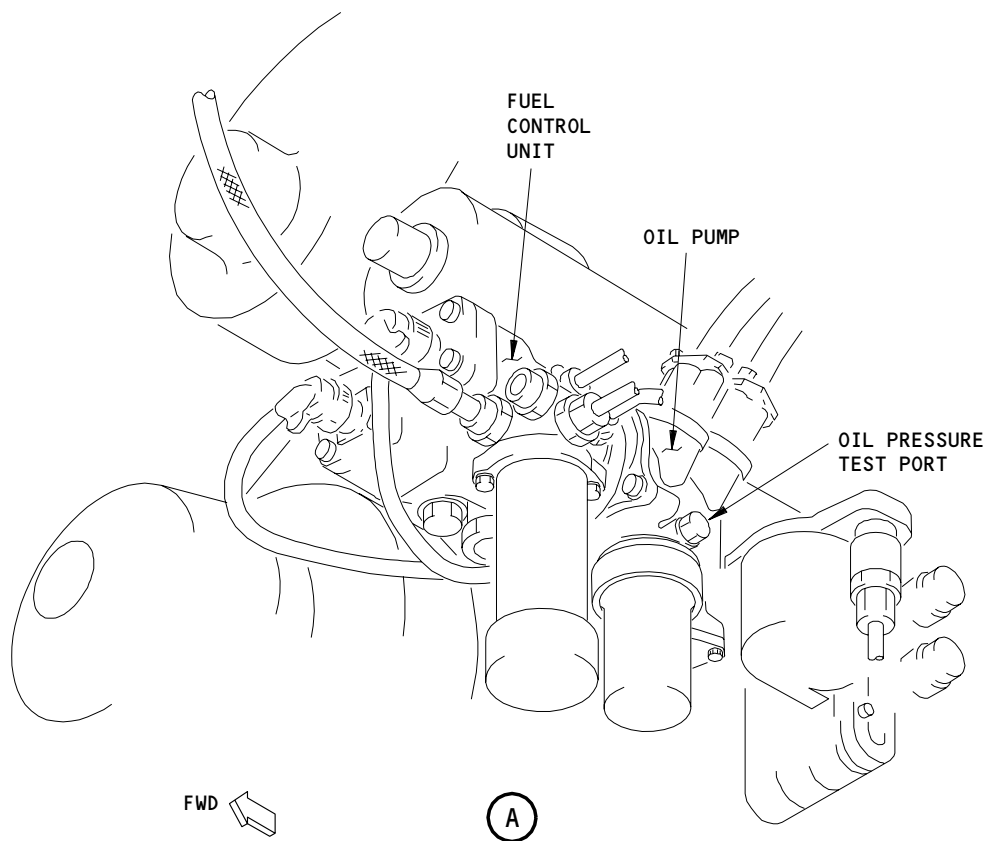
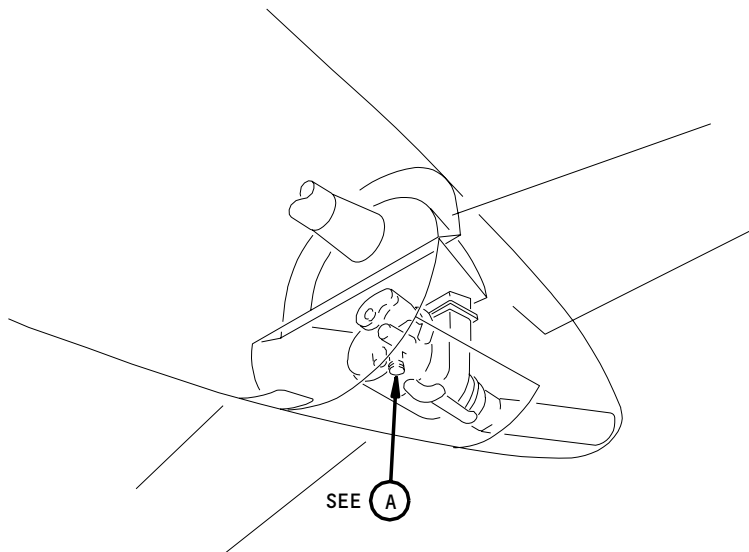


Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 5)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**

CONFIG 1  
Page 142  
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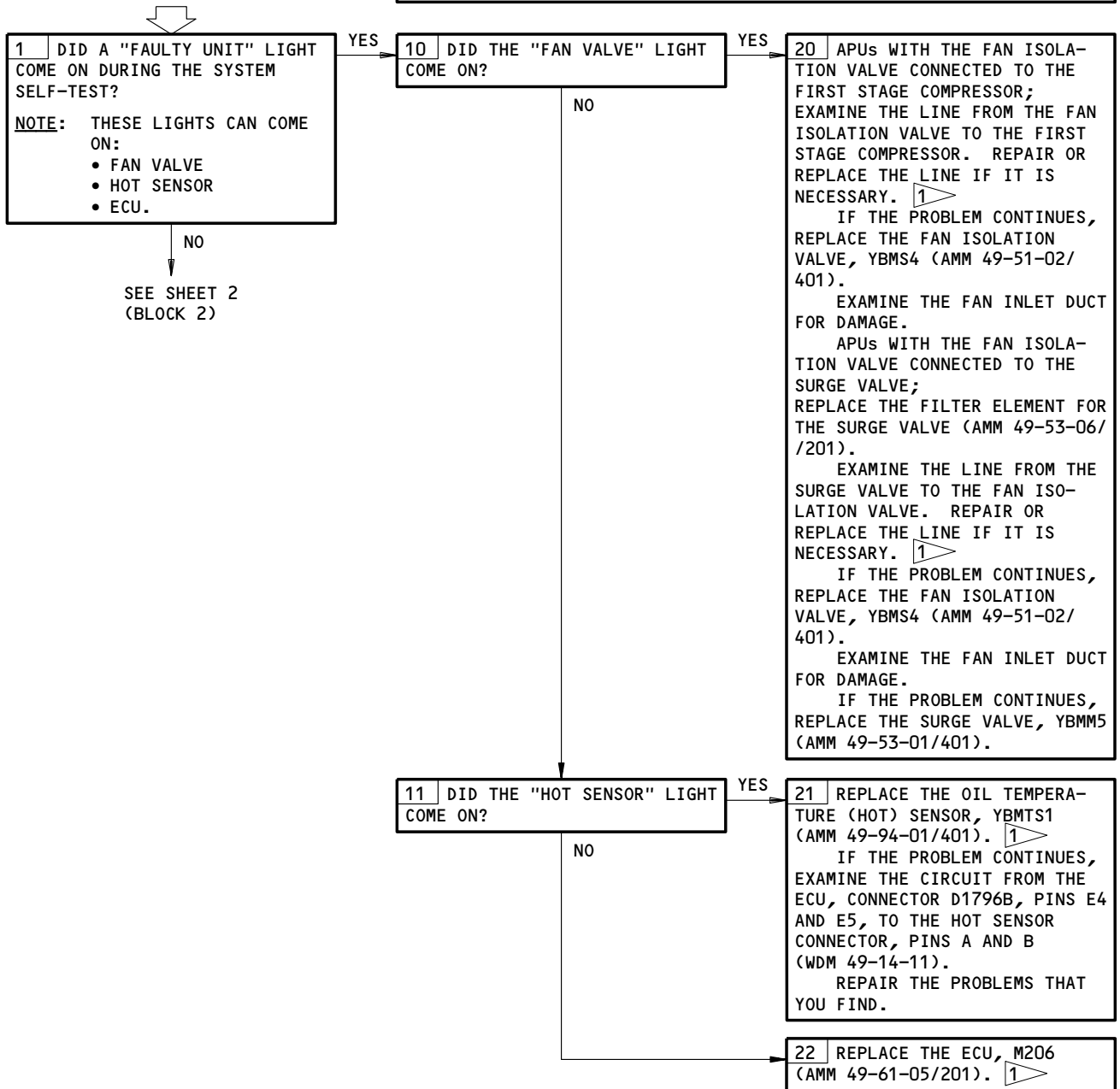
09

**AUTO SHUTDOWN –  
"HOT" 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)



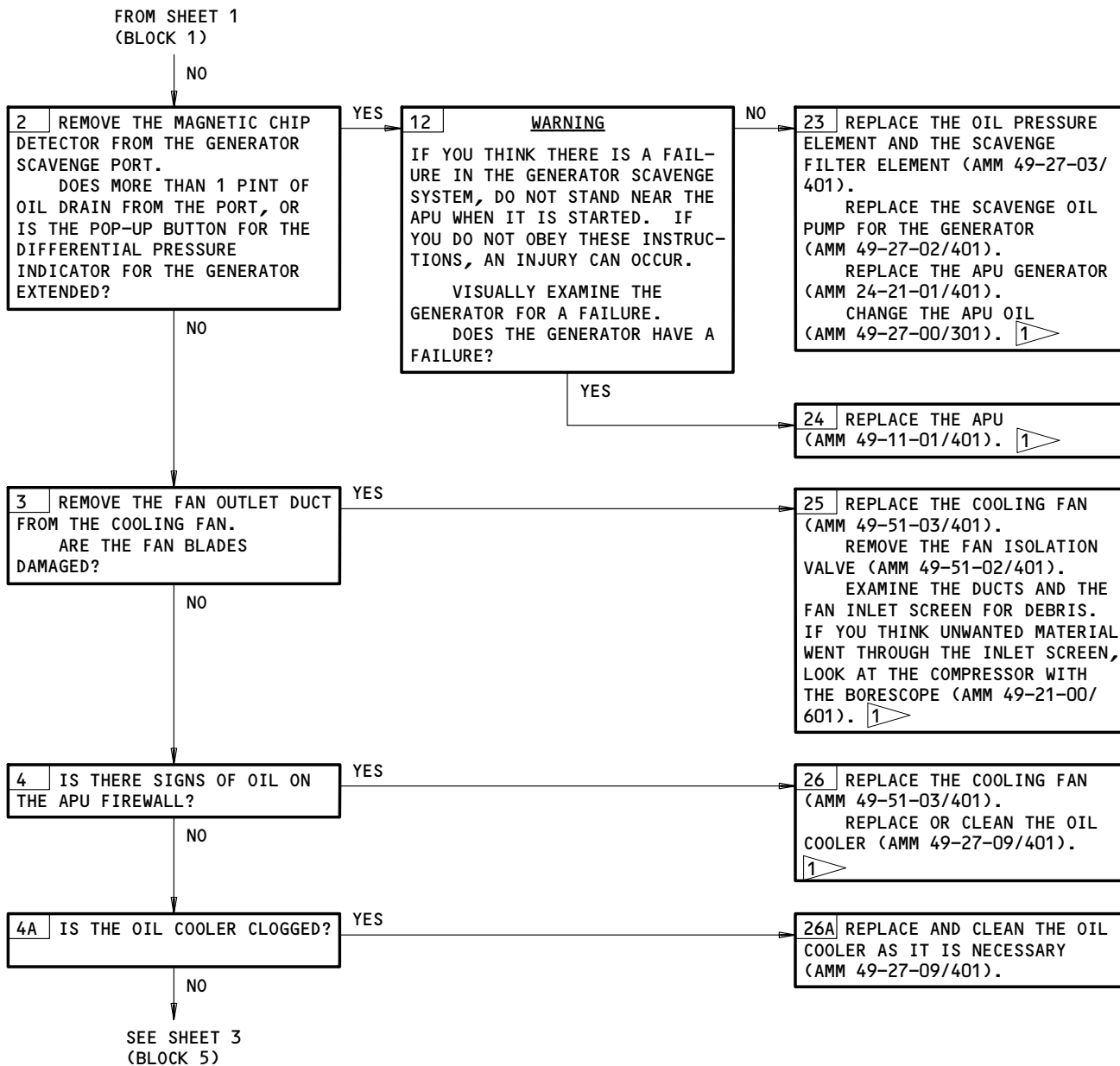
1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF-APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

Auto Shutdown – HOT on BITE  
Figure 110 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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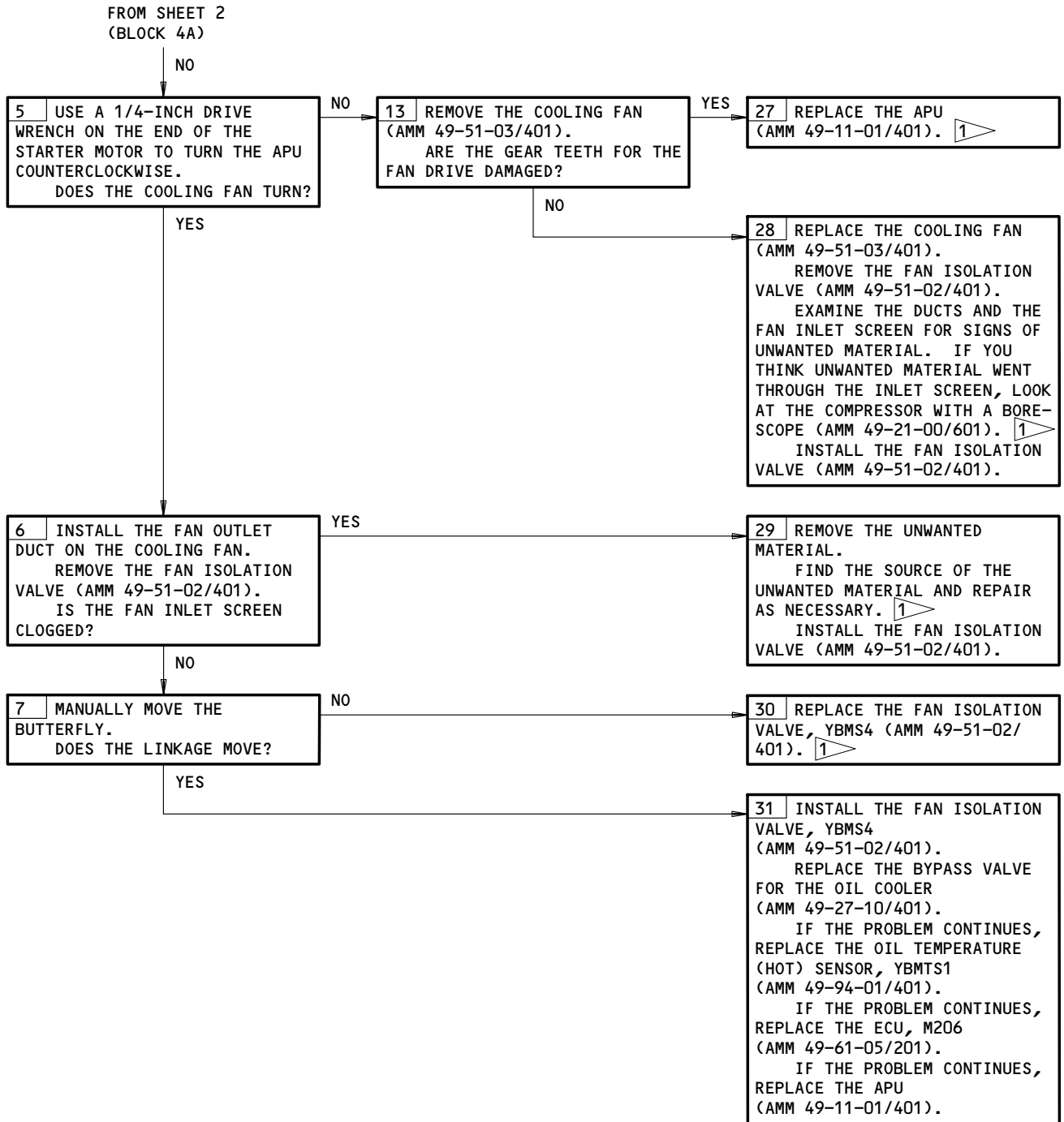
1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF-APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.

Auto Shutdown - HOT on BITE  
Figure 110 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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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 - HOT on BITE  
Figure 110 (Sheet 3)

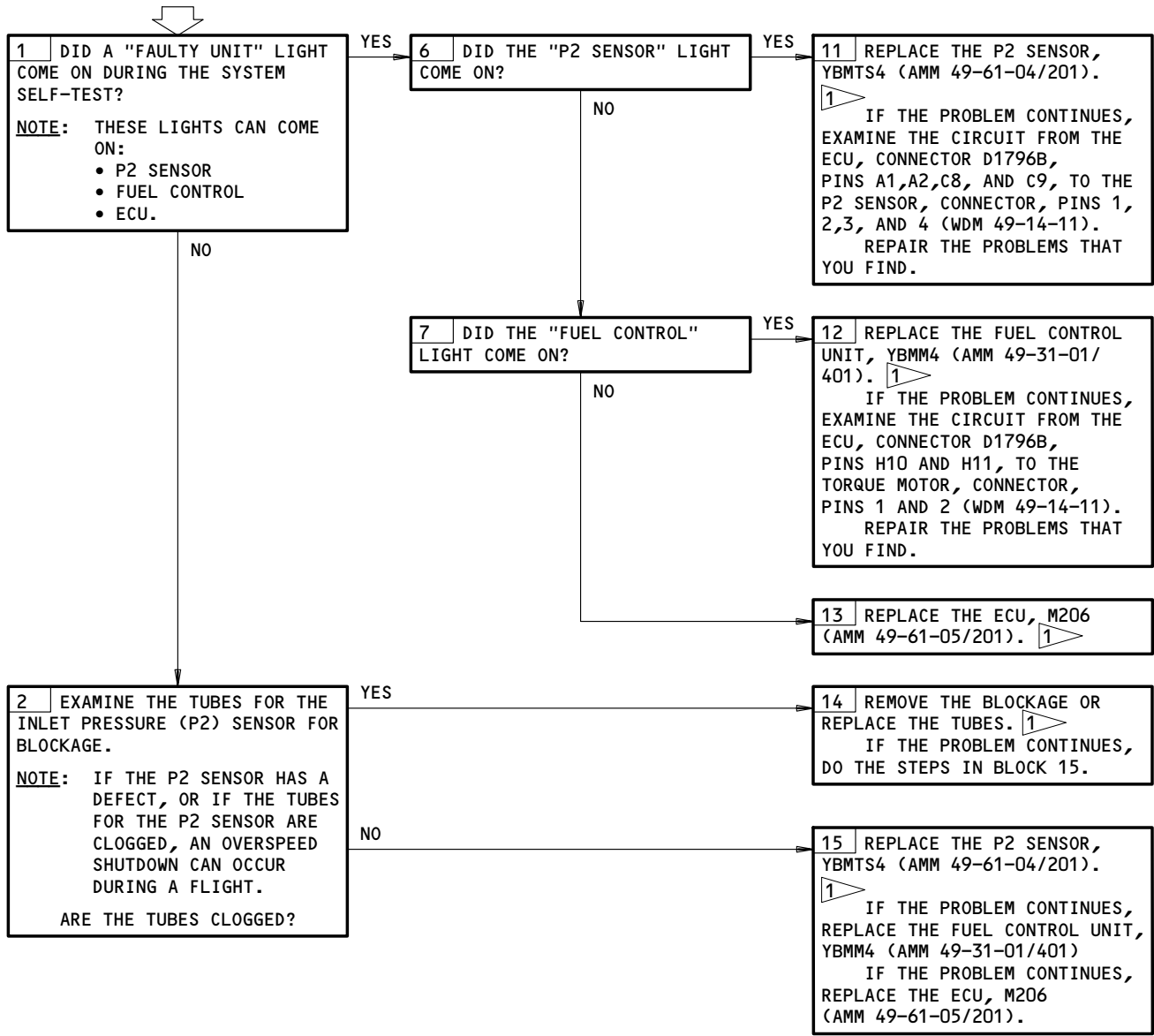
EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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**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.

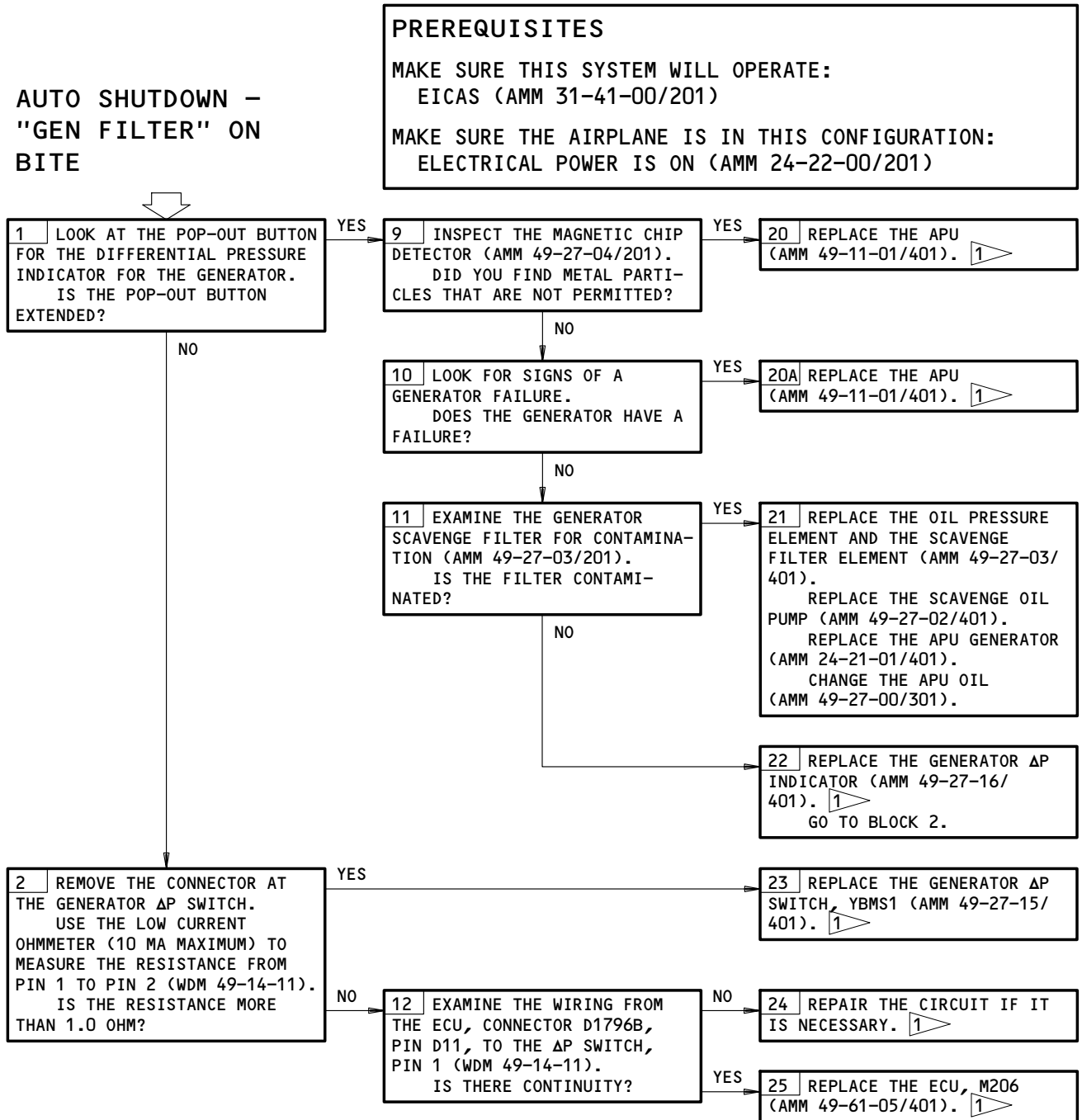
Auto Shutdown – OVER SPEED on BITE  
Figure 111

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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139040

**AUTO SHUTDOWN –  
"GEN FILTER" 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.

Auto Shutdown – GEN FILTER on BITE  
Figure 112

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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**PREREQUISITES**

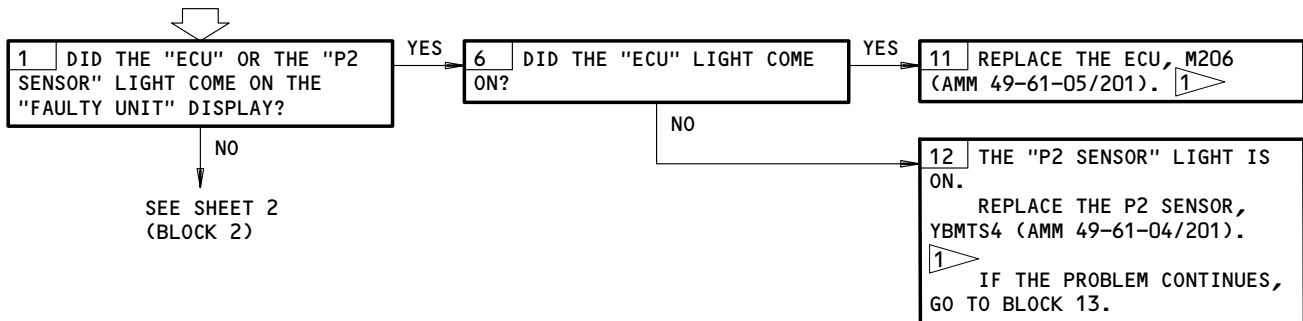
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

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

NOTE: IF THE APU HAS A START PROBLEM ("NO FLAME",  
"SLOW START", OR "NO ACCEL") AND THE AUTOMATIC  
SHUTDOWN "OVER TEMP", THERE IS A DEFECT IN THE  
FLOW DIVIDER OR THE PRIMARY FUEL NOZZLE.



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.

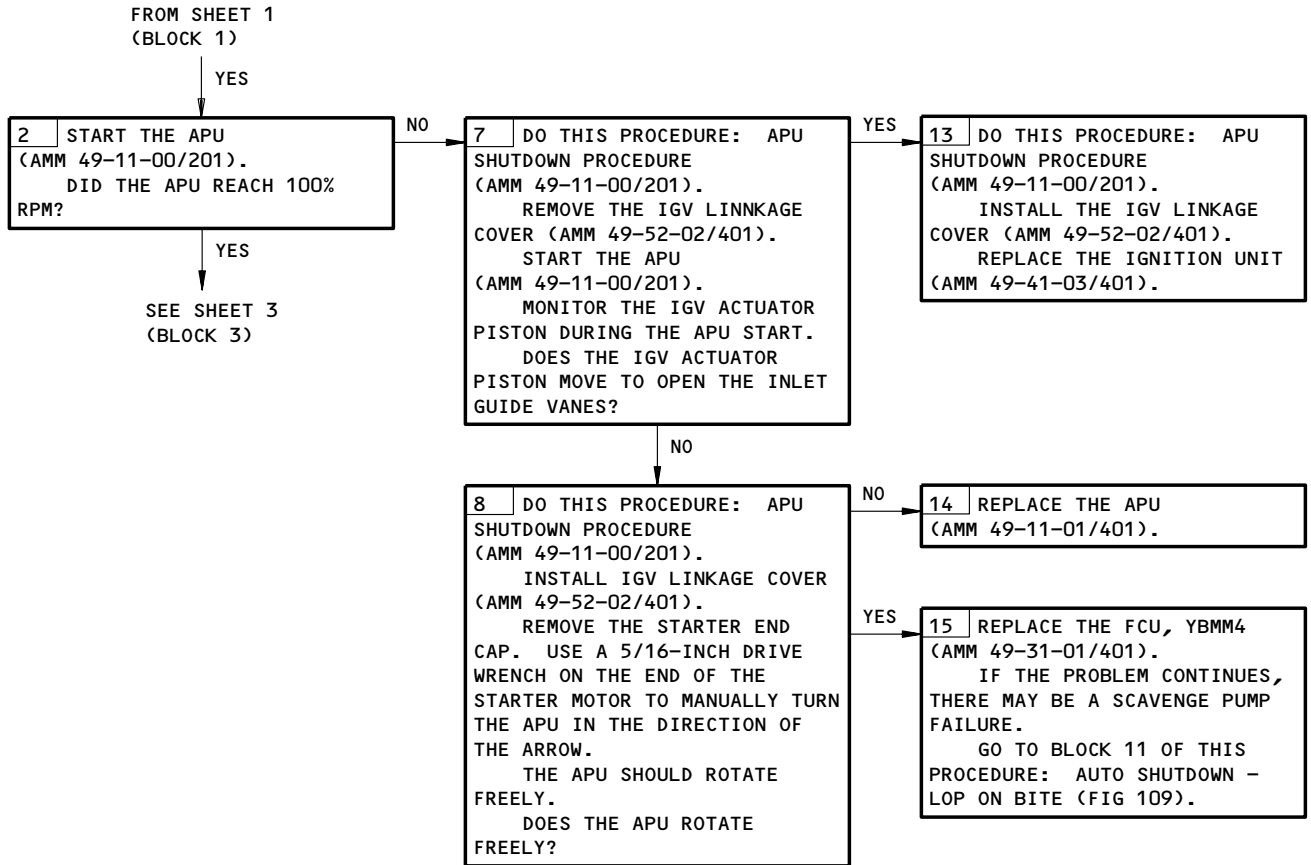
Auto Shutdown – OVER TEMP on BITE  
Figure 113 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

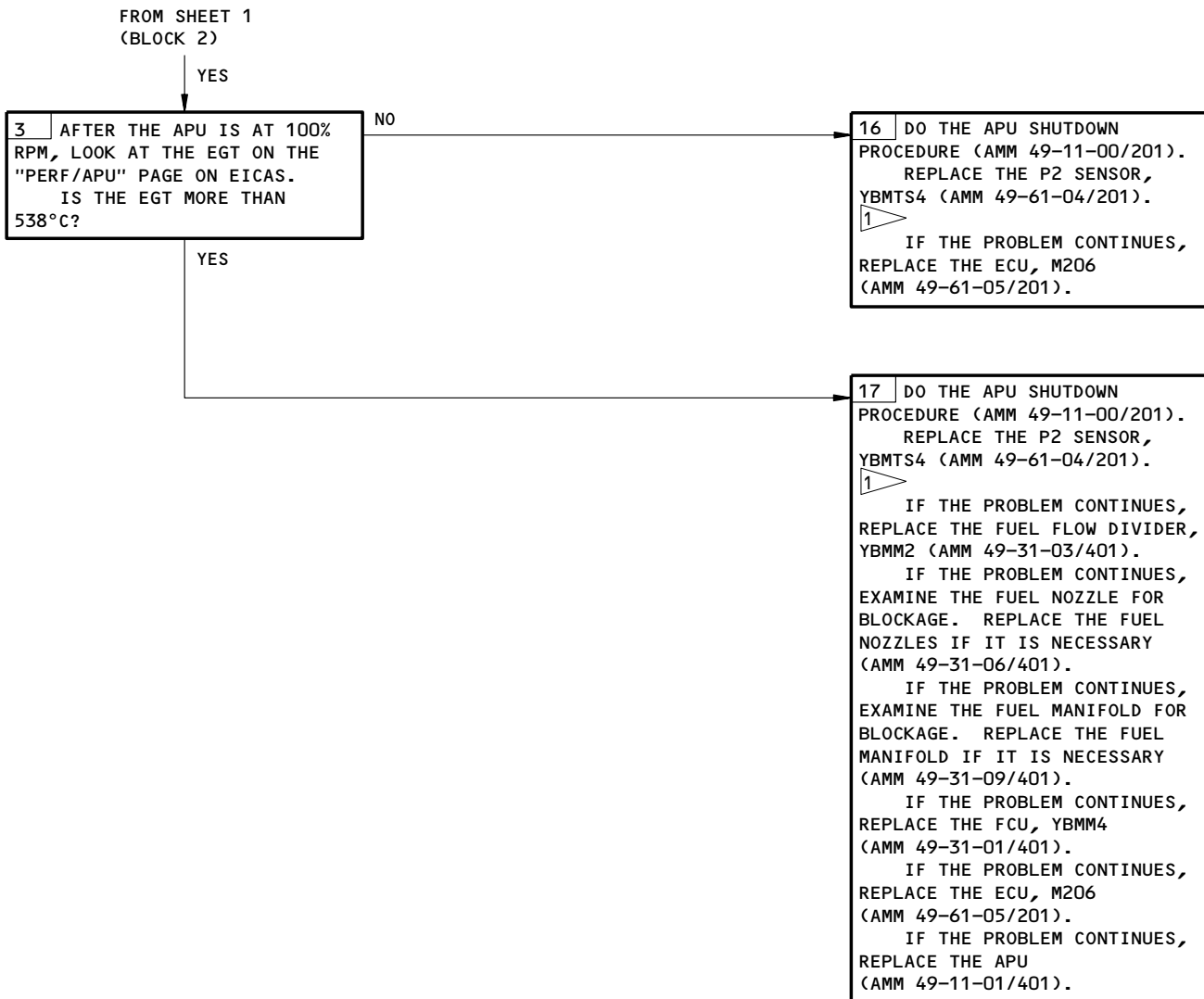


Auto Shutdown – OVER TEMP on BITE  
Figure 113 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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Auto Shutdown - OVER TEMP on BITE  
Figure 113 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

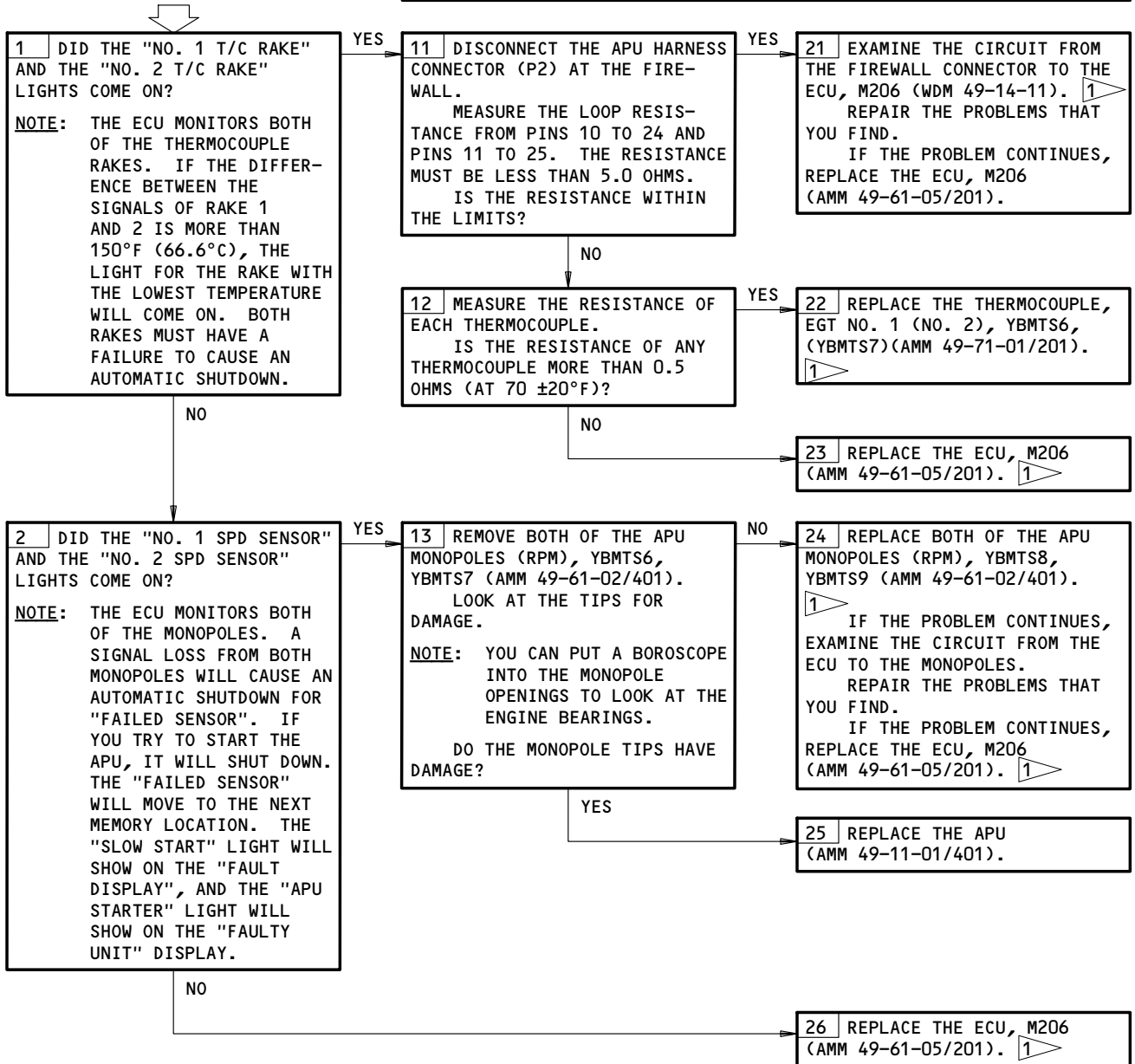
**49-11-00**  
CONFIG 1  
Page 150  
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**AUTO SHUTDOWN –  
"FAILED SENSOR" ON  
BITE**

**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.

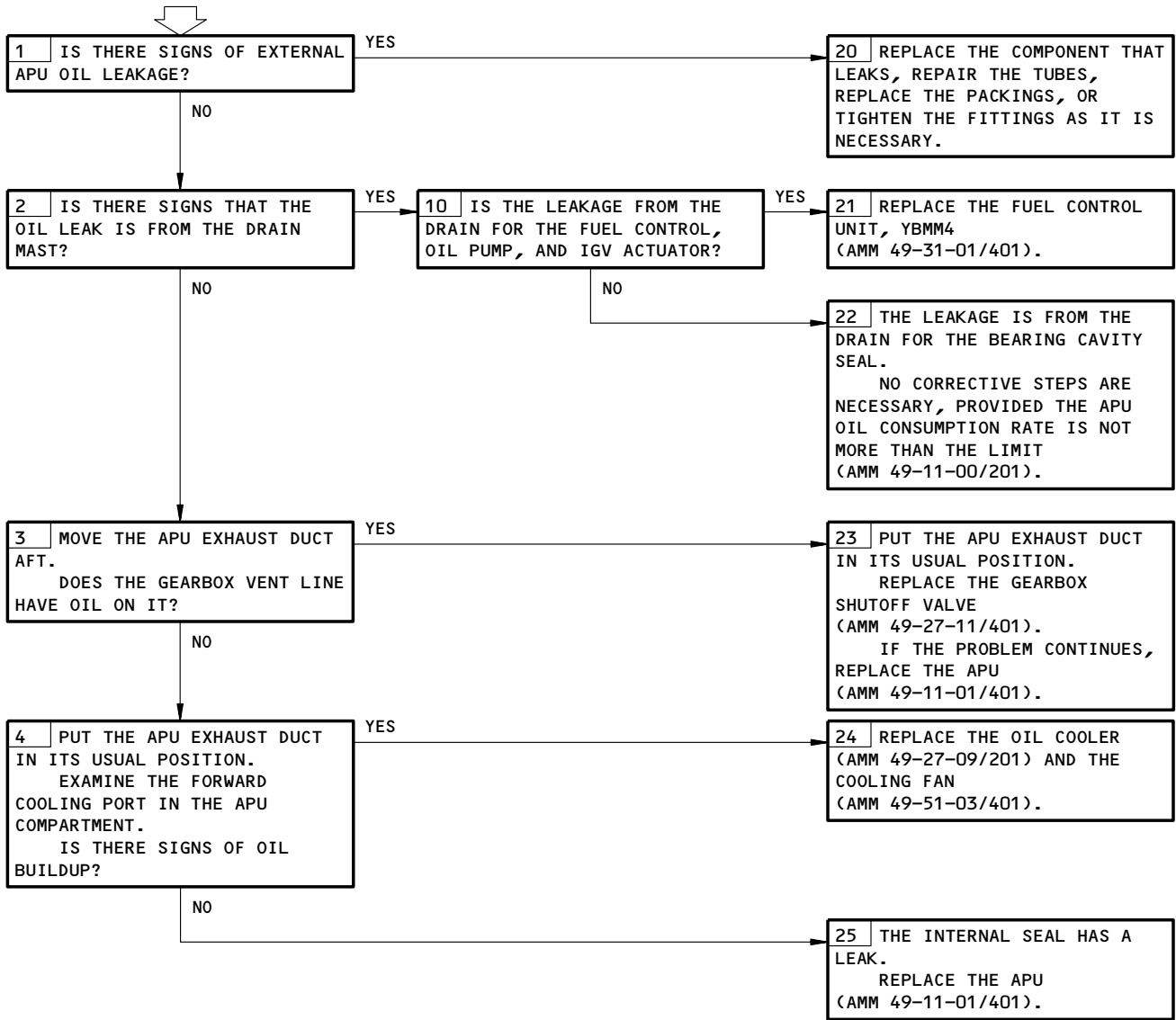
Auto Shutdown – FAILED SENSOR on BITE  
Figure 114

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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**HIGH OIL CONSUMPTION**

**PREREQUISITES**  
NONE



High Oil Consumption  
Figure 115

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
 CONFIG 1  
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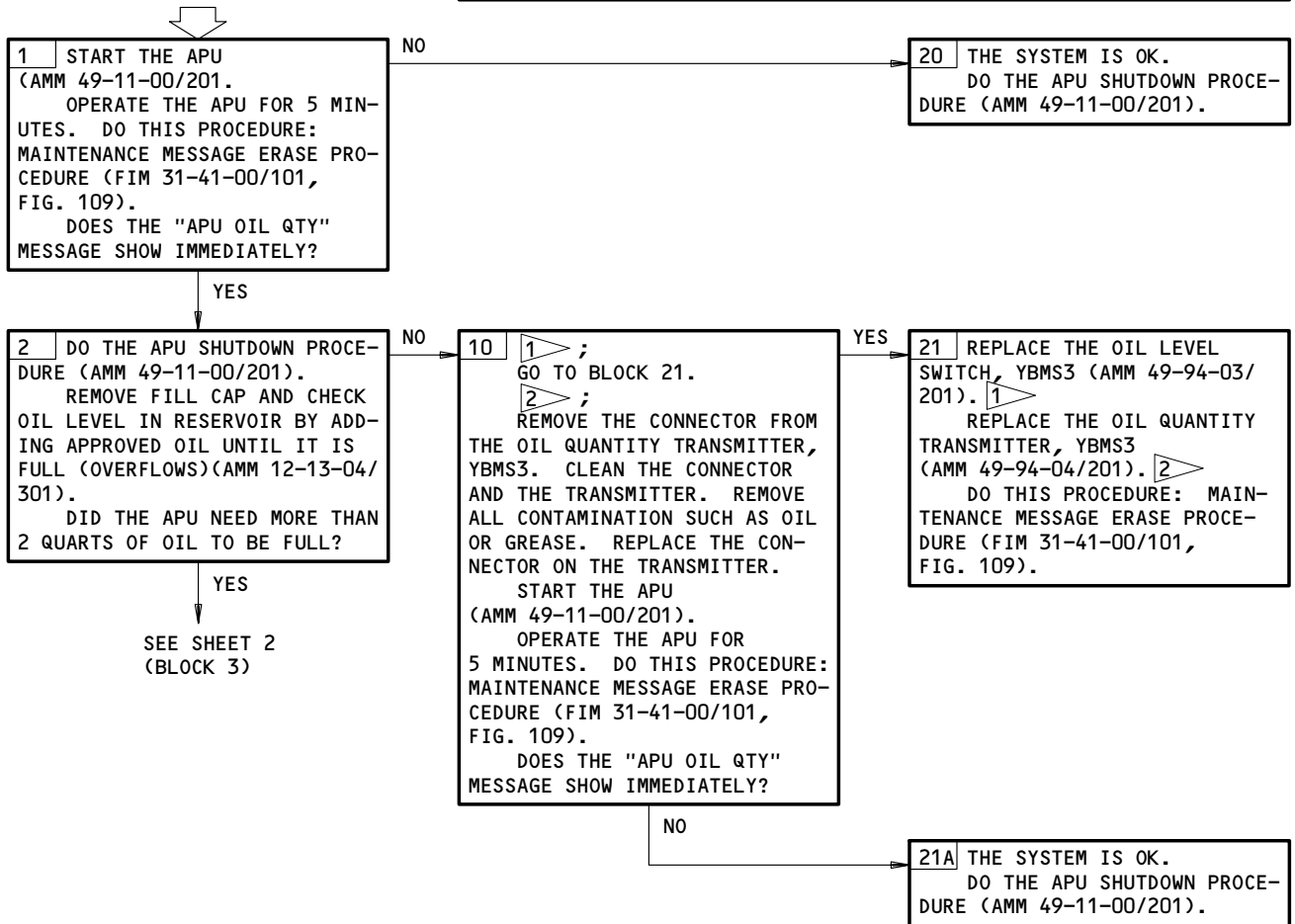
**PREREQUISITES**

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**

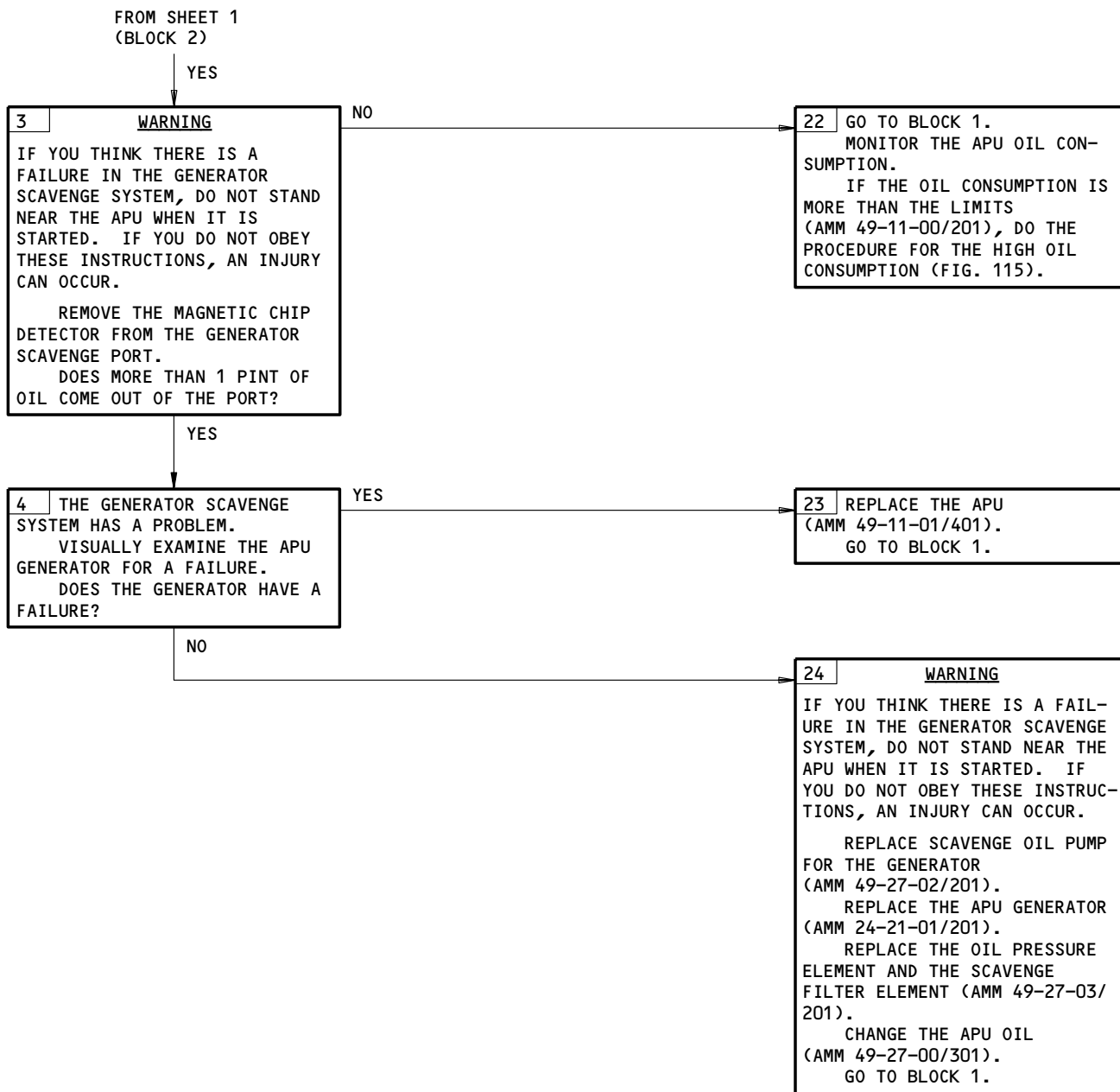


- 1 > GUI 001-114,116-999
- 2 > GUI 115

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

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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EICAS Msg APU OIL QTY Displayed  
Figure 116 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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APU WILL NOT CARRY  
PNEUMATIC AND  
ELECTRICAL LOAD  
ASSOCIATED WITH  
RPM DROOP

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



1	REPLACE THE P2 SENSOR (AMM 49-61-04/201). IF THE PROBLEM CONTINUES, REPLACE THE ECU, M206 (AMM 49-61-05/201). IF THE PROBLEM CONTINUES, REPLACE THE FUEL CONTROL UNIT, YBMM4 (AMM 49-31-01/401). IF THE PROBLEM CONTINUES, REPLACE THE FUEL FLOW DIVIDER (AMM 49-31-02/401). IF THE PROBLEM CONTINUES, REPLACE THE SECONDARY FUEL MANIFOLDS AND NOZZLES (AMM 49-31-06/401).
---	---

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

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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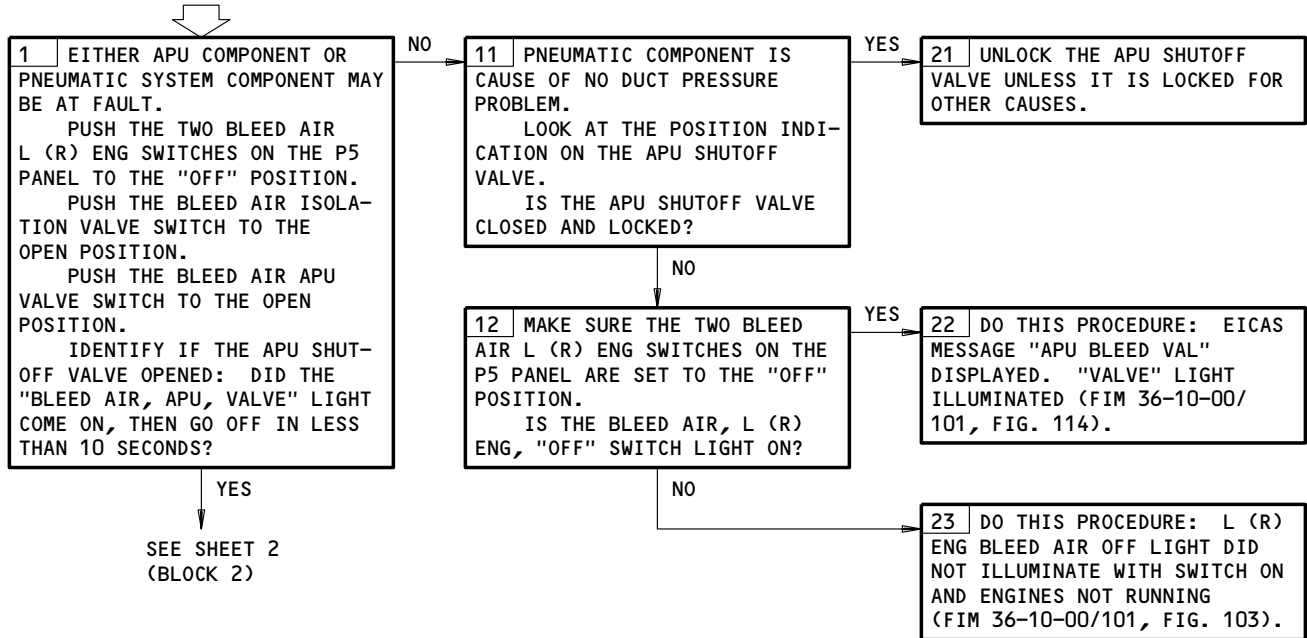
**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
 APU START NORMAL

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
 APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
 E6)

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

**NO DUCT PRESSURE IN ANY MODE (0-2 PSIG)**



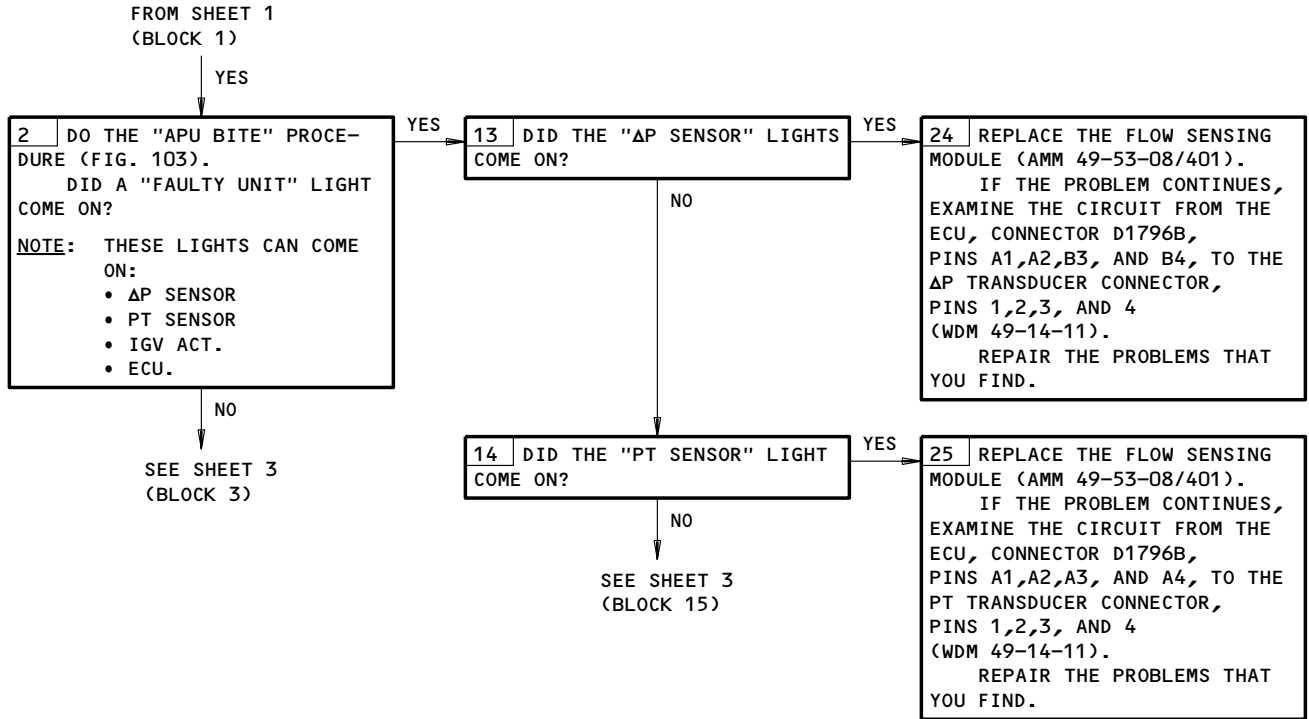
No Duct Pressure in Any Mode (0-2 PSIG)  
 Figure 118 (Sheet 1)

EFFECTIVITY  
 AIRPLANES WITH THE APU  
 CONTROL UNIT -18 AND BEFORE

**49-11-00**  
 CONFIG 1  
 Page 156  
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07



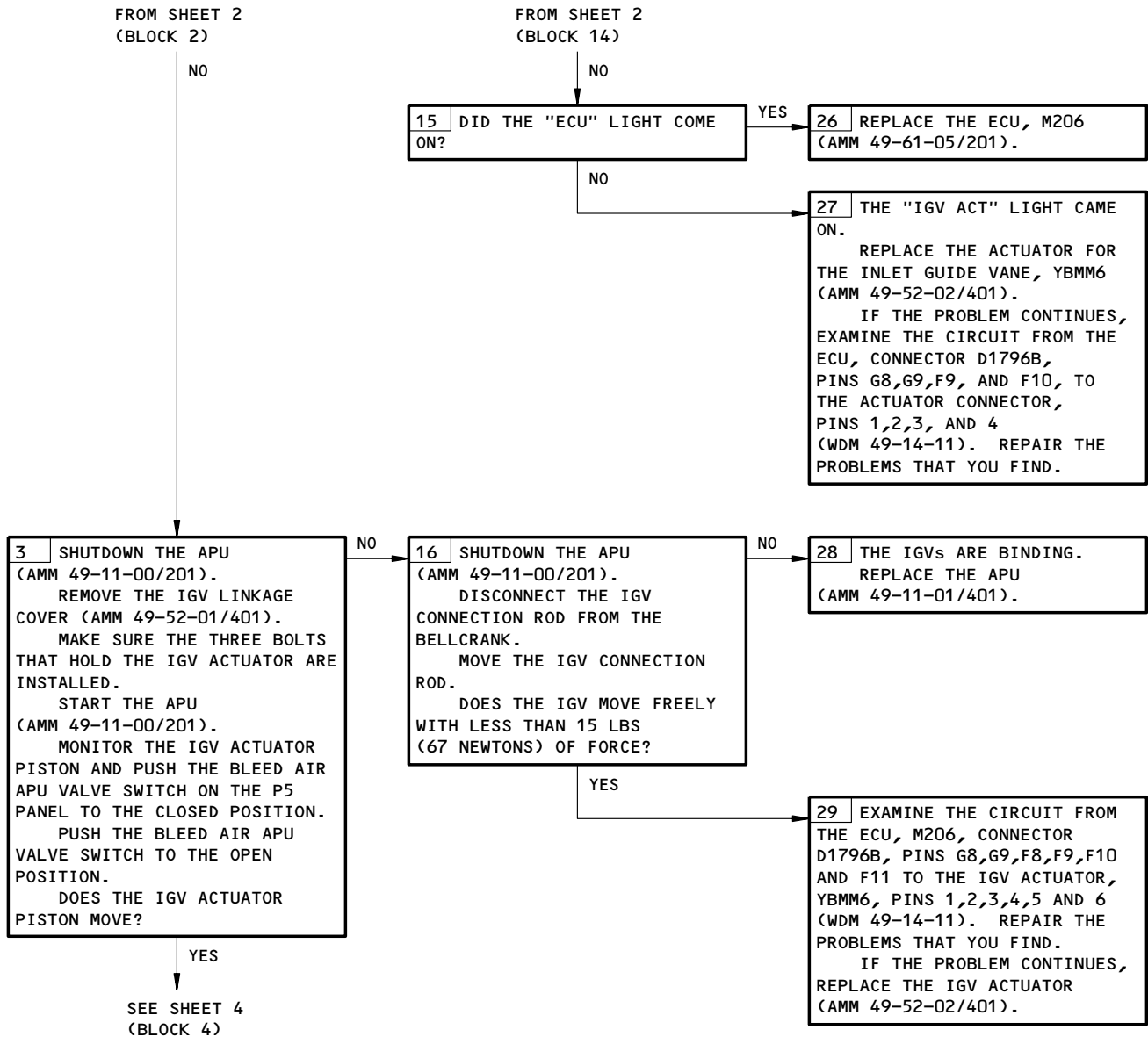
No Duct Pressure in Any Mode (0-2 PSIG)  
Figure 118 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
 CONFIG 1  
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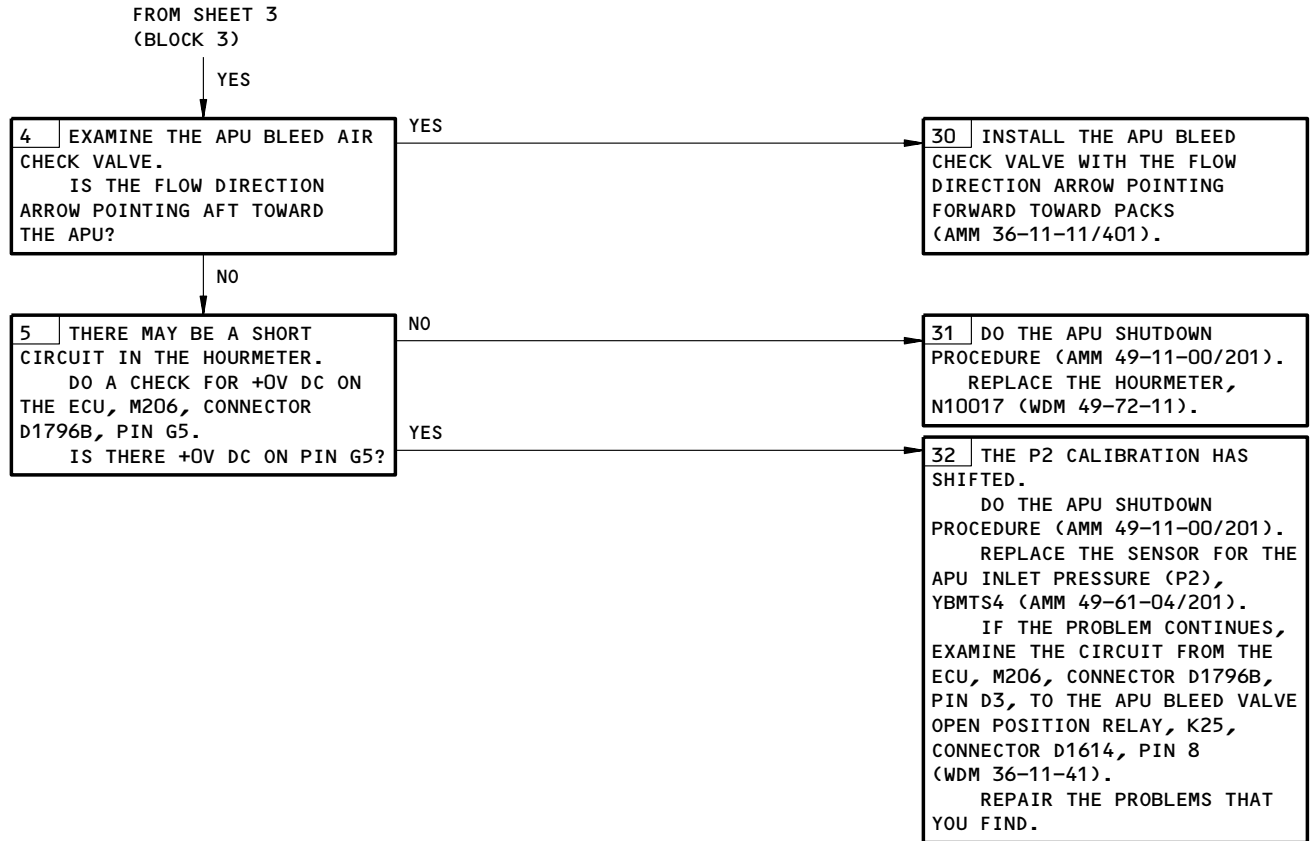
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



No Duct Pressure in Any Mode (0-2 PSIG)  
Figure 118 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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No Duct Pressure in Any Mode (0-2 PSIG)  
Figure 118 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:

- EICAS (AMM 31-41-00/201)
- APU START NORMAL

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

- 6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,
- APU CONT, APU START, APU INLET DR ACT
- (AFT EQUIPMENT CENTER, E6)

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**

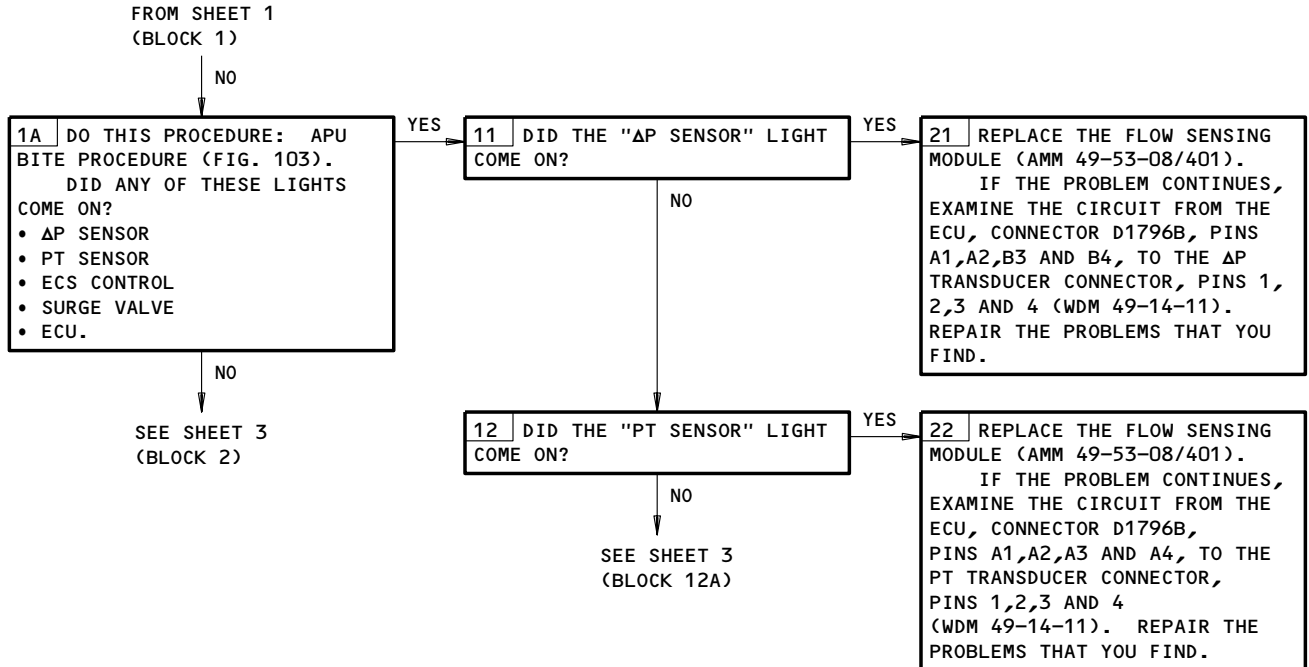


Fluctuating Duct Pressure  
Figure 119 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



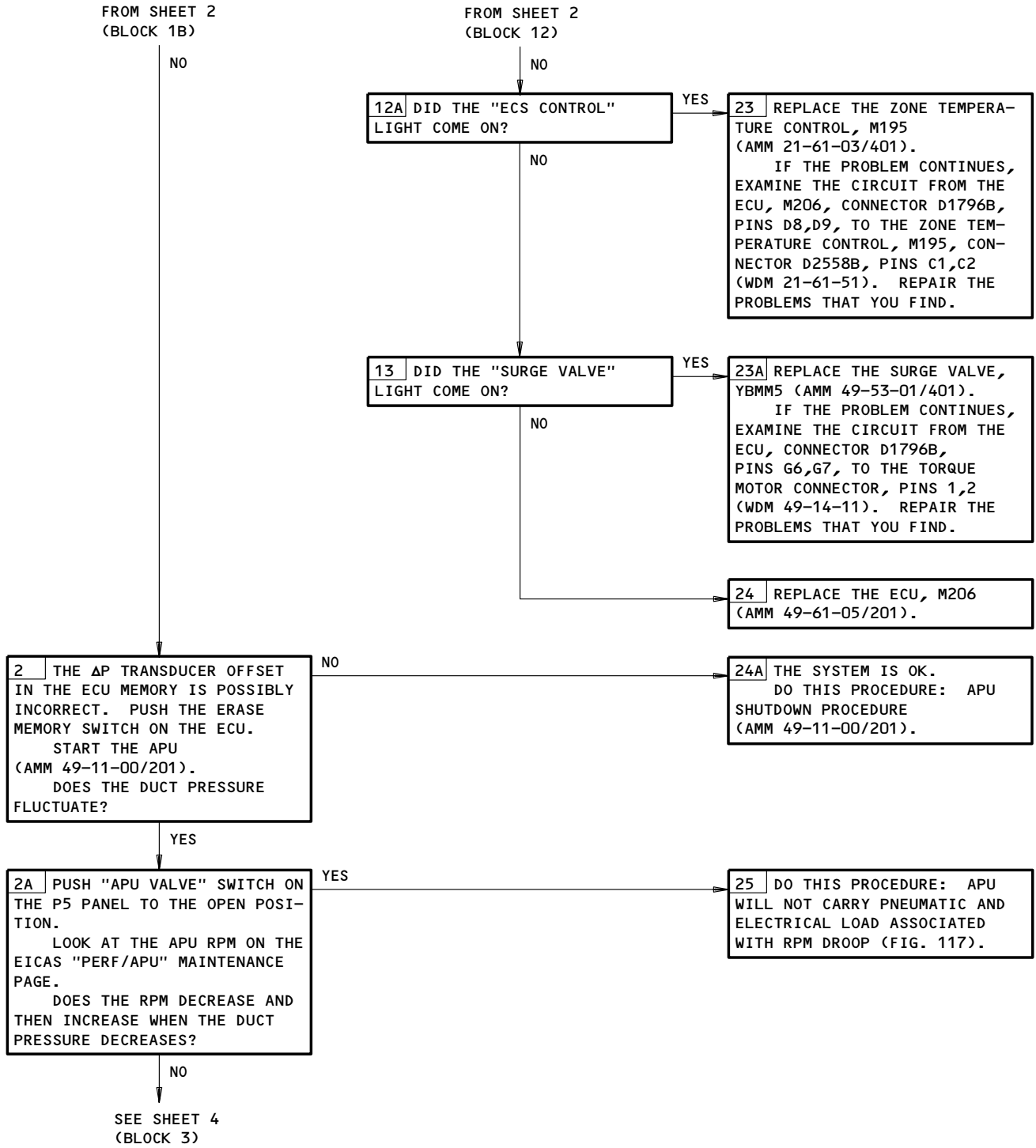
Fluctuating Duct Pressure  
Figure 119 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
 CONFIG 1  
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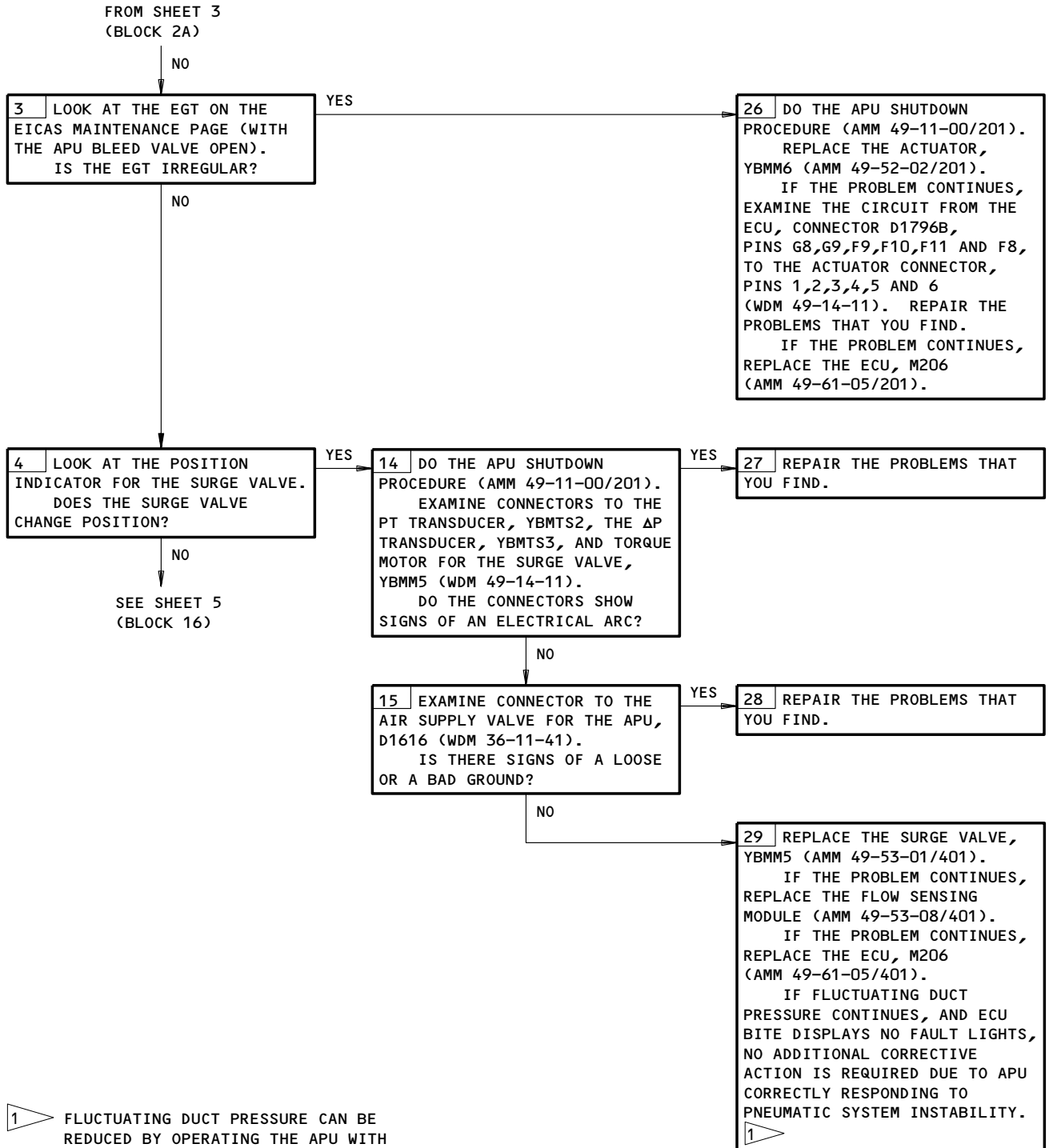
**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



Fluctuating Duct Pressure  
Figure 119 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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Fluctuating Duct Pressure  
Figure 119 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

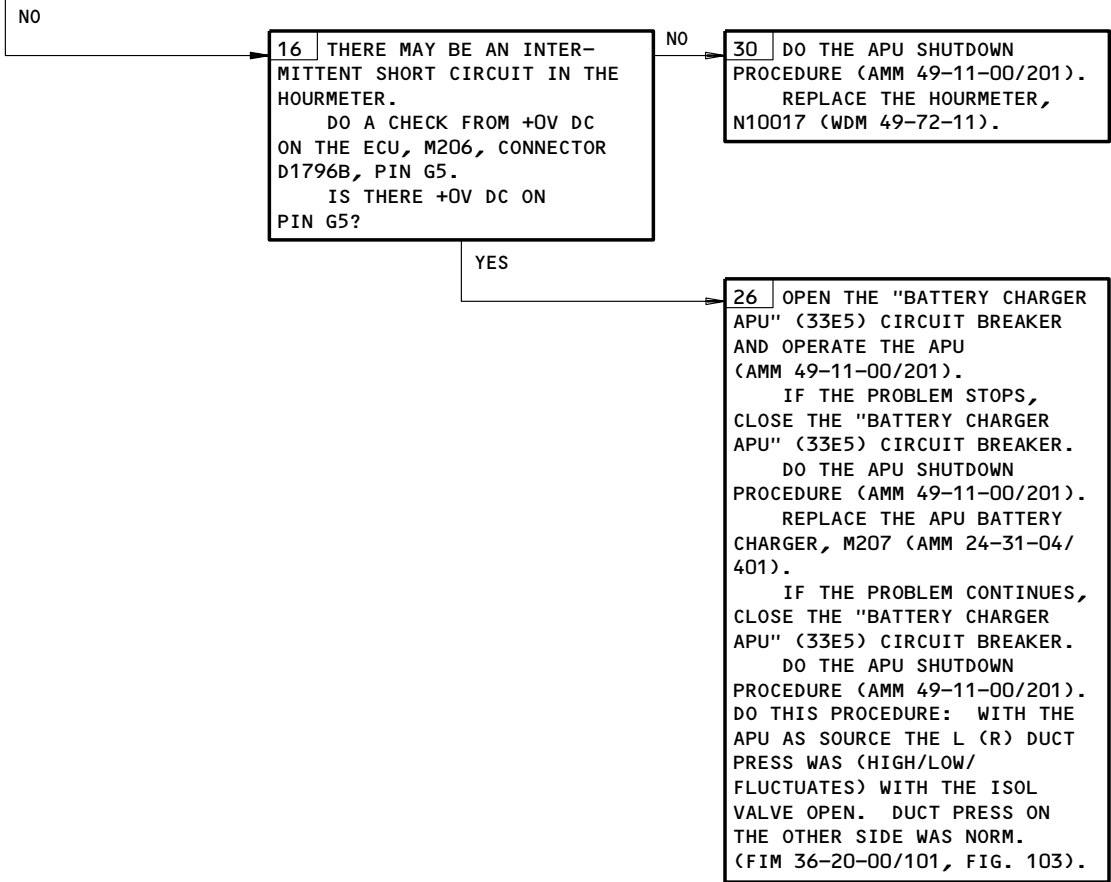
**49-11-00**  
CONFIG 1  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 4  
(BLOCK 4)



Fluctuating Duct Pressure  
Figure 119 (Sheet 5)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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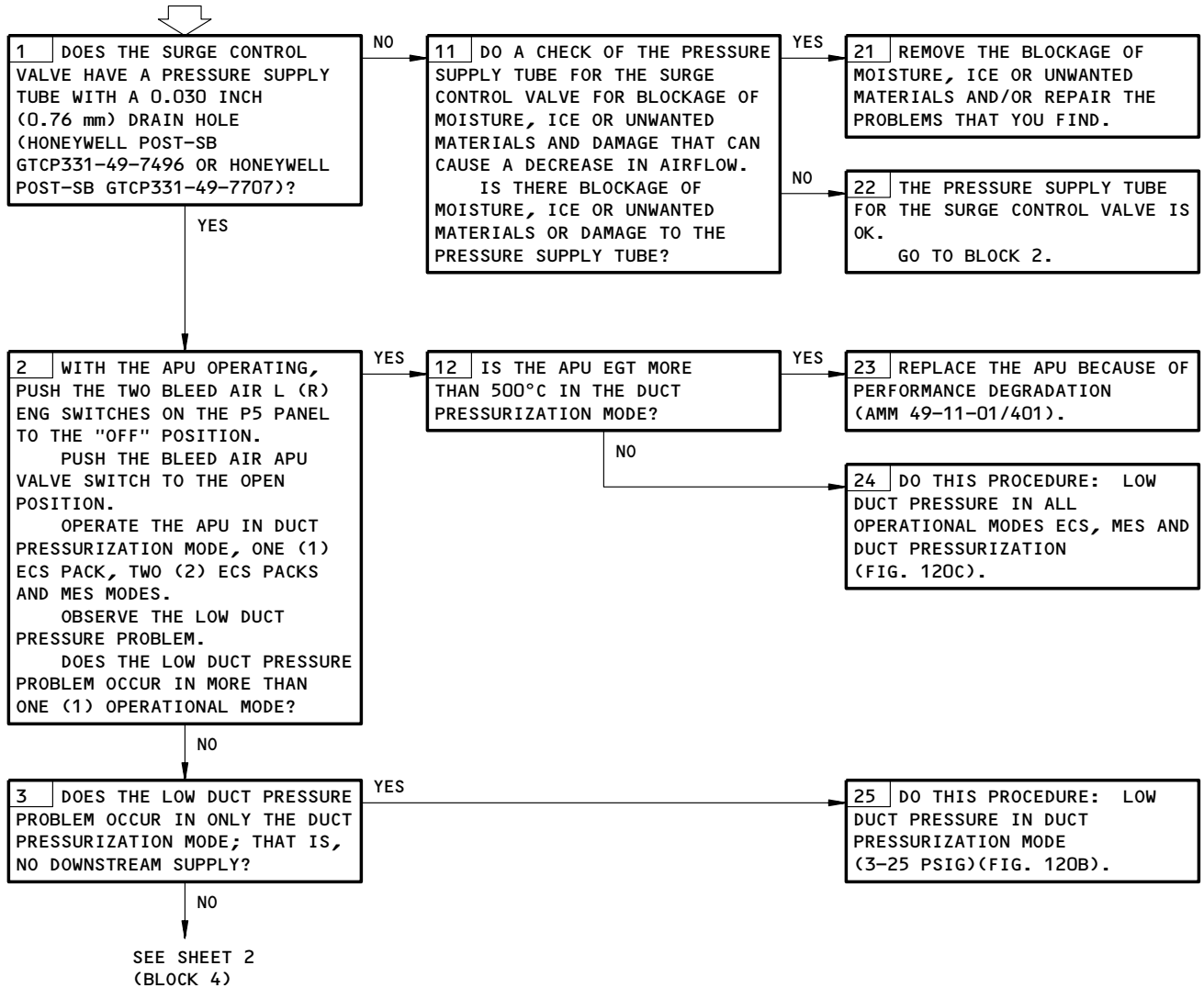
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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

**LOW DUCT PRESSURE**



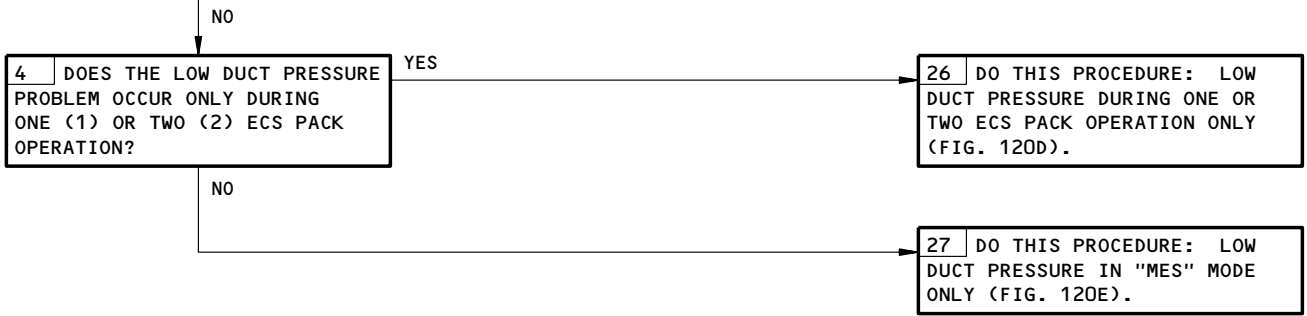
Low Duct Pressure  
Figure 120 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 3)



Low Duct Pressure  
Figure 120 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
CONFIG 1  
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Not Used  
Figure 120A

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**

CONFIG 1  
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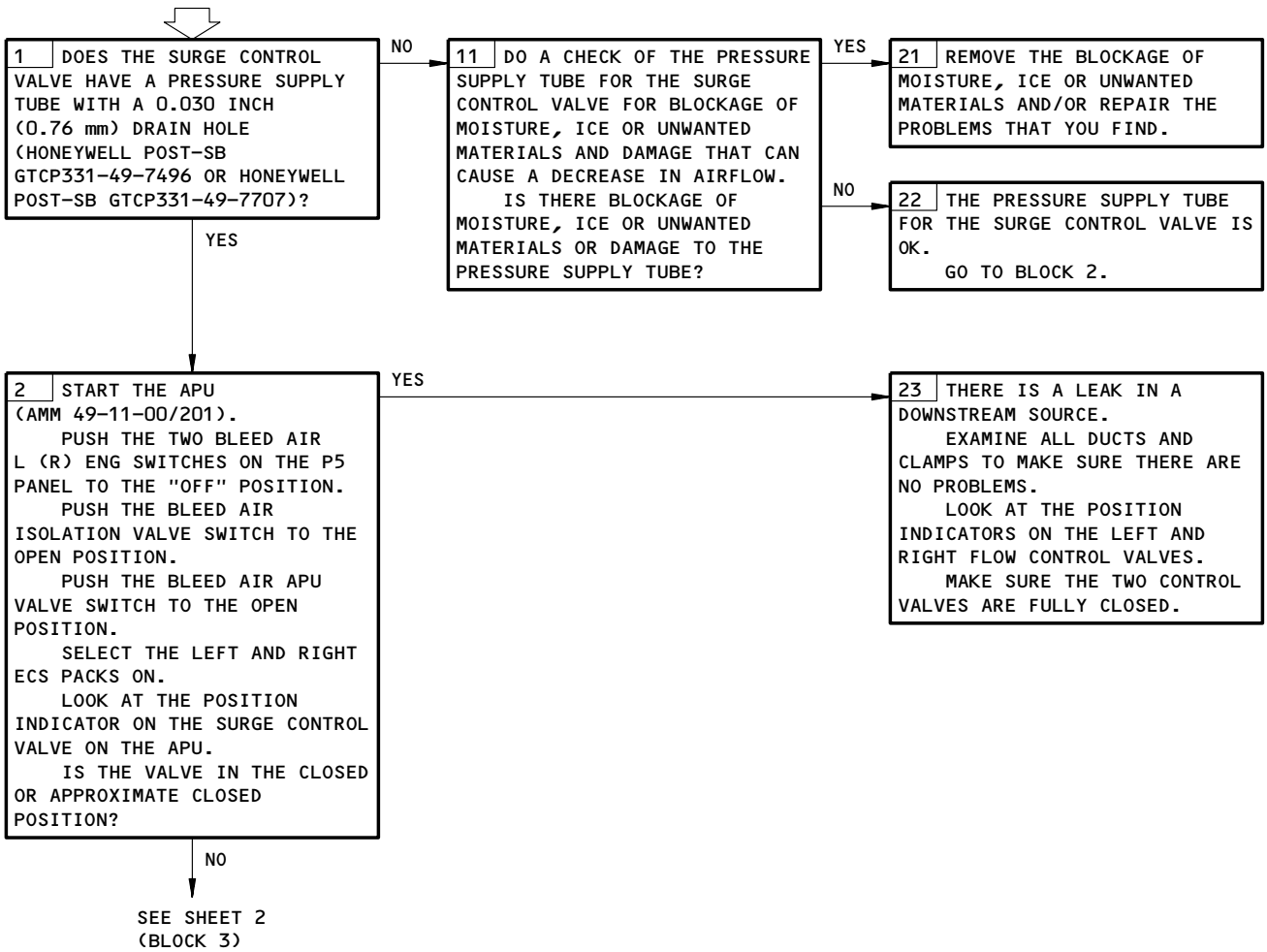
**LOW DUCT PRESSURE  
IN DUCT  
PRESSURIZATION  
MODE (3-25 PSIG)**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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



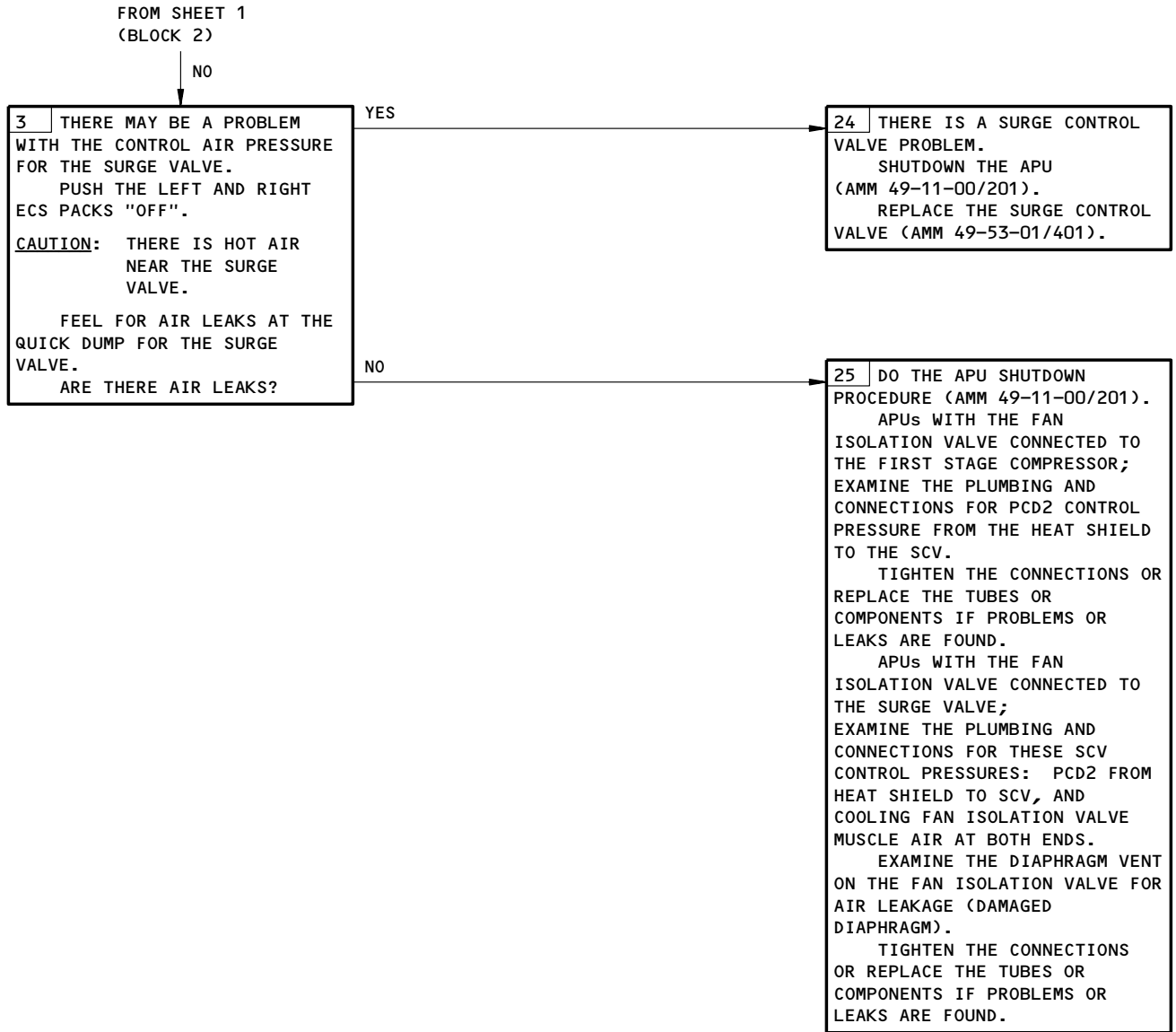
Low Duct Pressure in Duct Pressurization Mode (3-25 PSIG)  
Figure 120B (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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C75875



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

EFFECTIVITY  
 AIRPLANES WITH THE APU  
 CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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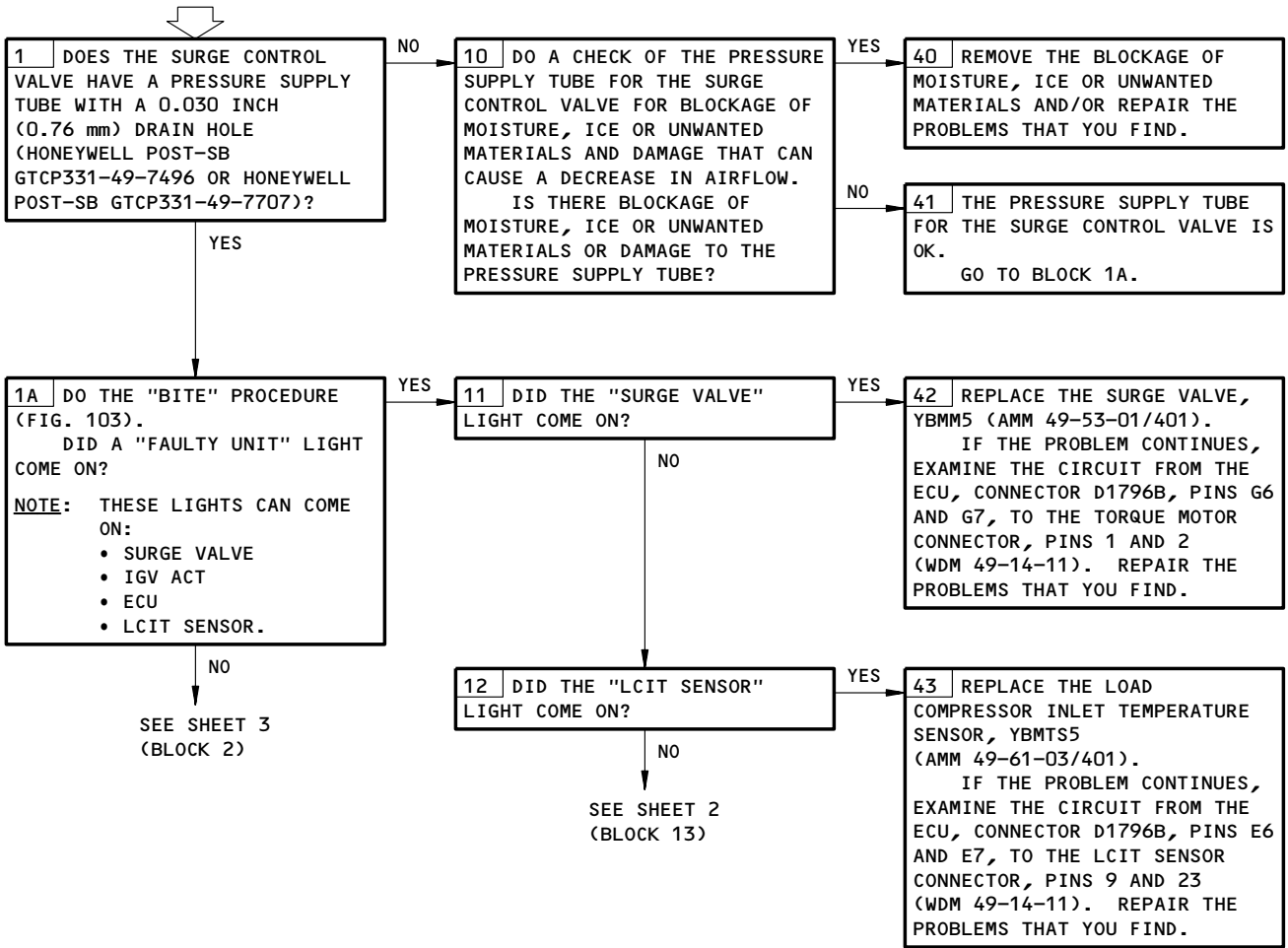
**LOW DUCT PRESSURE  
 IN ALL OPERATIONAL  
 MODES: ECS, MES  
 AND DUCT  
 PRESSURIZATION**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
 APU CONT, APU START,  
 APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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

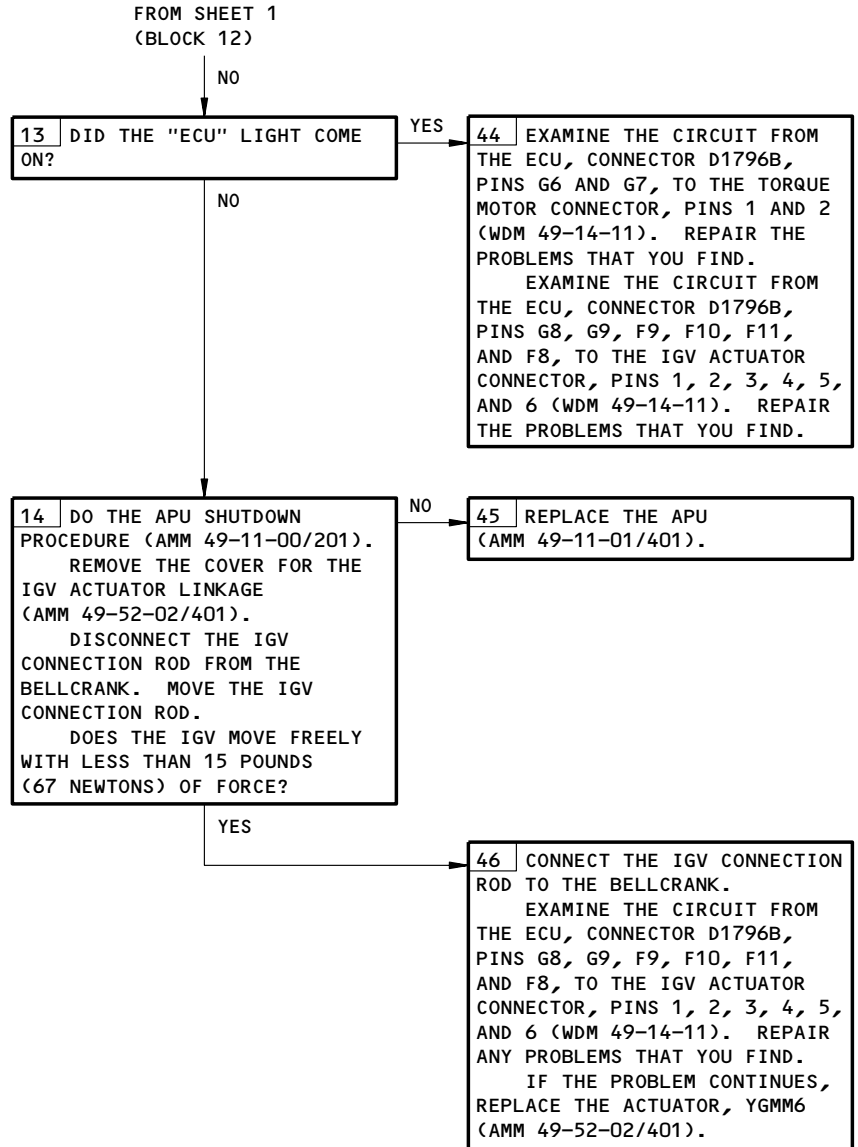


Low Duct Pressure in All Operational Modes:  
 ECS, MES and Duct Pressurization  
 Figure 120C (Sheet 1)

EFFECTIVITY  
 AIRPLANES WITH THE APU  
 CONTROL UNIT -18 AND BEFORE

**49-11-00**  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



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

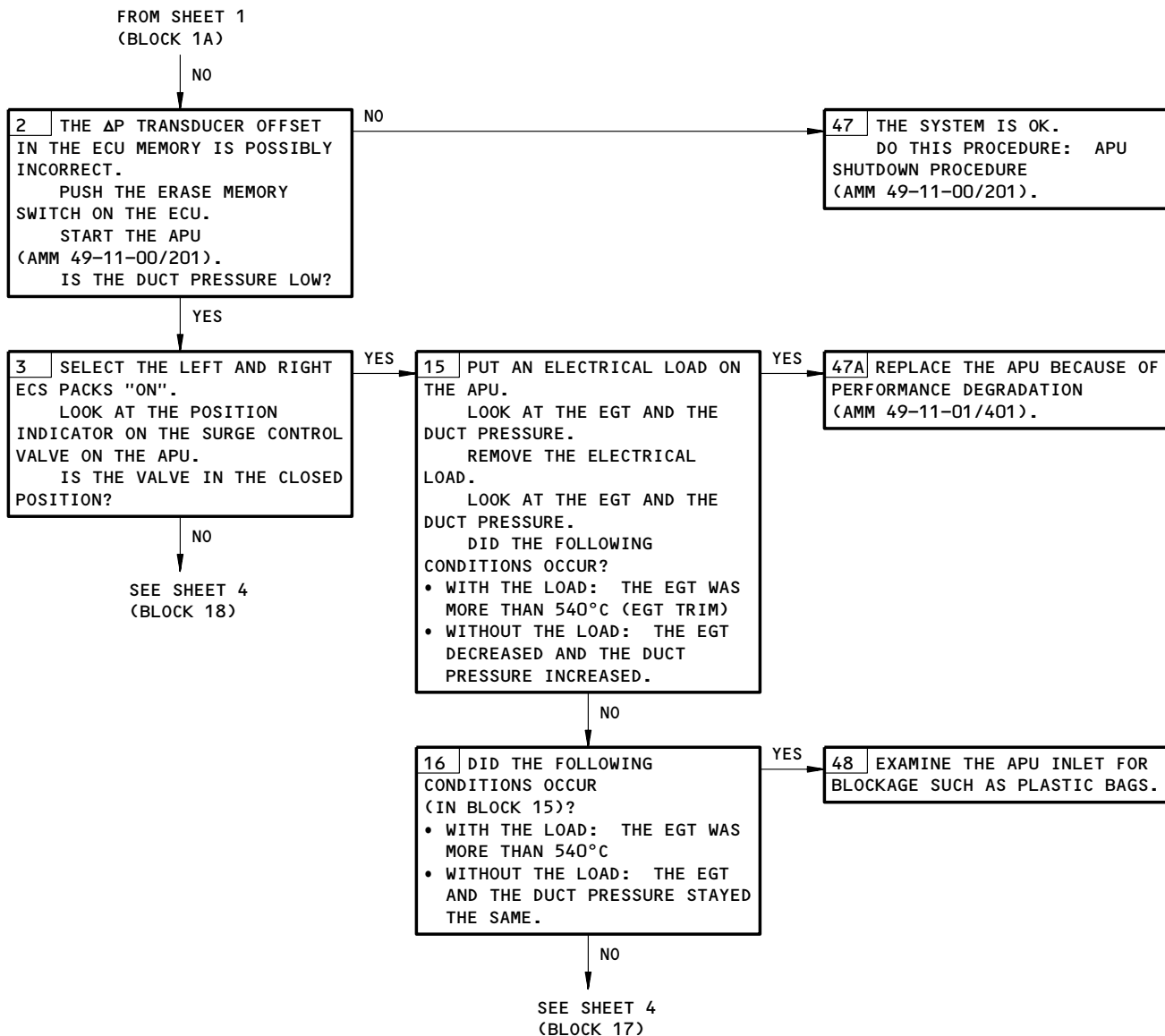
EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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CONFIG 1  
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**BOEING**  
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FAULT ISOLATION/MAINT MANUAL



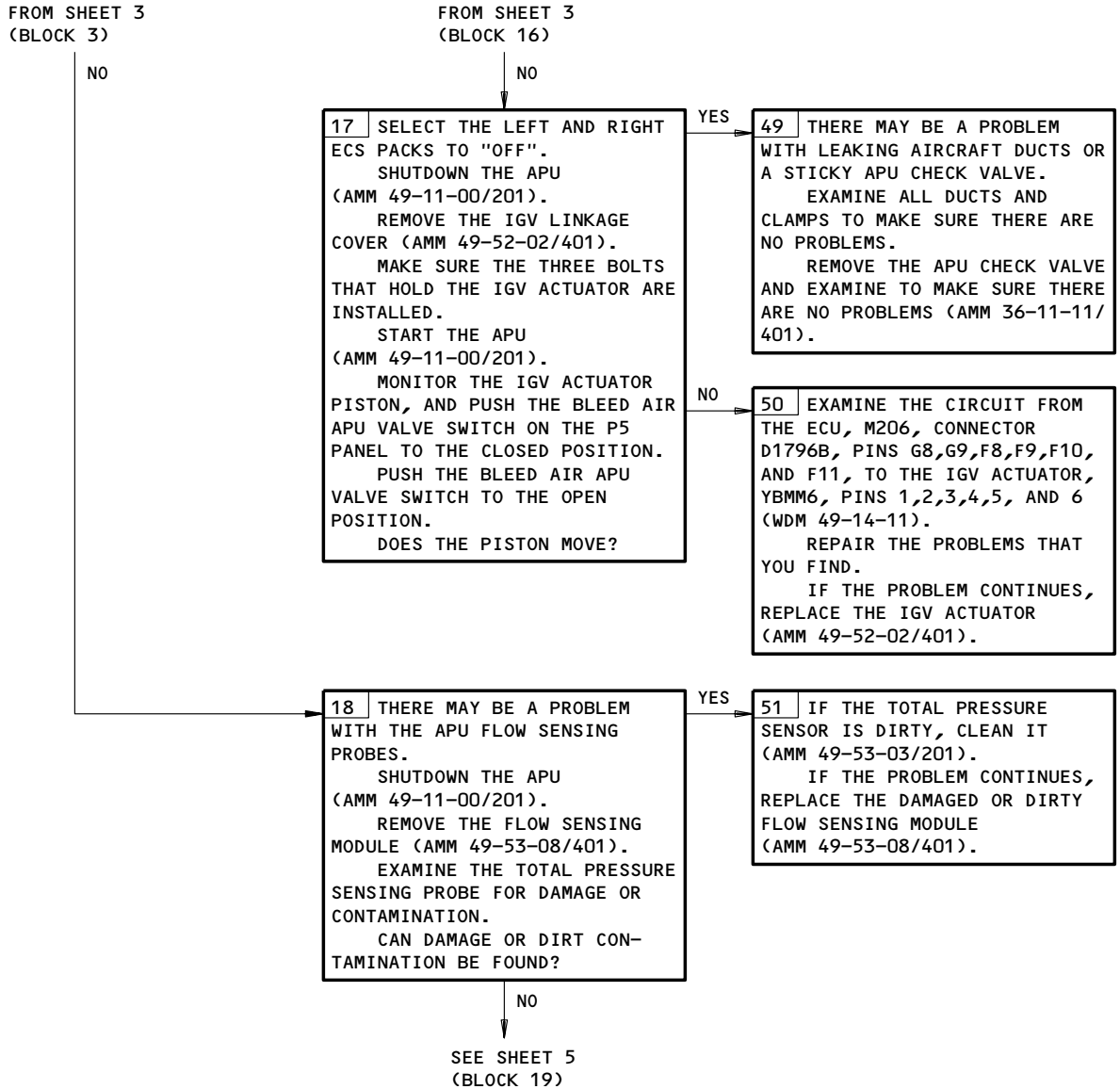
Low Duct Pressure in All Operational Modes:  
ECS, MES and Duct Pressurization  
Figure 120C (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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

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FROM SHEET 4  
(BLOCK 18)

NO

19 EXAMINE FOR CONTROL PRESSURE LEAKAGE AT THE SURGE CONTROL VALVE.

APUs WITH THE FAN ISOLATION VALVE CONNECTED TO THE FIRST STAGE COMPRESSOR; LOOK AT THE CONNECTIONS TO THE PCD.

ARE THERE POSSIBLE LEAKS?

APUs WITH THE FAN ISOLATION VALVE CONNECTED TO THE SURGE VALVE; LOOK AT THE CONNECTIONS TO THE PCD AND THE FAN ISOLATION VALVE.

ARE THERE POSSIBLE LEAKS?

YES

52 APUs WITH THE FAN ISOLATION VALVE CONNECTED TO THE FIRST STAGE COMPRESSOR; EXAMINE THE PLUMBING AND CONNECTIONS FOR PCD2 CONTROL PRESSURE FROM THE HEAT SHIELD TO THE SCV.

TIGHTEN THE CONNECTIONS OR REPLACE THE TUBES OR COMPONENTS IF PROBLEMS OR LEAKS ARE FOUND.

APUs WITH THE FAN ISOLATION VALVE CONNECTED TO THE SURGE VALVE; EXAMINE THE PLUMBING AND CONNECTIONS FOR THESE SCV CONTROL PRESSURES: PCD2 FROM HEAT SHIELD TO SCV, AND FAN ISOLATION VALVE MUSCLE AIR AT BOTH ENDS.

EXAMINE THE DIAPHRAGM VENT ON THE FAN ISOLATION VALVE FOR AIR LEAKAGE (DAMAGED DIAPHRAGM).

TIGHTEN THE CONNECTIONS OR REPLACE THE TUBES OR COMPONENTS IF PROBLEMS OR LEAKS ARE FOUND.

NO

53 REPLACE THE FLOW SENSING MODULE (AMM 49-53-08/401).

IF THE PROBLEM CONTINUES, REPLACE THE SURGE VALVE, YBMM5 (AMM 49-53-01/401).

IF THE PROBLEM CONTINUES, EXAMINE ALL DUCTS, CLAMPS, APU CHECK VALVE, FOR LEAKS AND DISCONNECTED FITTINGS, AND THE APU SURGE VALVE FILTER ELEMENT FOR CORRECT INSTALLATION.

Low Duct Pressure in All Operational Modes:  
ECS, MES and Duct Pressurization  
Figure 120C (Sheet 5)

EFFECTIVITY

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AIRPLANES WITH THE APU CONTROL UNIT -18 AND BEFORE

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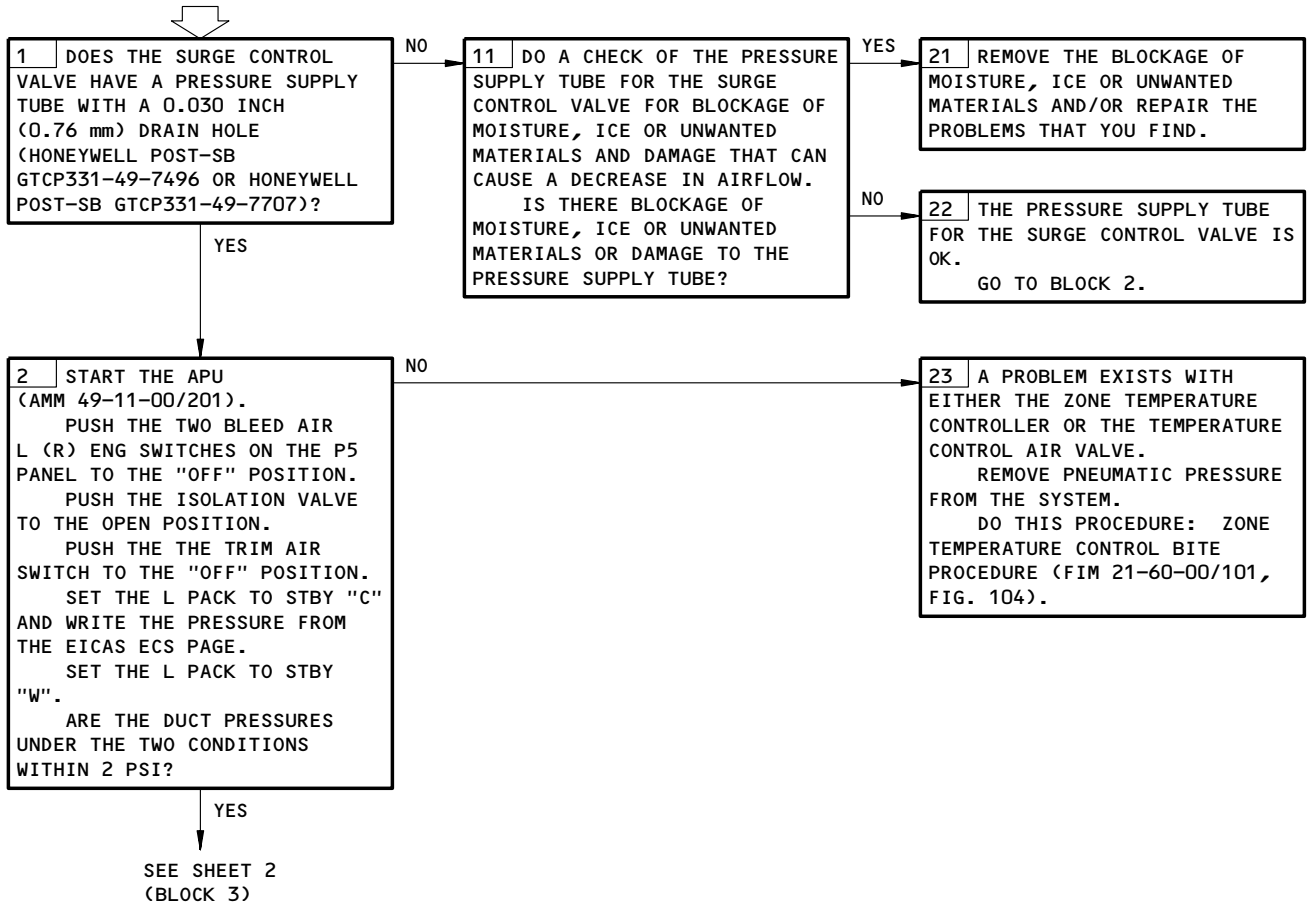
**LOW DUCT PRESSURE  
DURING ONE OR TWO  
ECS PACK OPERATION  
ONLY**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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

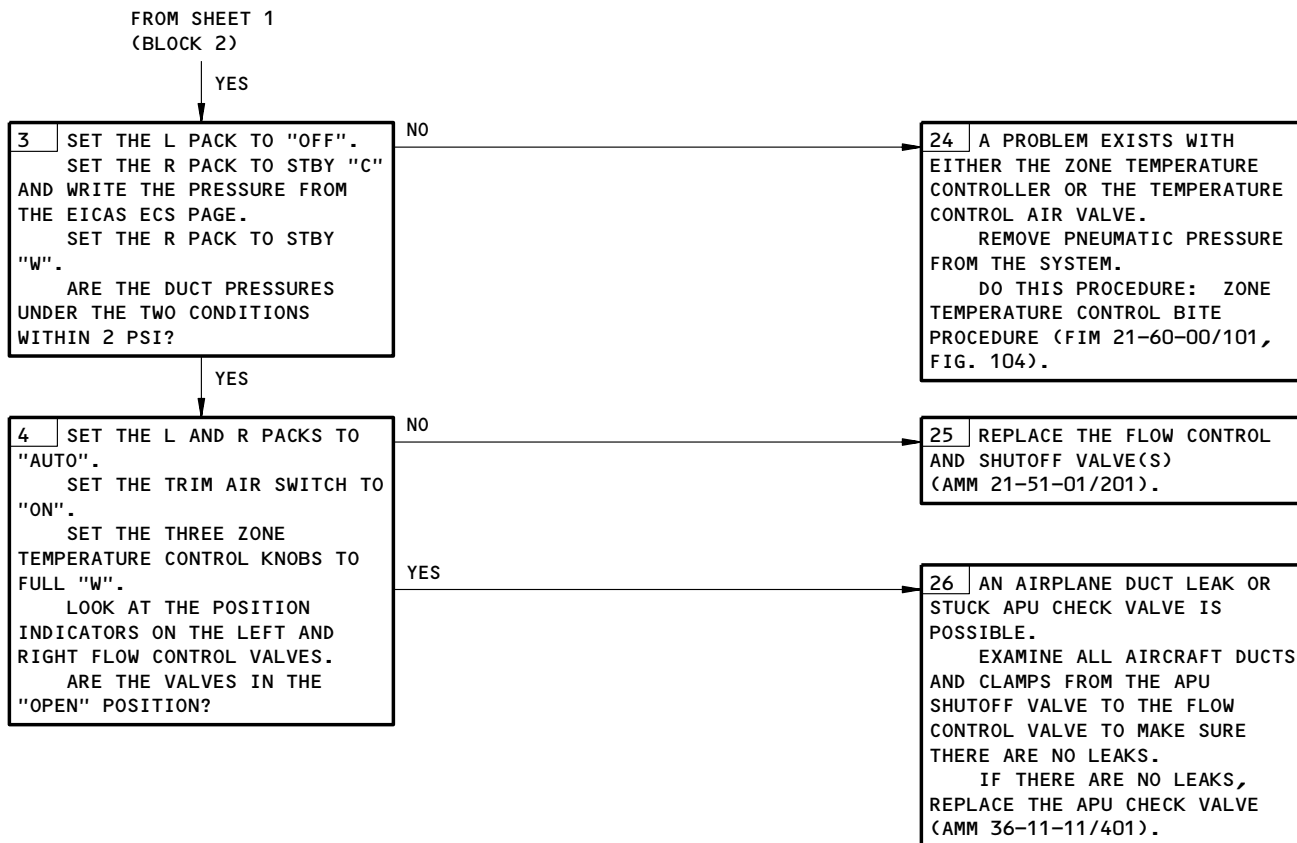


Low Duct Pressure During One or Two ECS Pack Operation Only  
Figure 120D (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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

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AIRPLANES WITH THE APU  
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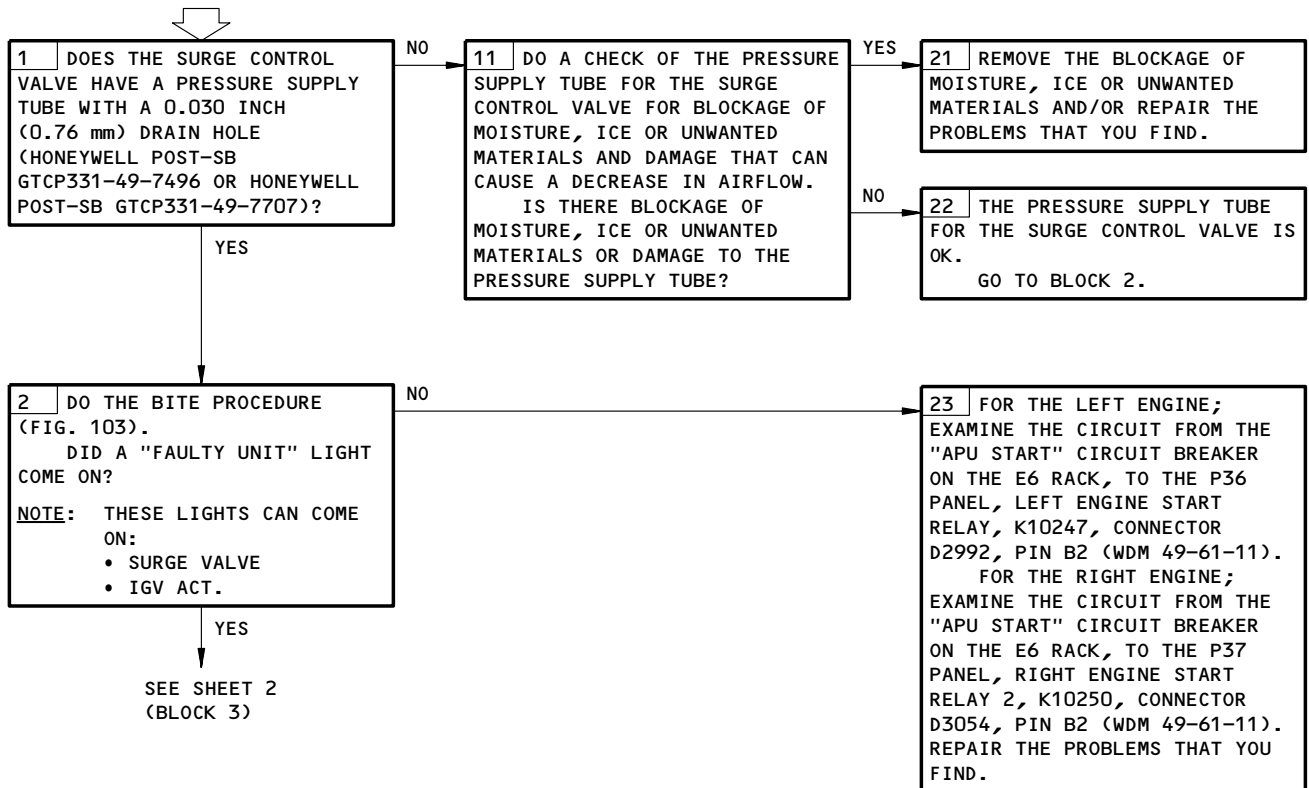
**LOW DUCT PRESSURE  
IN "MES" MODE ONLY**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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



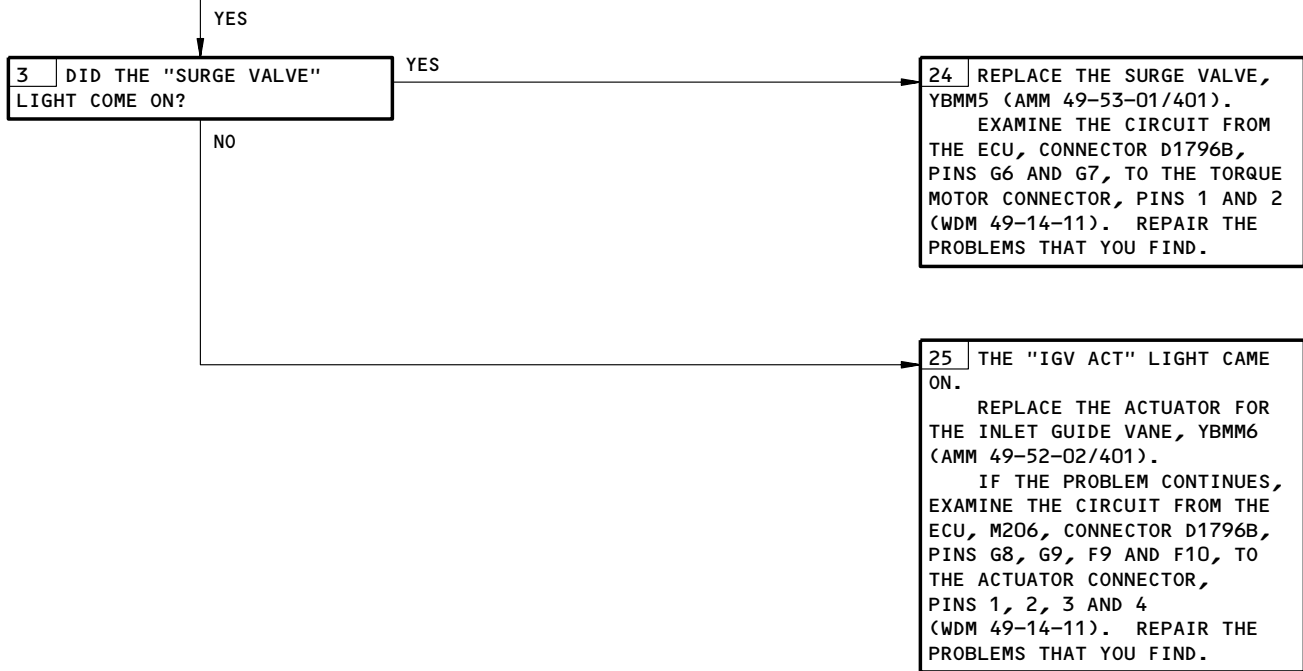
Low Duct Pressure in MES Mode Only  
Figure 120E (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU  
CONTROL UNIT -18 AND BEFORE

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

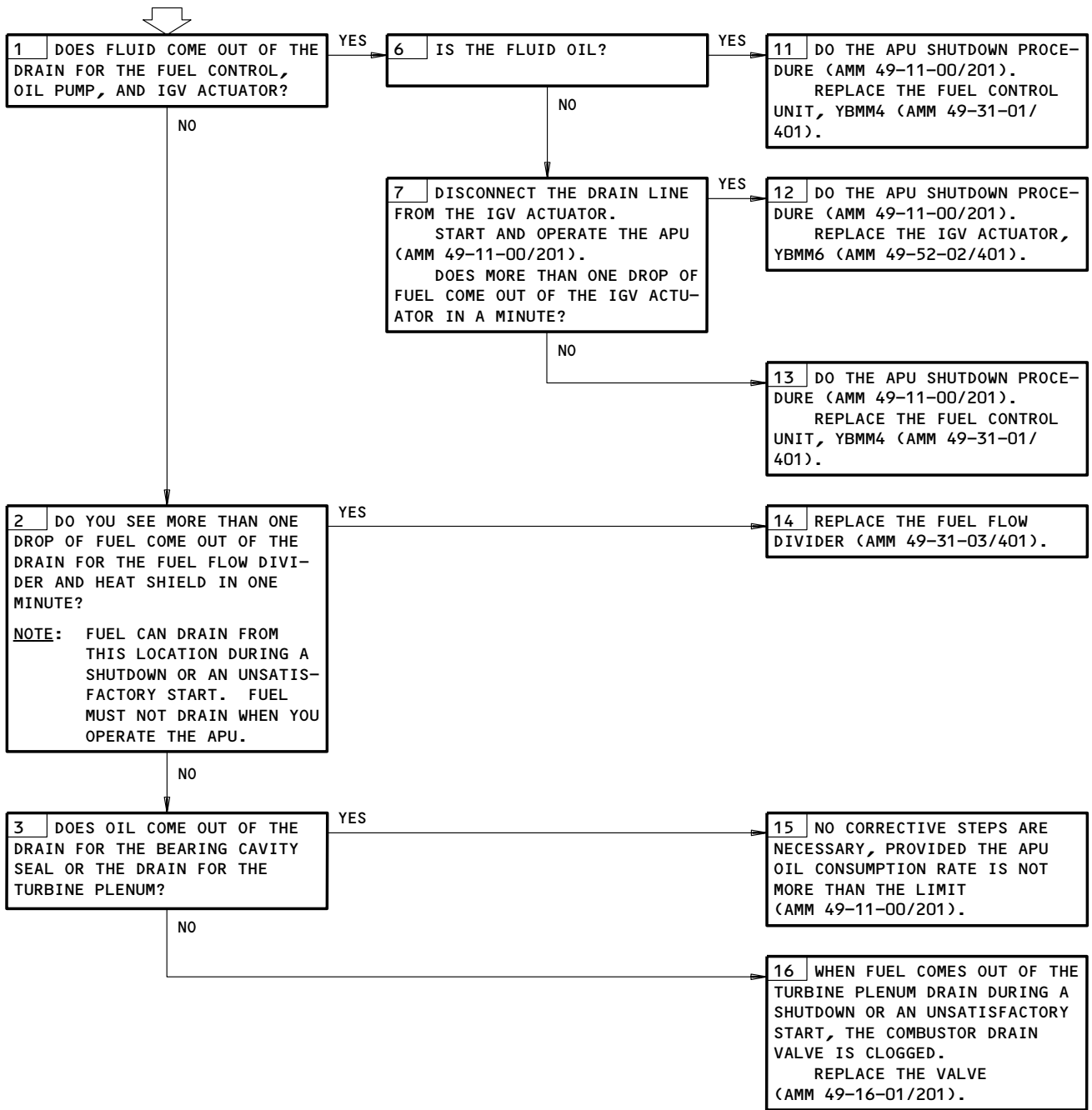
EFFECTIVITY  
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**FLUIDS COMING FROM DRAIN MAST**

**PREREQUISITES**  
NONE



Fluids Coming from Drain Mast  
Figure 121

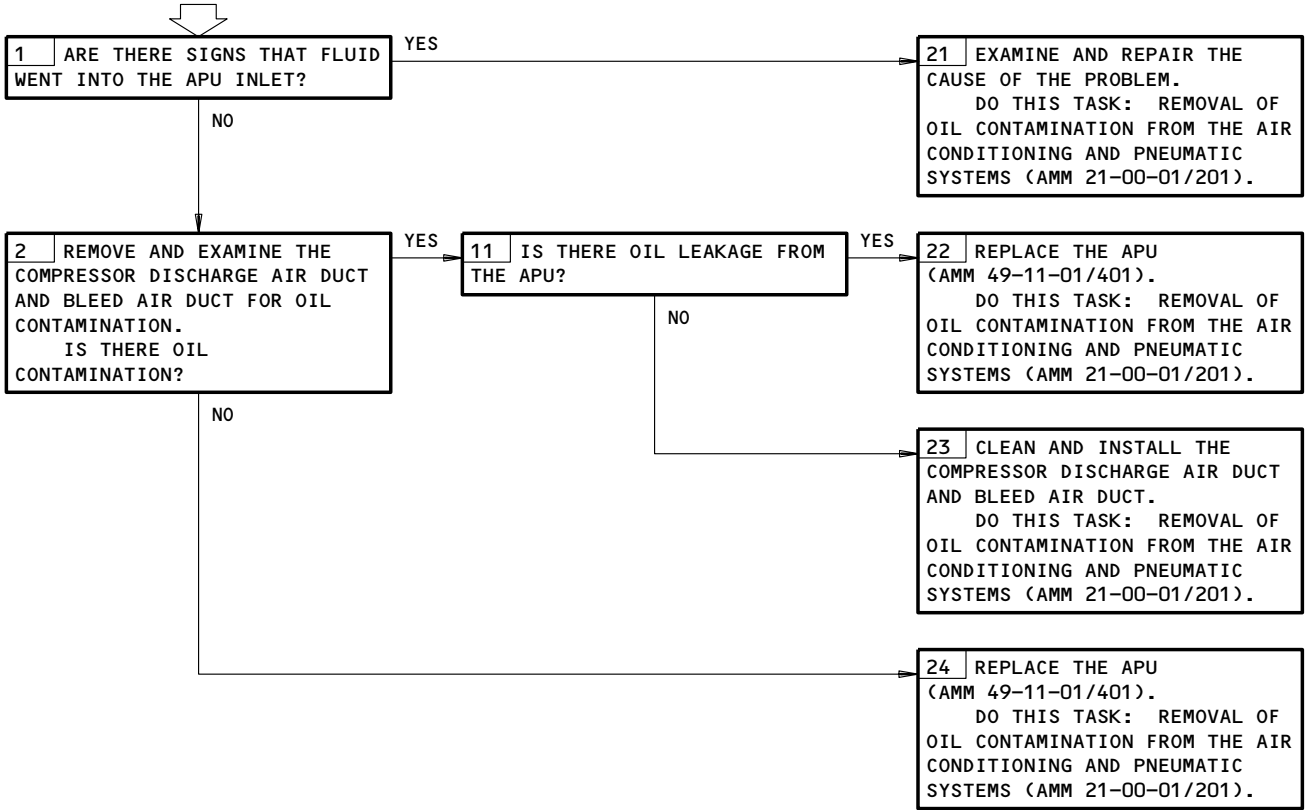
EFFECTIVITY  
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**FUMES AND/OR SMOKE  
IN THE CABIN**

**PREREQUISITES**  
NONE



Fumes and/or Smoke in the Cabin  
Figure 122

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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

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

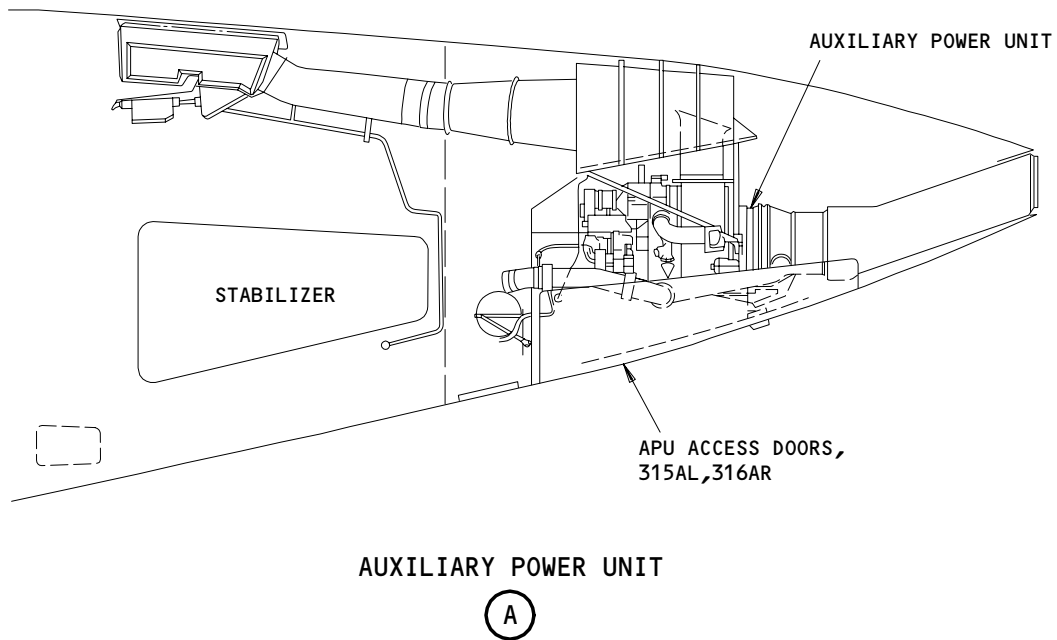
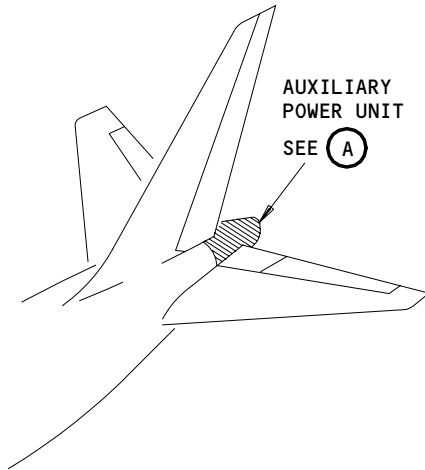
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Auxiliary Power Unit - Component Location  
 Figure 102

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
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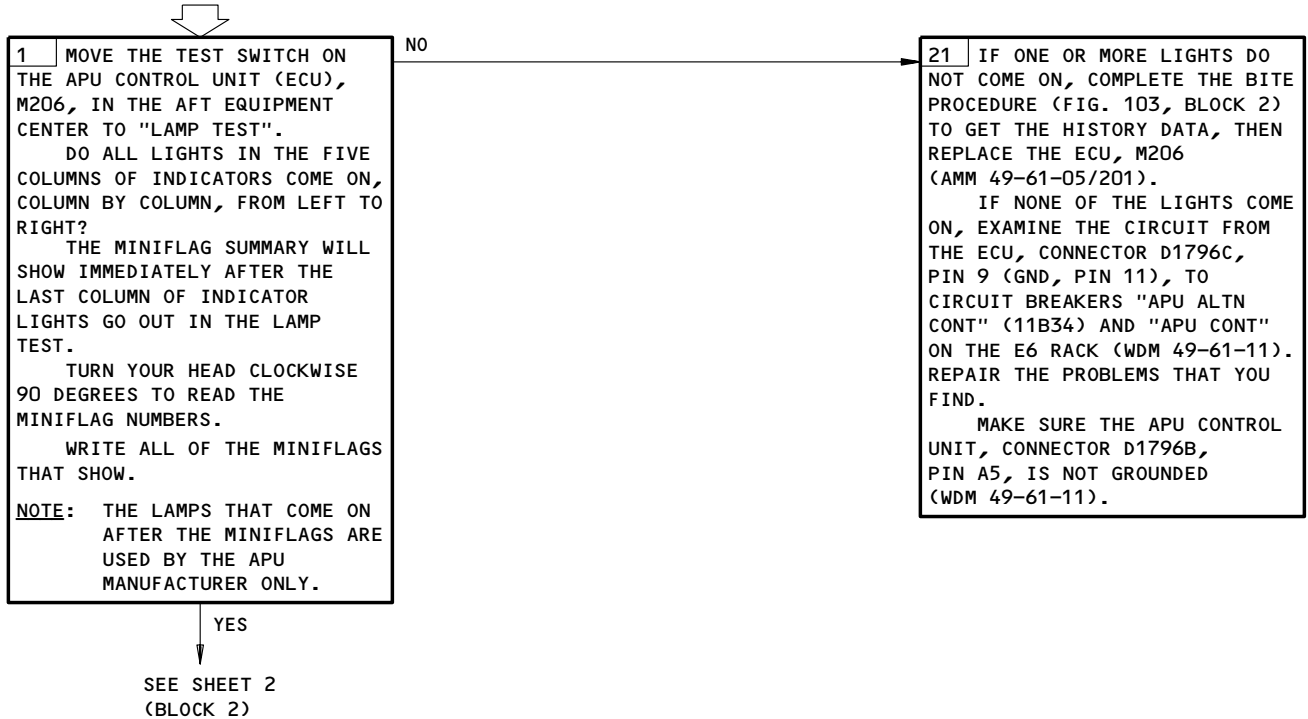
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,APU  
START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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

**APU BITE PROCEDURE**



APU BITE Procedure  
Figure 103 (Sheet 1)

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FROM SHEET 1  
(BLOCK 1)

YES

**2** PUT THE "RECORD SELECT" SWITCH TO "LAST RUN".  
PUT THE TOGGLE SWITCH TO "FAULT REASON" AND RELEASE.  
WRITE THE "REASON APU NOT OPERATING" LIGHTS THAT COME ON.  
  
PUT THE TOGGLE SWITCH TO "FAULT LRU" AND RELEASE.  
WRITE THE "FAULTY LRU" LIGHTS THAT COME ON.  
  
NOTE: THE "NO DATA" LIGHT COMES ON IF THE ECU HAS NO MAINTENANCE DATA IN ITS MEMORY.  
  
DID THE "SEE MNT MANUAL" OR "NO DATA" LIGHT COME ON WITH THE SWITCH TO "FAULTY LRU"?

YES

**22** DO THE "CORRECTIVE ACTION" FOR THE "SEE MNT MANUAL" FAULTY LRU MESSAGE OR "NO DATA" STATUS MESSAGE" IN TABLE B FOR THE "REASON APU NOT OPERATING" LIGHTS THAT COME ON.  
PUSH THE "ERASE MEMORY" SWITCH TO ERASE THE BITE MEMORY.  
  
NOTE  
  
TO LOOK AT THE PREVIOUS SHUTDOWNS, TURN THE "RECORD SELECT" SWITCH TO POSITIONS 2-4. PUT THE TOGGLE SWITCH TO "FAULT REASON" AND RELEASE IT TO SEE THE SELECTED SYSTEM FAULT. PUT THE TOGGLE SWITCH TO "FAULT LRU" AND RELEASE IT TO SEE THE FAULTY LRUs THAT ARE RELATED TO THE SELECTED SYSTEM FAULT.

NO

**3** DO THE "CORRECTIVE ACTION" IN TABLE A FOR THE "FAULTY LRU" LIGHTS THAT COME ON.  
  
WARNING  
  
DO NOT DO THE ECU SELF-TEST AND IGNITION SYSTEM MAINTENANCE AT THE SAME TIME. THE IGNITER LEAD IS ENERGIZED DURING THE SELF-TEST AND CAN CAUSE INJURY TO PERSONS.  
  
PUT THE TEST SWITCH TO "SELF TEST".  
  
NOTE: THE "WAIT" LIGHT WILL COME ON.  
  
WRITE THE "FAULTY LRU" LIGHTS THAT COME ON.  
DID ANY INDICATOR LIGHTS COME ON?  
  
NOTE: THE "TEST OK" LIGHT COMES ON IF NO FAULTY UNITS ARE IN MEMORY.

YES

**23** DO THE "CORRECTIVE ACTION" IN TABLE A FOR THE "FAULTY LRU" LIGHTS THAT COME ON.  
PUSH THE "ERASE MEMORY" SWITCH TO ERASE THE BITE MEMORY.

NO

SEE SHEET 3  
(BLOCK 4)

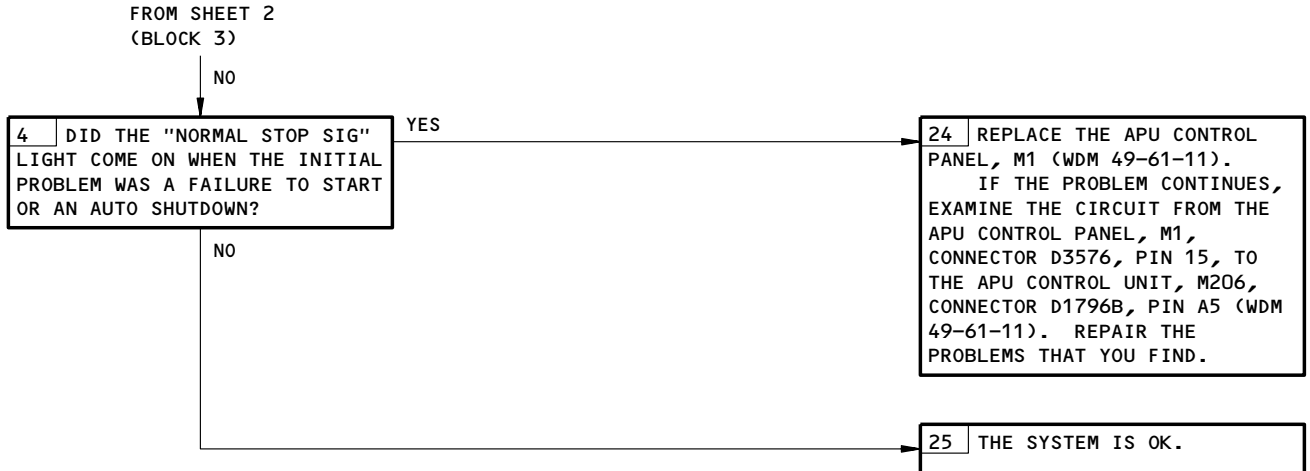
APU BITE Procedure  
Figure 103 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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MESSAGE	CORRECTIVE ACTION	IF THE PROBLEM CONTINUES
INLET DOOR RLY LCIT SENSOR	FIG. 132 REPLACE THE LCIT SENSOR, YBMTS5 (AMM 49-61-03/401). 1 2	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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). 1 3	MAKE SURE THE ECU, CONNECTOR D1796B, PIN C5, IS NOT GROUNDED. 2 REPAIR THE PROBLEMS THAT YOU FIND.
FUEL CONTROL	FIG. 126	

FAULTY LRU - REFERENCE  
TABLE A

- 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 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  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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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 D1796B, 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 D1796B, PINS J4 AND J5, TO THE SOLENOID CONNECTOR, PINS 1 AND 2. EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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 D1796B, 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 D1796B, 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  
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MESSAGE	CORRECTIVE ACTION	IF THE PROBLEM CONTINUES
HOT SENSOR	REPLACE THE OIL TEMPERATURE (HOT) SENSOR, YBMTS1 (AMM 49-94-01/401). 1 2	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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 ECU FAN VALVE	FIG. 130 FIG. 131 APU WITHOUT THE FAN ISOLATION VALVE (POST-ALLIEDSIGNAL-SB 49-7391); IGNORE THIS MESSAGE, IT IS A NUISANCE MESSAGE. 1 APU WITH THE FAN ISOLATION VALVE (PRE-ALLIEDSIGNAL-SB 49-7391); REPLACE THE FAN ISOLATION VALVE, YBMS4 (AMM 49-51-02/401). 1 2	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. 1 2 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. 1 2 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 AP SWITCH, YBMS1 (AMM 49-27-15/401). 1 2	EXAMINE THE CIRCUIT FROM THE ECU, CONNECTOR D1796B, 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)

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AIRPLANES WITH THE APU CONTROL  
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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 49-61-05/201). 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 26-15-11).
O/S TEST CIRCUIT	REPLACE THE ECU, M206 (AMM 49-61-05/201). 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  
AIRPLANES WITH THE APU CONTROL  
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**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)

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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 SHORTED. +28V DC WAS FOUND ON THE ECU DRIVER WHEN THE DRIVER WAS IN THE OFF POSITION. THERE IS A POSSIBLE ECU FAILURE OR A +28V DC EXTERNAL SHORT TO THE DRIVER.
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  
 AIRPLANES WITH THE APU CONTROL  
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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. INTERNAL ECU FAILURE WAS FOUND.
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  
AIRPLANES WITH THE APU CONTROL  
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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

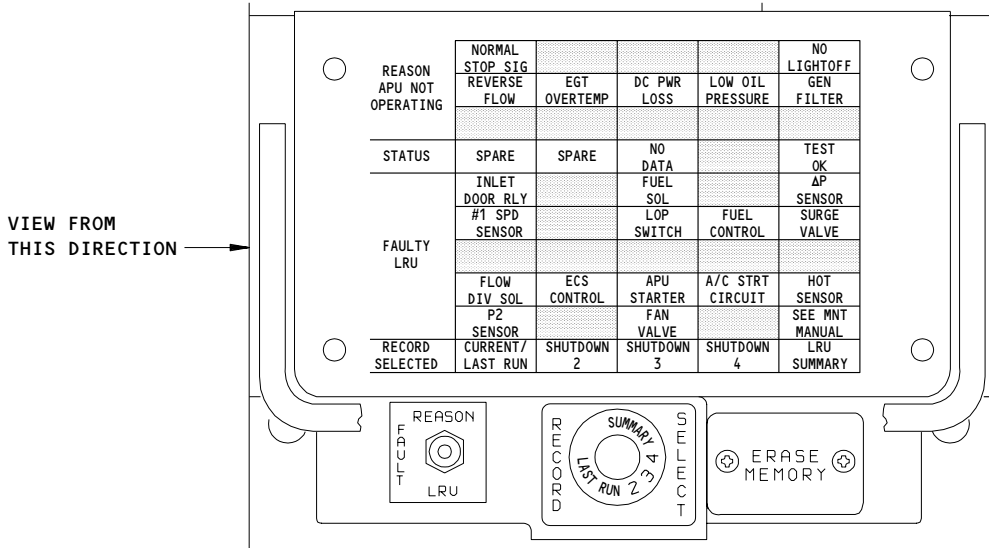
APU BITE Procedure  
Figure 103 (Sheet 10)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

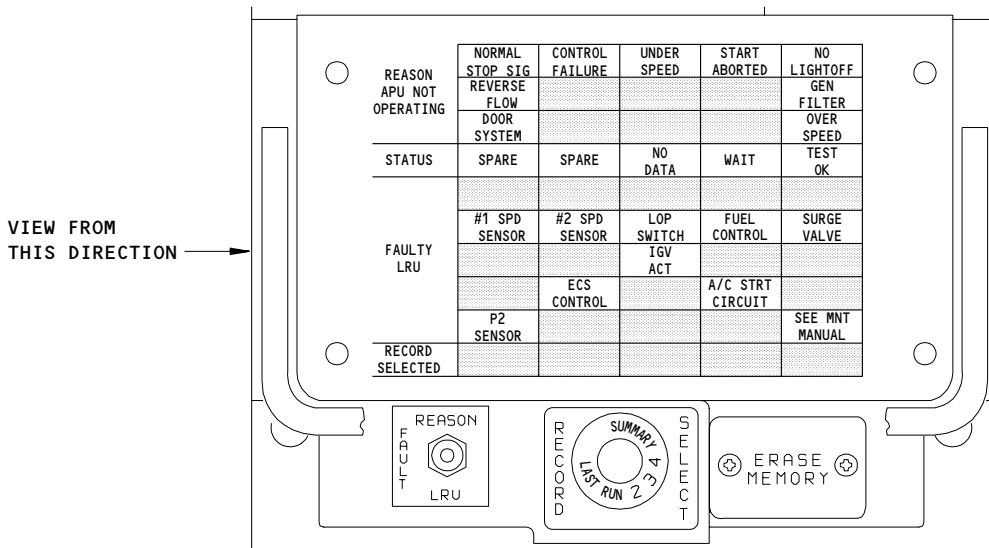
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**MINIFLAG "128"**  
(EXAMPLE OF A MINIFLAG DISPLAY ON ECU)



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

APU BITE Procedure  
Figure 103 (Sheet 11)

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AIRPLANES WITH THE APU CONTROL  
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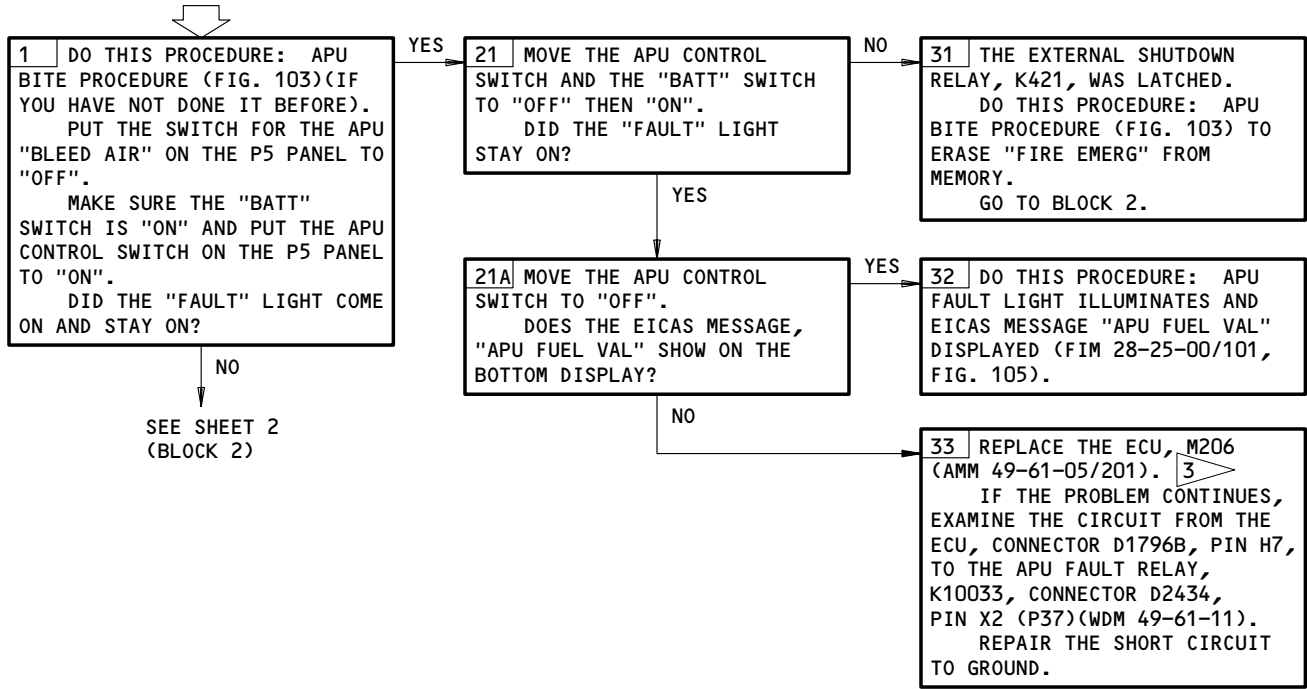
**APU STARTING PROBLEMS**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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



- 1 WHEN YOU START THE APU, LOOK AT THE APU BATTERY VOLTAGE AND THE CURRENT ON THE EICAS "ELEC/HYD" DISPLAY. LOOK AT THE APU RPM AND THE EGT ON THE EICAS "PERF/APU" DISPLAY.
- 2 PUSH THE "ECS/MSG" SWITCH ON THE EICAS PANEL, P61, AND MAKE SURE "APU DOOR" MESSAGE DOES NOT SHOW.
- 3 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) TO MAKE SURE THE PROBLEM IS REPAIRED.

APU Starting Problems  
Figure 104 (Sheet 1)

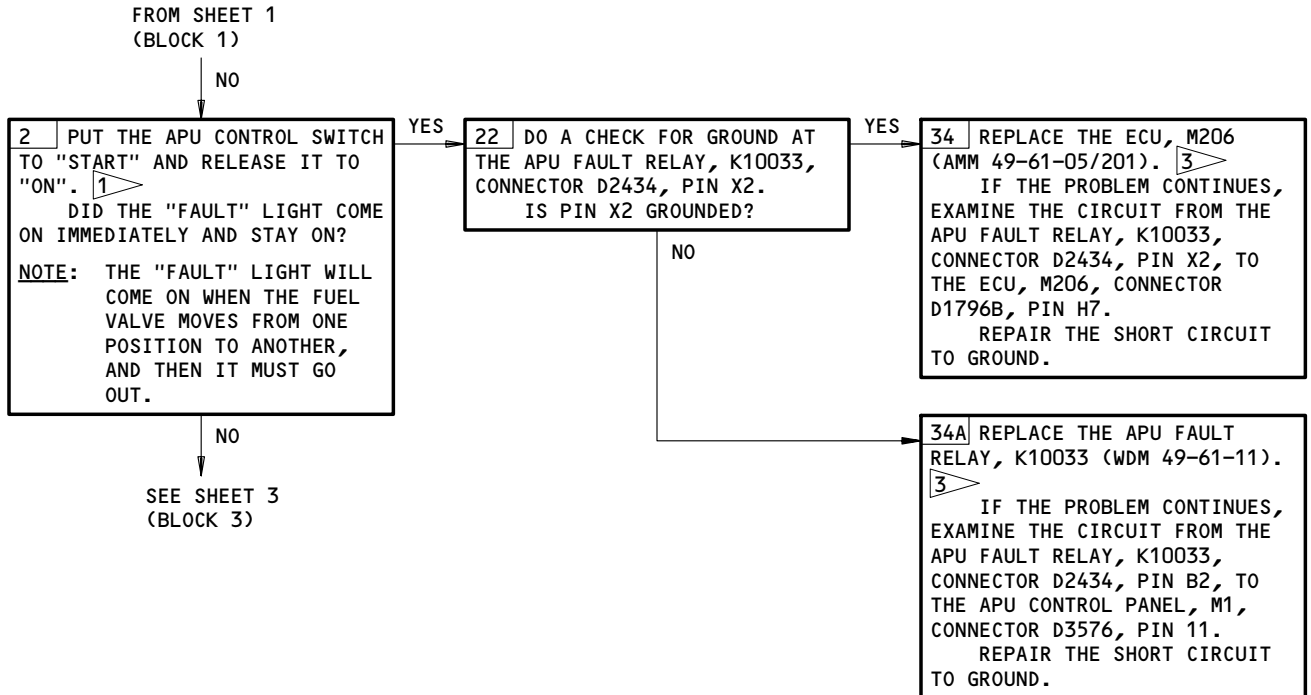
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
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APU Starting Problems  
Figure 104 (Sheet 2)

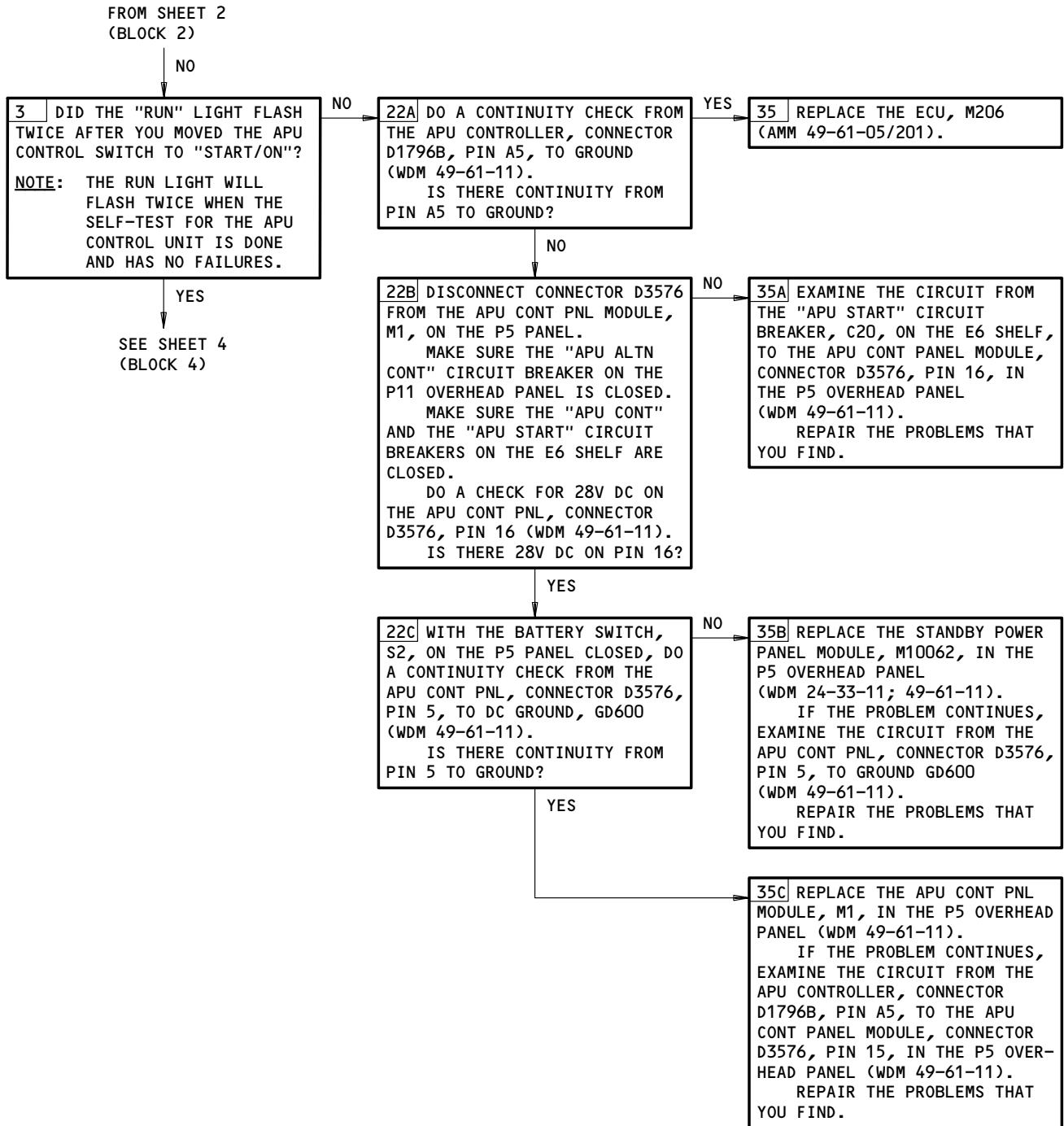
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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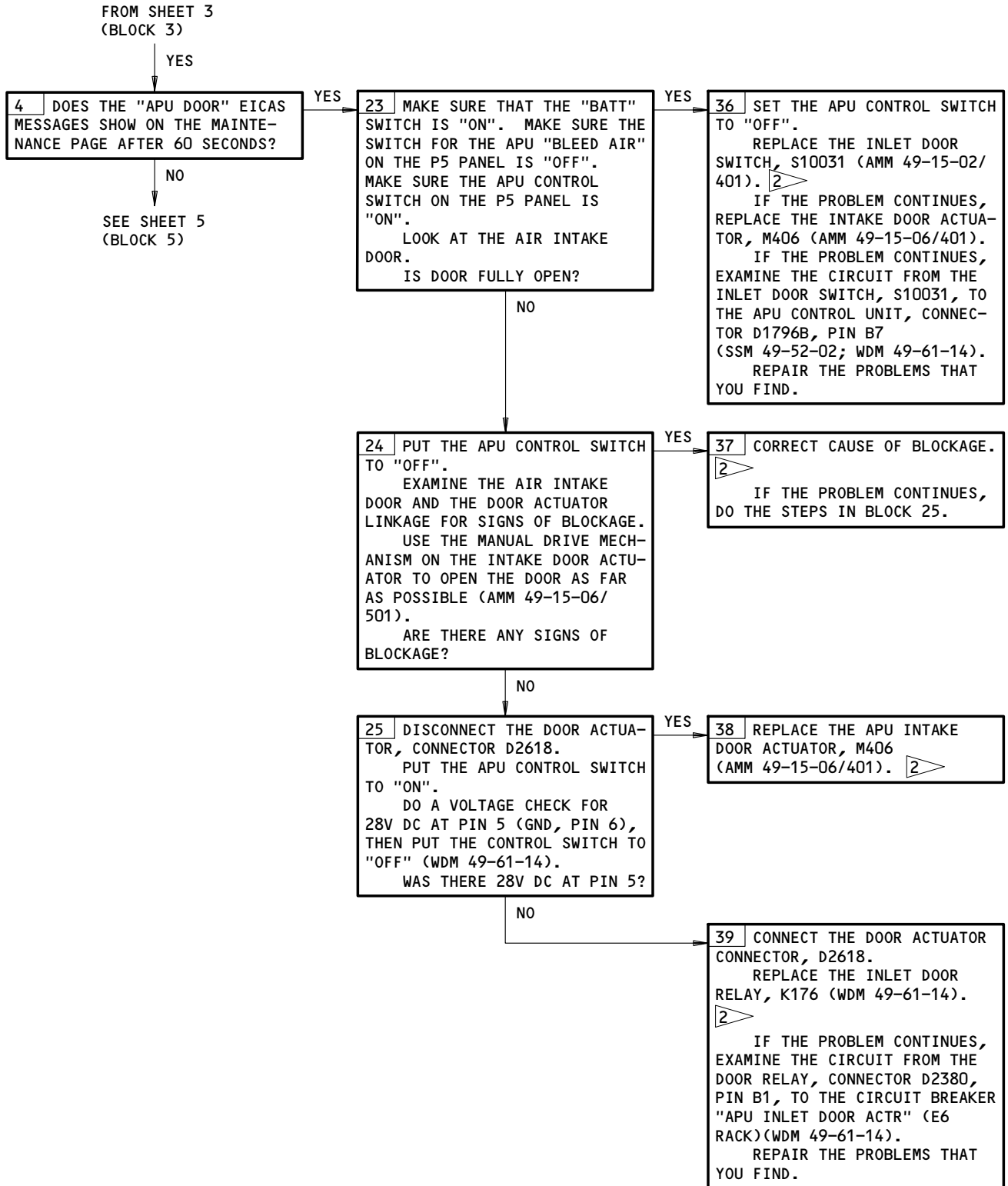
APU Starting Problems  
Figure 104 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
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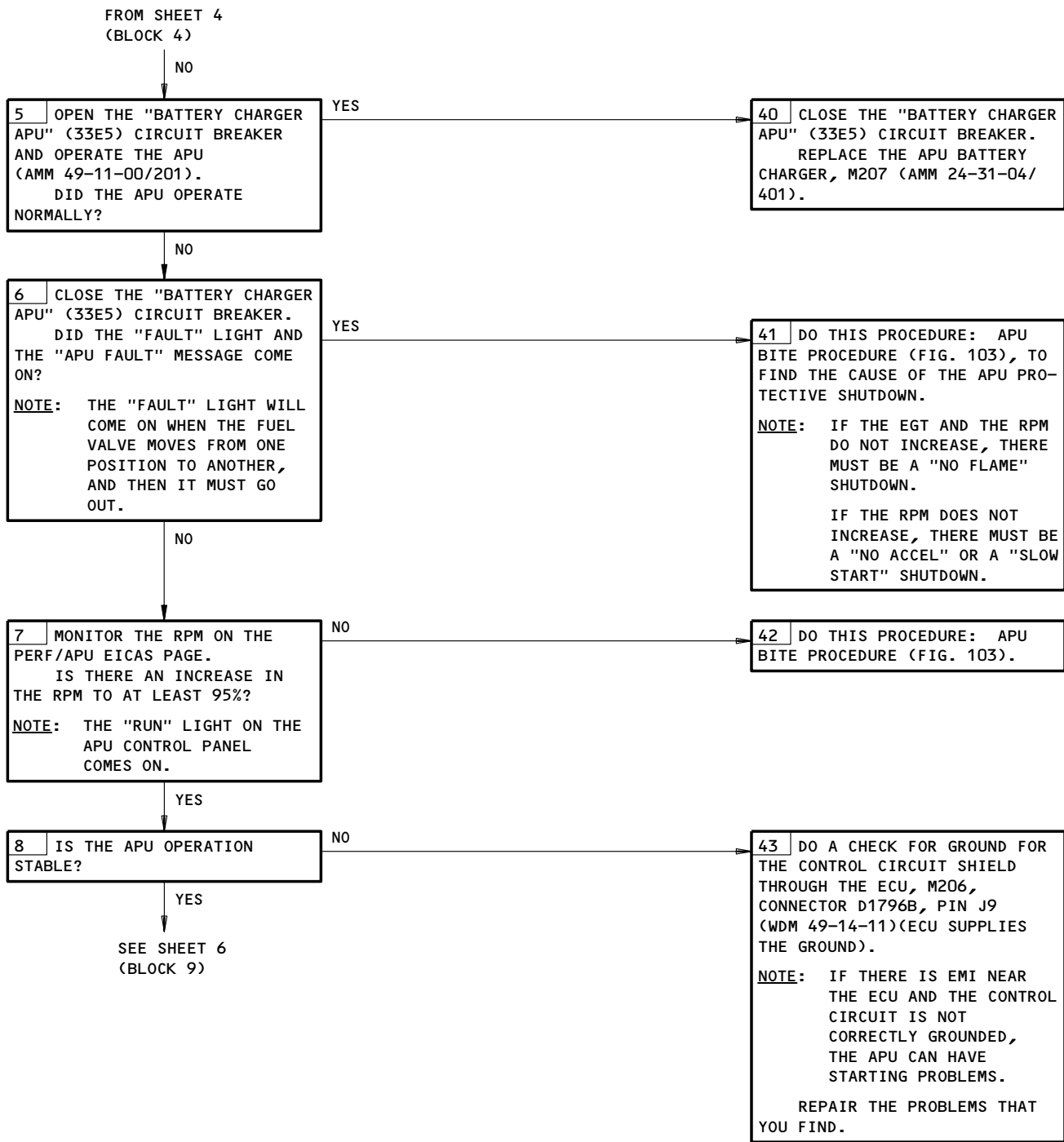


APU Starting Problems  
Figure 104 (Sheet 4)

EFFECTIVITY  
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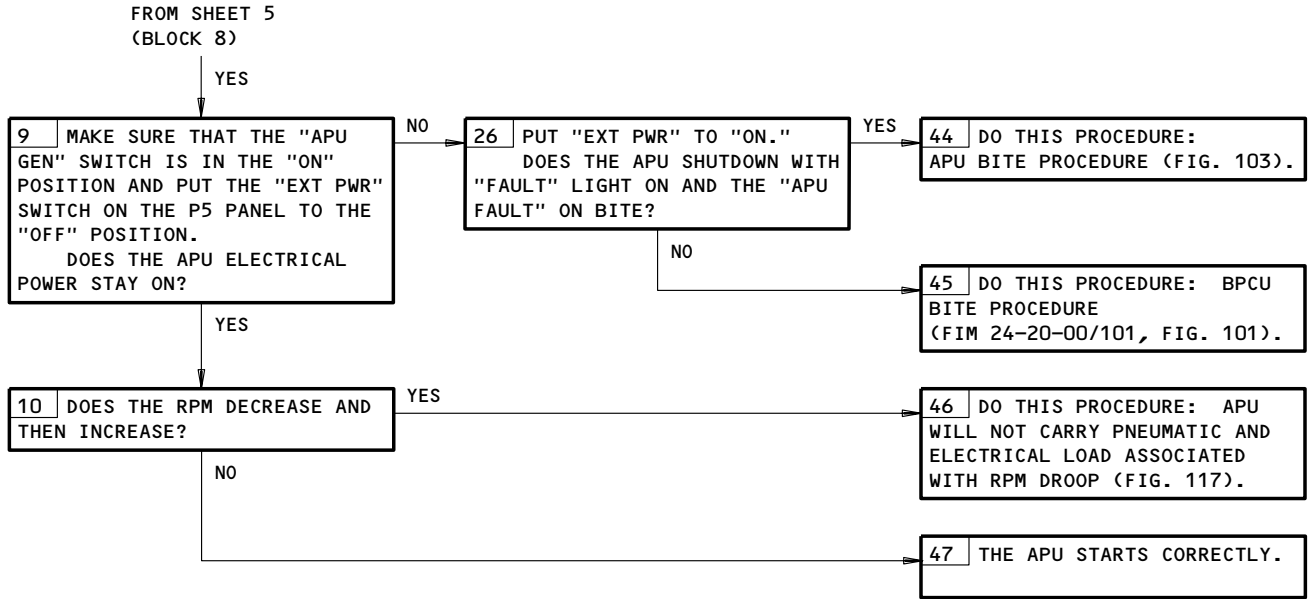
APU Starting Problems  
Figure 104 (Sheet 5)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
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APU Starting Problems  
Figure 104 (Sheet 6)

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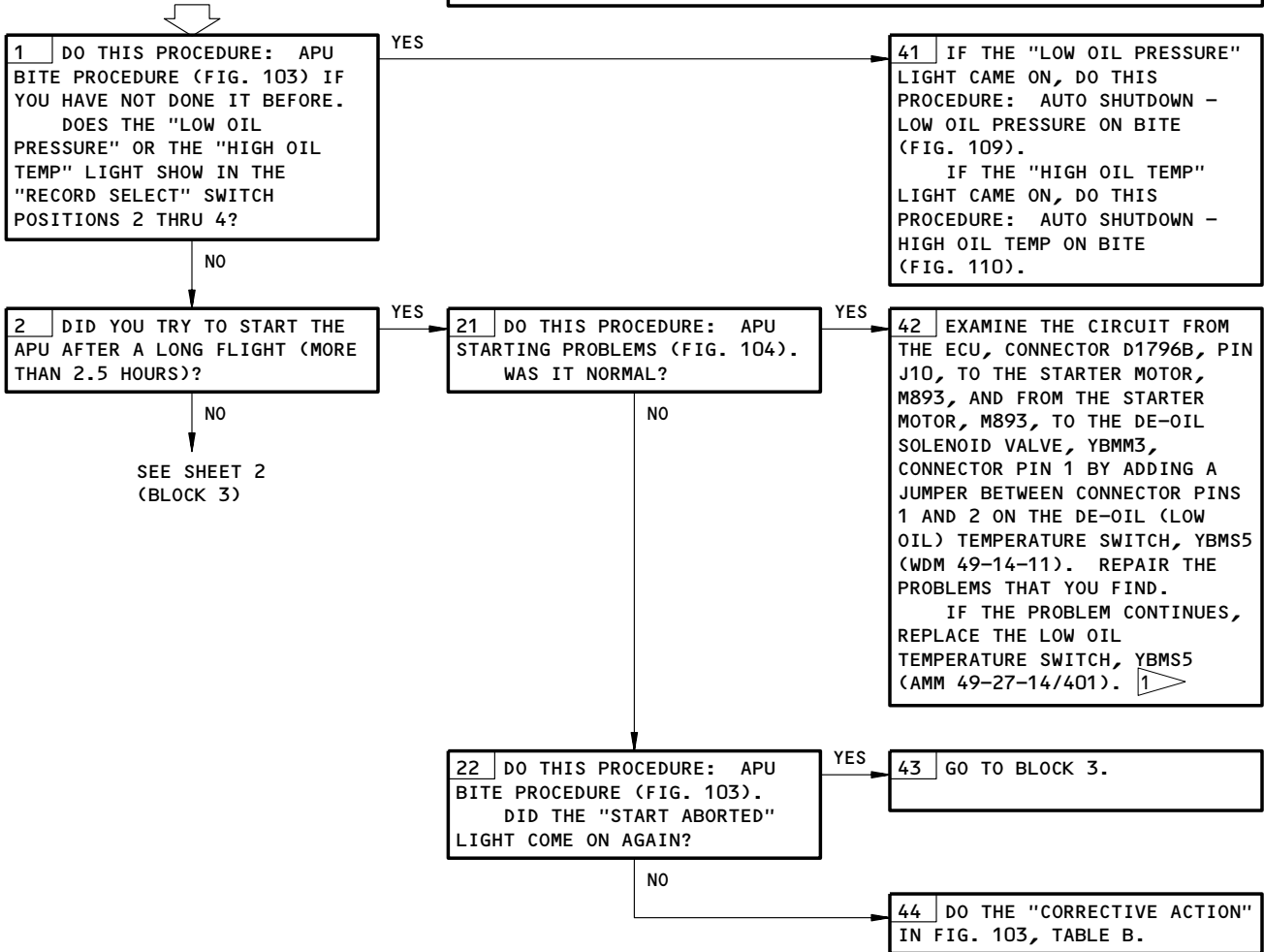
**AUTO SHUTDOWN –  
"START ABORTED" ON  
BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35, APU  
CONT, APU START, APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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).

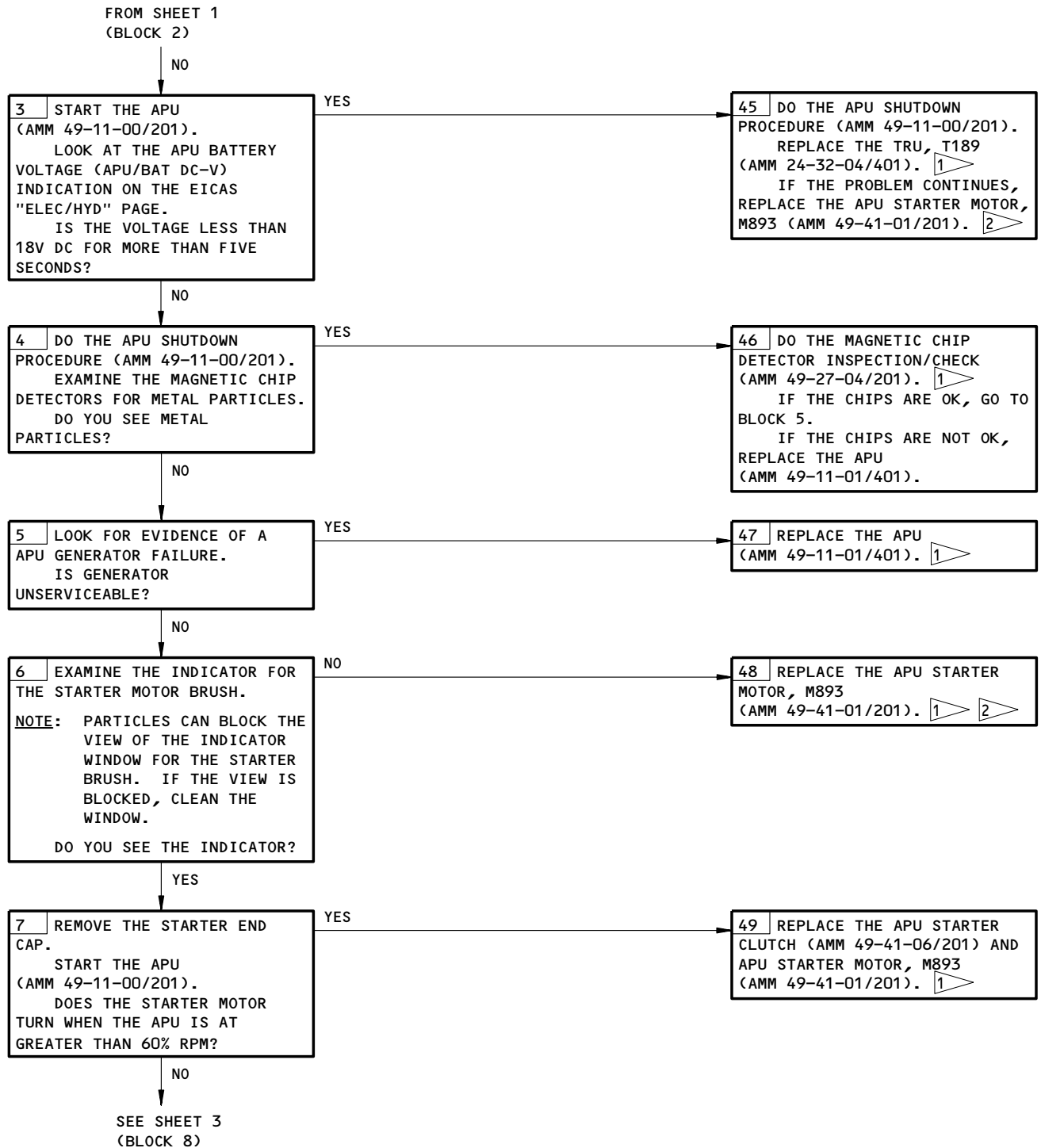
Auto Shutdown – START ABORTED on BITE  
Figure 105 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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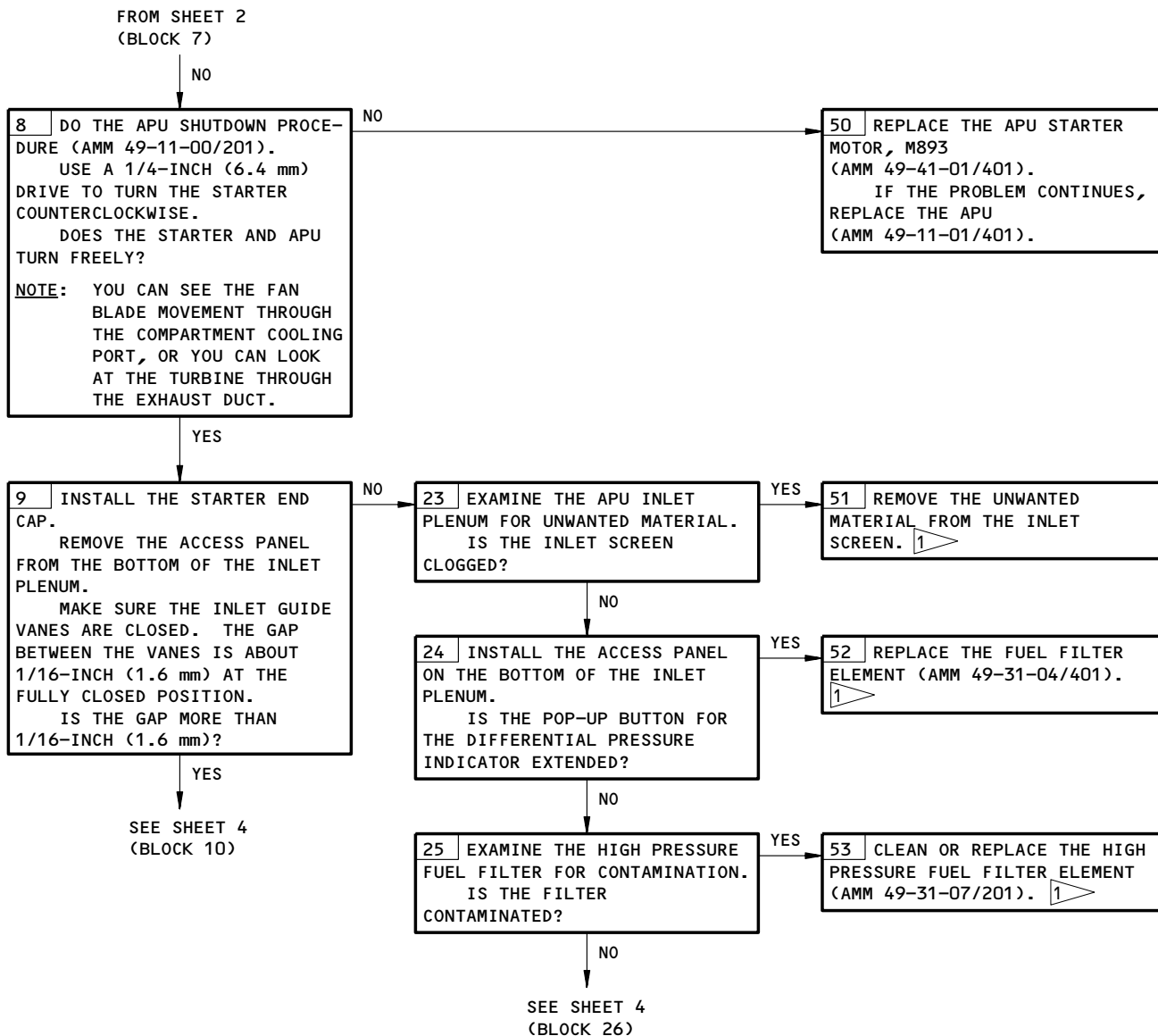
Auto Shutdown – START ABORTED on BITE  
Figure 105 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
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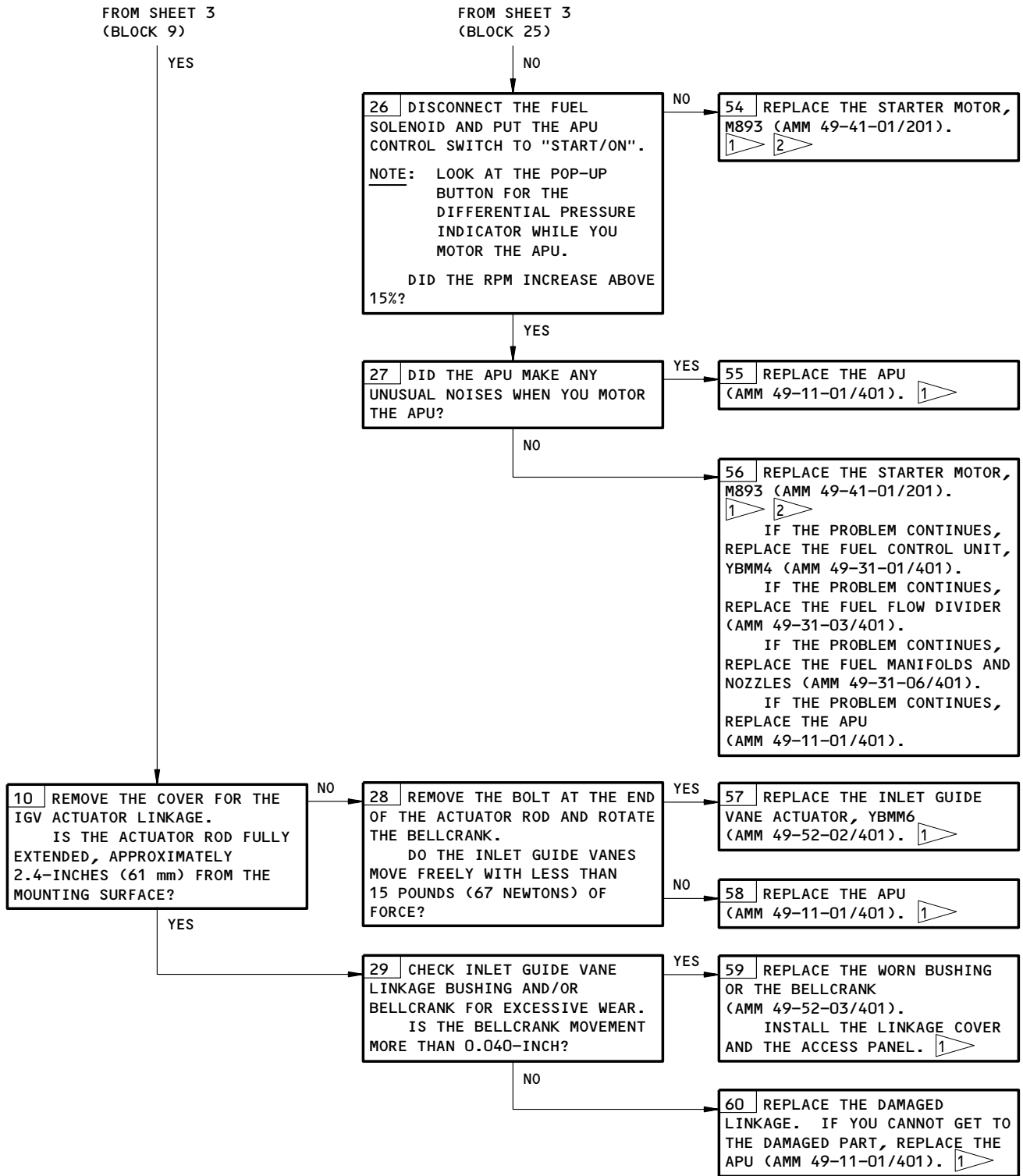
Auto Shutdown START ABORTED on BITE  
Figure 105 (Sheet 3)

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

EFFECTIVITY  
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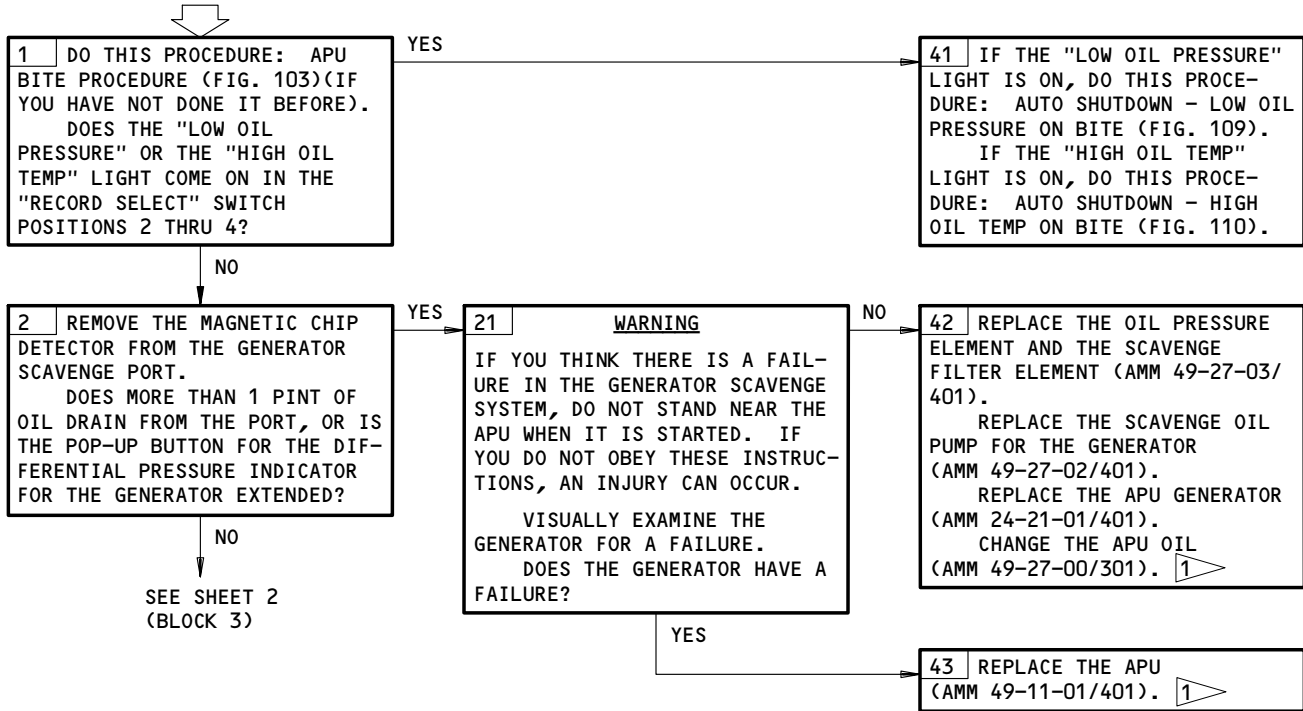
**AUTO SHUTDOWN –  
"UNDER SPEED" ON  
BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

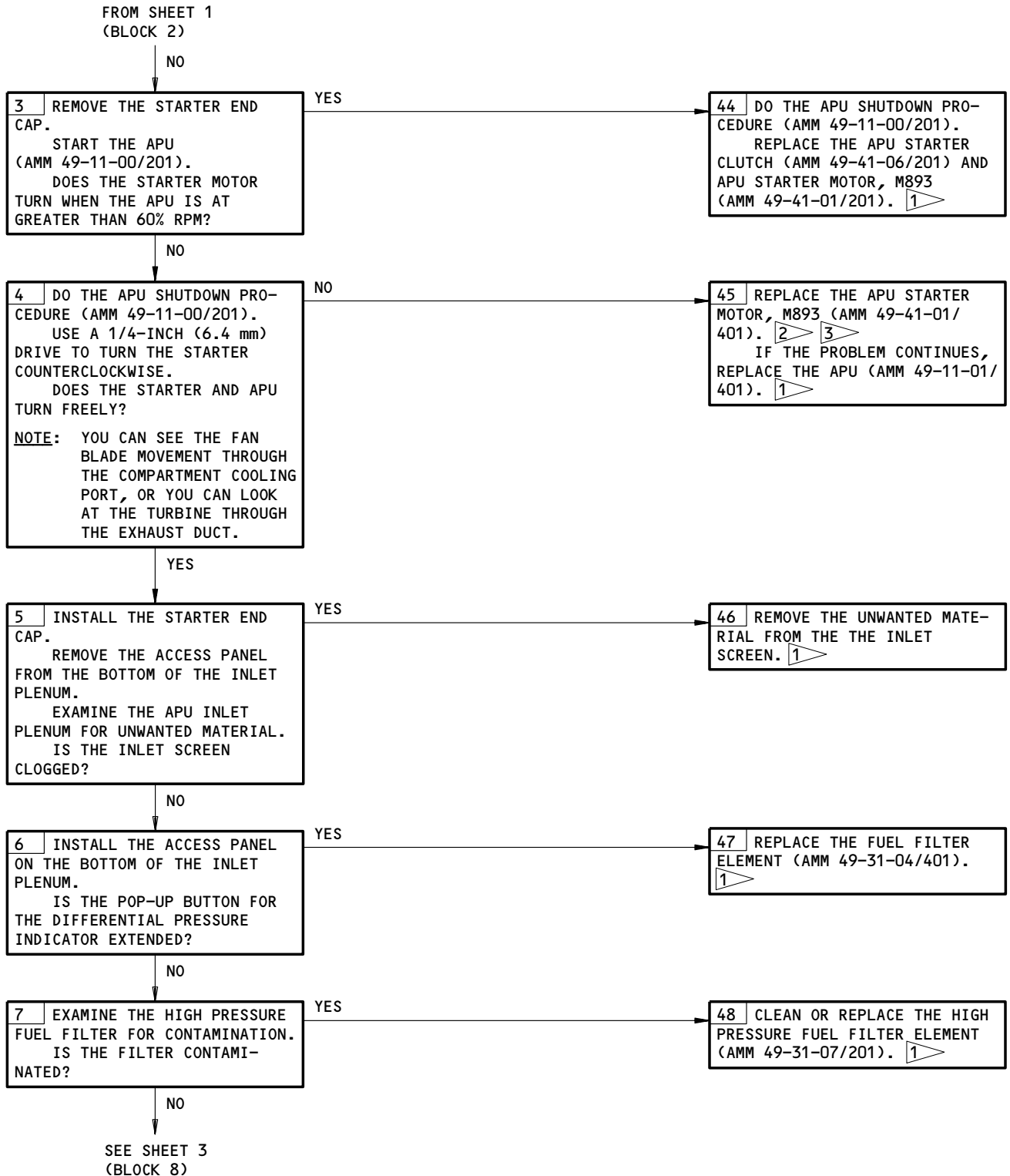


- 1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES ON THE P61 PANEL. PUSH THE "ERASE" SWITCH FOR 3 SECONDS. MAKE SURE THE "APU-FAULT" IS ERASED.
- 2 IF TWO APU STARTER MOTORS ARE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

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

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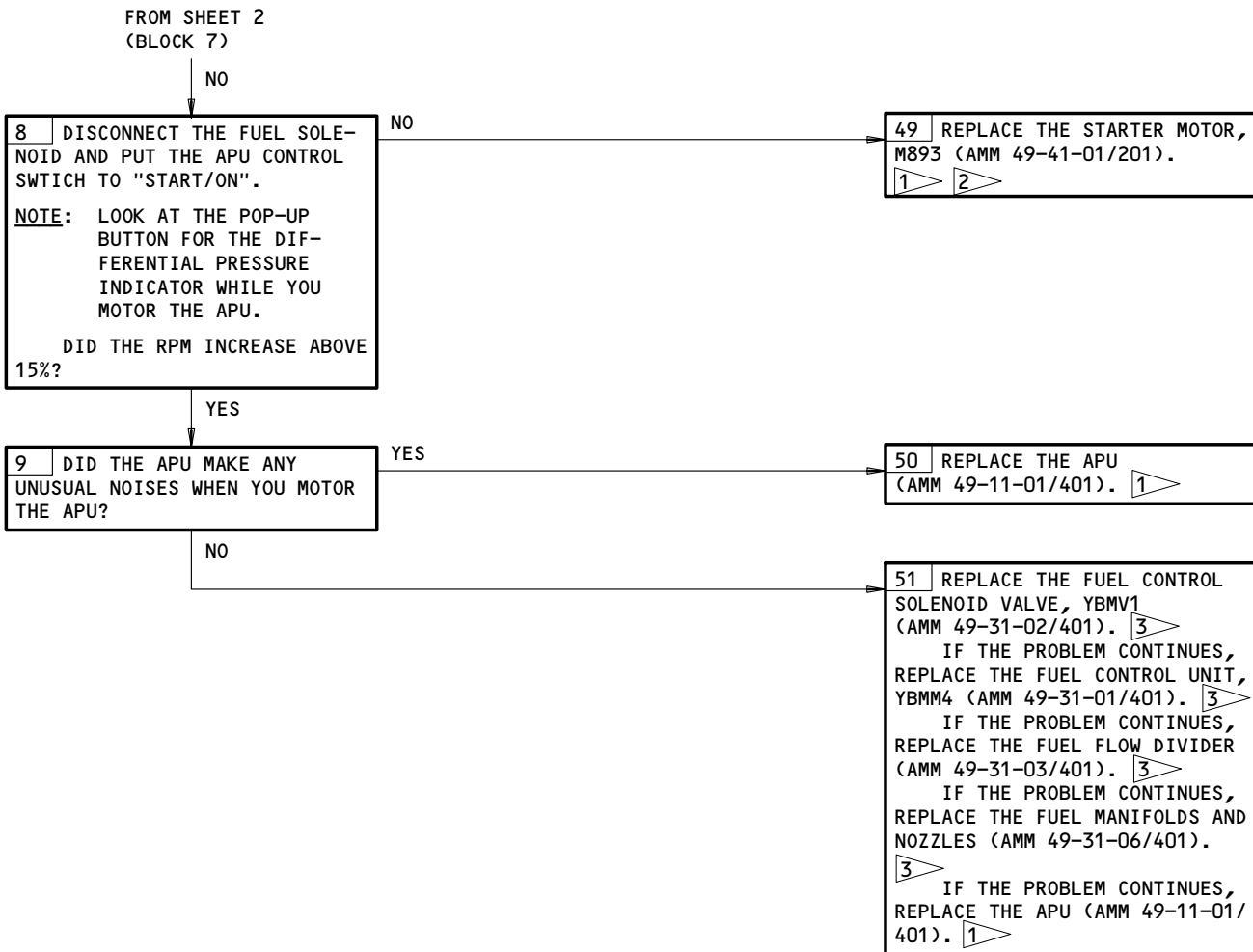
Auto Shutdown - UNDER SPEED on BITE  
Figure 106 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
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Figure 106 (Sheet 3)

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**PREREQUISITES**

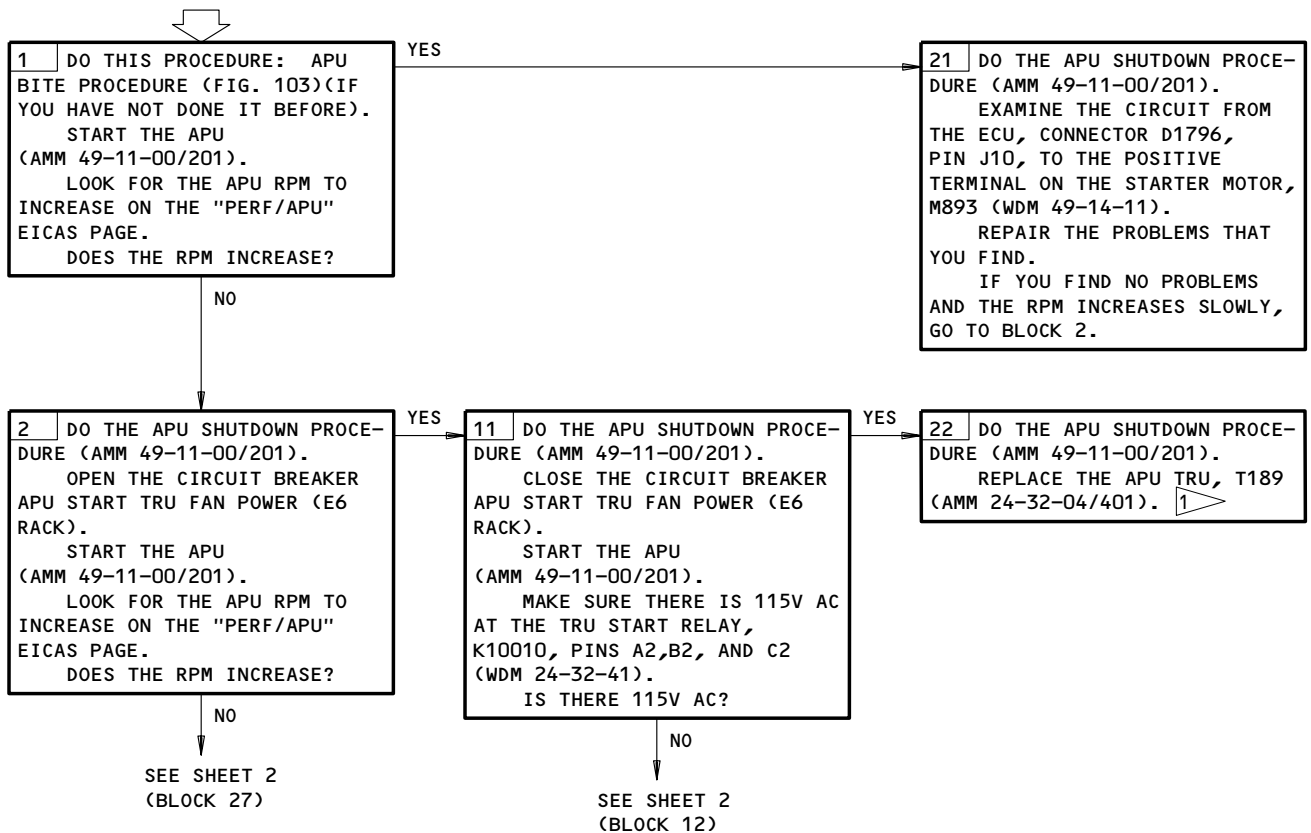
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,APU  
START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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 INSTRU-  
CTIONS, YOU CAN CAUSE DAMAGE TO THE APU.

**FAULTY UNIT -  
"STARTER 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 49-41-01/201), AND THE APU STARTER CLUTCH (AMM 49-41-06/201).

Faulty Unit - STARTER CIRCUIT on BITE  
Figure 106A (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

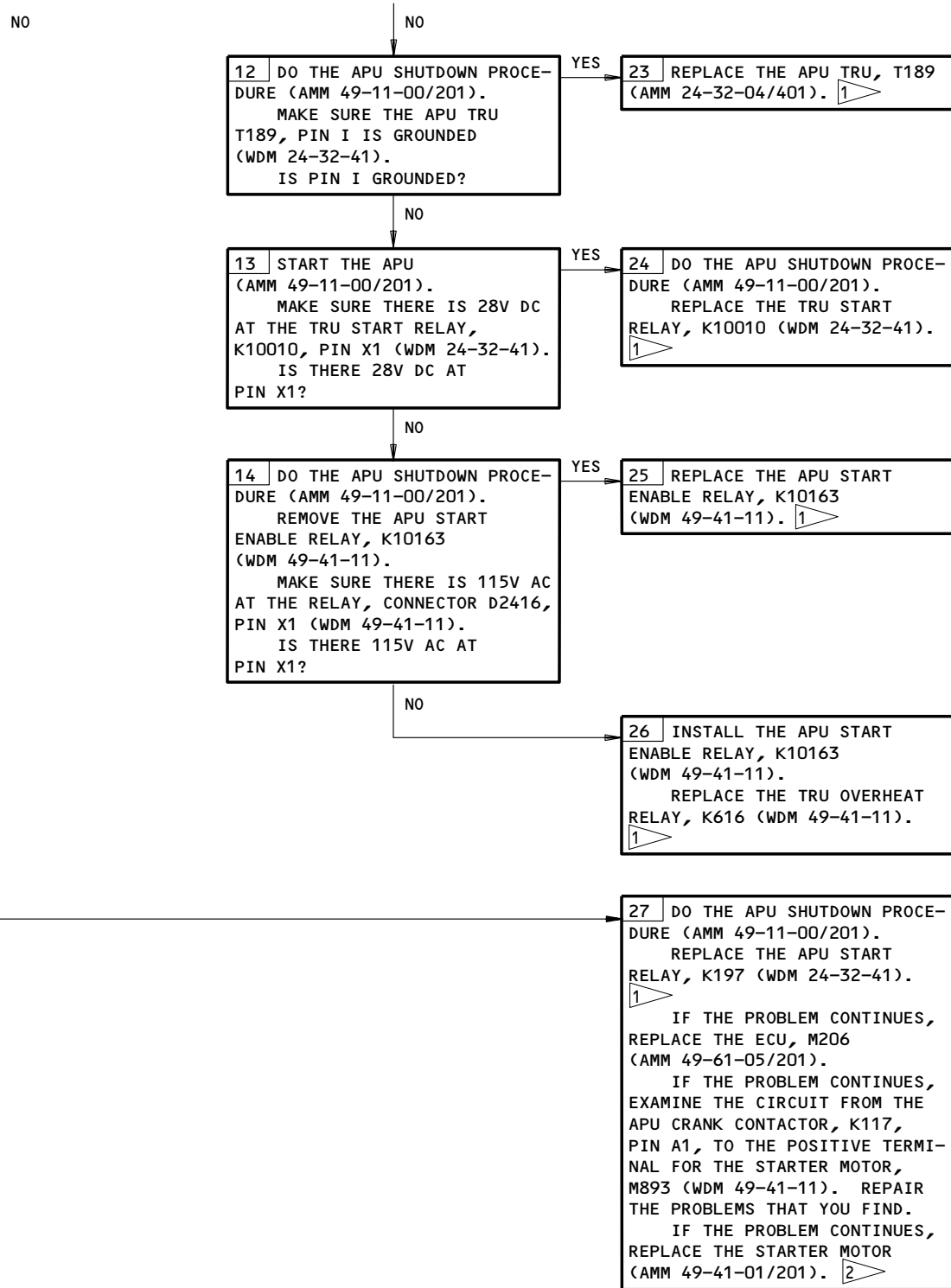
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FROM SHEET 1  
(BLOCK 11)



Faulty Unit - STARTER CIRCUIT on BITE  
Figure 106A (Sheet 2)

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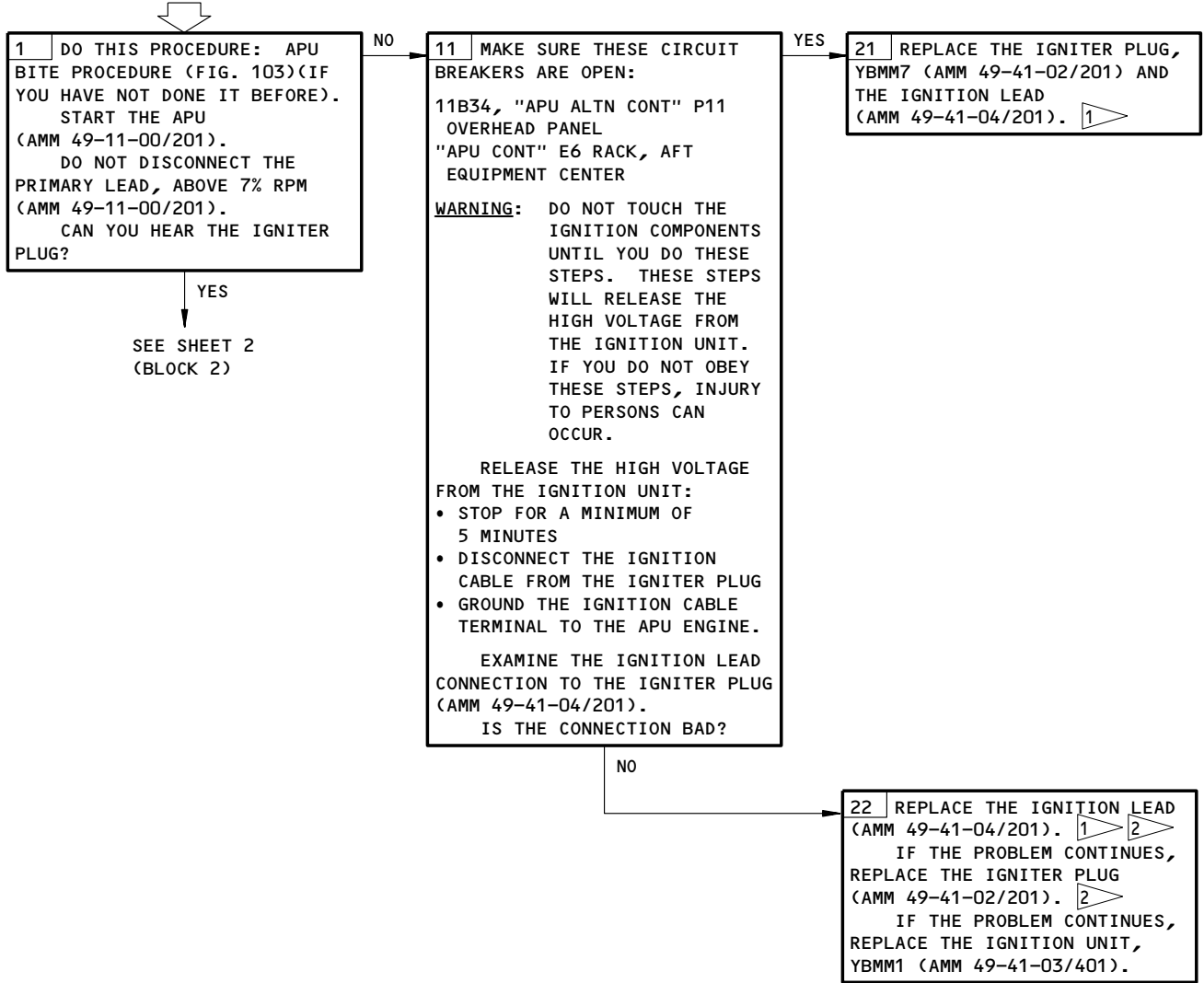
**AUTO SHUTDOWN - "NO LIGHT OFF" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35, APU CONT,  
APU START (AFT EQUIPMENT CENTER, E6)

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.

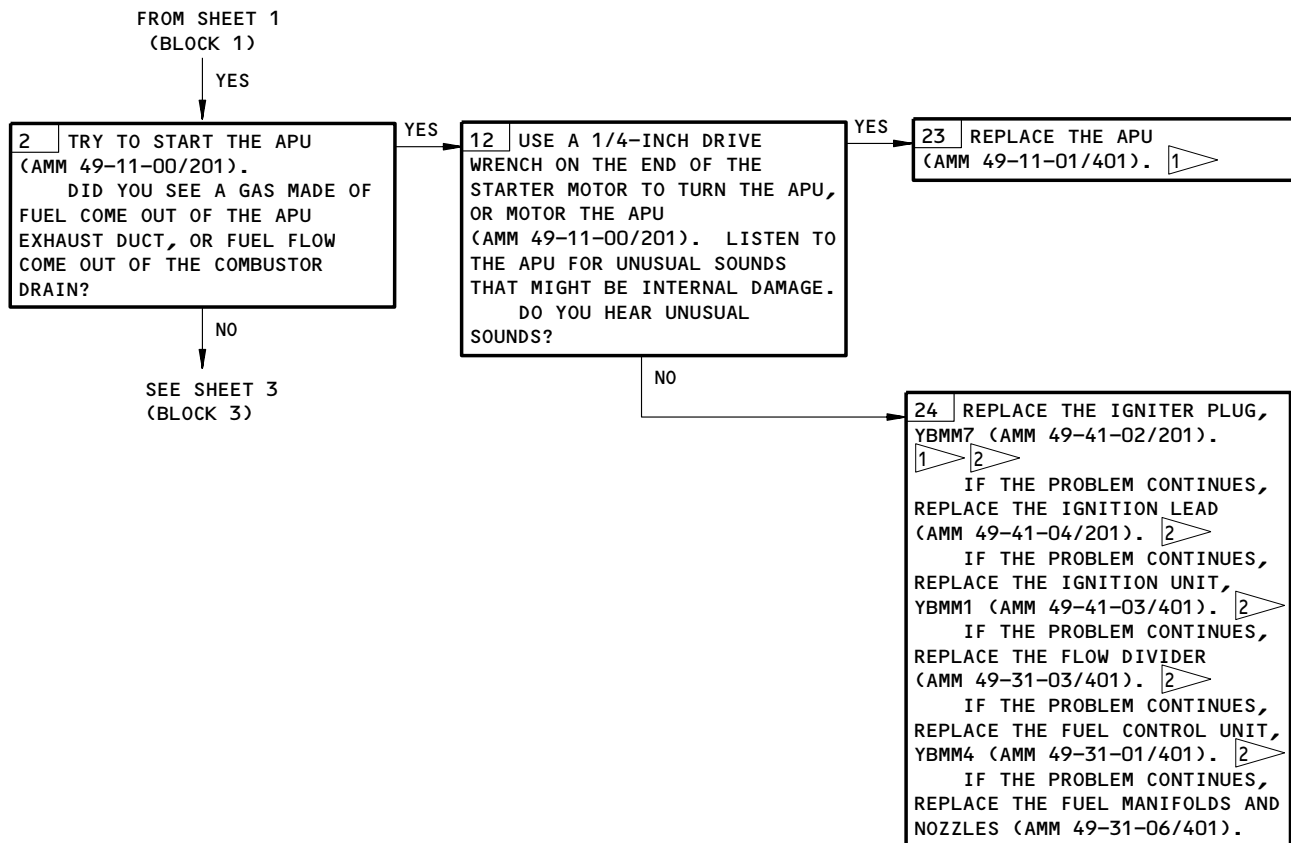
Auto Shutdown - NO LIGHT OFF on BITE  
Figure 107 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
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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.

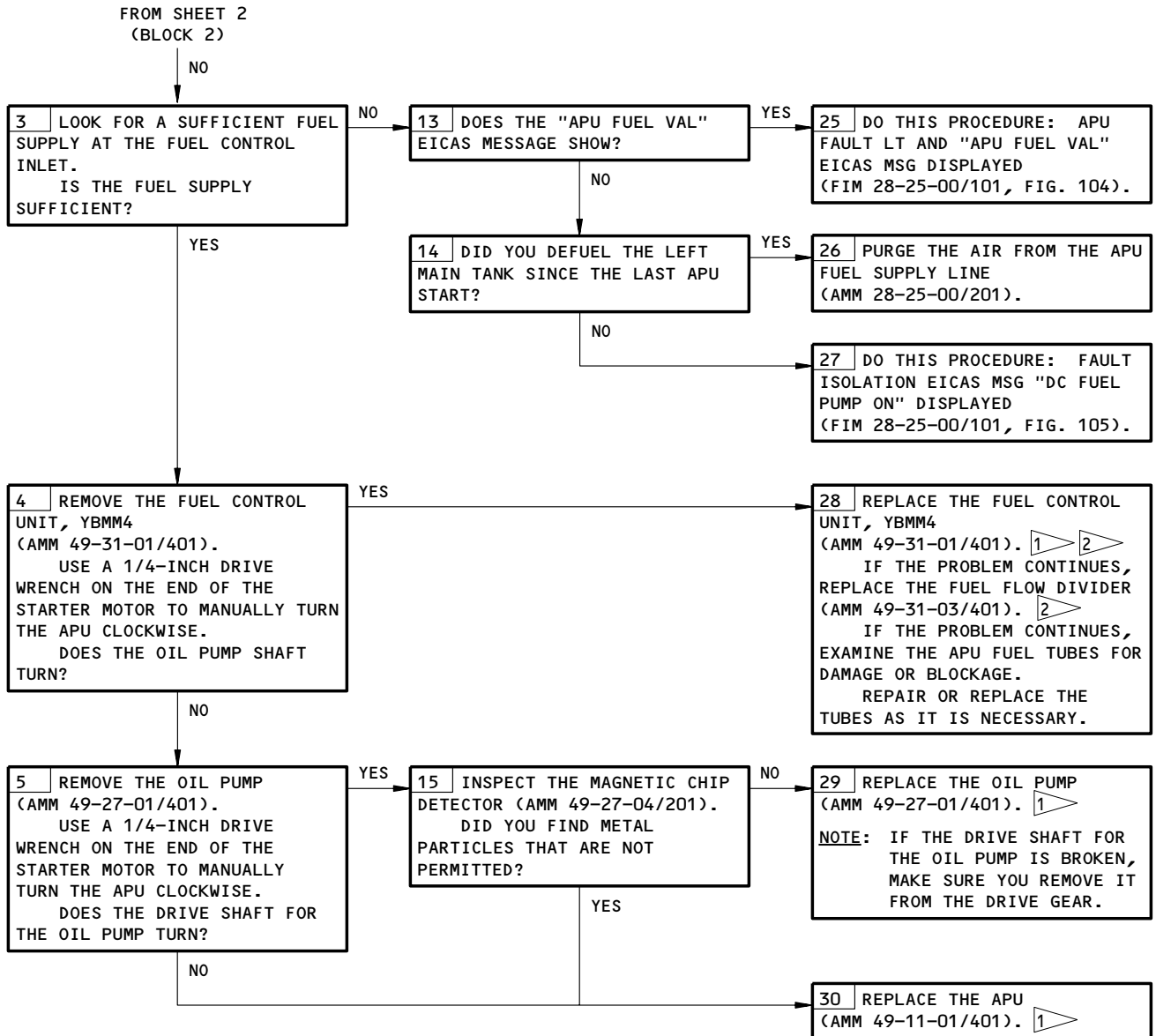
Auto Shutdown - NO LIGHT OFF on BITE  
Figure 107 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



1 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER YOU CORRECT THE PROBLEM, 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  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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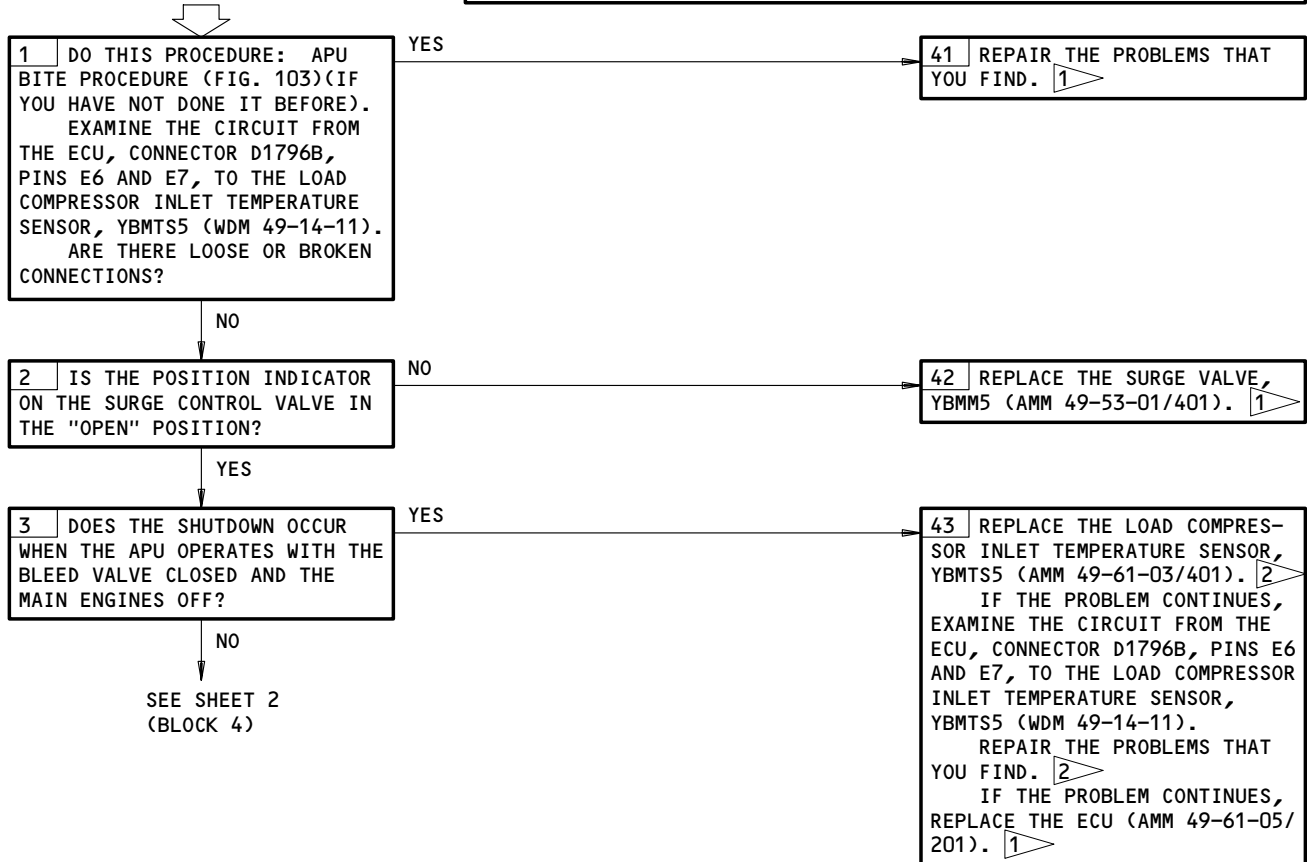
**AUTO SHUTDOWN DURING GOVERNED SPEED – "REVERSE FLOW" ON BITE**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT, APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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.

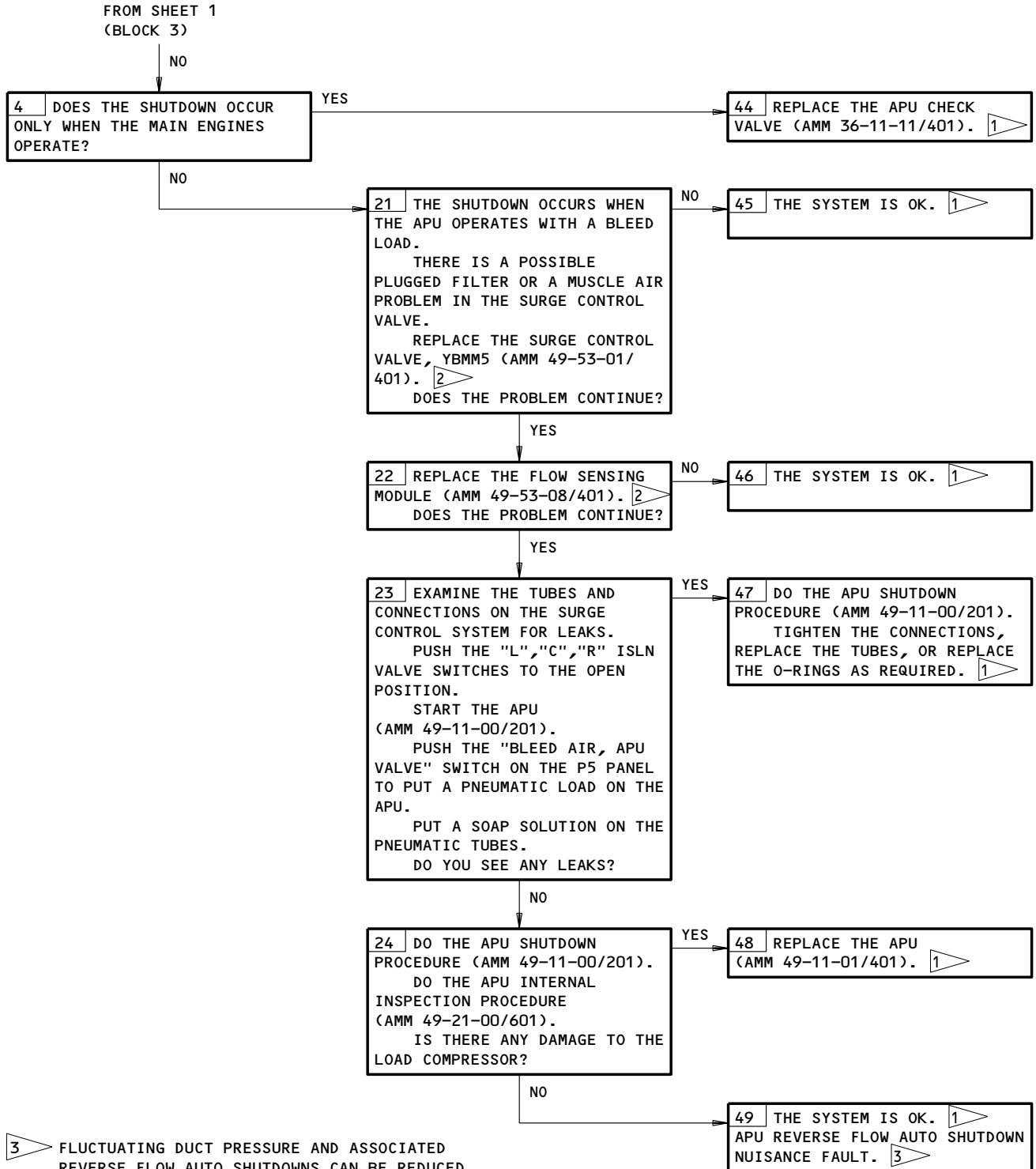
2 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) TO MAKE SURE THE PROBLEM IS REPAIRED.

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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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3 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  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

NOTE: THE "LOP" LIGHT ON THE ECU WILL FLASH WHEN AN "LOP" SHUTDOWN OCCURS ON THE THIRD TRY TO START THE APU WITH THE AIRPLANE ON THE GROUND. THE "LOP" LIGHT WILL ONLY FLASH IF THE ECU MEMORY WAS NOT ERASED AFTER THE FIRST TWO "LOP" 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.

- 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.

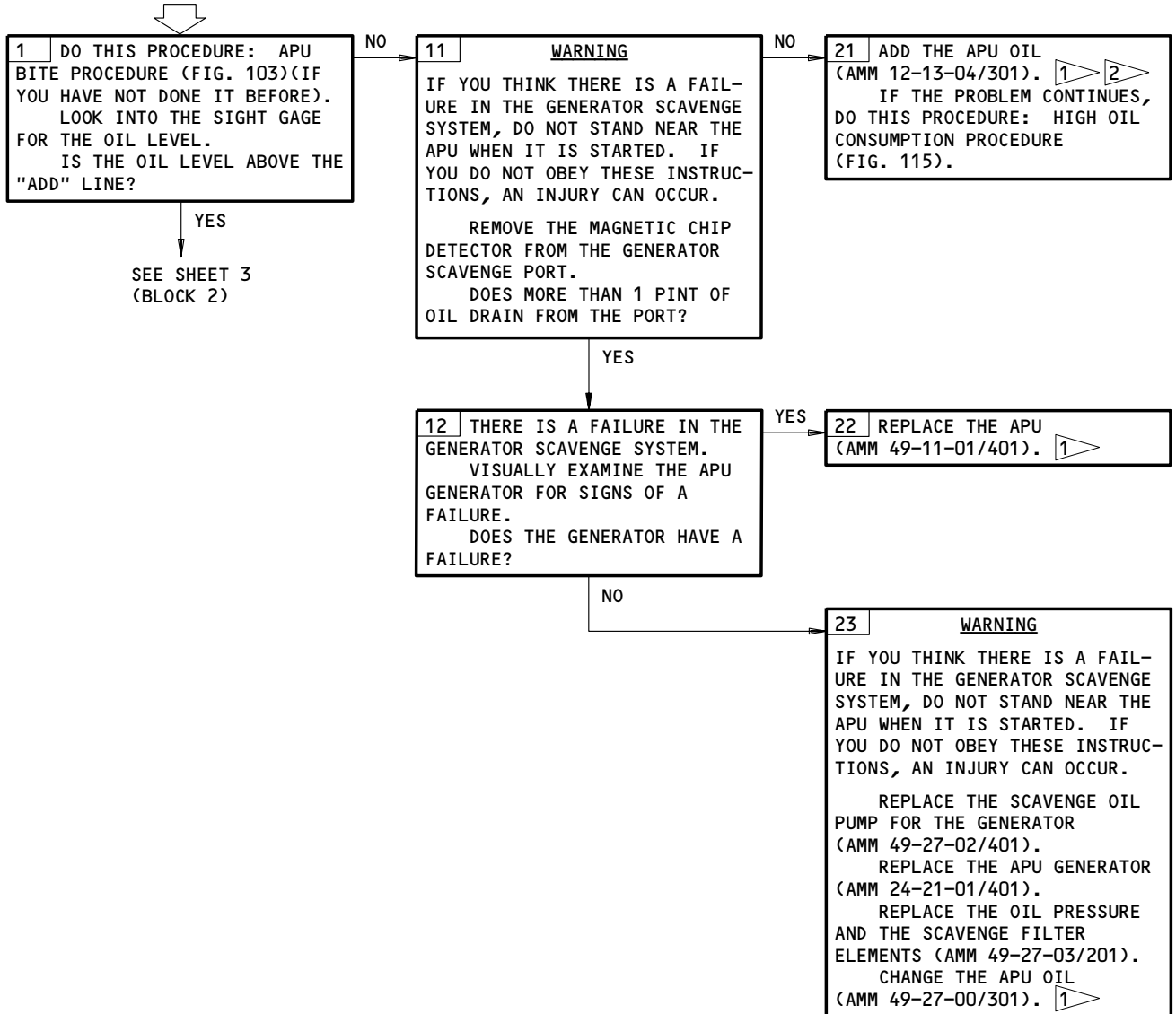
Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**AUTO SHUTDOWN -  
"LOP" 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.

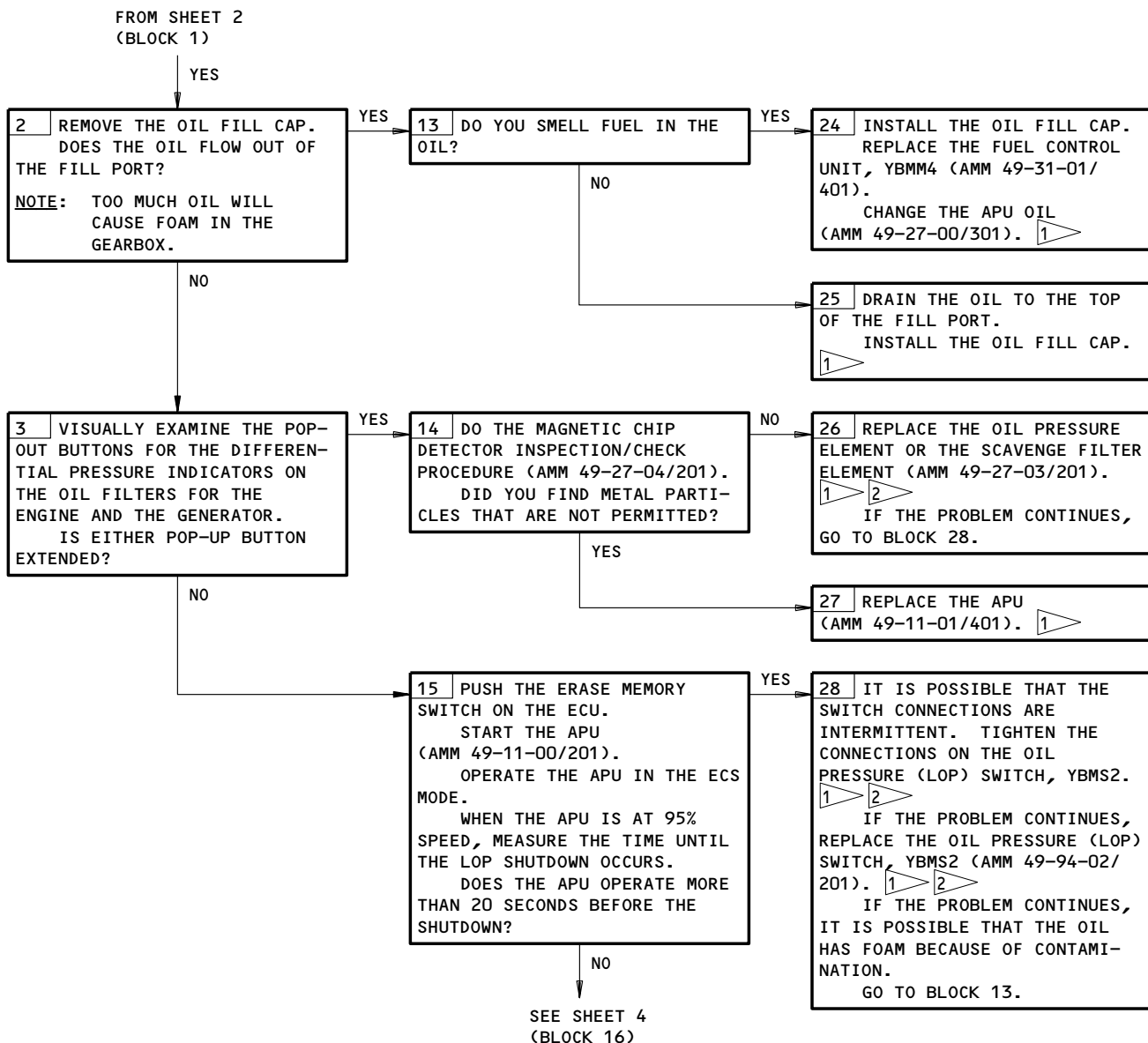
Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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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 - LOP on BITE  
Figure 109 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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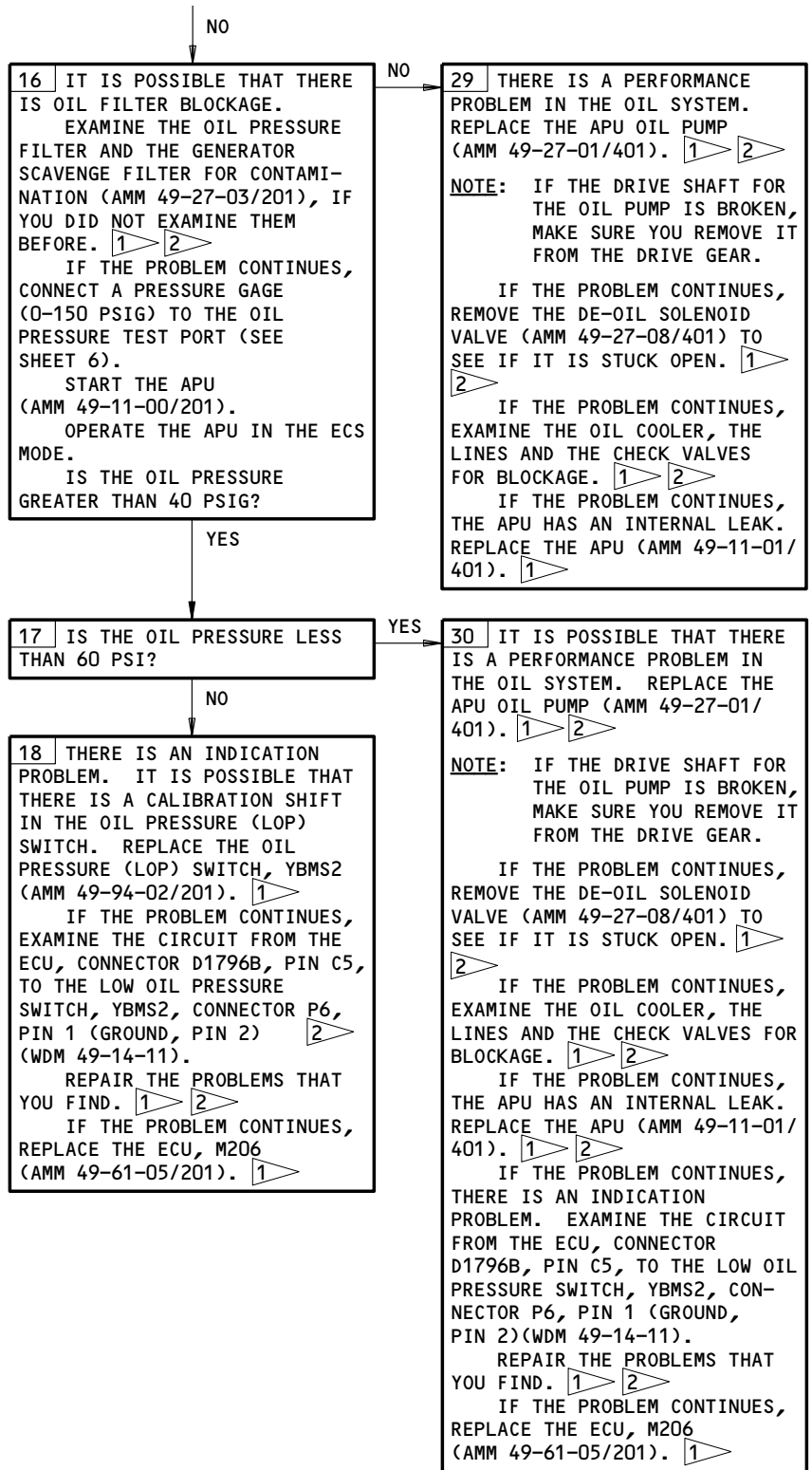
04

# BOEING

## 757

### FAULT ISOLATION/MAINT MANUAL

FROM SHEET 3  
(BLOCK 15)

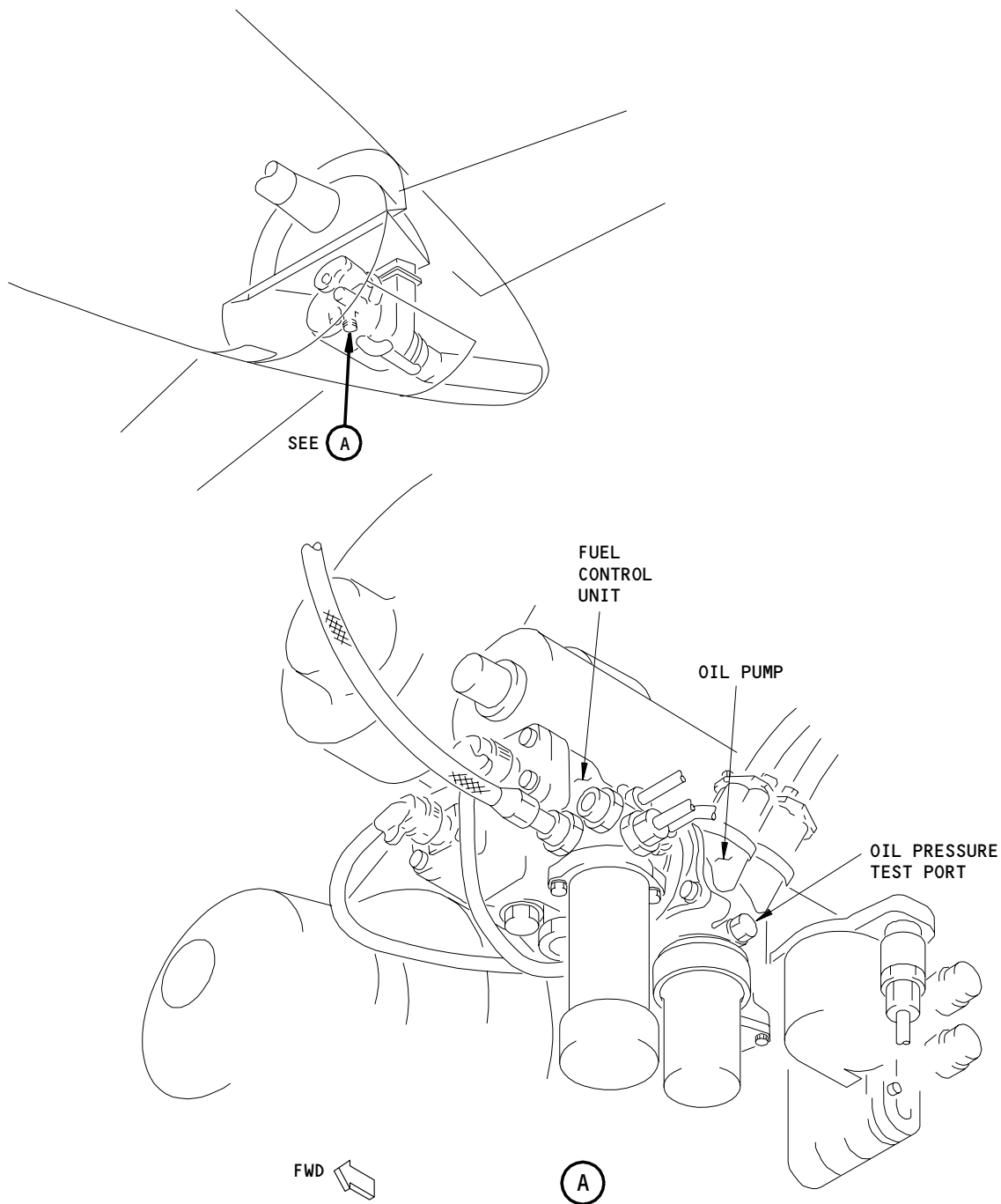


Auto Shutdown - LOW OIL PRESURE on BITE  
Figure 109 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**

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Auto Shutdown - LOP on BITE  
Figure 109 (Sheet 5)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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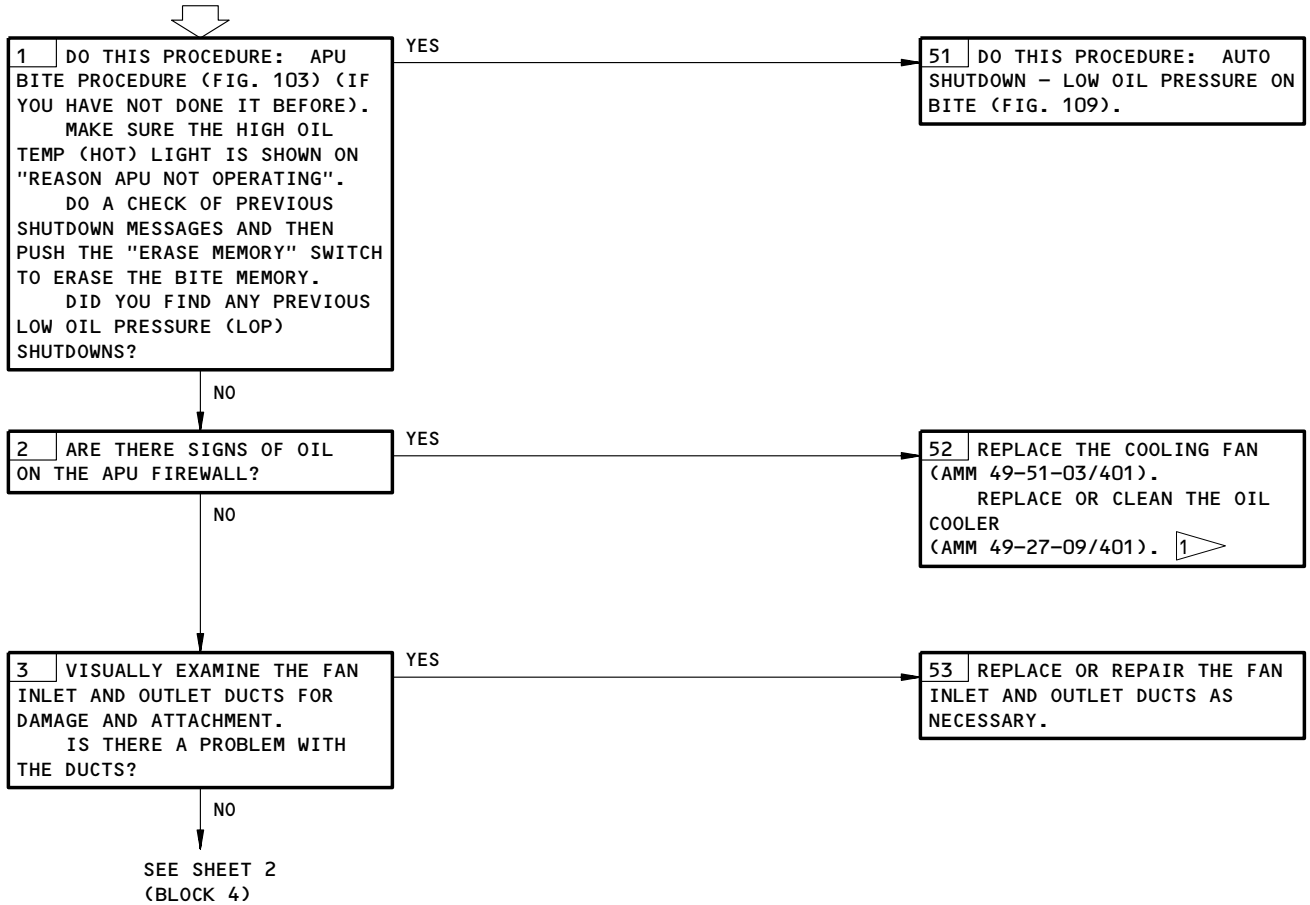
05

**AUTO SHUTDOWN –  
"HOT" 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 – HOT on BITE  
Figure 110 (Sheet 1)

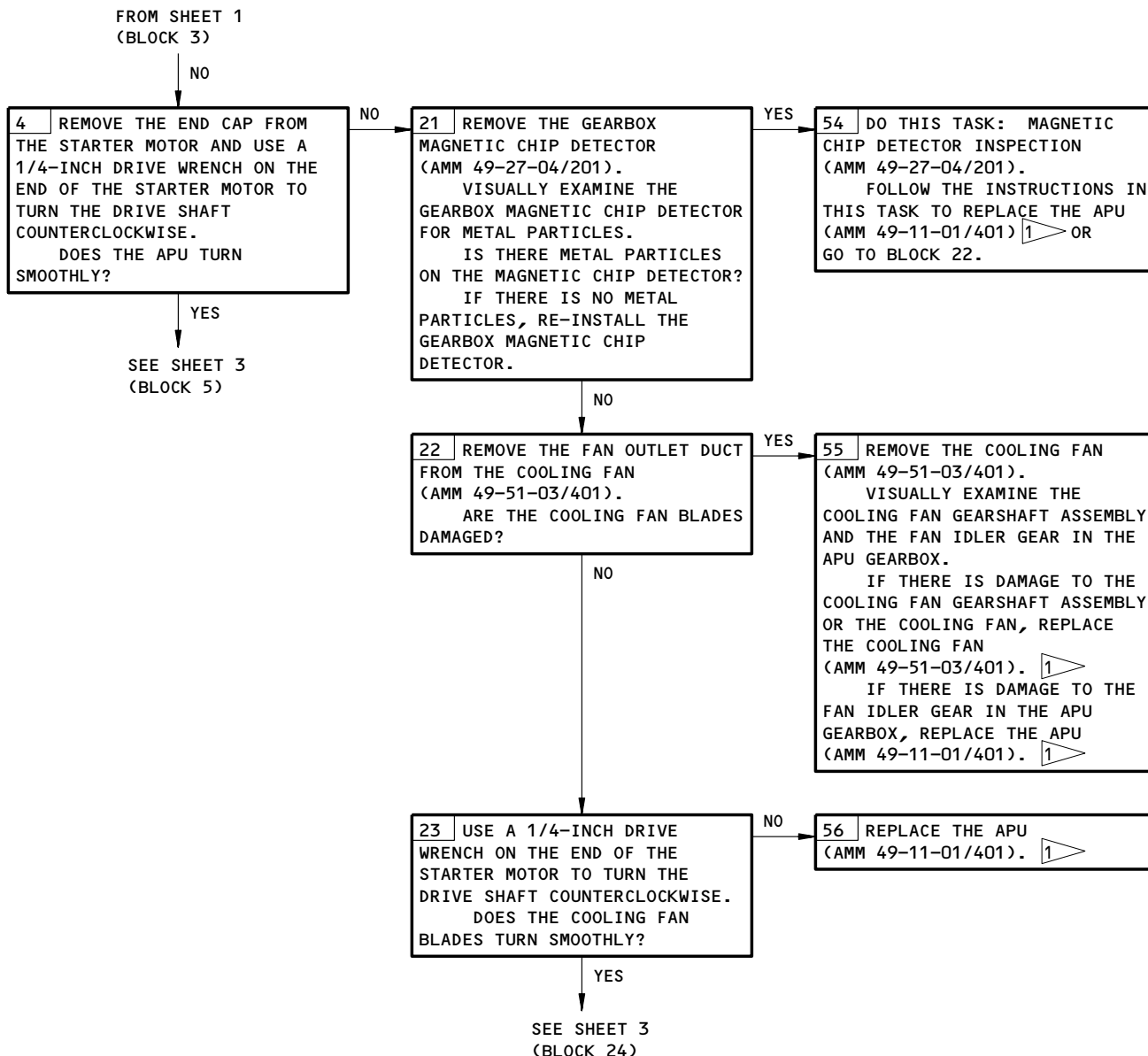
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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FAULT ISOLATION/MAINT MANUAL



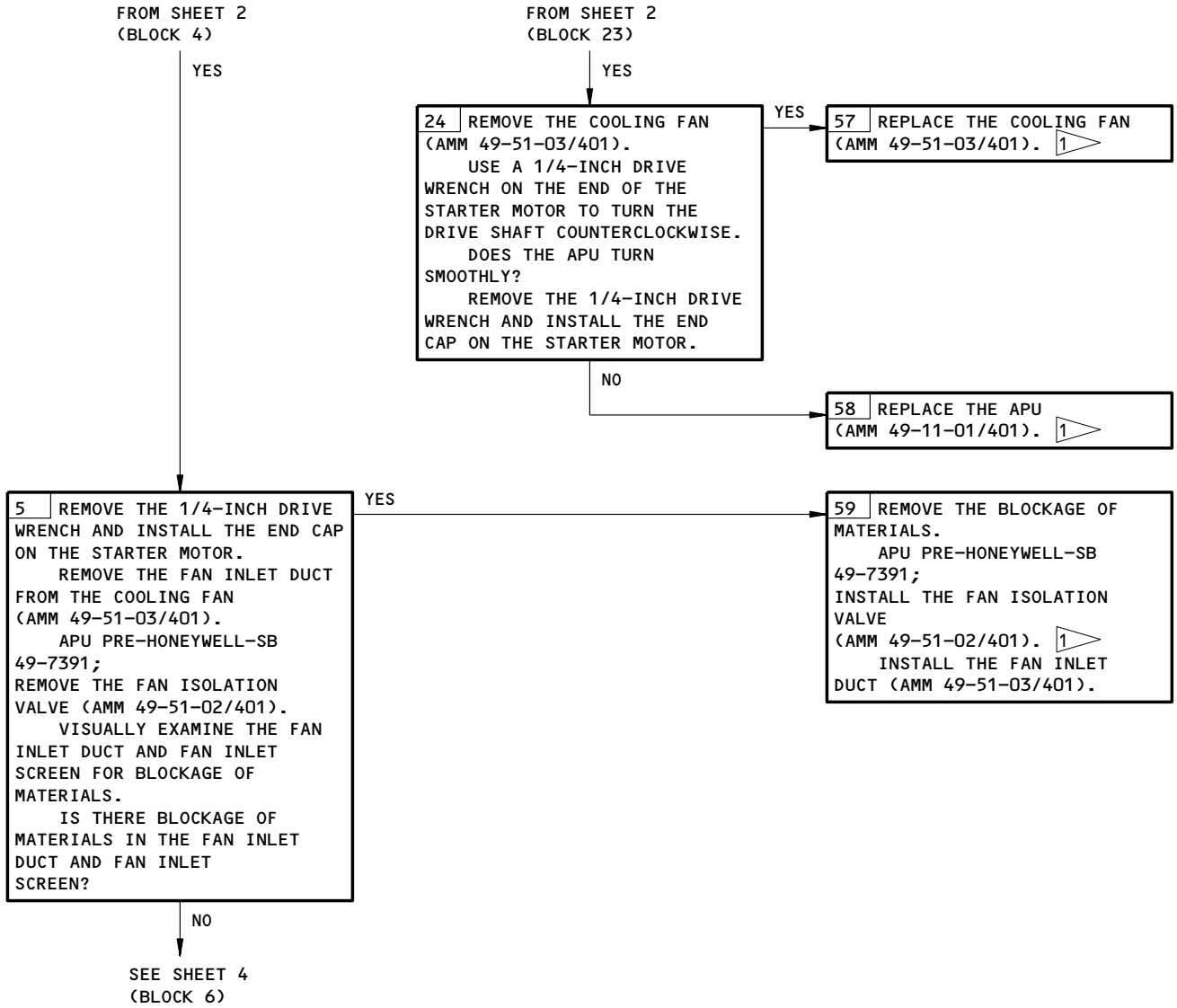
Auto Shutdown - HOT on BITE  
Figure 110 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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FAULT ISOLATION/MAINT MANUAL



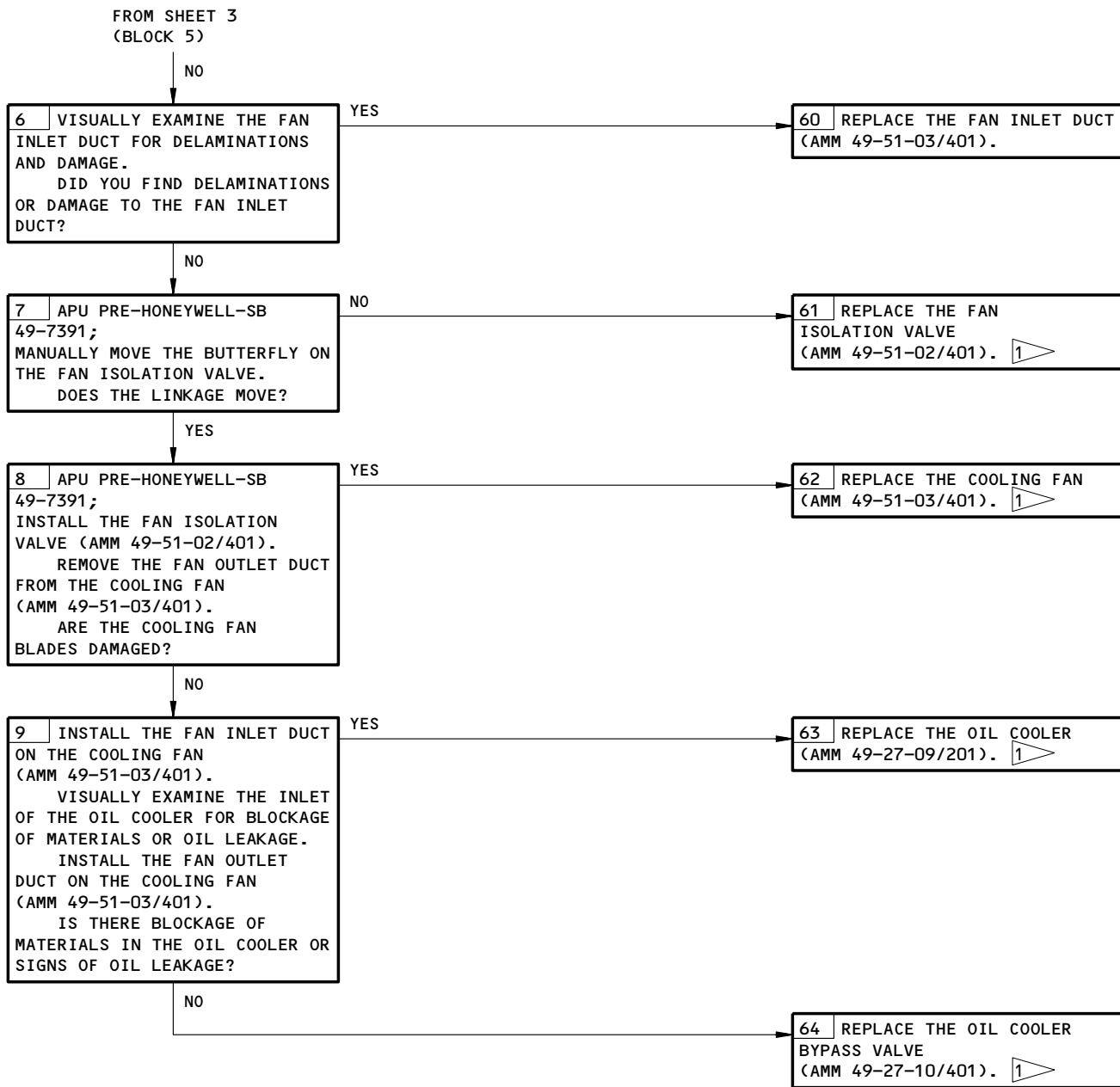
Auto Shutdown - HOT on BITE  
Figure 110 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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Auto Shutdown - HOT on BITE  
Figure 110 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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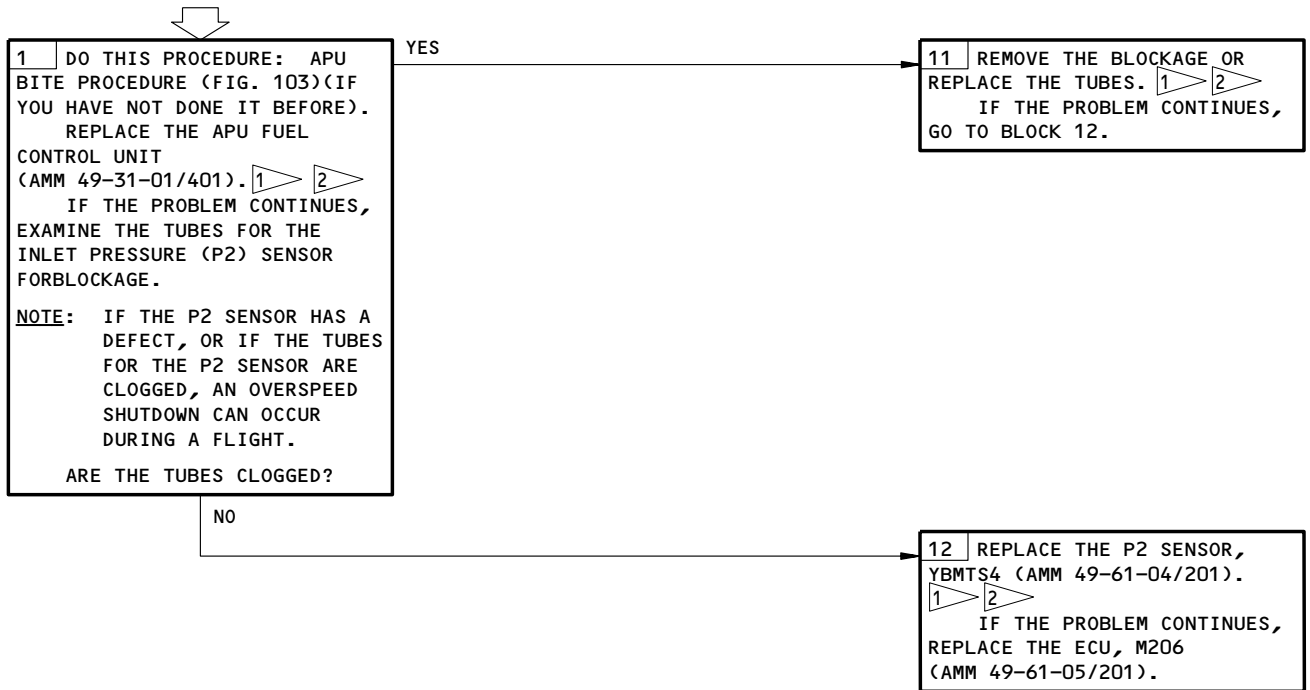
05

**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 THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) AGAIN TO MAKE SURE THE PROBLEM IS REPAIRED.

Auto Shutdown – OVER SPEED on BITE  
Figure 111

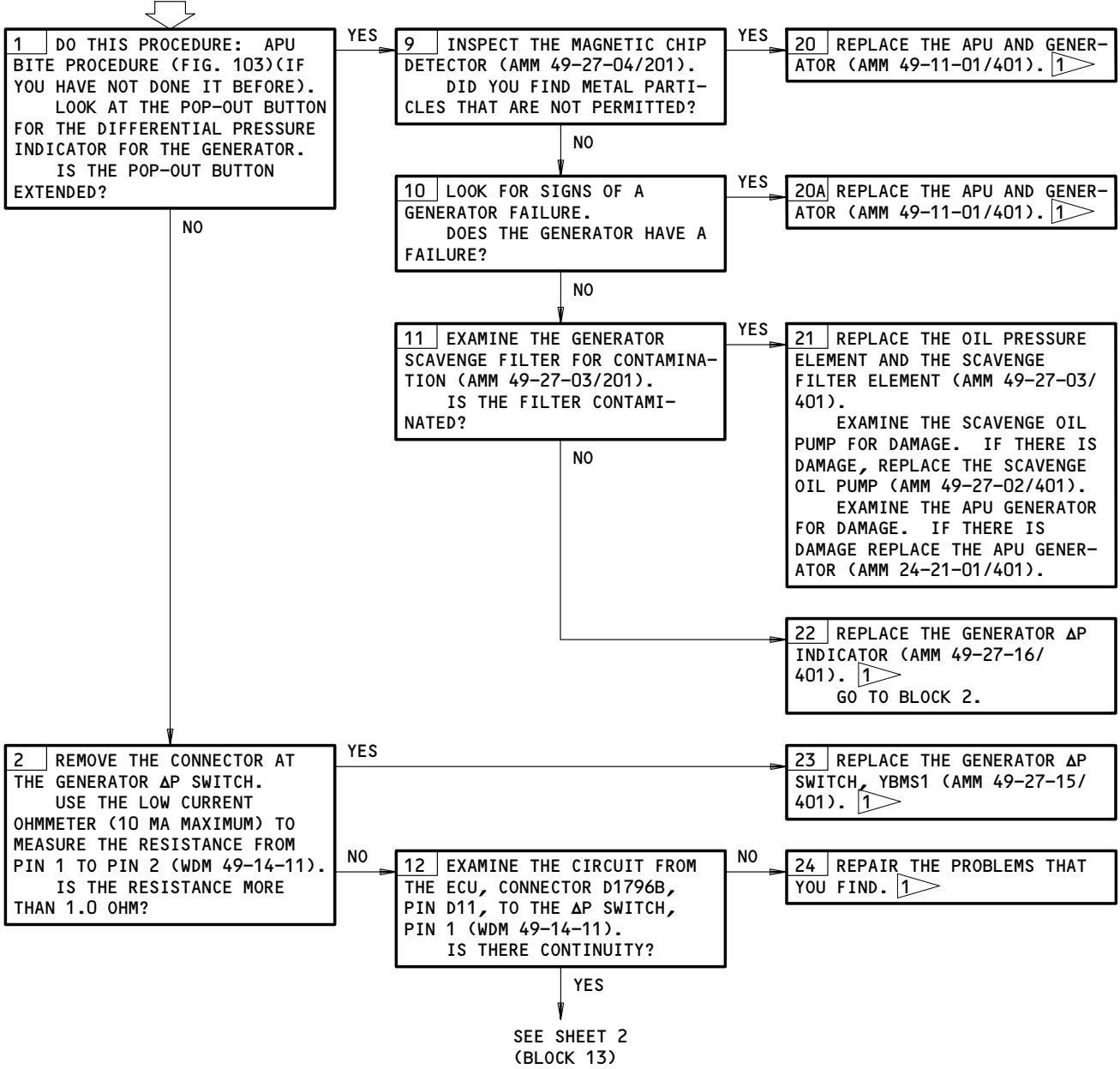
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**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 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.

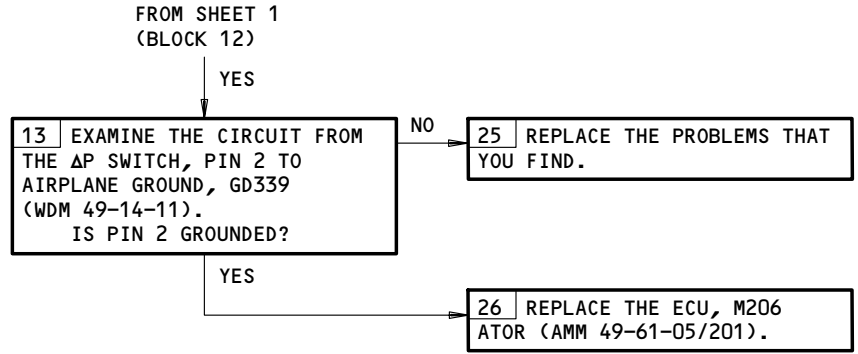
Auto Shutdown – GEN FILTER on BITE  
Figure 112 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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988770

**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**PREREQUISITES**

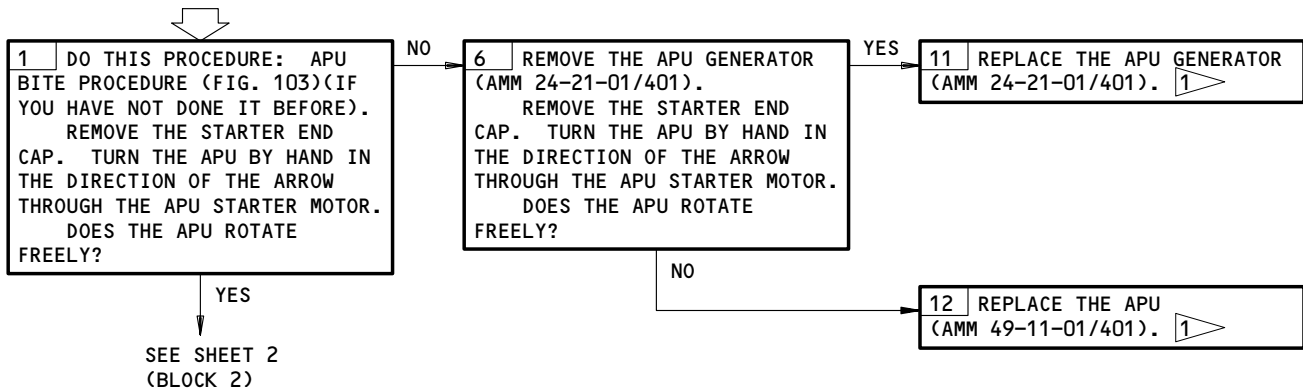
MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER,  
E6)

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

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

**NOTE:** IF THE APU HAS A START PROBLEM ("NO FLAME",  
"SLOW START", OR "NO ACCEL") AND THE AUTOMATIC  
SHUTDOWN "OVER TEMP", THERE IS A DEFECT IN THE  
FLOW DIVIDER OR THE PRIMARY FUEL NOZZLE.



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) TO MAKE SURE THE PROBLEM IS REPAIRED.

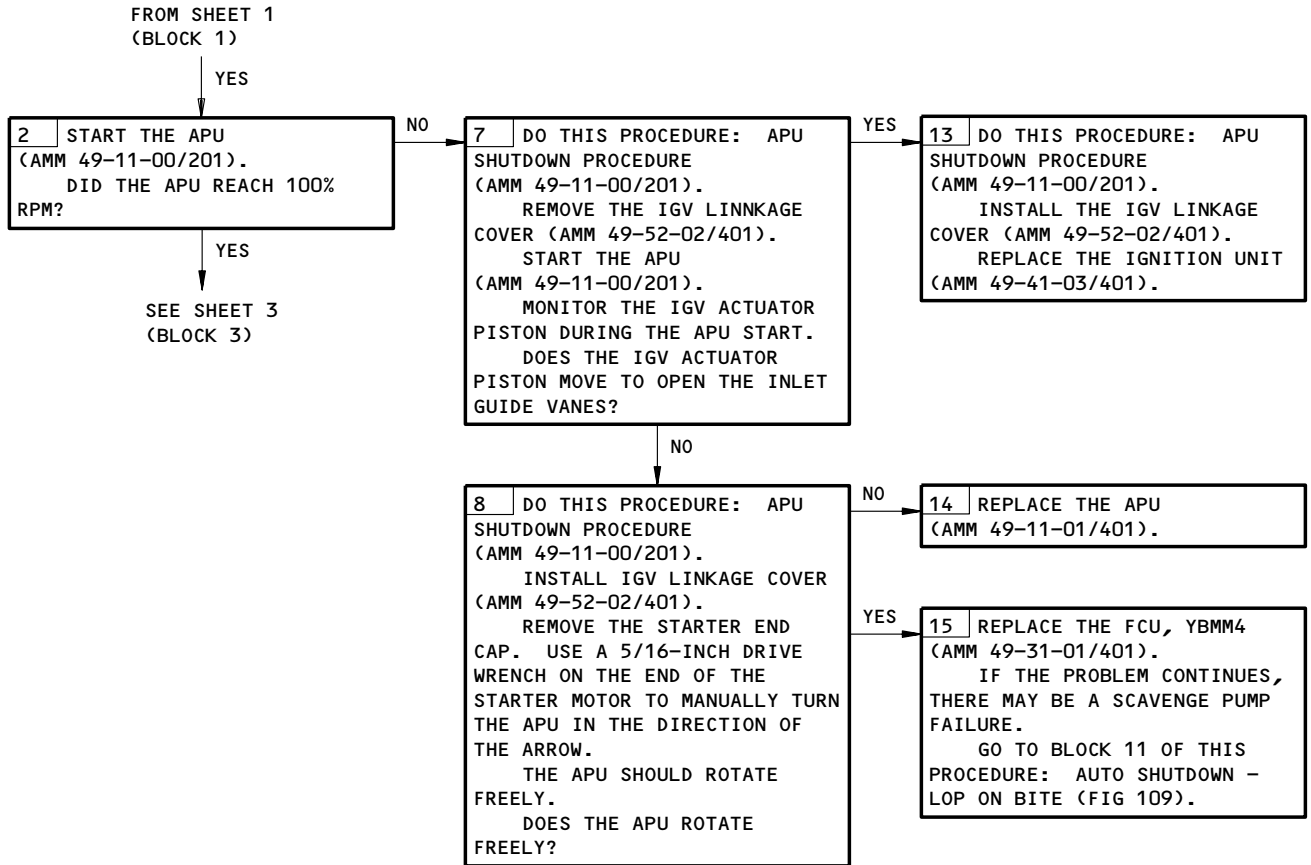
Auto Shutdown – OVER TEMP on BITE  
Figure 113 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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 FAULT ISOLATION/MAINT MANUAL



Auto Shutdown - OVER TEMP on BITE  
Figure 113 (Sheet 2)

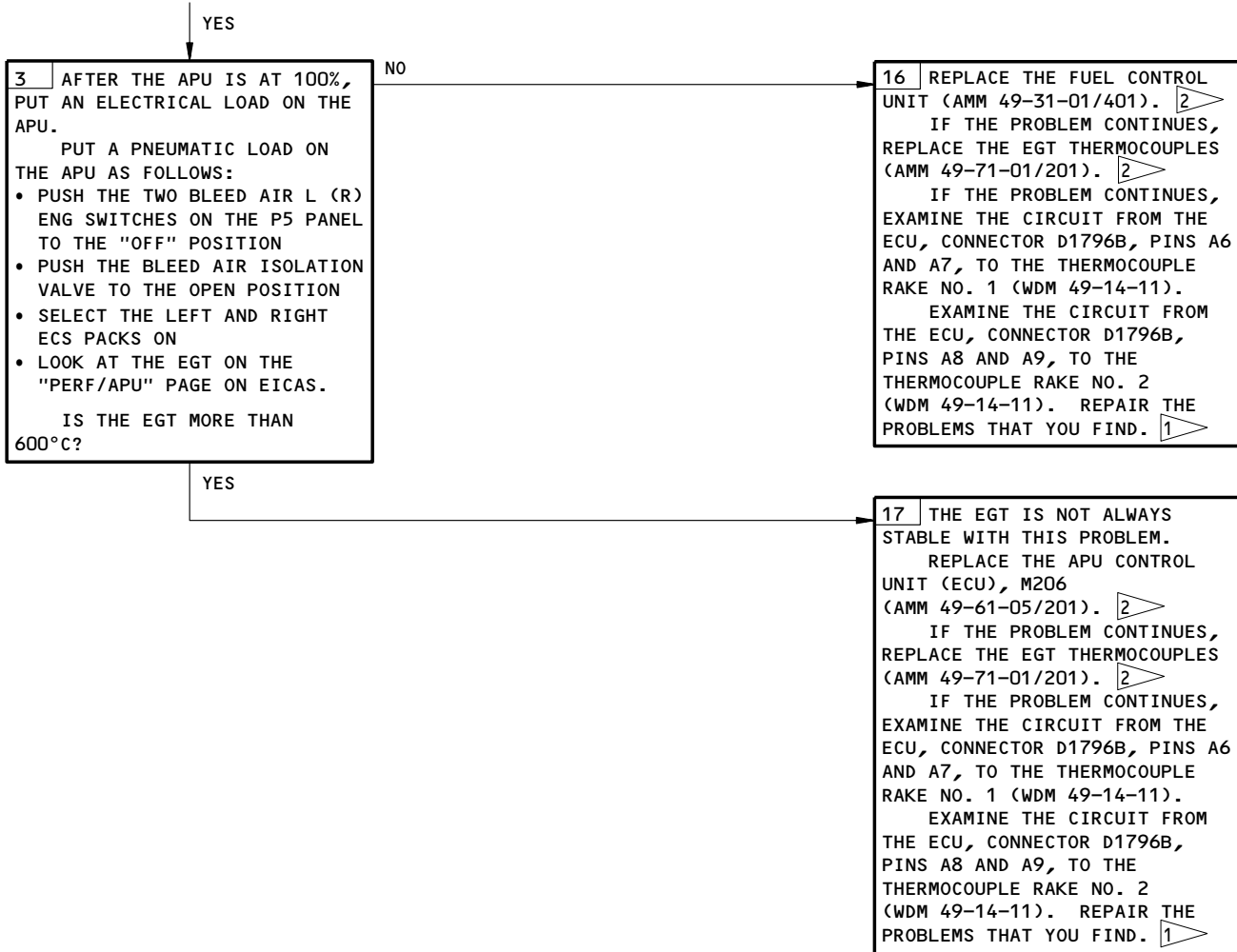
EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

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FROM SHEET 1  
(BLOCK 2)



Auto Shutdown – OVER TEMP on BITE  
Figure 113 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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M38836

Not Used  
Figure 114

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

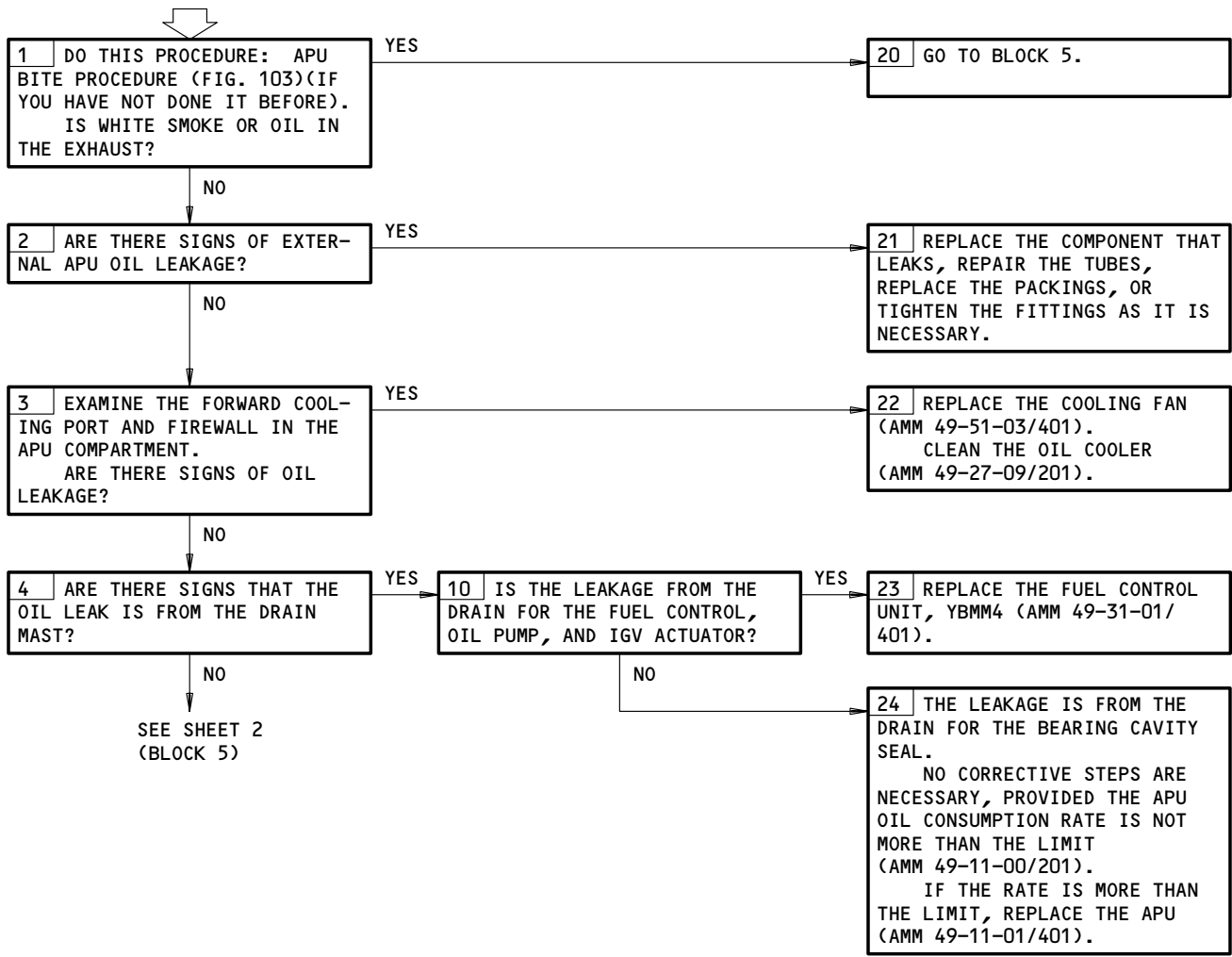
**49-11-00**

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**HIGH OIL CONSUMPTION**

**PREREQUISITES**  
 NONE

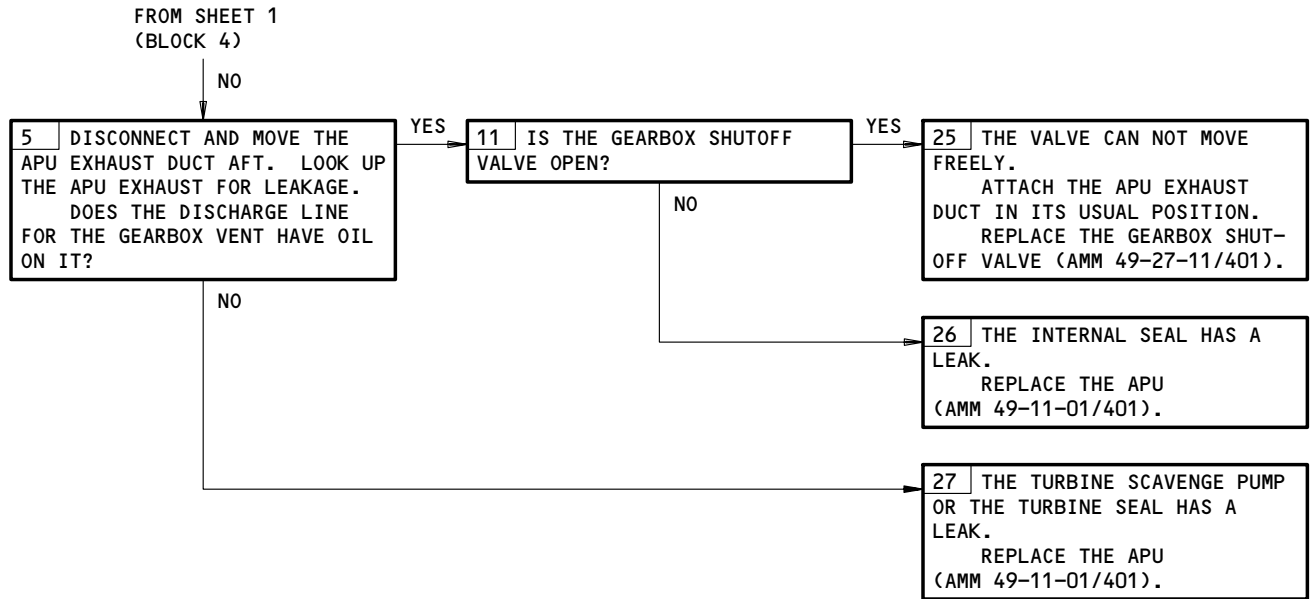


High Oil Consumption  
Figure 115 (Sheet 1)

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

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High Oil Consumption  
Figure 115 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**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)

**1** DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103)(IF YOU HAVE NOT DONE IT BEFORE). START THE APU (AMM 49-11-00/201). OPERATE THE APU FOR 5 MINUTES. DO THIS PROCEDURE: MAINTENANCE MESSAGE ERASE PROCEDURE (FIM 31-41-00/101, FIG. 109). DOES THE "APU OIL QTY" MESSAGE SHOW IMMEDIATELY?

NO

**20** THE SYSTEM IS OK. DO THE APU SHUTDOWN PROCEDURE (AMM 49-11-00/201).

YES

**2** DO THE APU SHUTDOWN PROCEDURE (AMM 49-11-00/201). REMOVE FILL CAP AND CHECK OIL LEVEL IN RESERVOIR BY ADDING APPROVED OIL UNTIL IT IS FULL (OVERFLOWS)(AMM 12-13-04/301). DID THE APU NEED MORE THAN 2 QUARTS OF OIL TO BE FULL?

NO

SEE SHEET 2 (BLOCK 3)

YES

**10** **1** ;  
GO TO BLOCK 21.  
**2** ;  
REMOVE THE CONNECTOR FROM THE OIL QUANTITY TRANSMITTER, YBMS3. CLEAN THE CONNECTOR AND THE TRANSMITTER. REMOVE ALL CONTAMINATION SUCH AS OIL OR GREASE. REPLACE THE CONNECTOR ON THE TRANSMITTER. START THE APU (AMM 49-11-00/201). OPERATE THE APU FOR 5 MINUTES. DO THIS PROCEDURE: MAINTENANCE MESSAGE ERASE PROCEDURE (FIM 31-41-00/101, FIG. 109). DOES THE "APU OIL QTY" MESSAGE SHOW IMMEDIATELY?

YES

**21** REPLACE THE OIL LEVEL SWITCH, YBMS3 (AMM 49-94-03/201). **1** ;  
REPLACE THE OIL QUANTITY TRANSMITTER, YBMS3 (AMM 49-94-04/201). **2** ;  
DO THIS PROCEDURE: MAINTENANCE MESSAGE ERASE PROCEDURE (FIM 31-41-00/101, FIG. 109).

NO

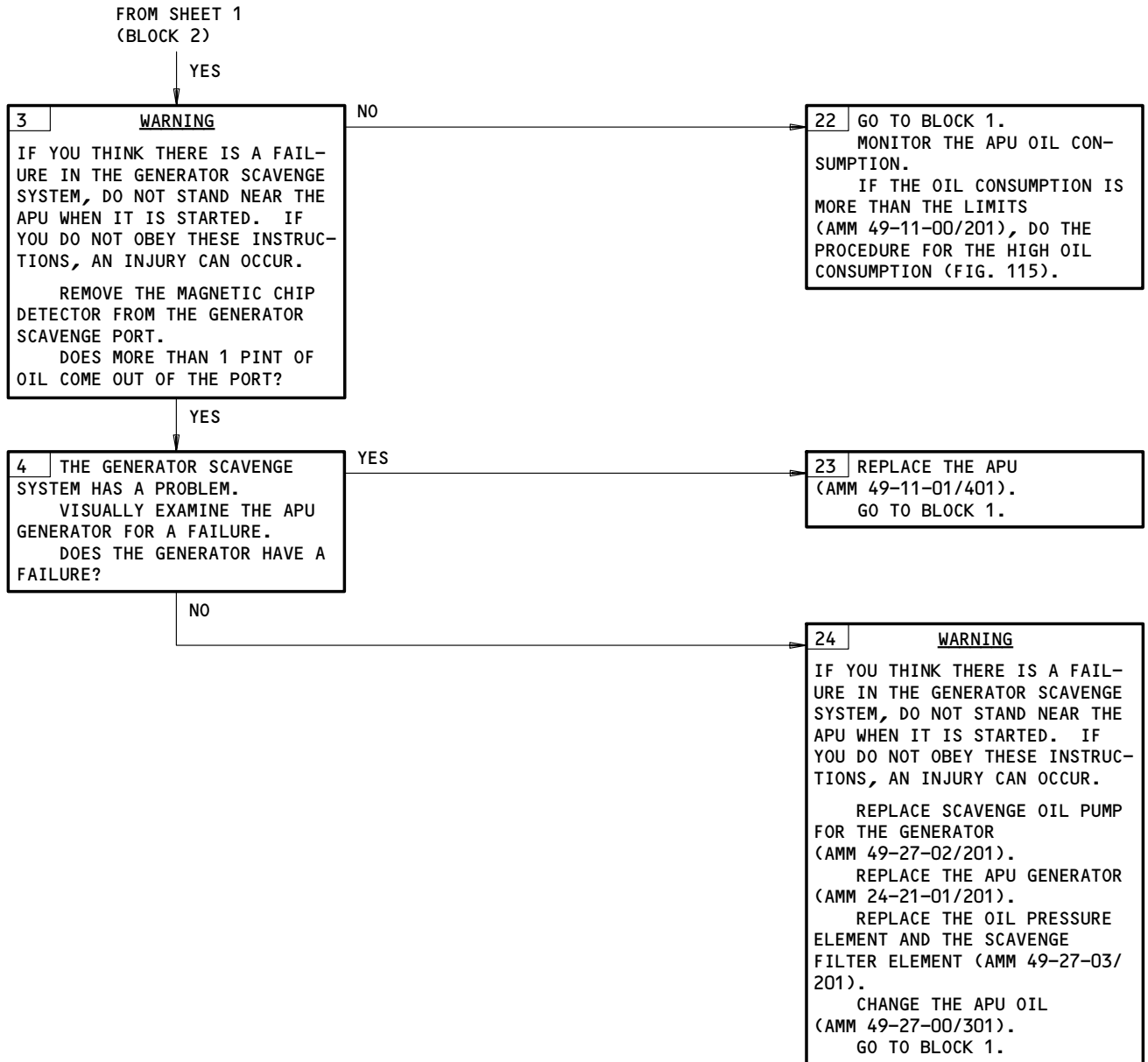
**21A** THE SYSTEM IS OK. DO THE APU SHUTDOWN PROCEDURE (AMM 49-11-00/201).

- 1** GUI 001-114,116-999
- 2** GUI 115

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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL UNIT -19 AND SUBSEQUENT

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

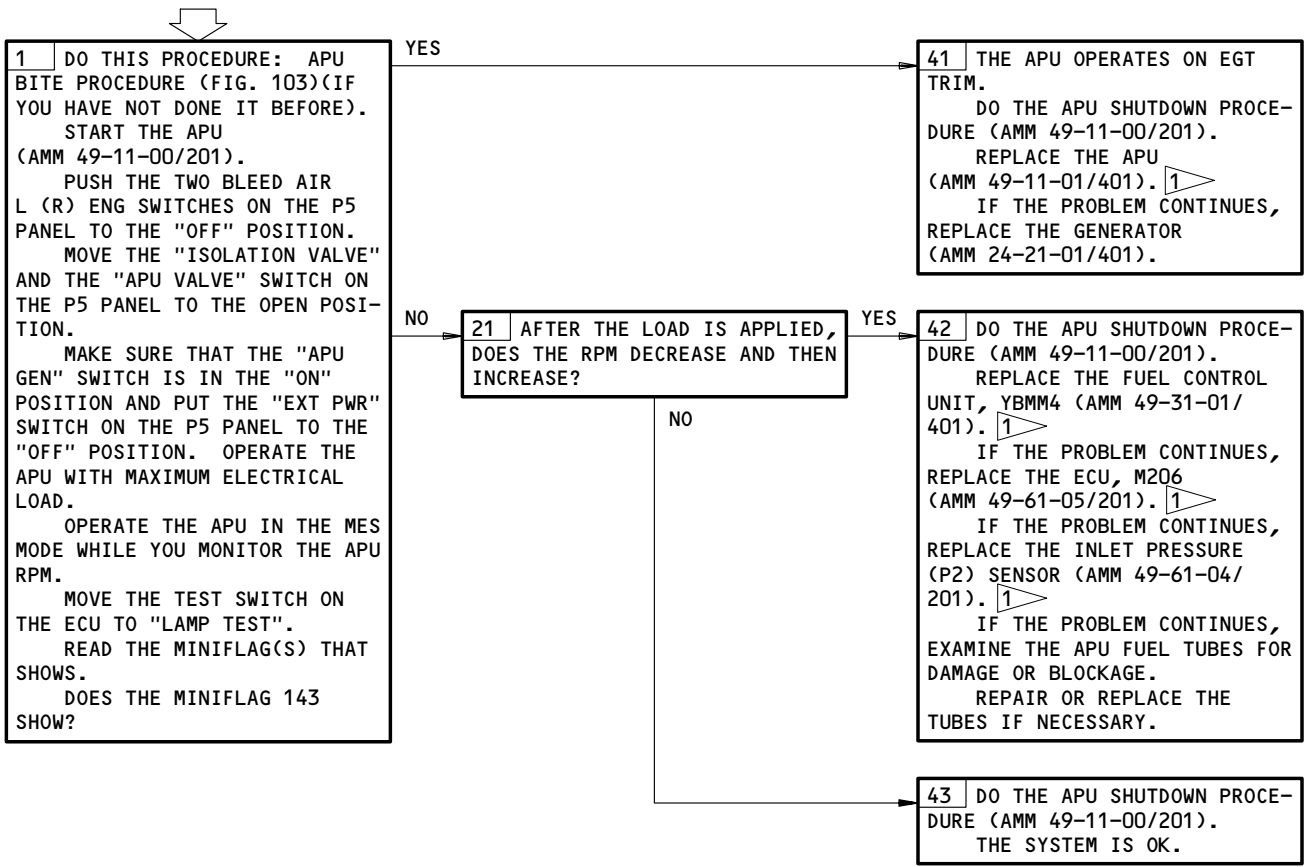
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**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  
AIRPLANES WITH THE APU CONTROL UNIT -19 AND SUBSEQUENT

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989028

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

**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:

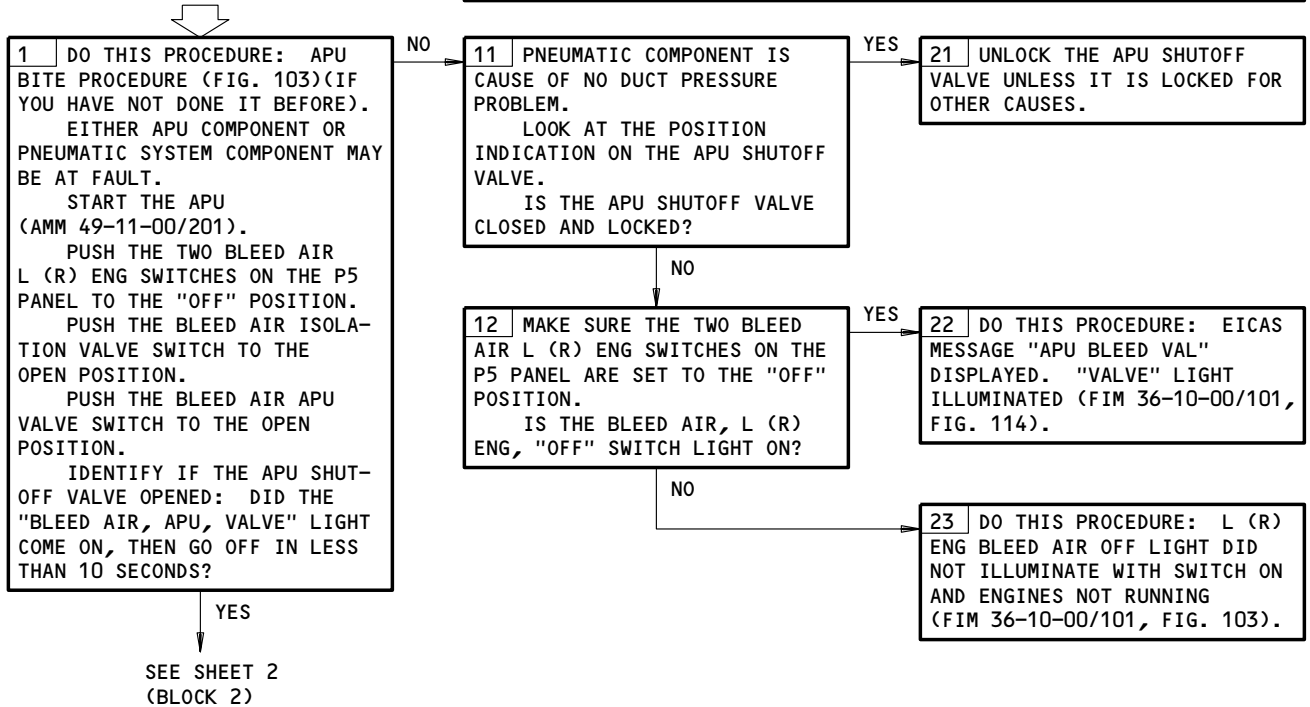
- EICAS (AMM 31-41-00/201)
- APU START NORMAL

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

- 6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

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



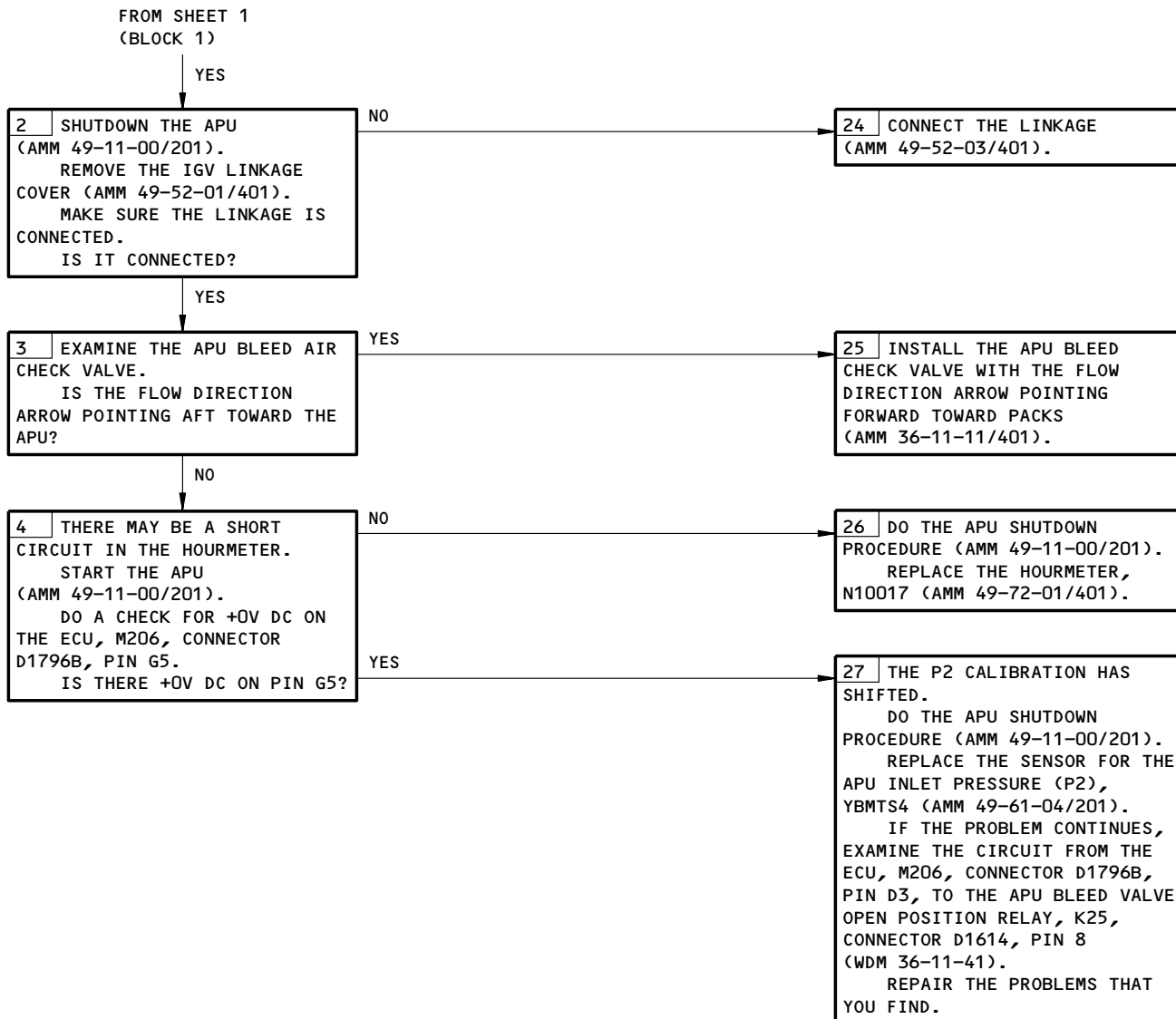
No Duct Pressure (0-2 PSIG)  
Figure 118 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**PREREQUISITES**

MAKE SURE THESE SYSTEMS WILL OPERATE:

EICAS (AMM 31-41-00/201)

APU START NORMAL

APU BATTERY CHARGER OPERATES NORMAL

(ELECTROMAGNETIC INTERFERENCE CAN CAUSE INCORRECT SIGNALS TO AND FROM THE ECU)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,

APU CONT, APU START, APU INLET DR ACT

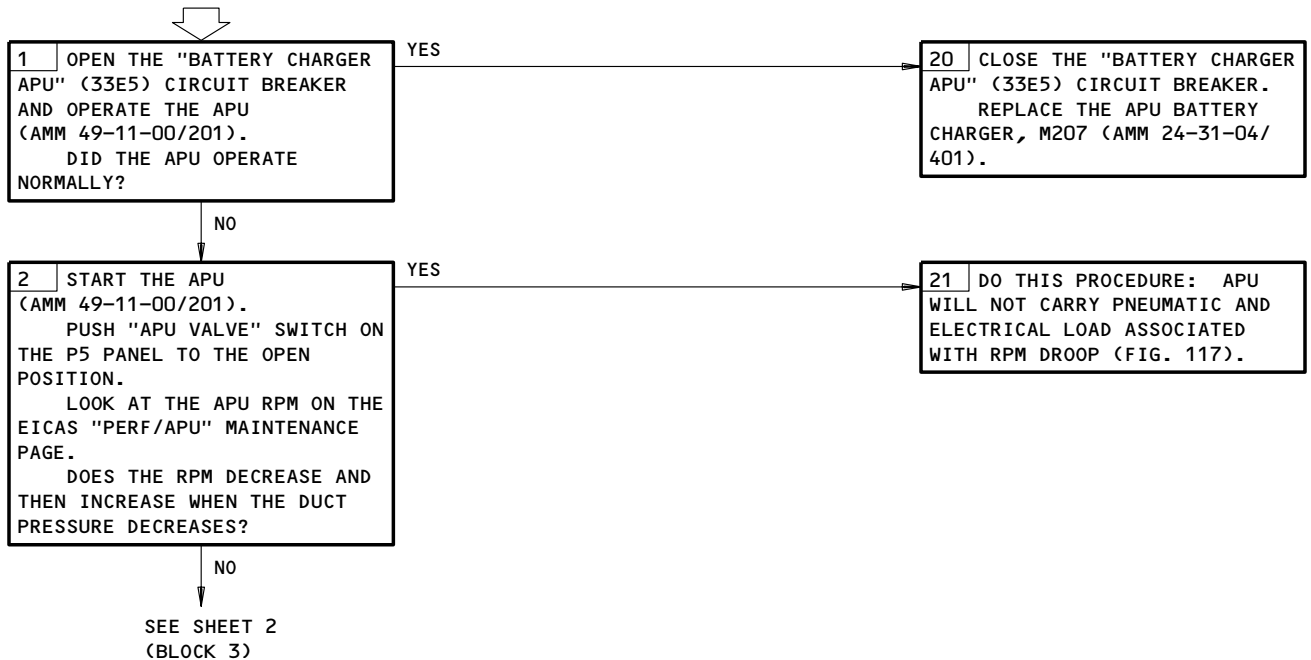
(AFT EQUIPMENT CENTER, E6)

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**

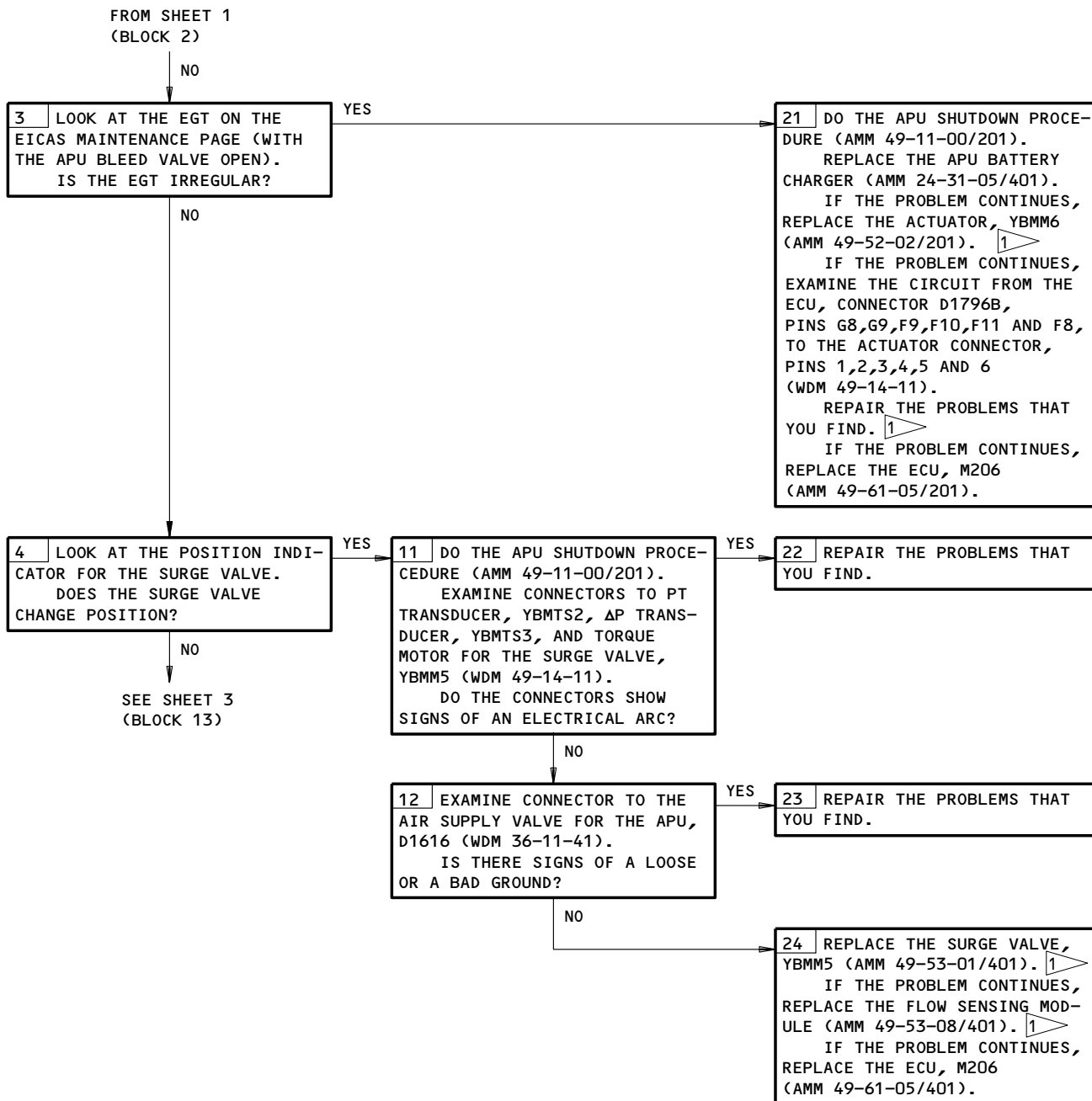


Fluctuating Duct Pressure  
Figure 119 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
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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.

Fluctuating Duct Pressure  
Figure 119 (Sheet 2)

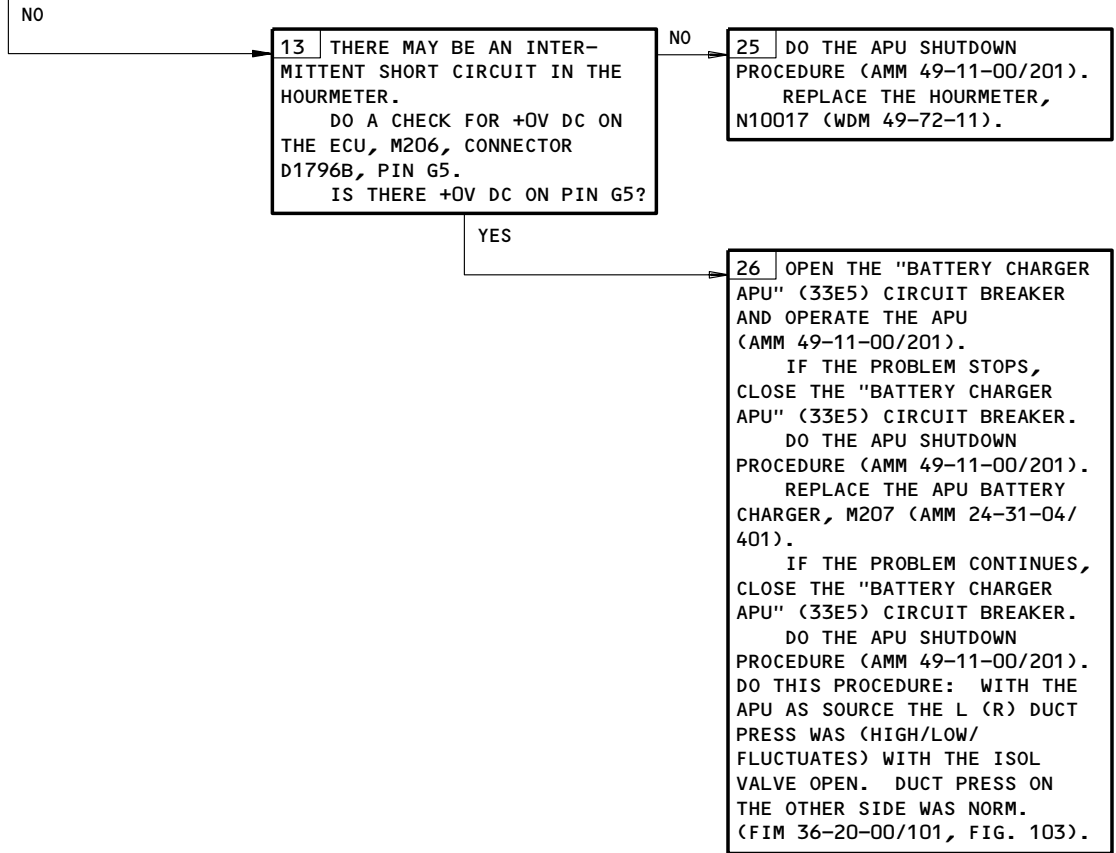
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

FROM SHEET 2  
(BLOCK 4)



Fluctuating Duct Pressure  
Figure 119 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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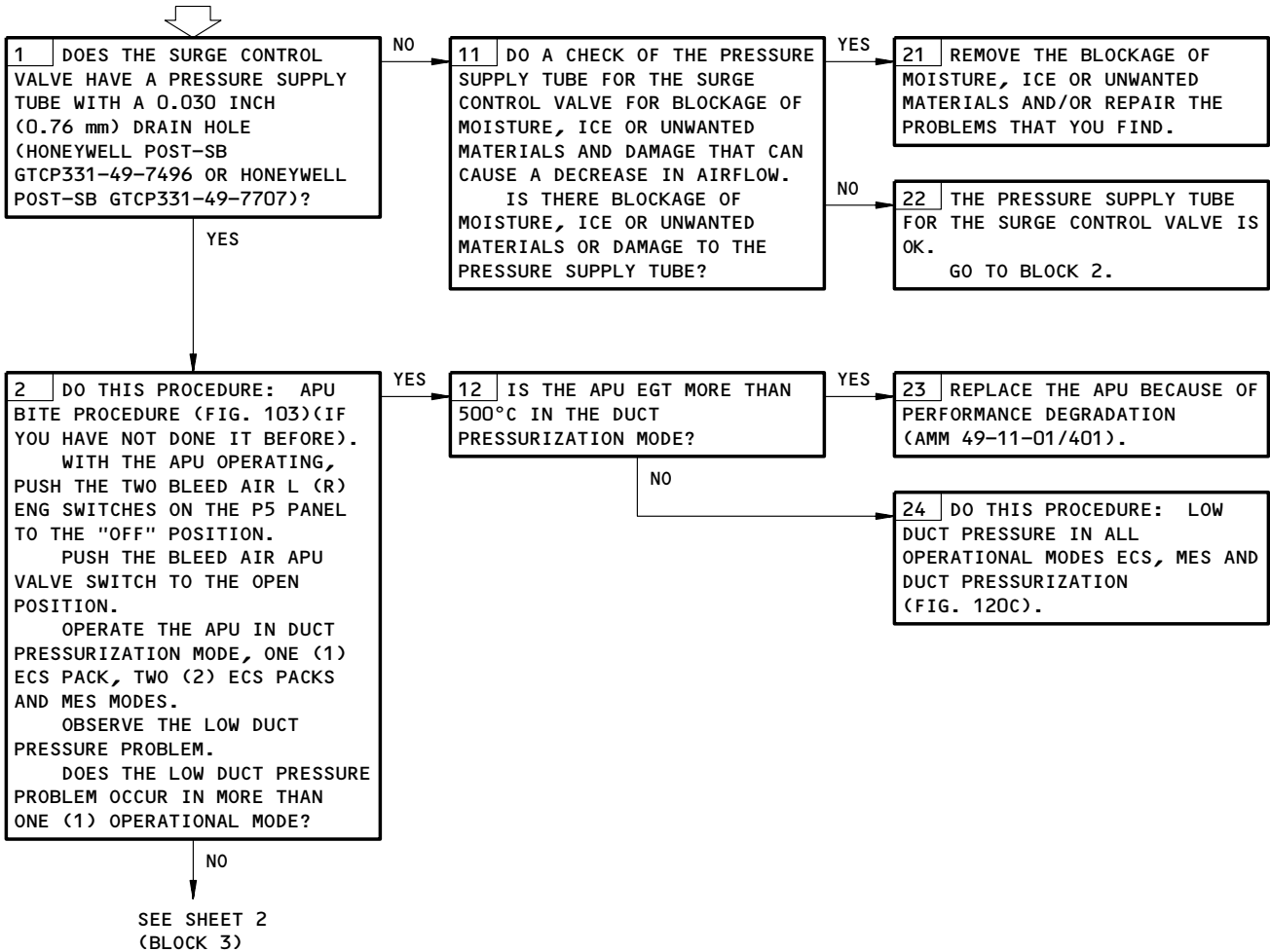
**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
 APU CONT, APU START, APU INLET DR ACT  
 (AFT EQUIPMENT CENTER, E6)

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

**LOW DUCT PRESSURE**



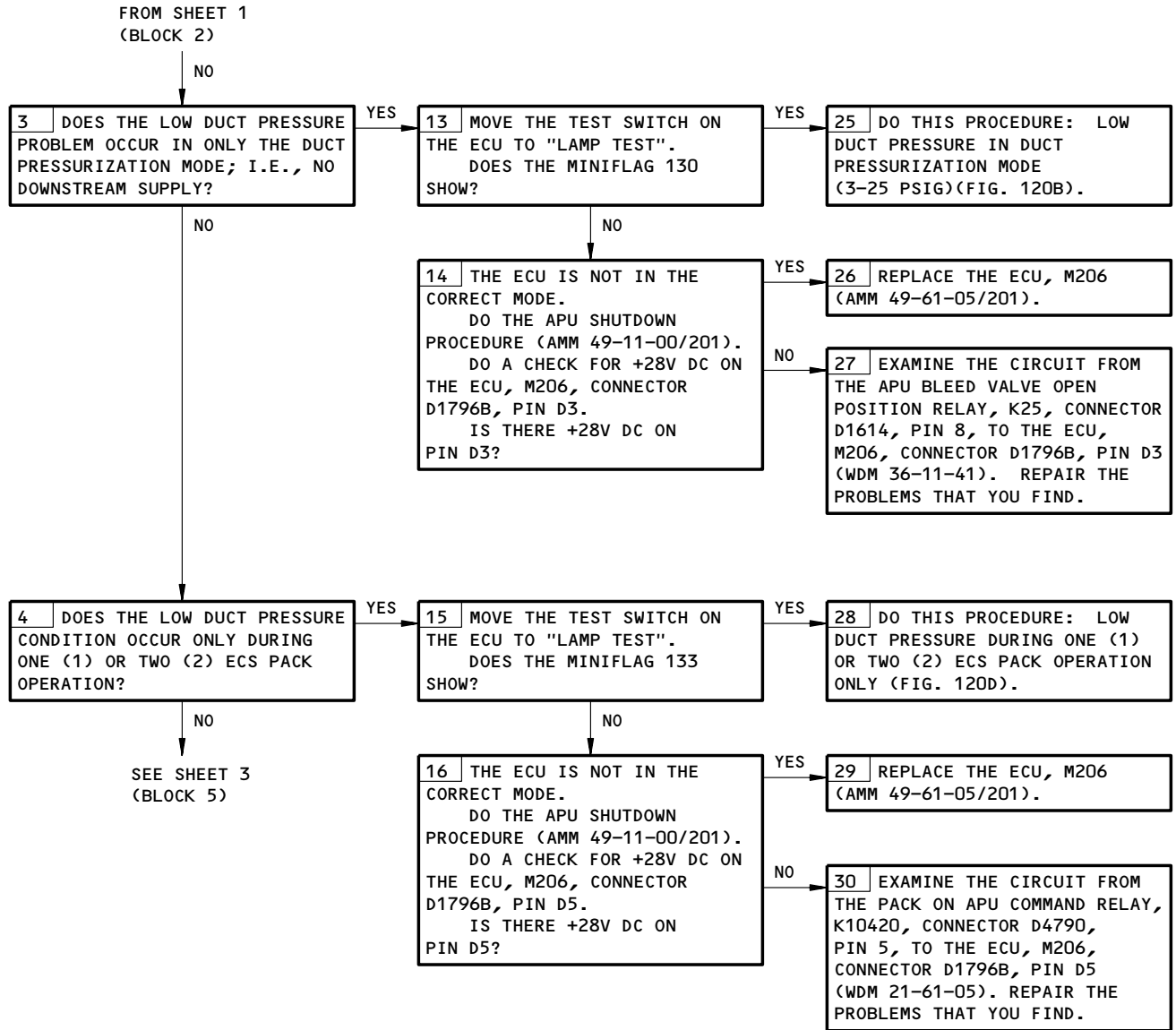
Low Duct Pressure  
 Figure 120 (Sheet 1)

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

**49-11-00**  
 CONFIG 2  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

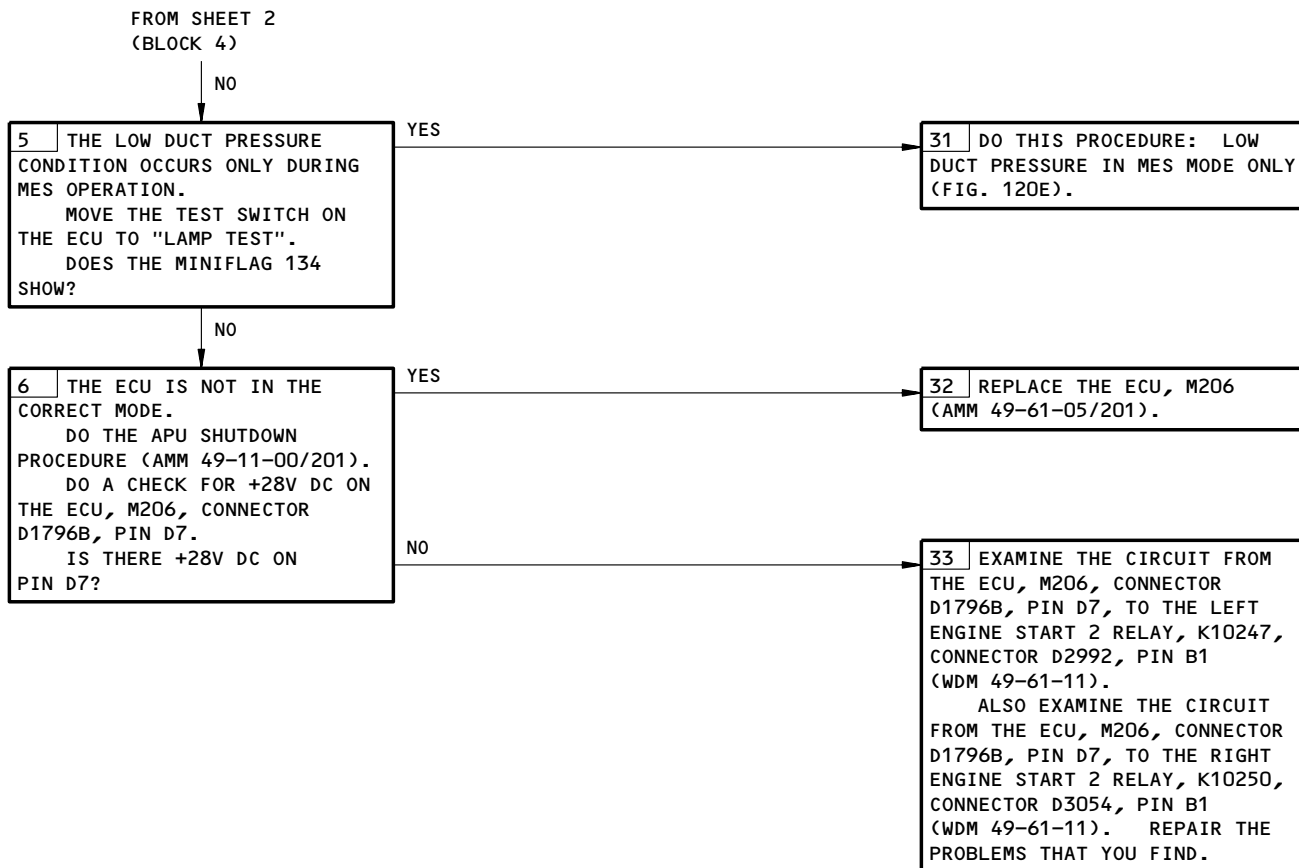


Low Duct Pressure  
Figure 120 (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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Low Duct Pressure  
Figure 120 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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Not Used  
Figure 120A

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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

**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:

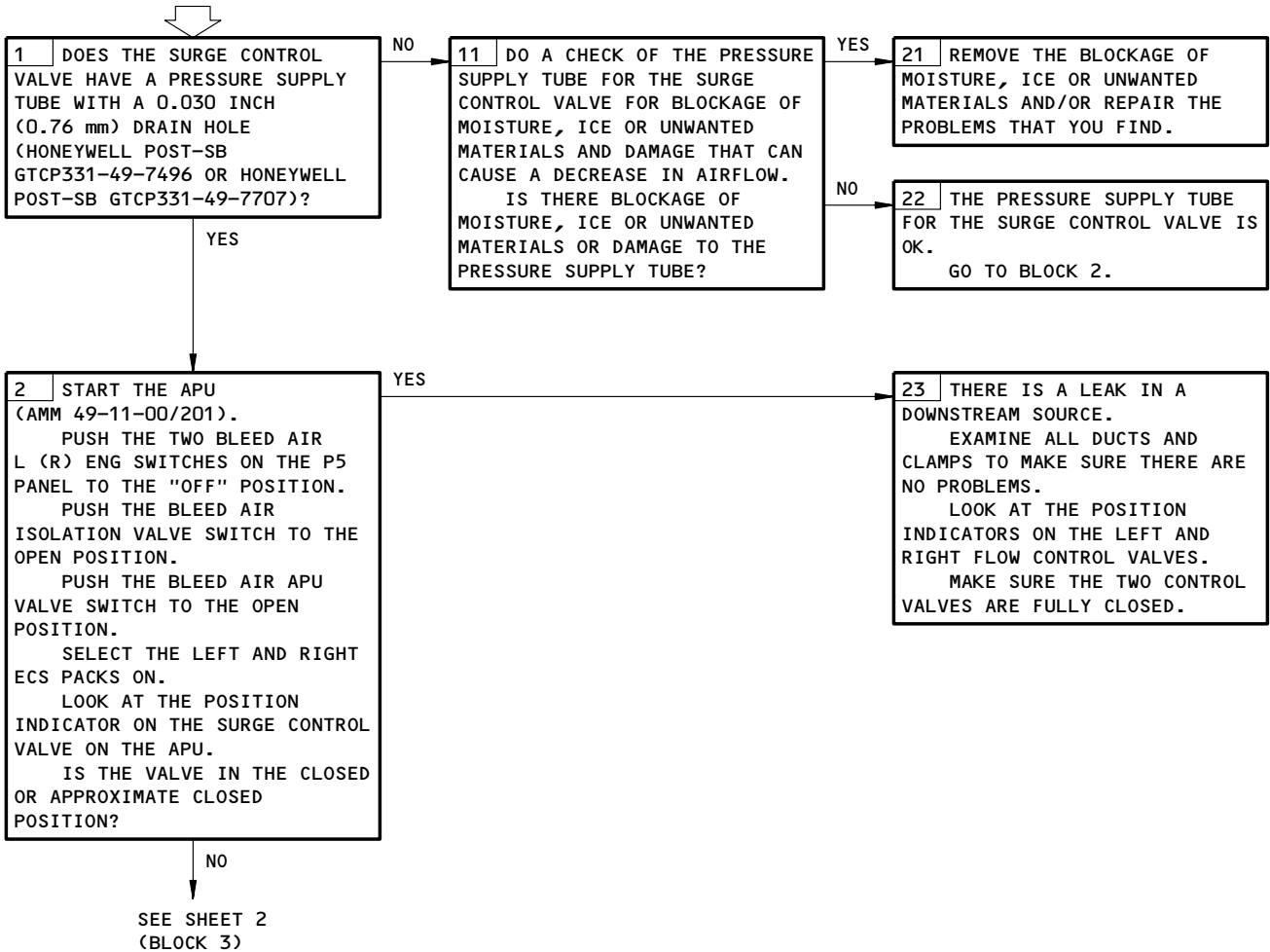
APU START NORMAL (AMM 49-11-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
 APU CONT, APU START, APU INLET DR ACT  
 (AFT EQUIPMENT CENTER, E6)

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

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

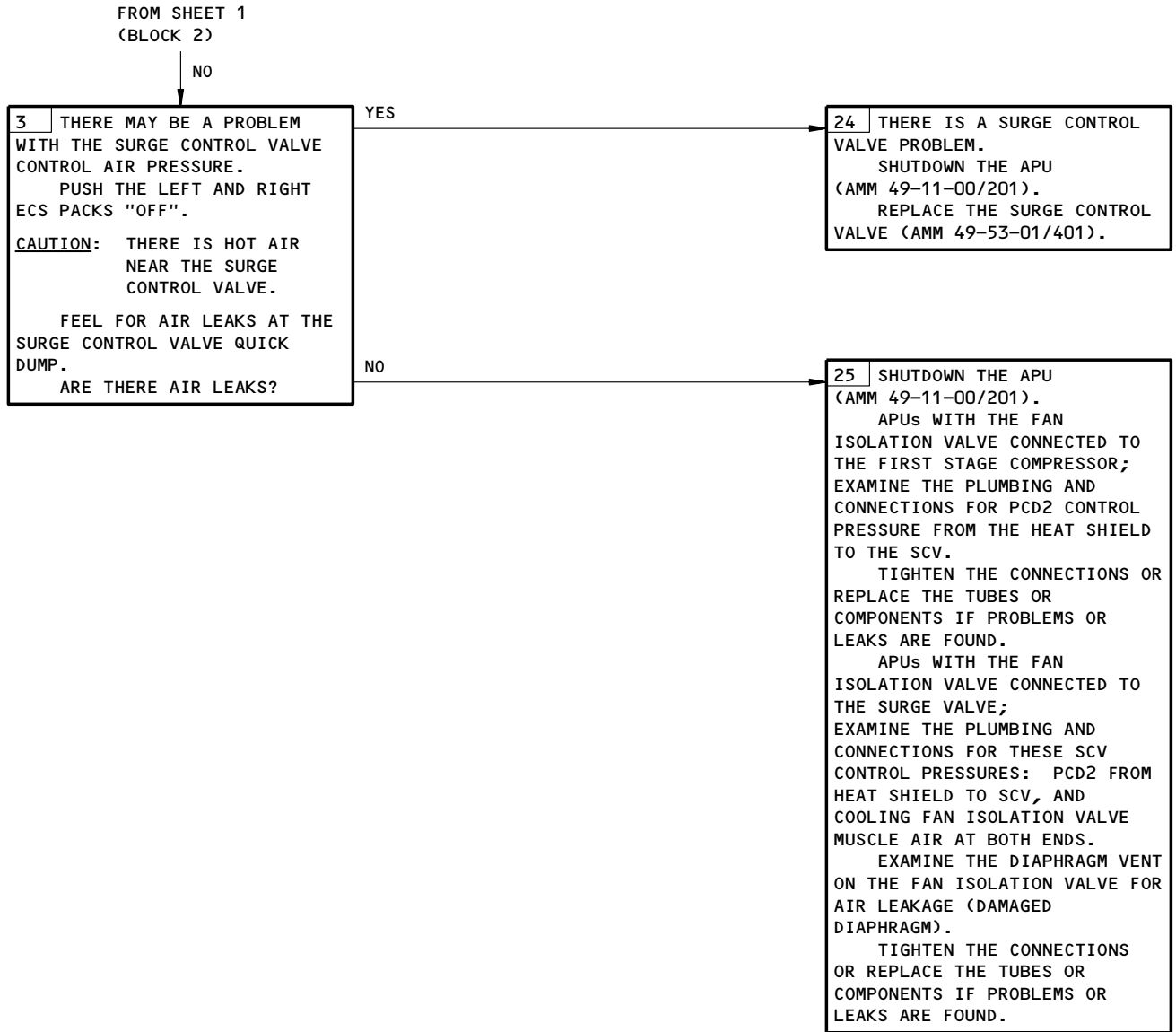


Low Duct Pressure in Duct Pressurization Mode (3-25 PSIG)  
 Figure 120B (Sheet 1)

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

**49-11-00**  
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Low Duct Pressure in Duct Pressurization Mode (3-25 PSIG)  
Figure 120B (Sheet 2)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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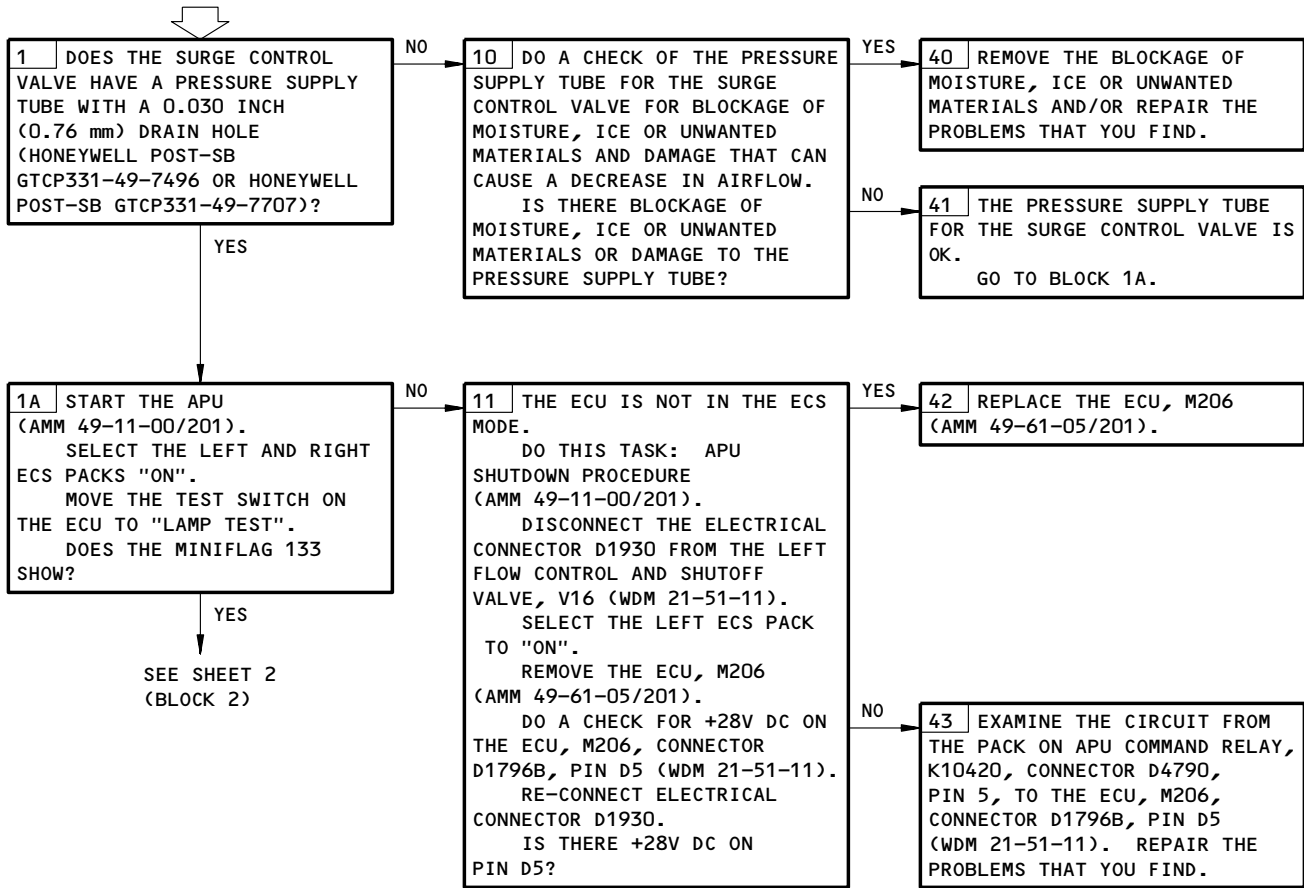
**LOW DUCT PRESSURE  
IN ALL OPERATIONAL  
MODES: ECS, MES  
AND DUCT  
PRESSURIZATION**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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

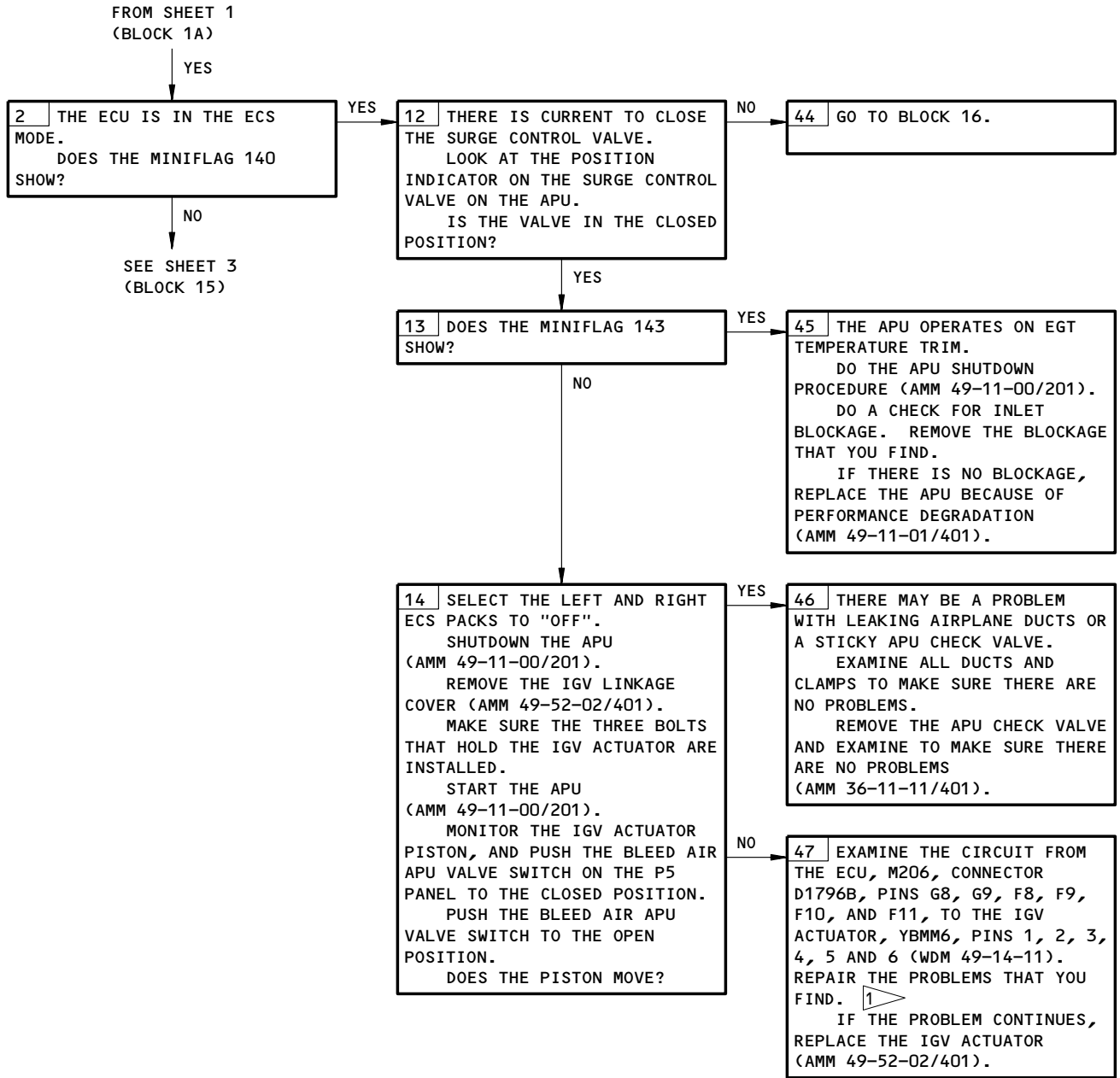


Low Duct Pressure in All Operational Modes:  
ECS, MES and Duct Pressurization  
Figure 120C (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



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.

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

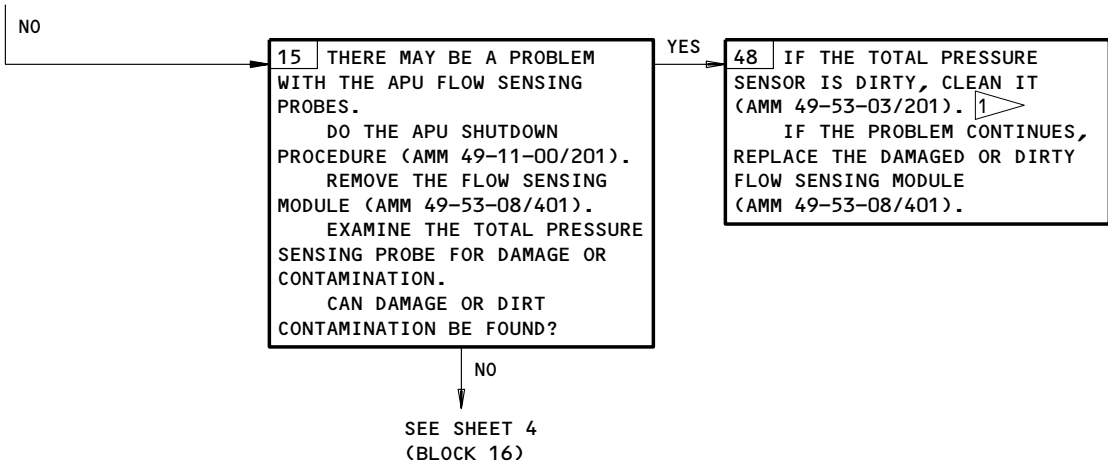
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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**BOEING**  
757  
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)

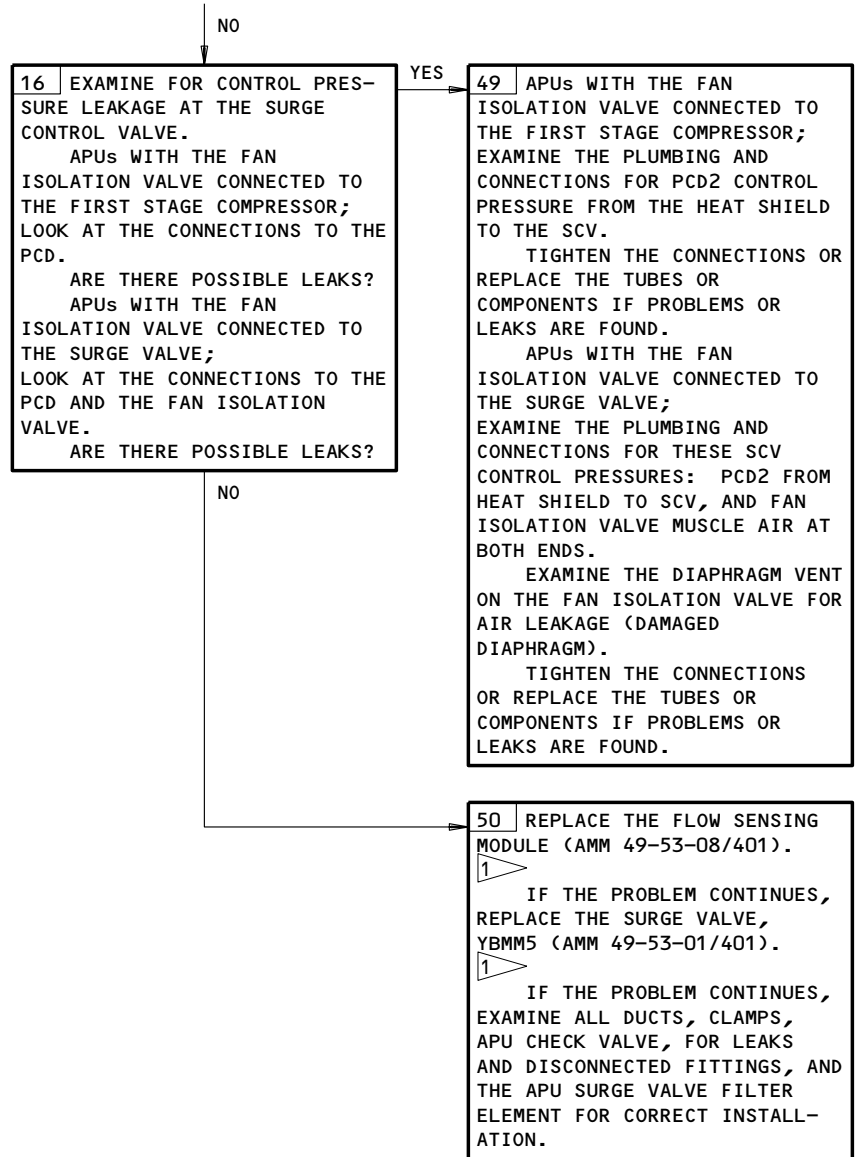
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
Page 168  
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**BOEING**  
757  
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  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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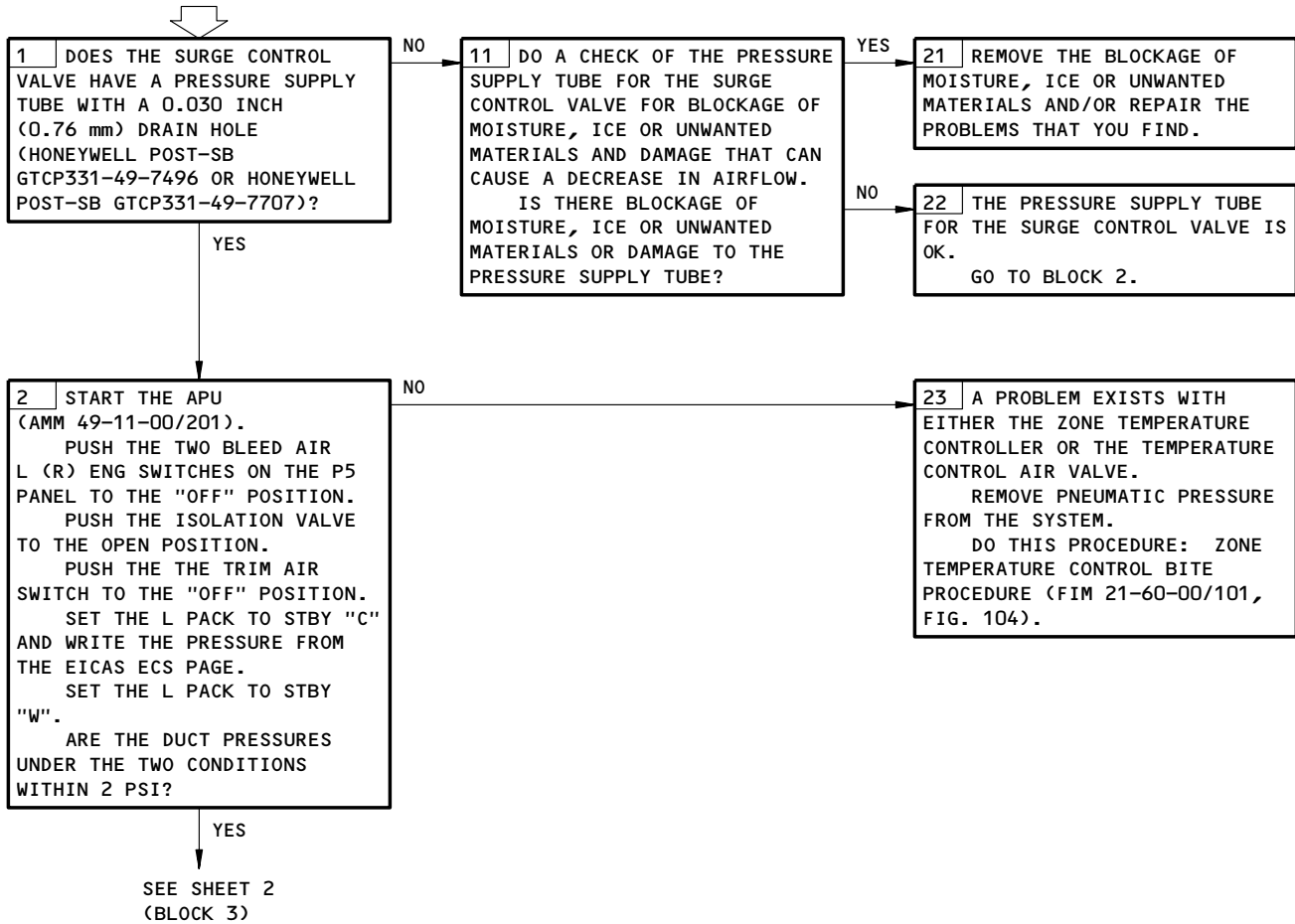
**LOW DUCT PRESSURE  
DURING ONE OR TWO  
ECS PACK OPERATION  
ONLY**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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

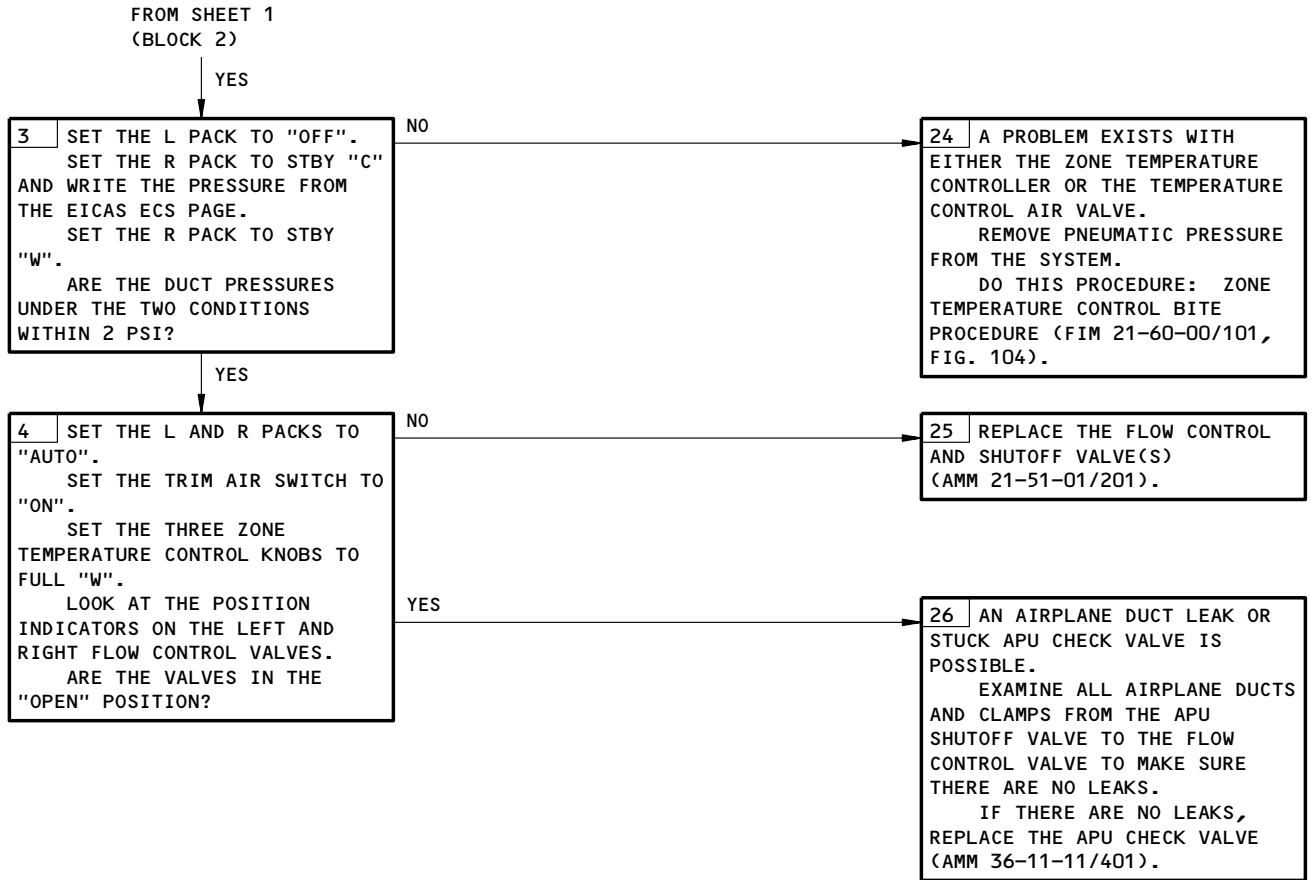


Low Duct Pressure During One or Two ECS Pack Operation Only  
Figure 120D (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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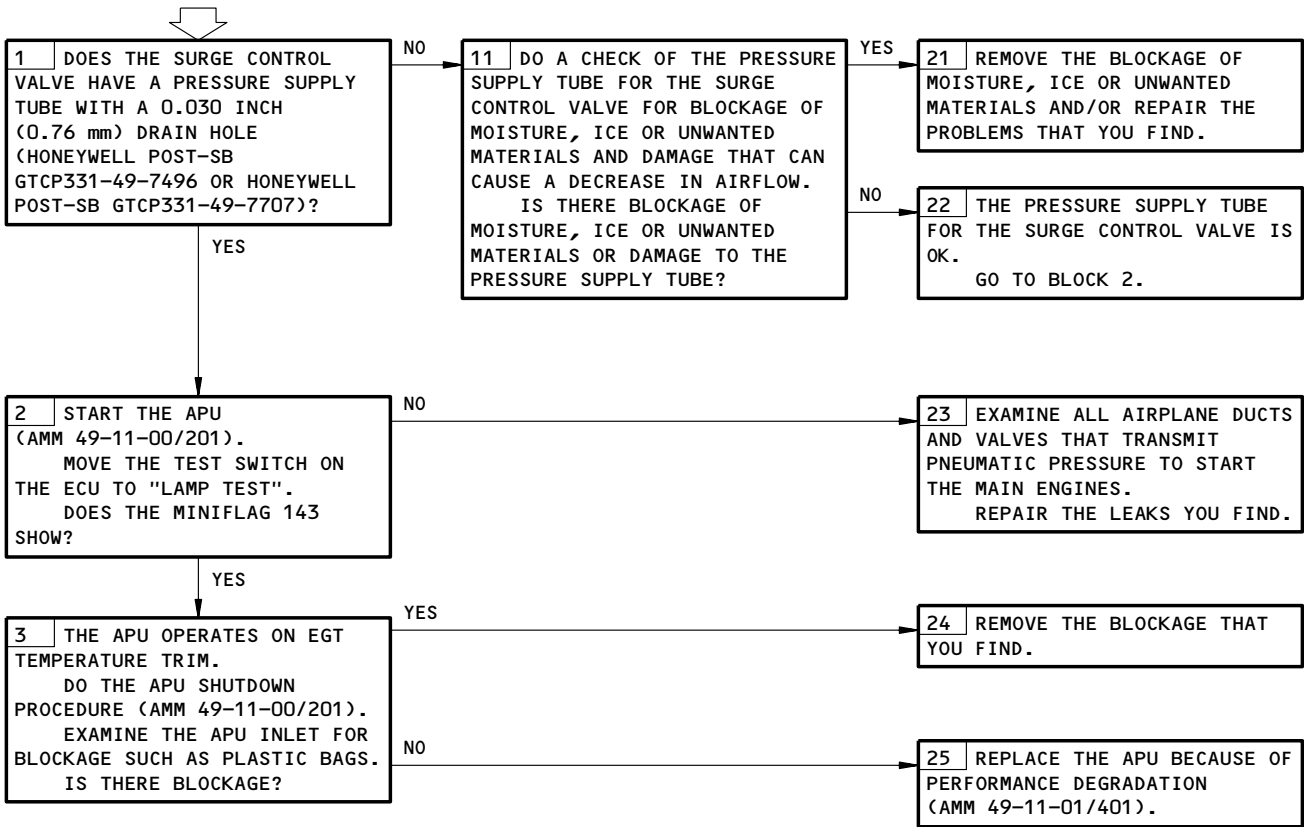
**LOW DUCT PRESSURE  
IN "MES" MODE ONLY**

**PREREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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



Low Duct Pressure in MES Mode Only  
Figure 120E

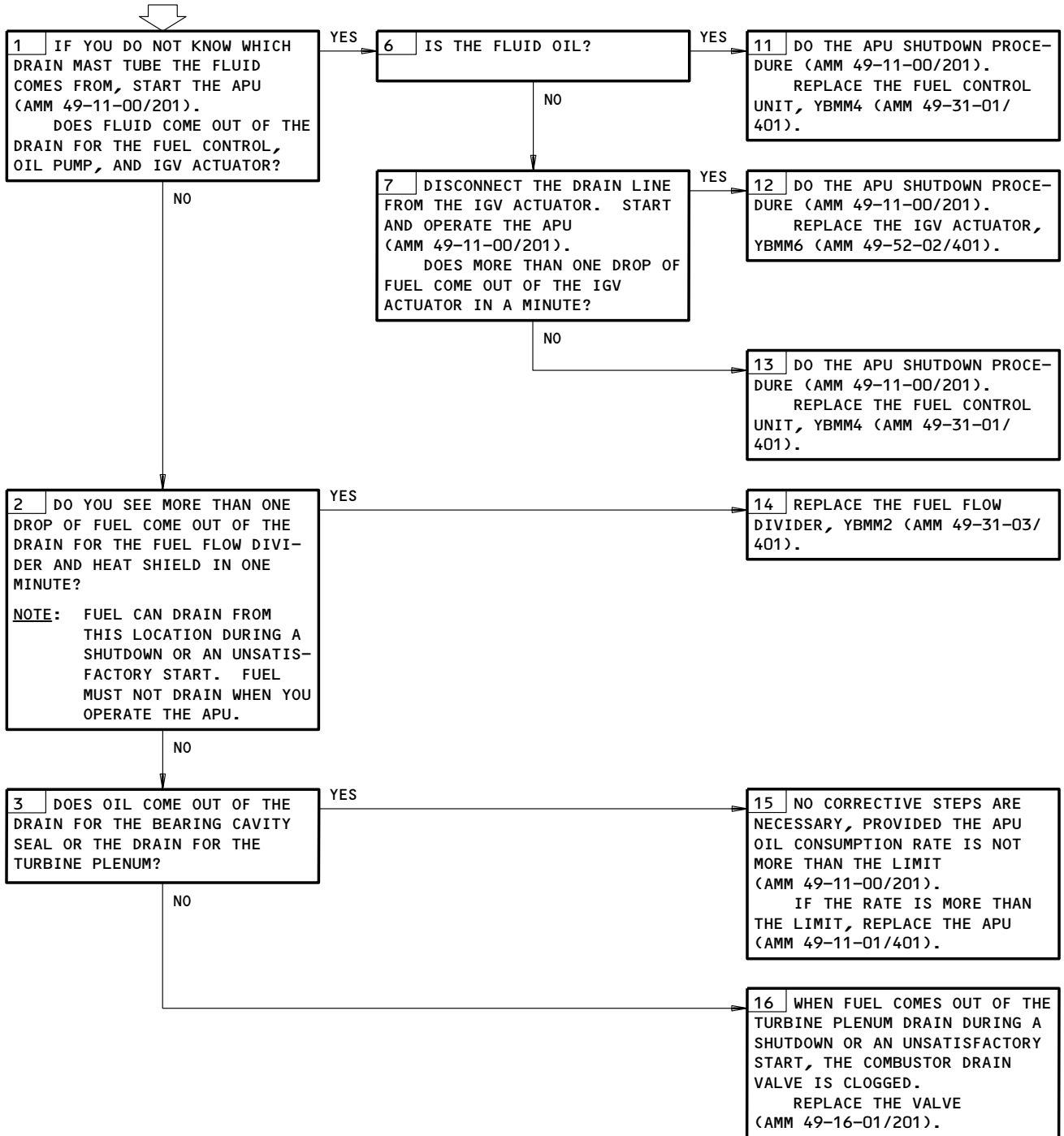
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**FLUIDS COMING FROM DRAIN MAST**

**PREREQUISITES**

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



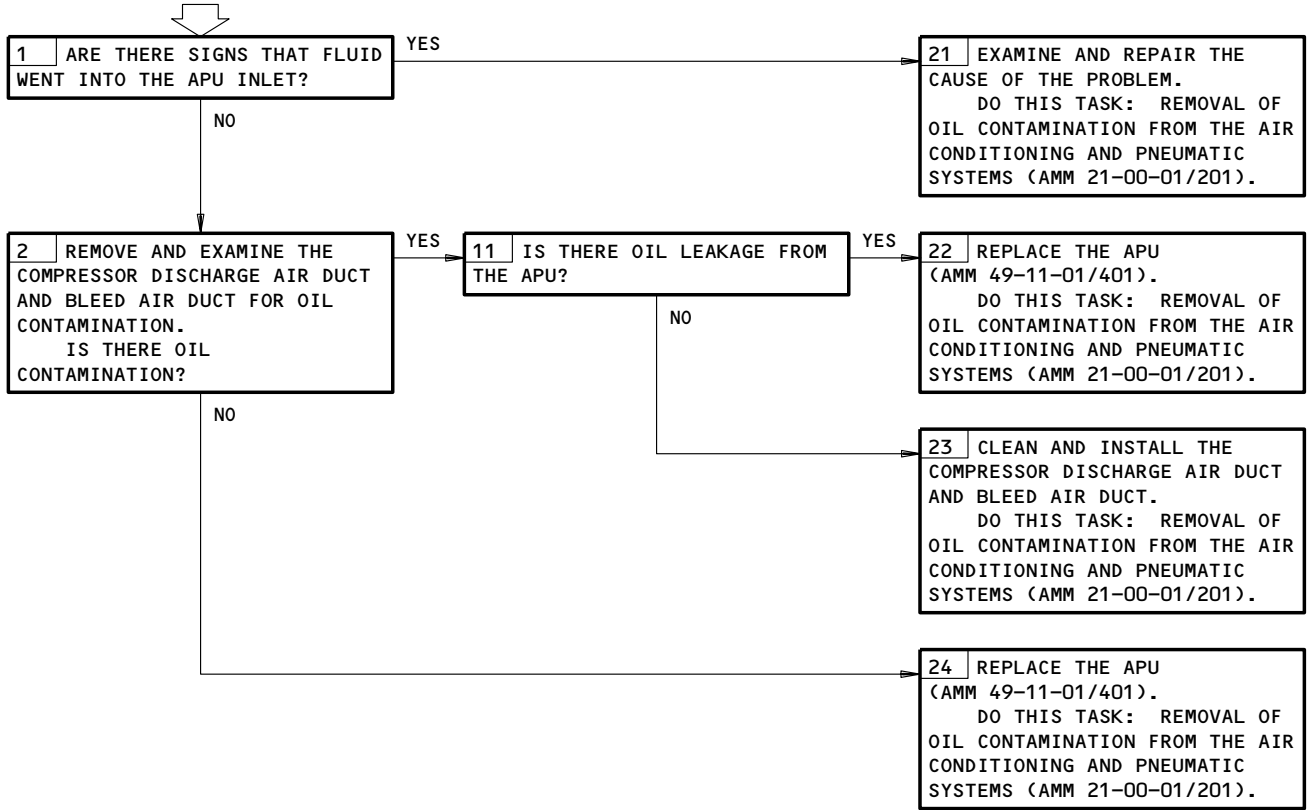
Fluids Coming from Drain Mast  
Figure 121

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**FUMES AND/OR SMOKE  
IN THE CABIN**

**PREREQUISITES**  
NONE



Fumes and/or Smoke in the Cabin  
Figure 122

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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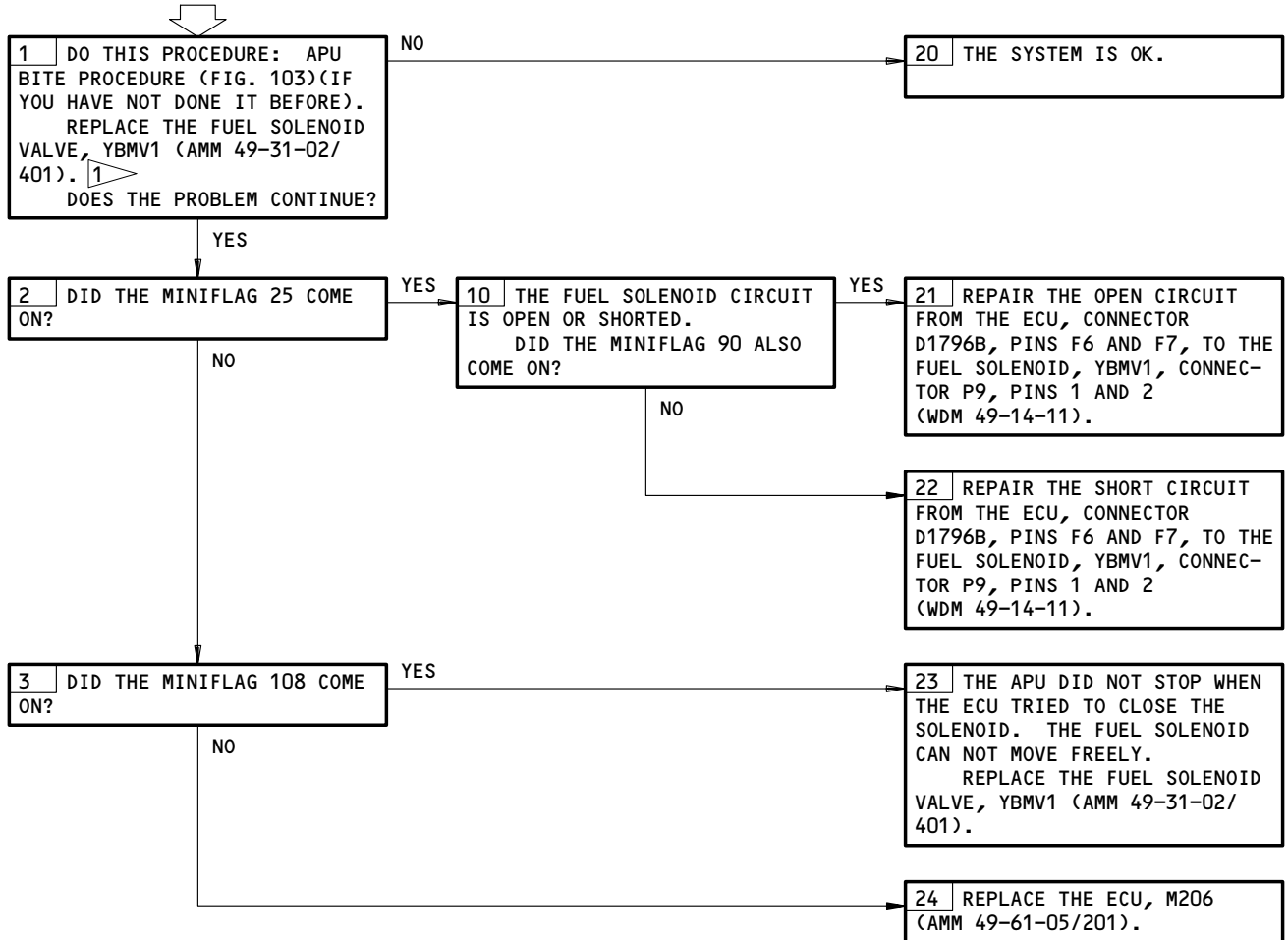
**FAULTY LRU - "FUEL SOL" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - FUEL SOL on BITE  
Figure 123

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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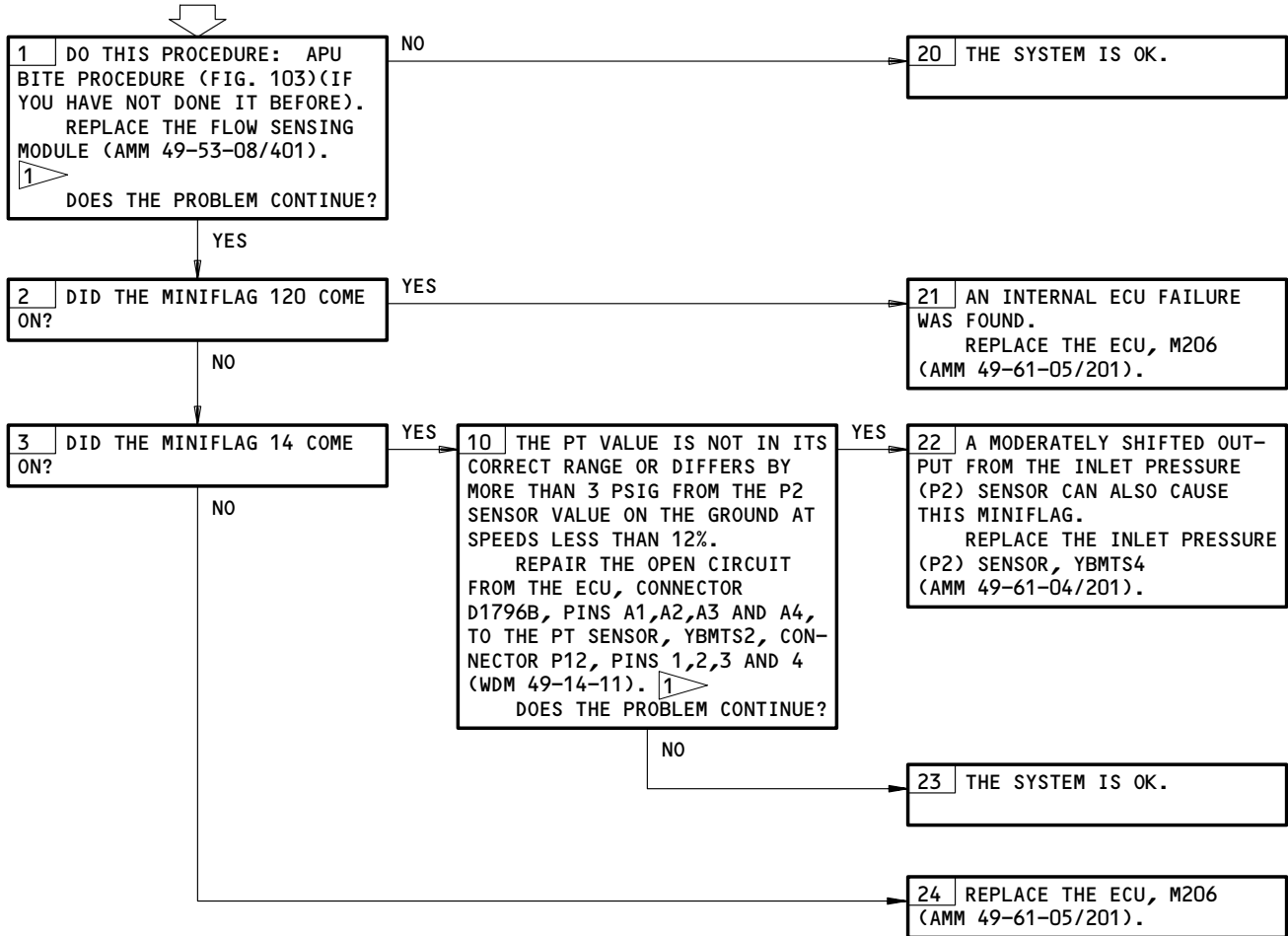
**FAULTY LRU - "PT  
SENSOR" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - PT SENSOR on BITE  
Figure 124

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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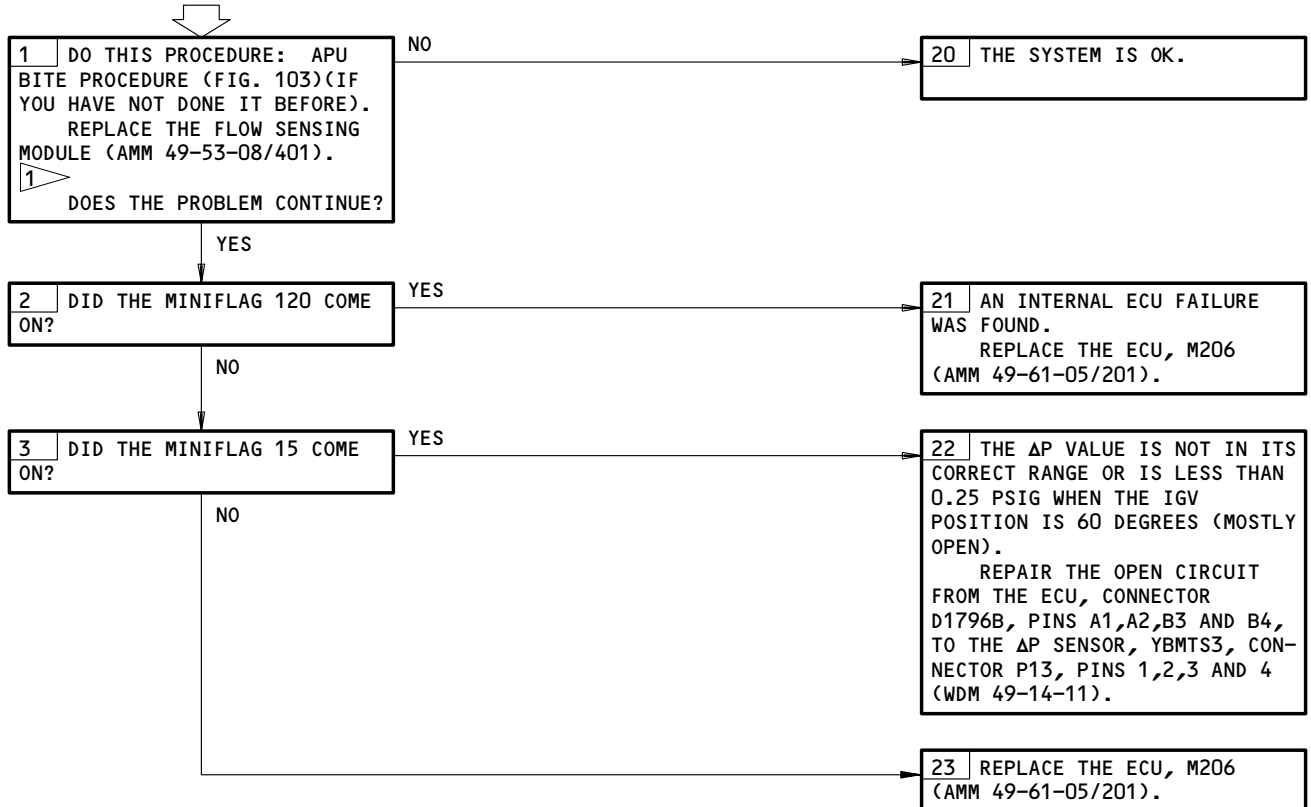
**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - Delta P SENSOR on BITE  
Figure 125

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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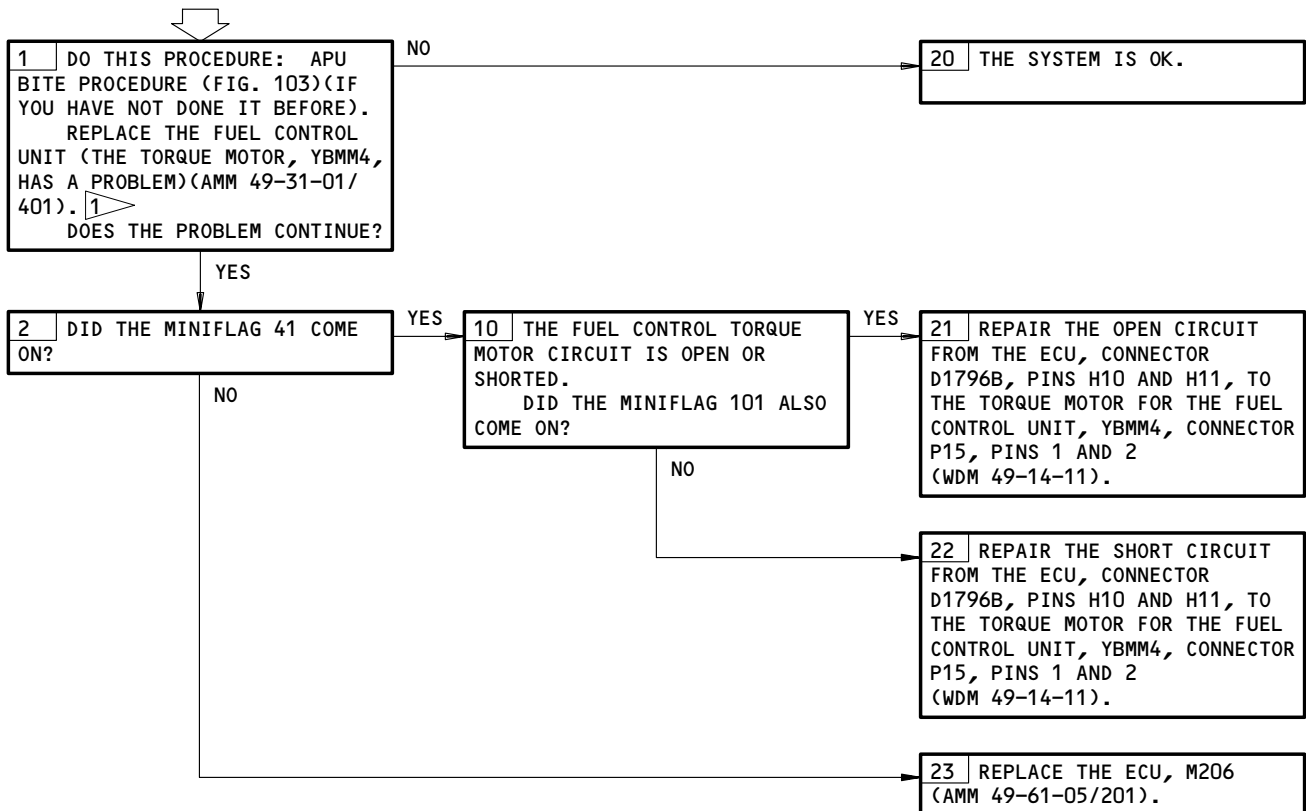
**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU – FUEL CONTROL on BITE  
Figure 126

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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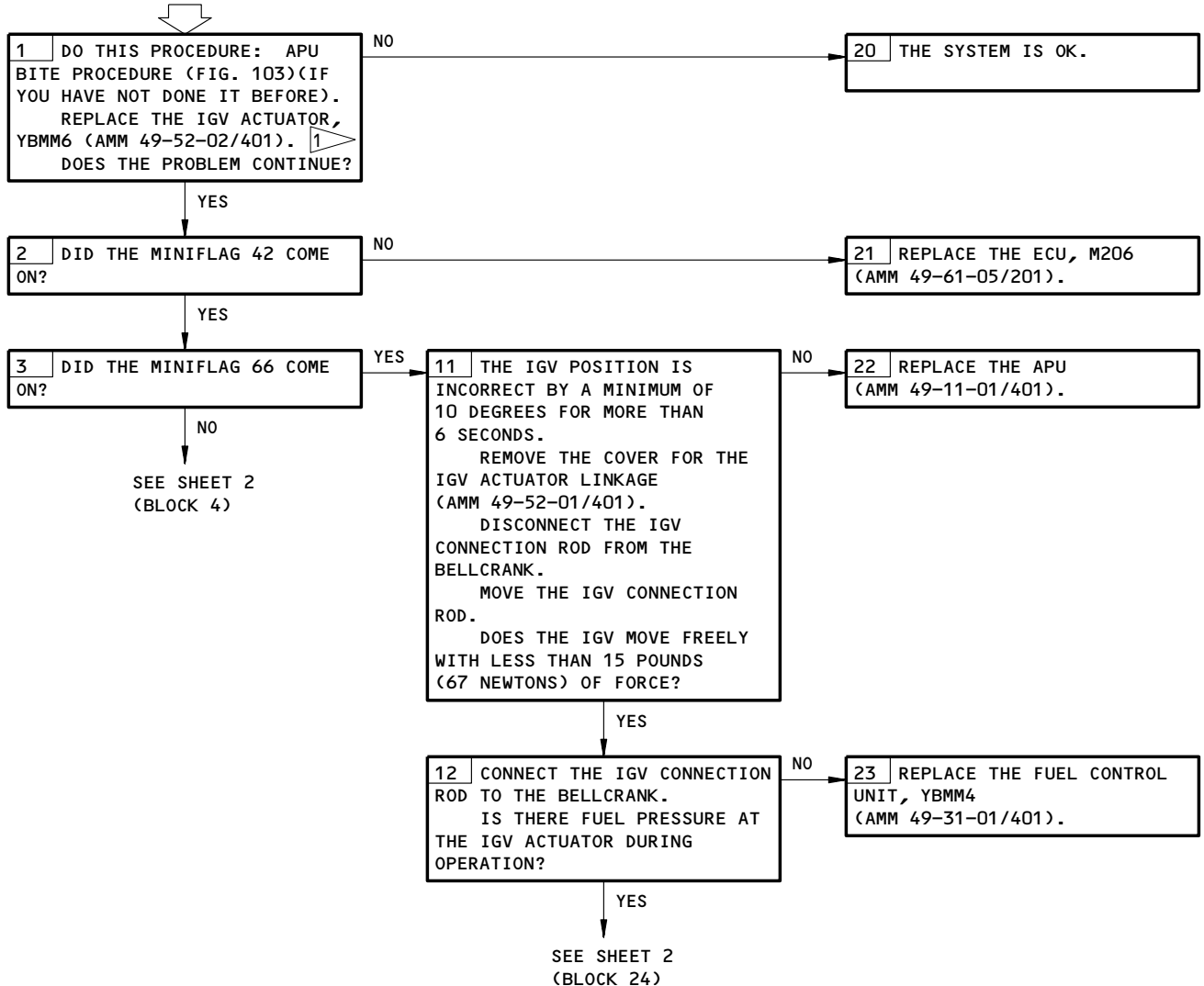
**PREREQUISITES**

MAKE SURE THIS SYSTEM WILL OPERATE:  
EICAS (AMM 31-41-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3, 6H12, 6H23, 11B34, 11C33, 11D32, 11D35,  
APU CONT, APU START, APU INLET DR ACT  
(AFT EQUIPMENT CENTER, E6)

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

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



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

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

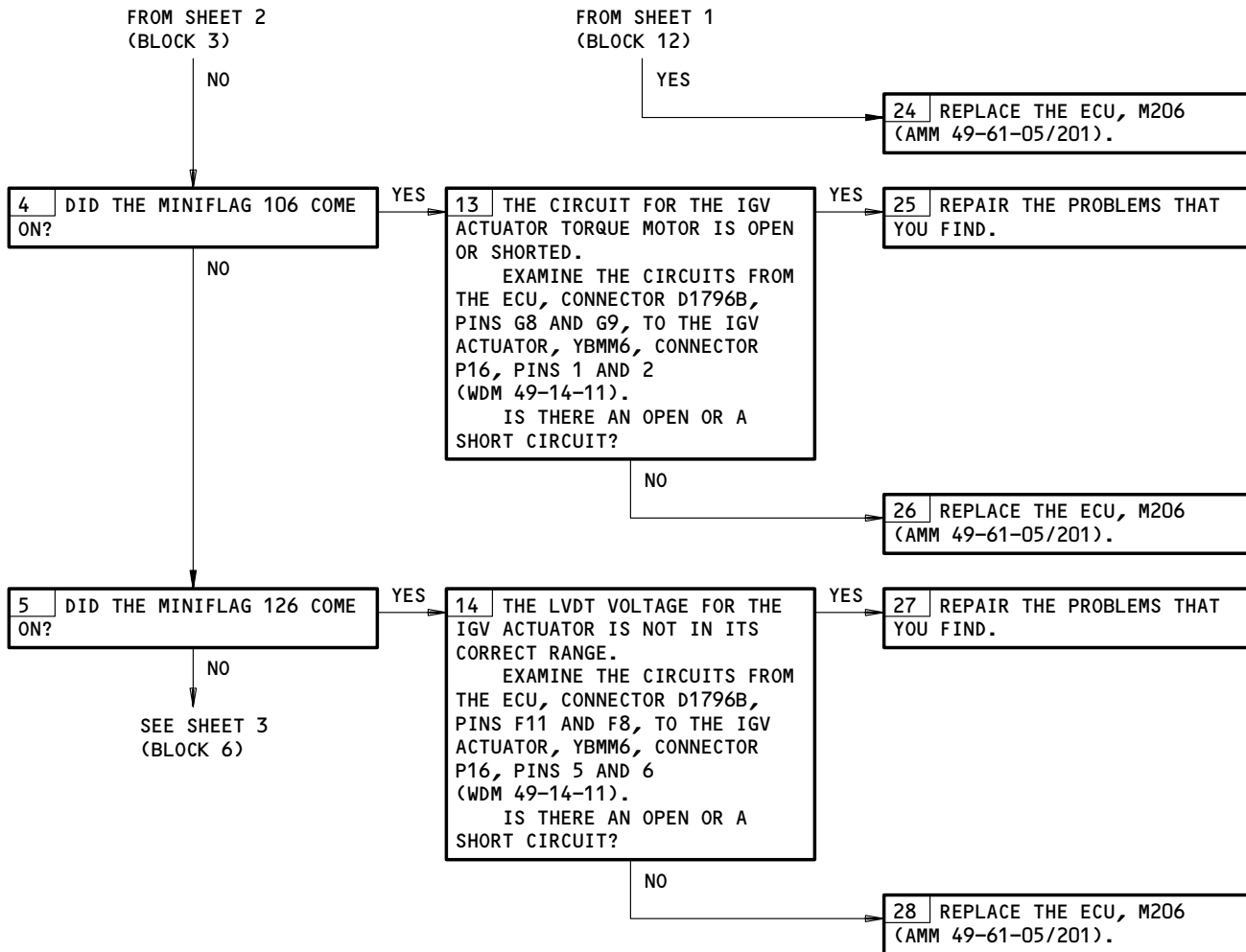
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

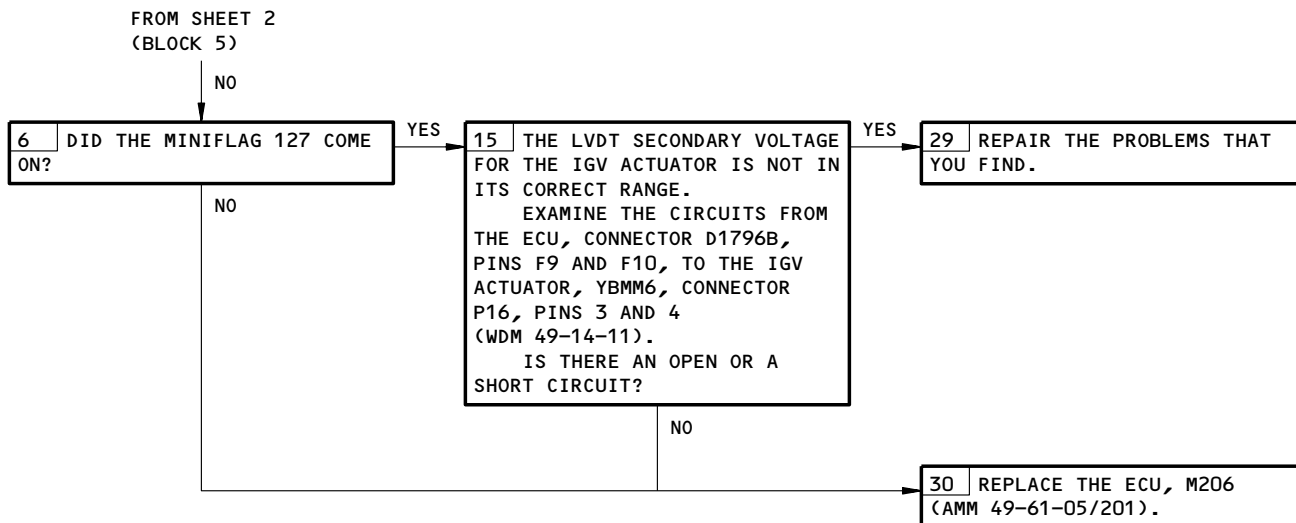


Faulty LRU - IGV ACT on BITE  
 Figure 127 (Sheet 2)

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL



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

EFFECTIVITY  
 AIRPLANES WITH THE APU CONTROL  
 UNIT -19 AND SUBSEQUENT

**49-11-00**  
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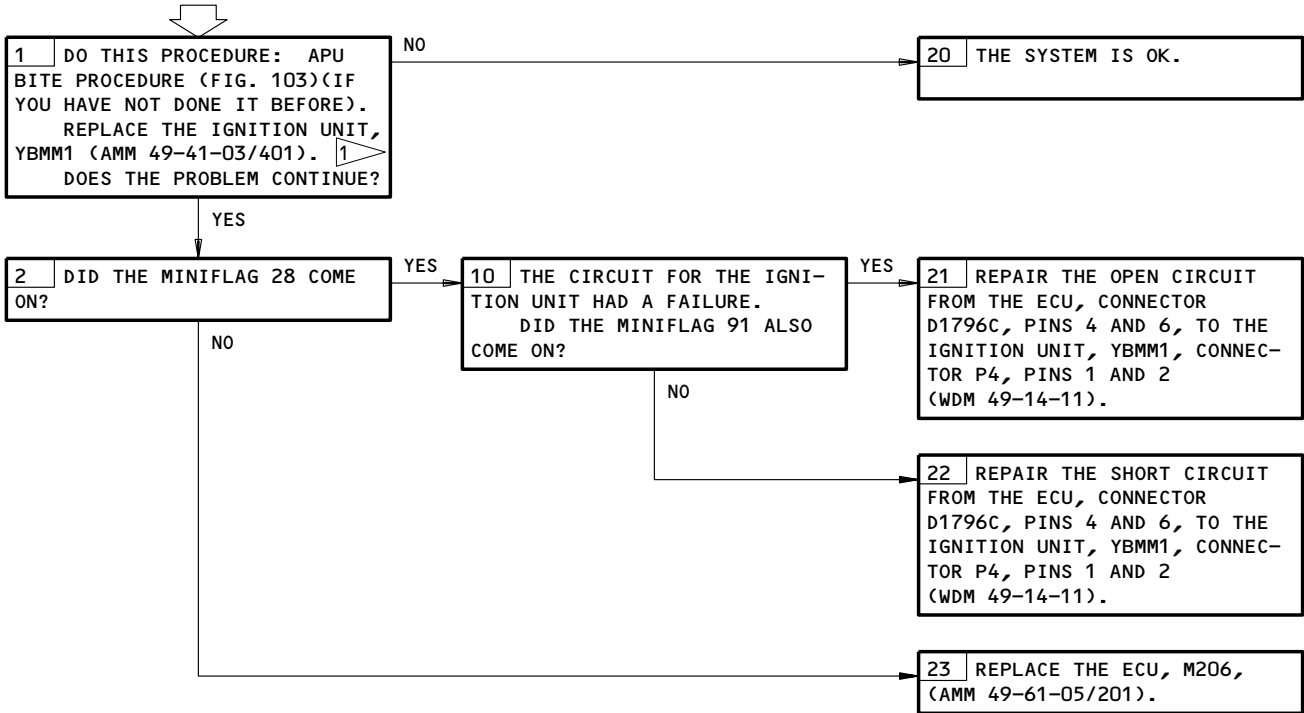
**FAULTY LRU - "IGN UNIT" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - IGN UNIT on BITE  
Figure 128

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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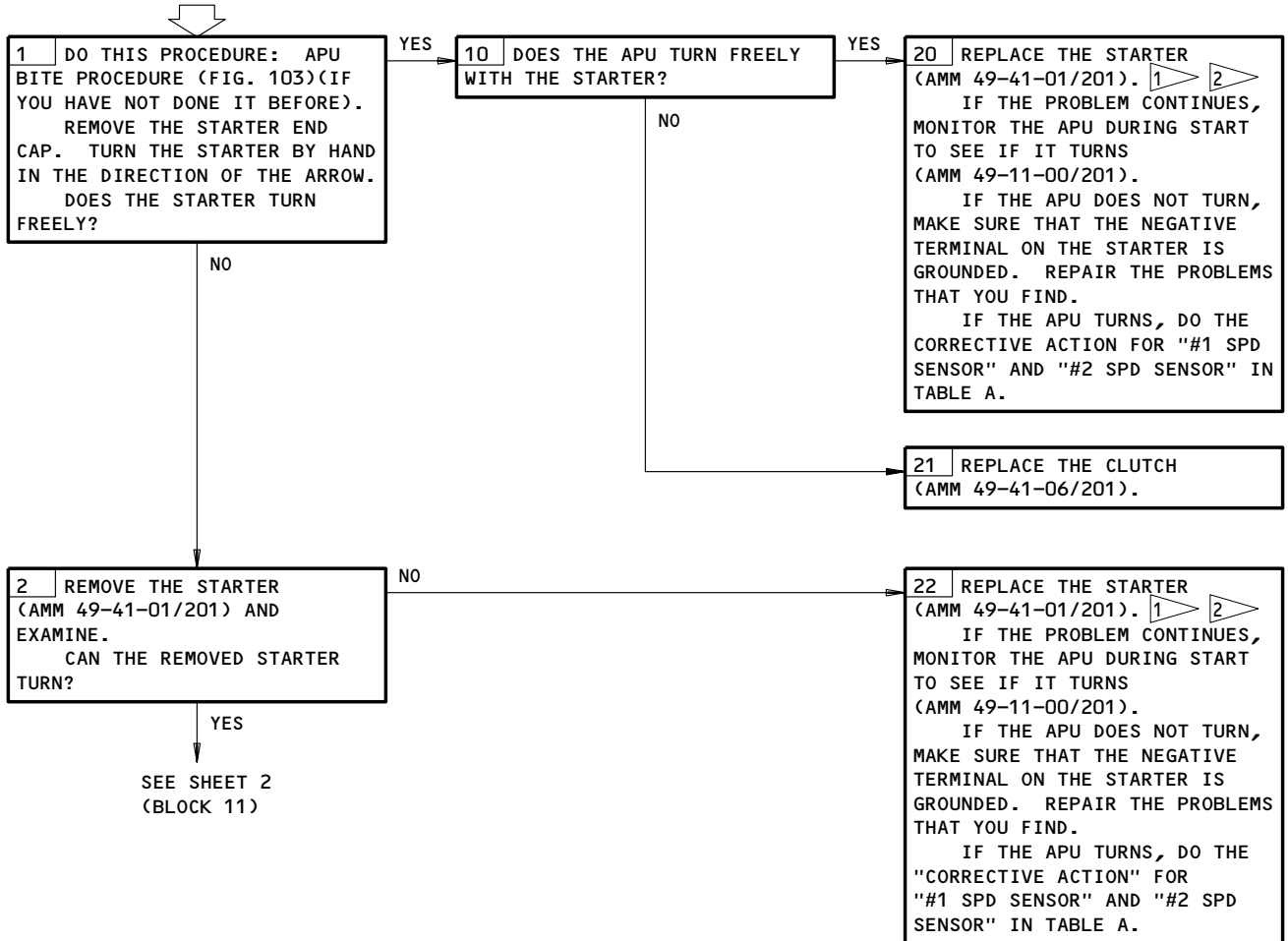
**FAULTY LRU - "APU STARTER" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT CENTER, E6)

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) 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).

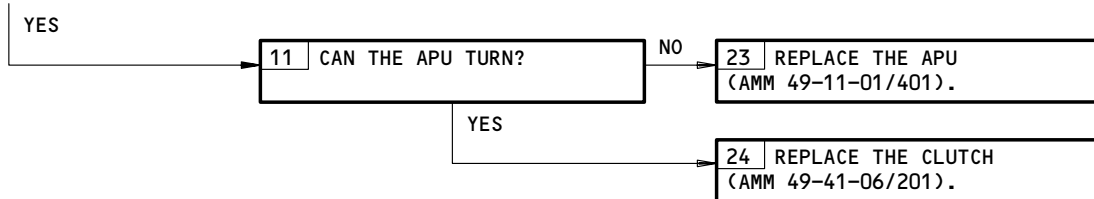
Faulty LRU - APU STARTER on BITE  
Figure 129 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



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

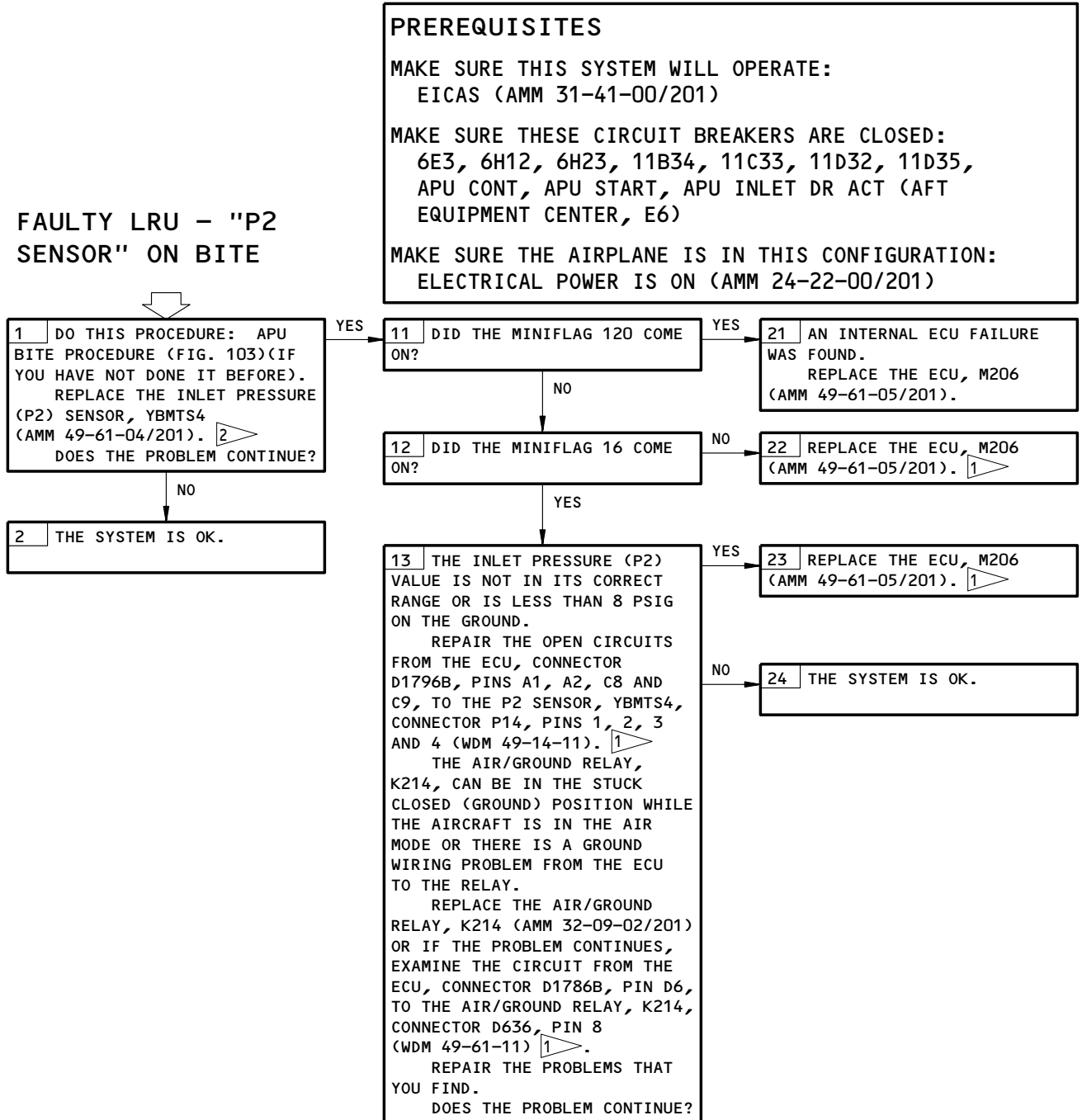
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

E66803

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**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.

Faulty LRU - P2 SENSOR on BITE  
Figure 130

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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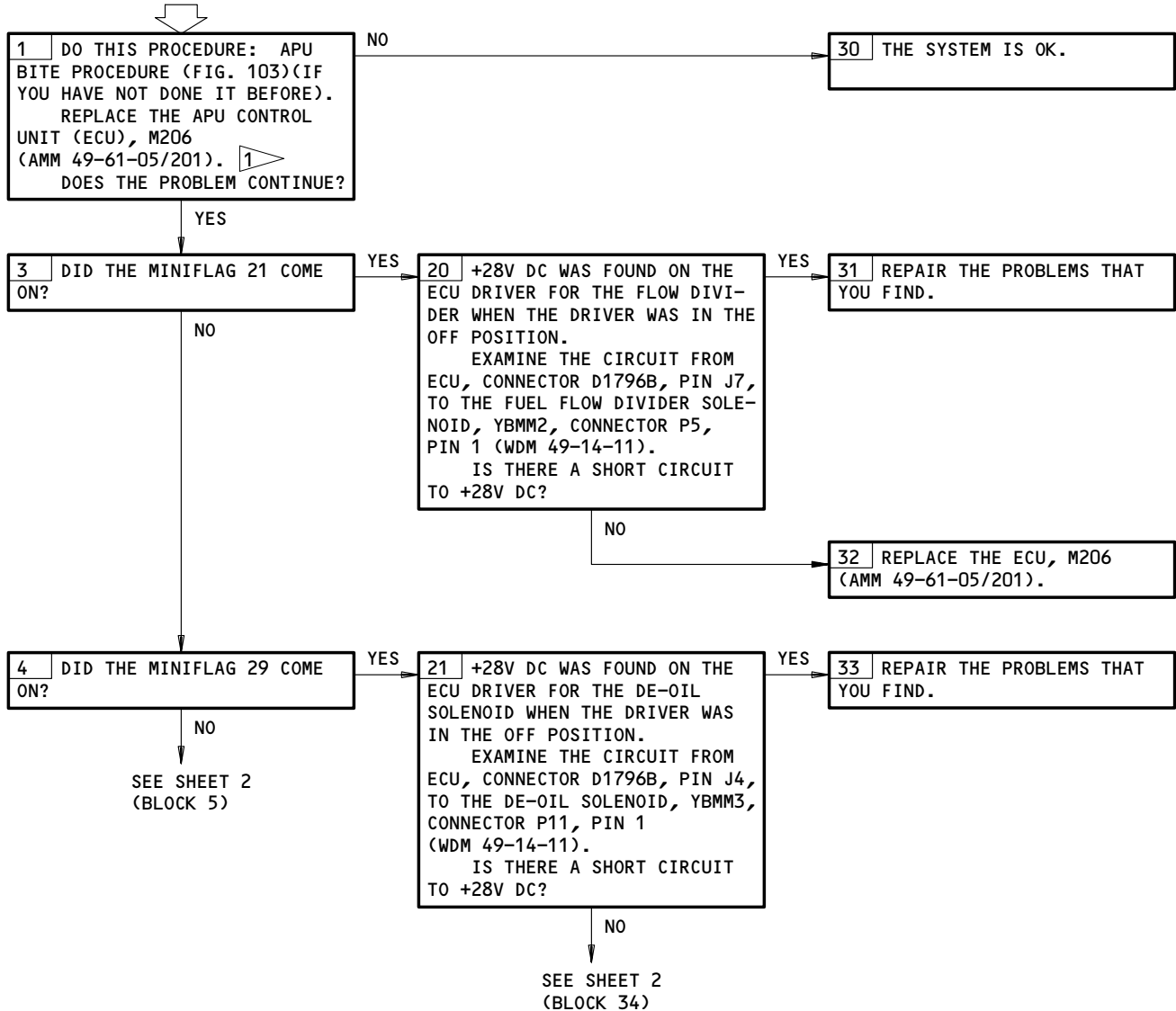
**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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

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



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

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

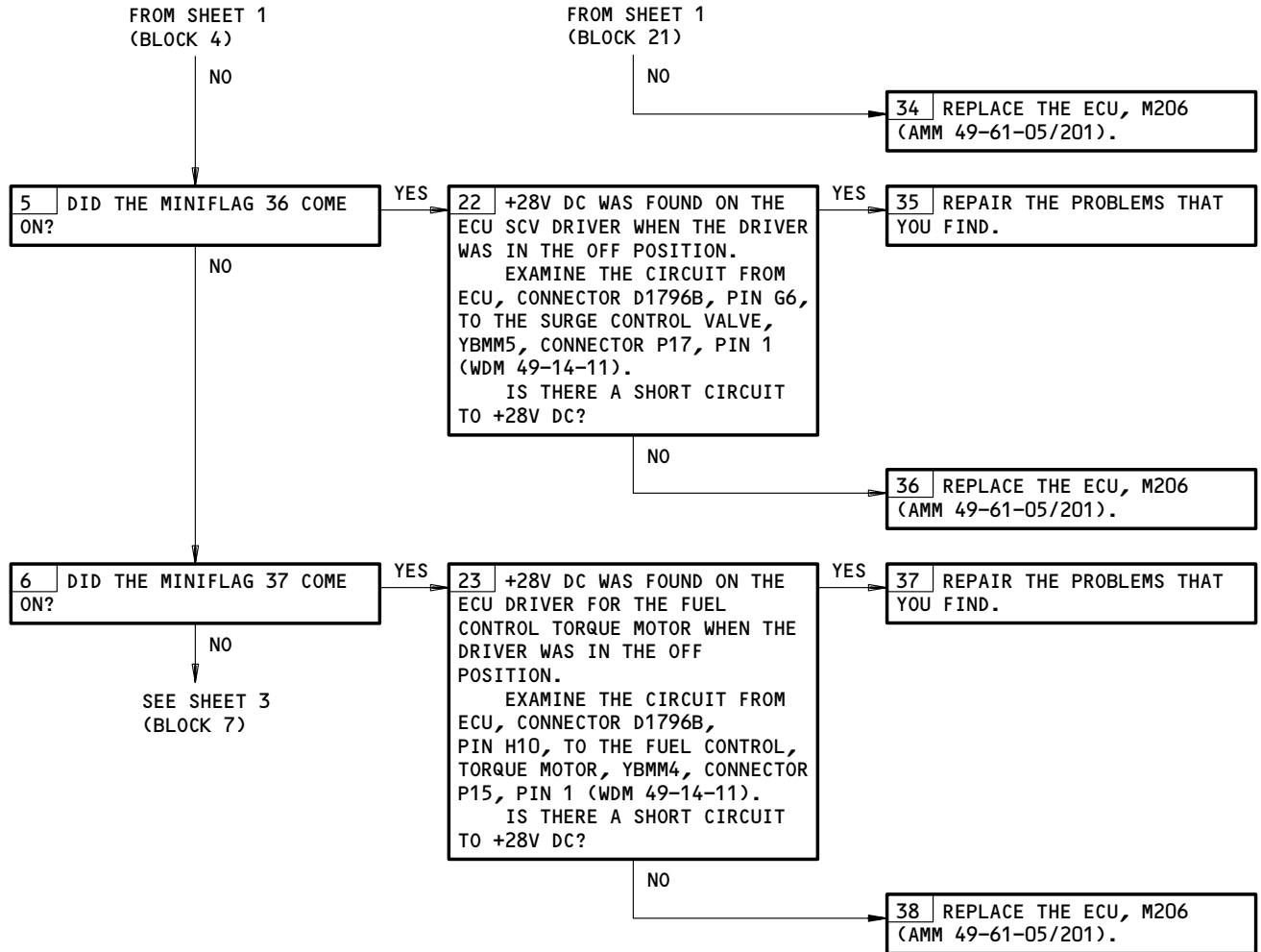
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

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E67019

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**BOEING**  
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FAULT ISOLATION/MAINT MANUAL



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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

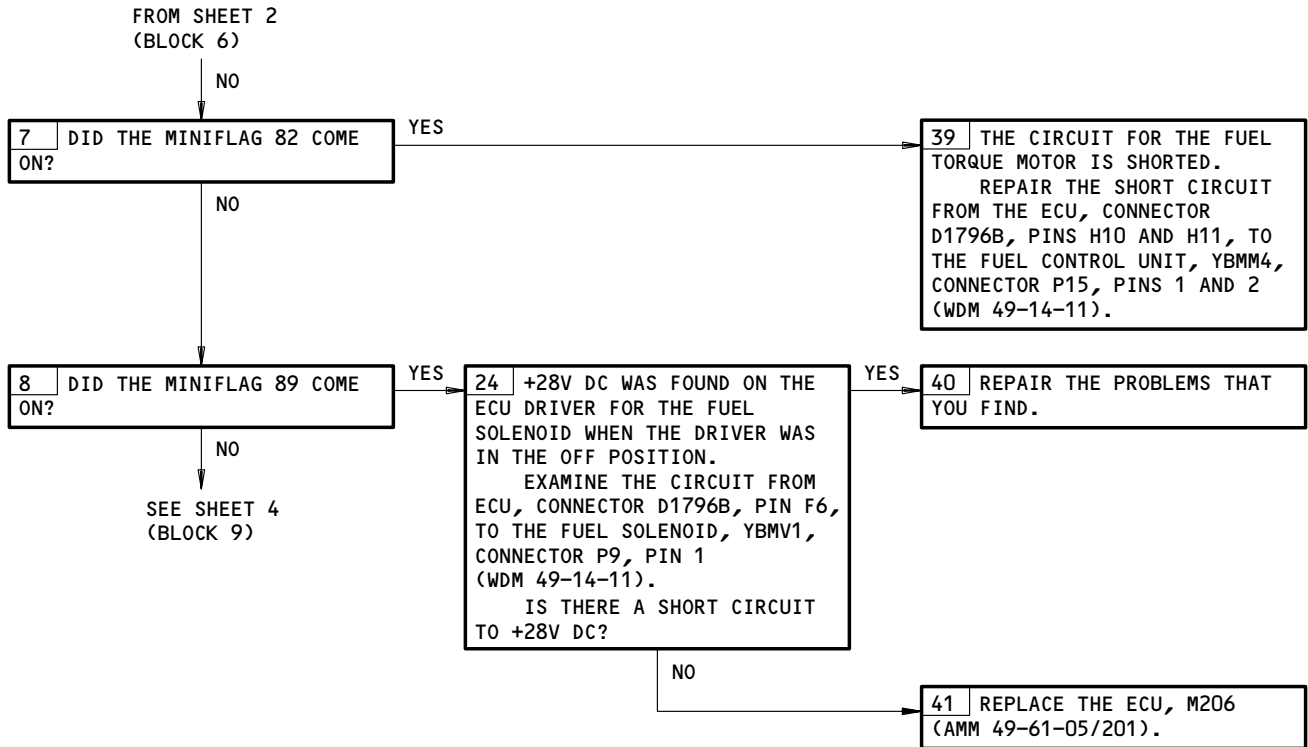
**49-11-00**

CONFIG 2  
Page 180G  
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08



**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



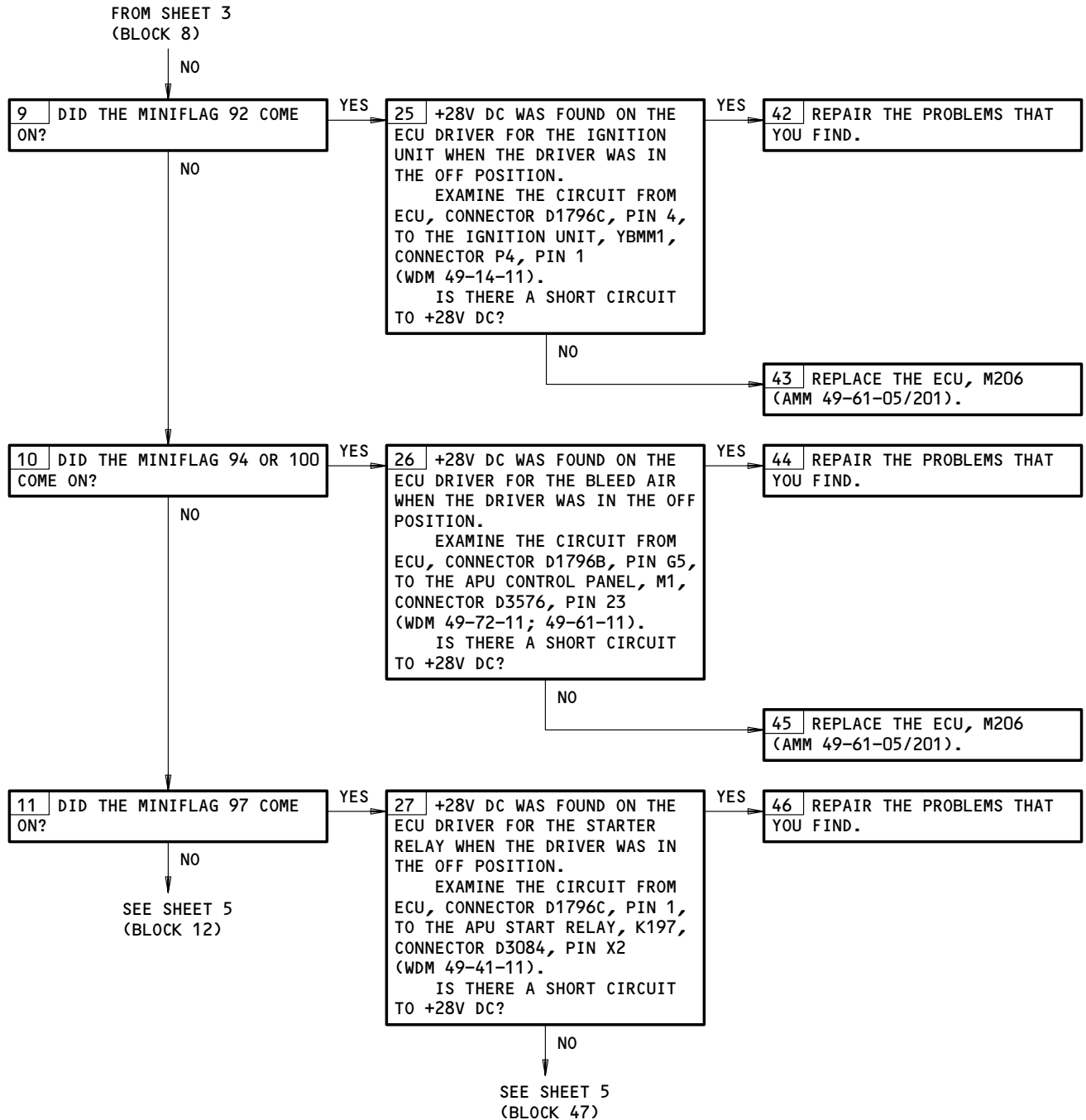
Faulty LRU - ECU on BITE  
Figure 131 (Sheet 3)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



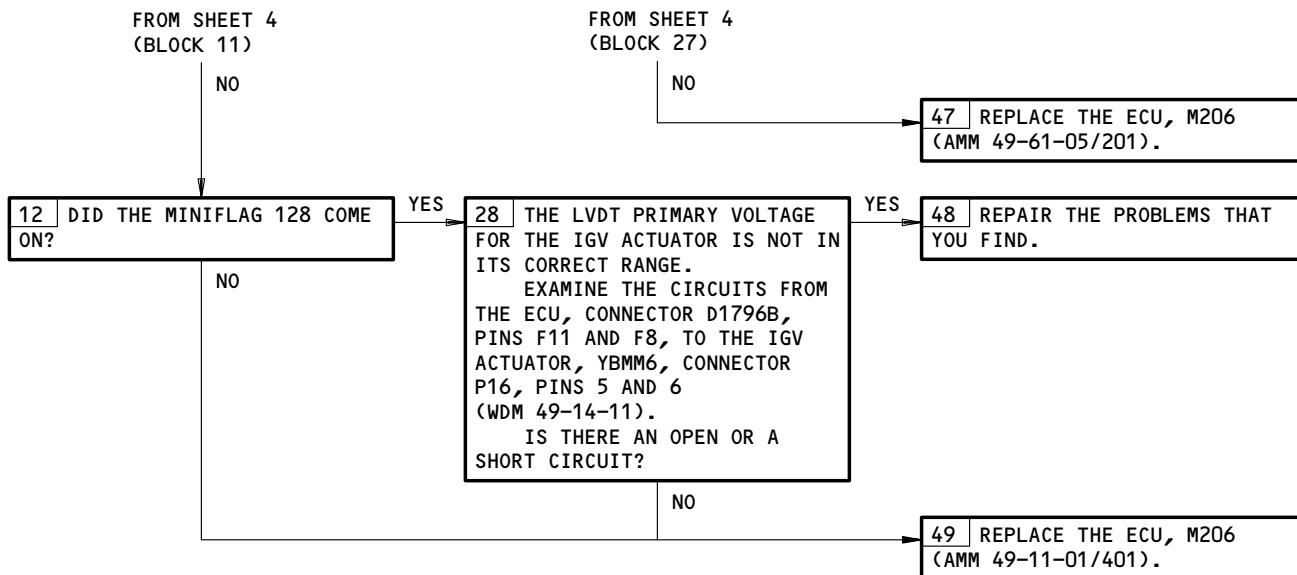
Faulty LRU - ECU on BITE  
Figure 131 (Sheet 4)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
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FAULT ISOLATION/MAINT MANUAL



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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

E67865

**49-11-00**

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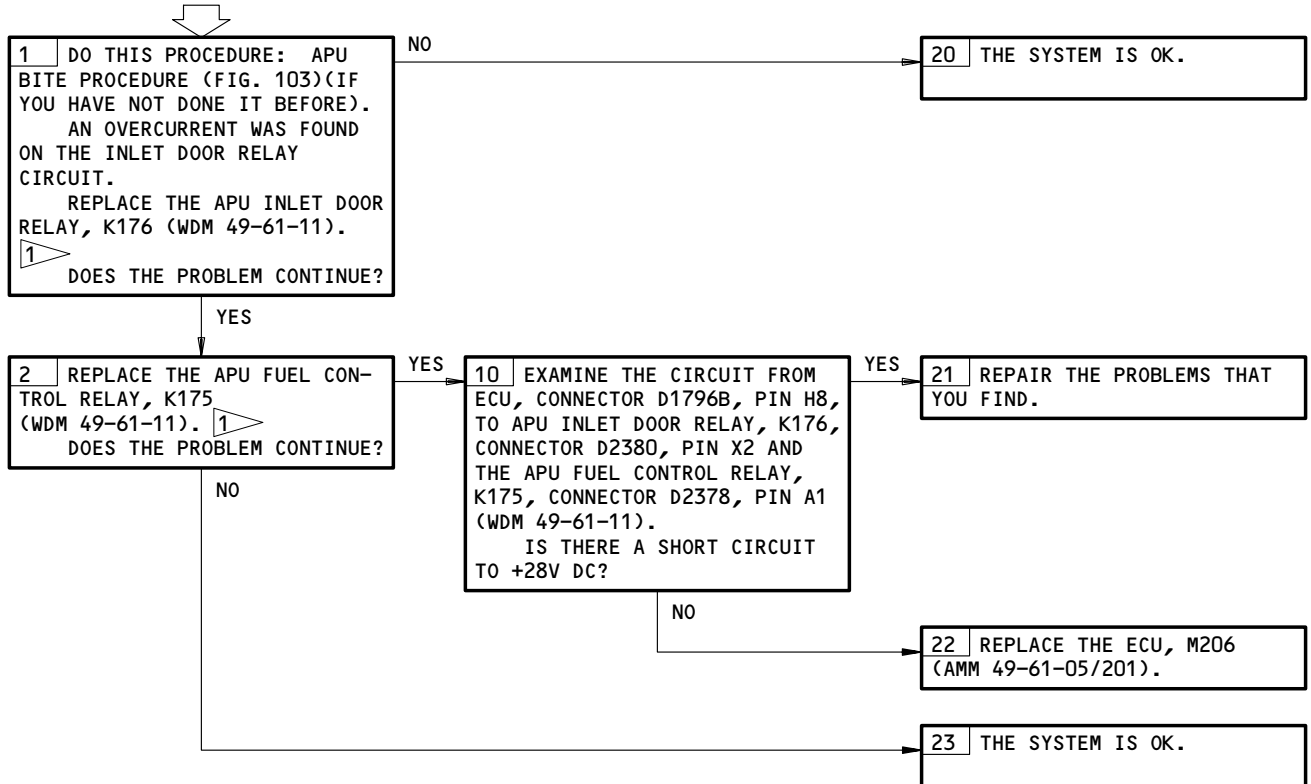
**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - INLET DOOR RLY on BITE  
Figure 132

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
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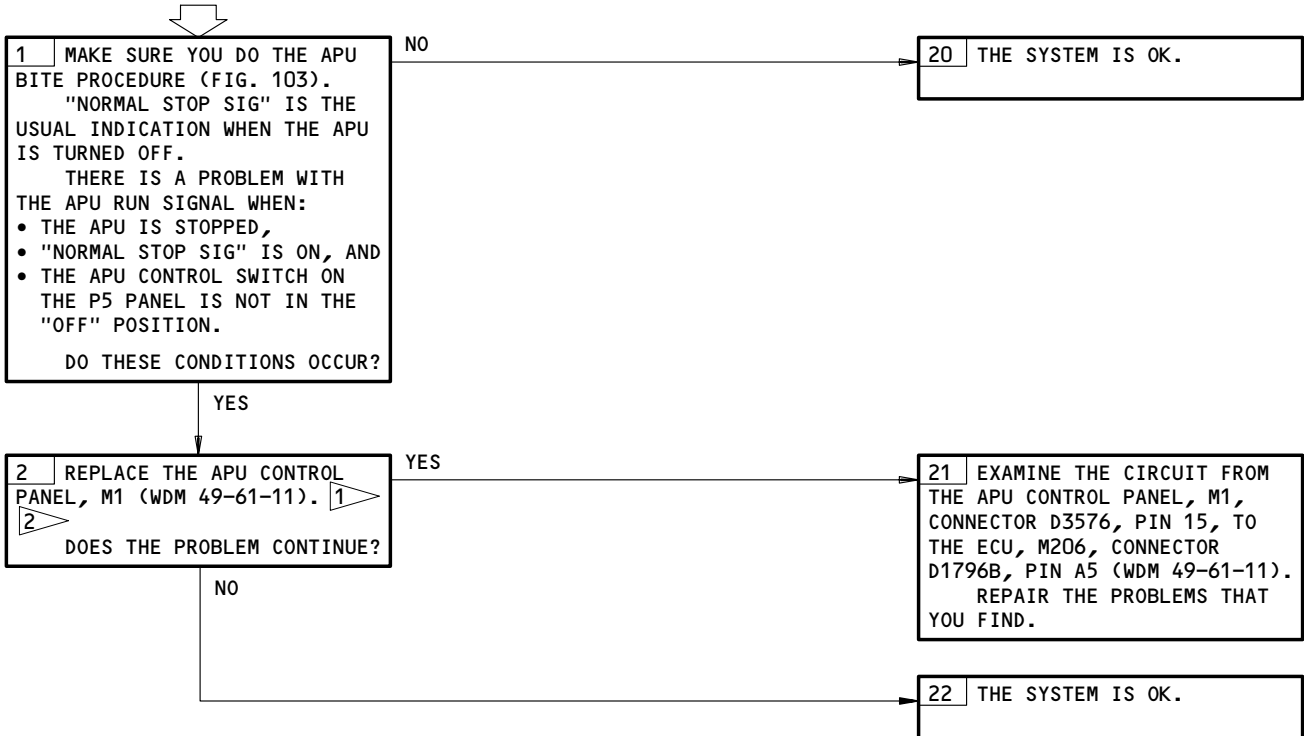
**AUTO SHUTDOWN -  
"NORMAL STOP SIG"  
ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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



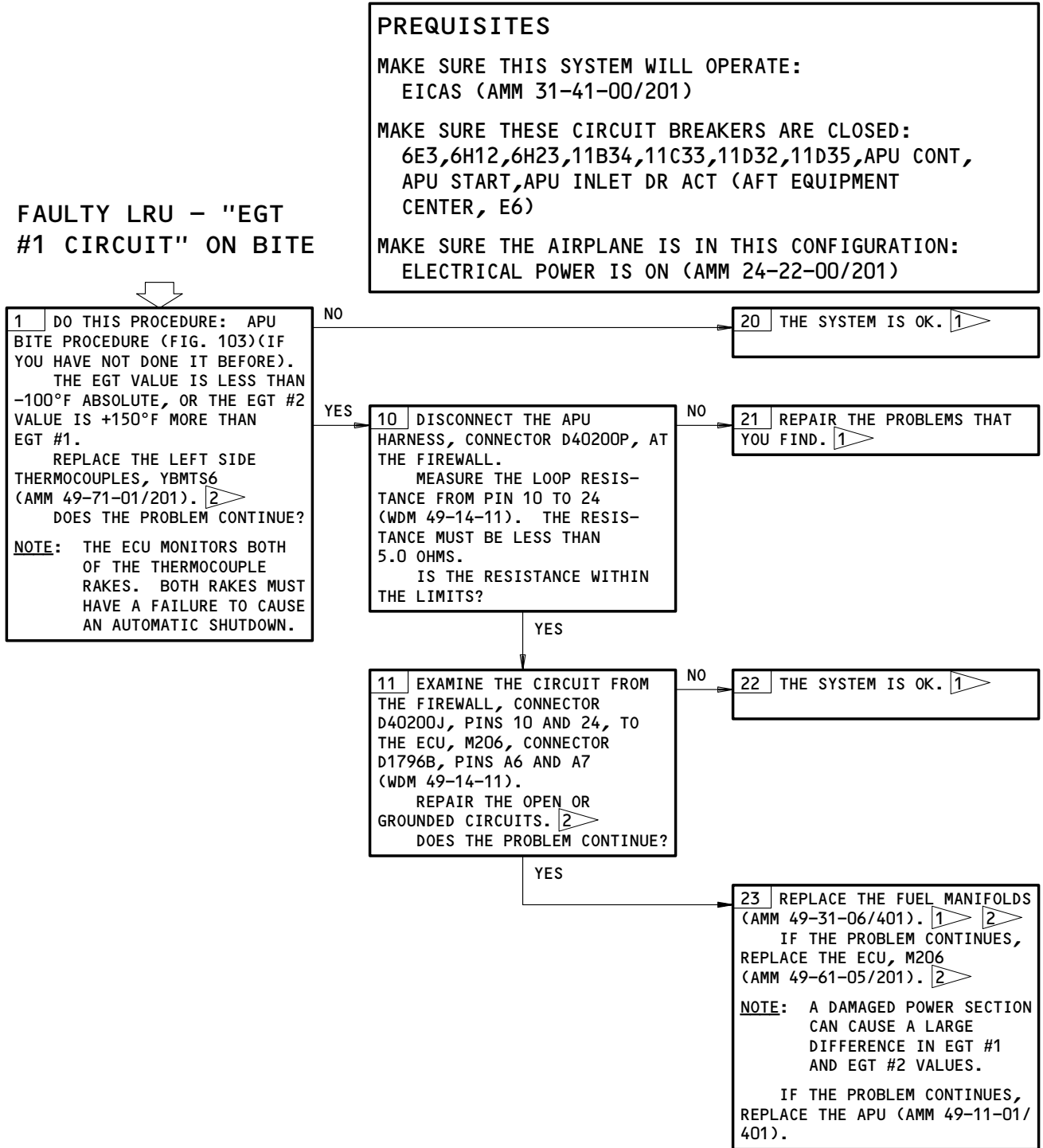
- 1 OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) TO MAKE SURE THE PROBLEM IS REPAIRED.
- 2 AN AUTOMATIC SHUTDOWN WILL CAUSE THE EICAS TO WRITE AN AUTO-EVENT FOR THE SHUTDOWN. AFTER THE PROBLEM IS CORRECTED, PUSH THE "PERF/APU" AND THE "AUTO-EVENT READ" SWITCHES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

Auto Shutdown - NORMAL STOP SIG on BITE  
Figure 133

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**FAULTY LRU - "EGT #1 CIRCUIT" ON BITE**



- 1 ▷ ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- 2 ▷ OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - EGT #1 CIRCUIT on BITE  
Figure 134

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
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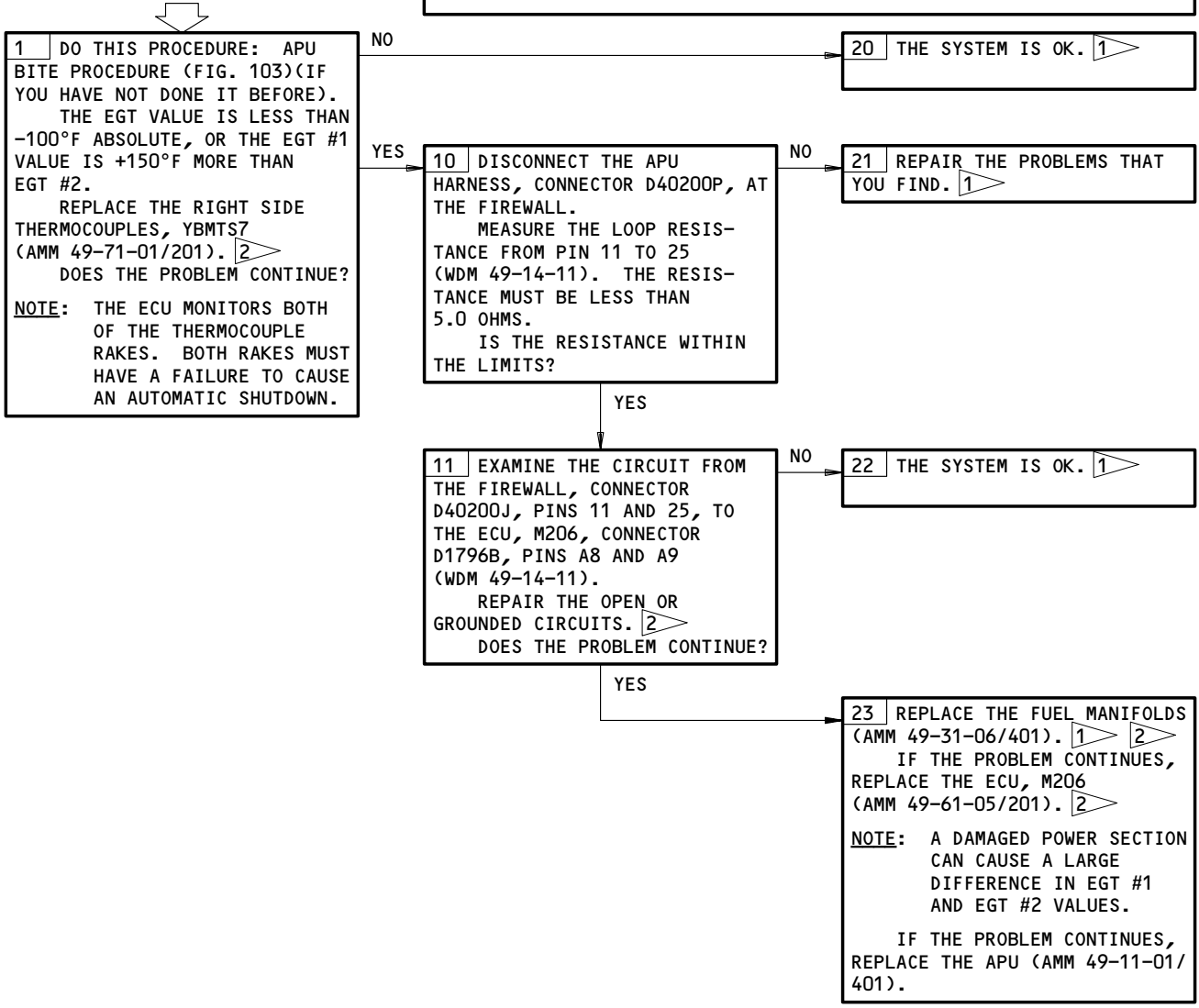
**FAULTY LRU - "EGT #2 CIRCUIT" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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



- 1 ▷ ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).
- 2 ▷ OPERATE THE APU (AMM 49-11-00/201) AND DO THIS PROCEDURE: APU BITE PROCEDURE (FIG. 103) TO MAKE SURE THE PROBLEM IS REPAIRED.

Faulty LRU - EGT #2 CIRCUIT on BITE  
Figure 135

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
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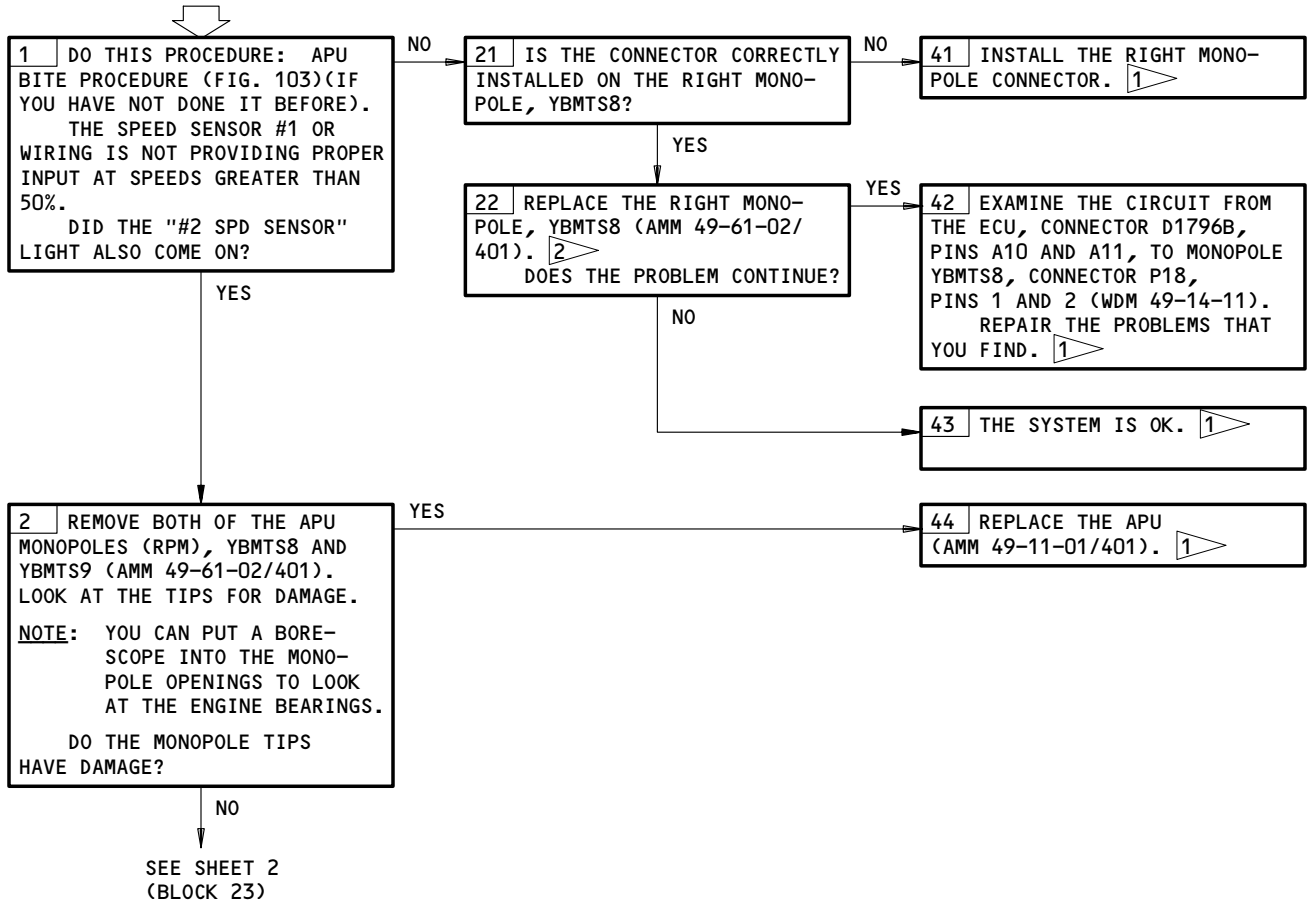
**FAULTY LRU - "#1 SPD SENSOR" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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



1 ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).

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

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

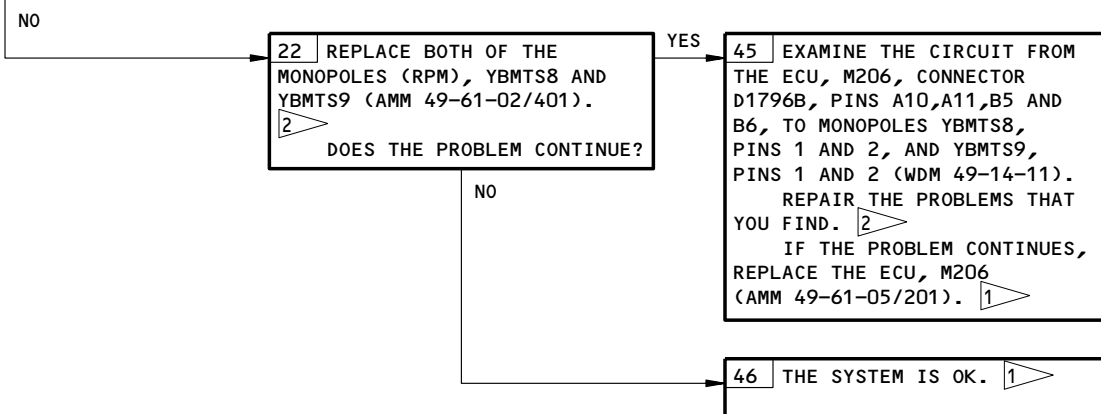
EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
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FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
Page 180P  
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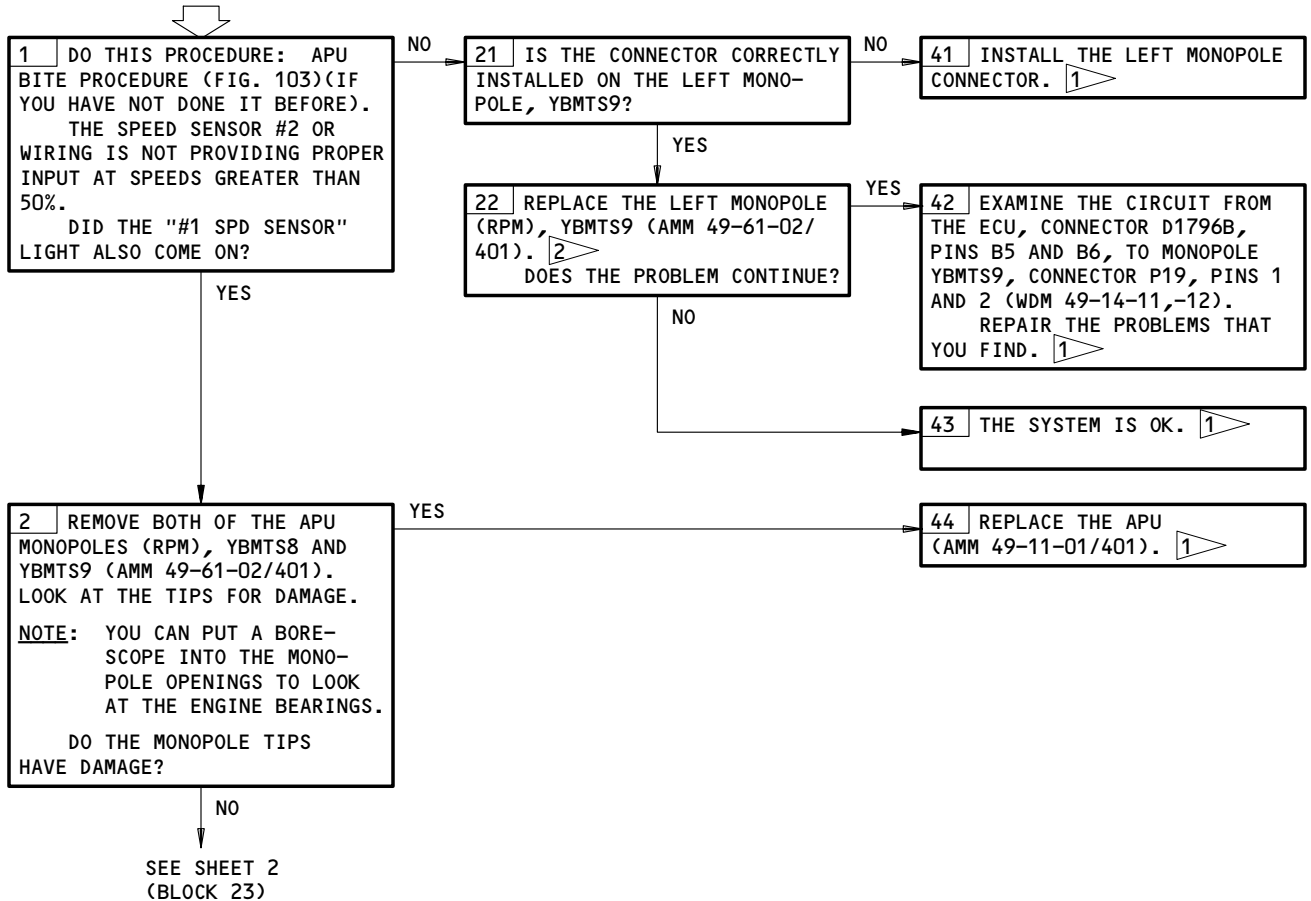
**FAULTY LRU - "#2 SPD SENSOR" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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



1 ERASE THE "APU BITE" MESSAGE ON EICAS IF IT SHOWS (FIM 31-41-00/101, FIG. 109).

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

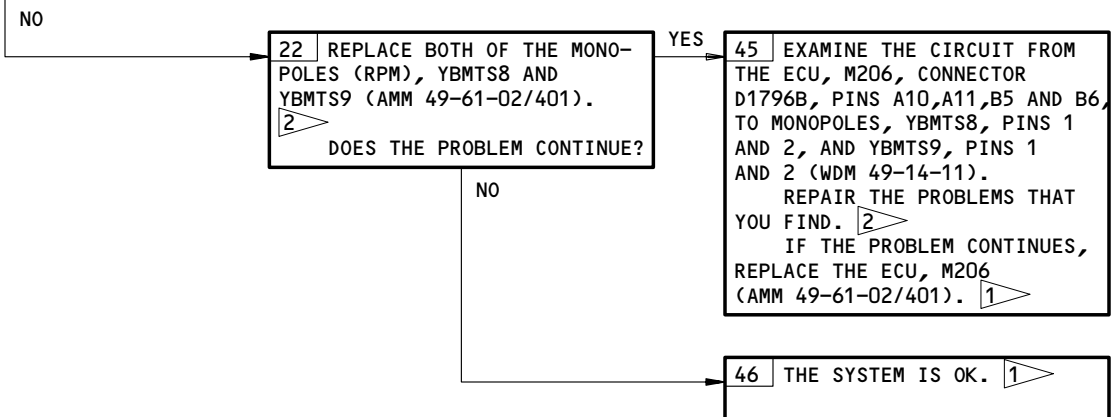
Faulty LRU - #2 SPD SENSOR on BITE  
Figure 137 (Sheet 1)

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL

FROM SHEET 1  
(BLOCK 2)



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

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

**49-11-00**  
CONFIG 2  
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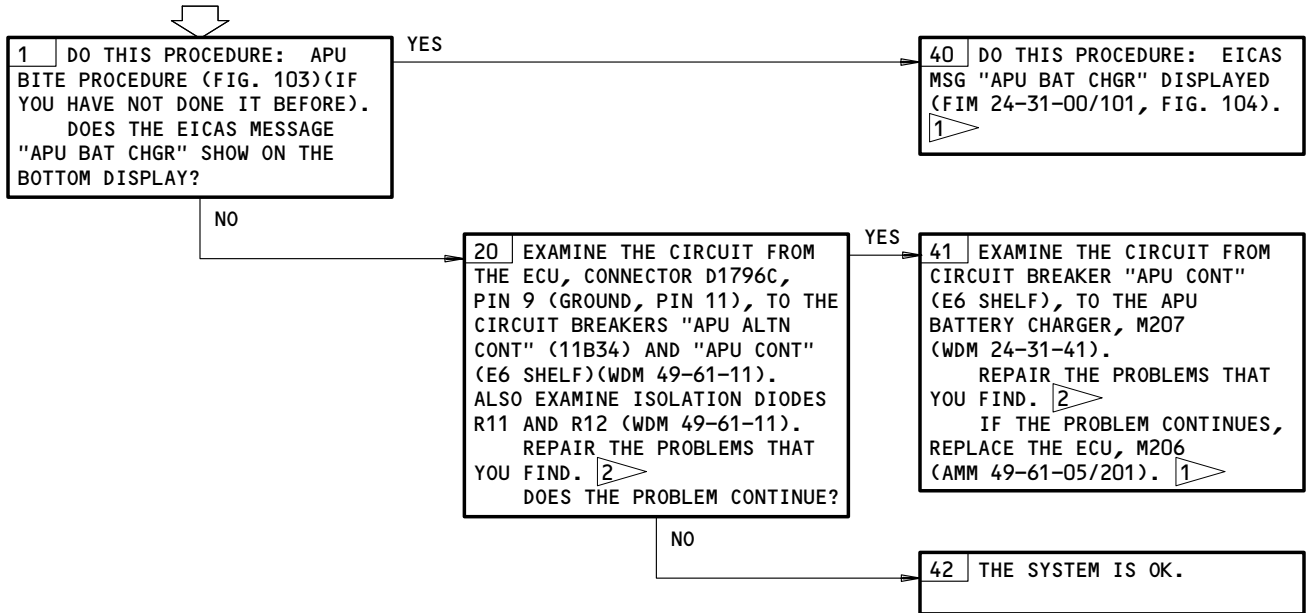
**AUTO SHUTDOWN - "DC PWR LOSS" ON BITE**

**PREQUISITES**

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
6E3,6H12,6H23,11B34,11C33,11D32,11D35,APU CONT,  
APU START,APU INLET DR ACT (AFT EQUIPMENT  
CENTER, E6)

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

Auto Shutdown - DC PWR LOSS on BITE  
Figure 138

EFFECTIVITY  
AIRPLANES WITH THE APU CONTROL  
UNIT -19 AND SUBSEQUENT

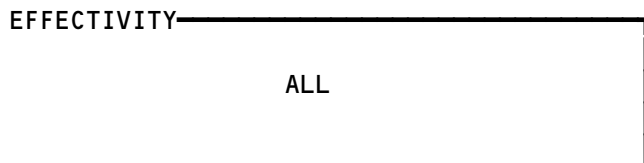
**49-11-00**  
CONFIG 2  
Page 180S  
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 FAULT ISOLATION/MAINT MANUAL

APU MOUNTS

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

APU Mounts - Component Index  
Figure 101

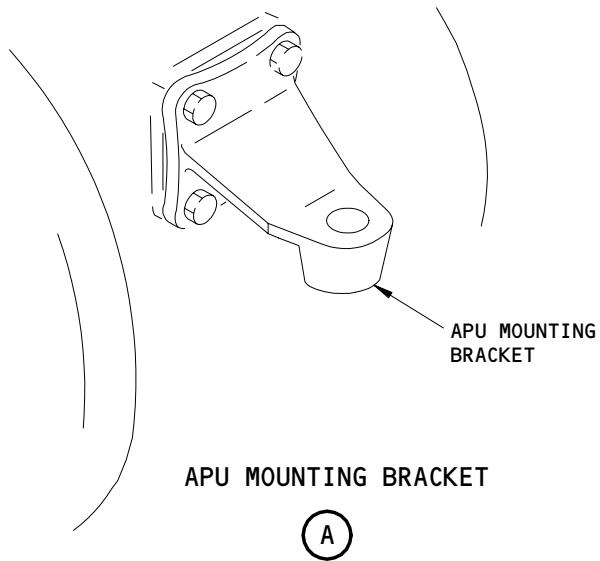
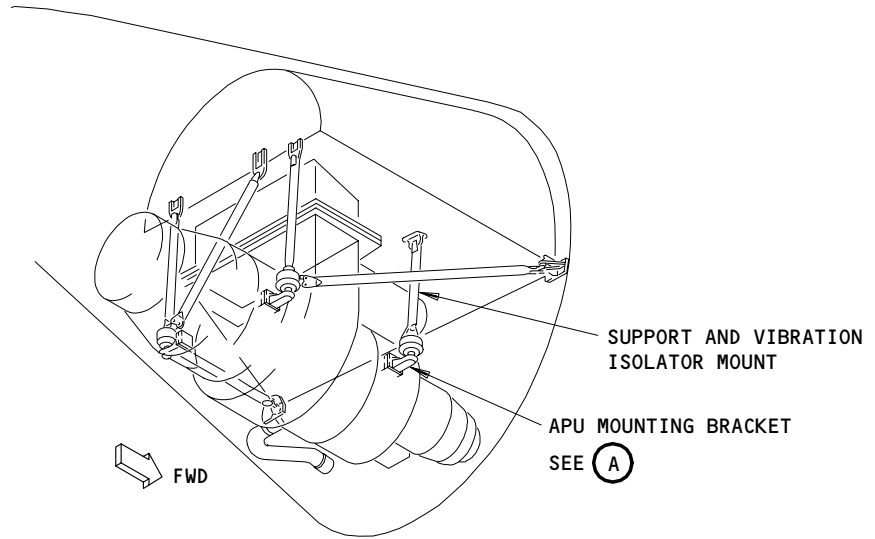
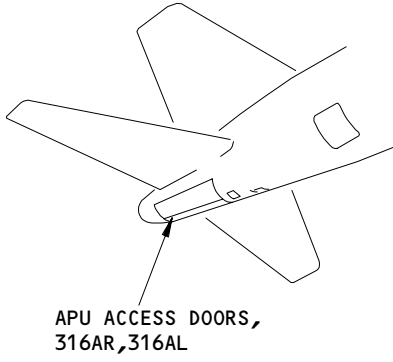


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APU Mounts - Component Location  
Figure 102

EFFECTIVITY	
	ALL

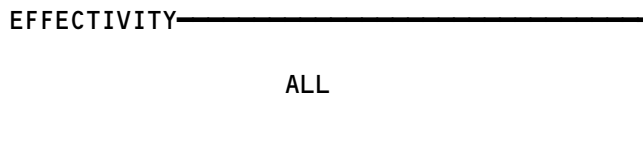
49-13-00


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 FAULT ISOLATION/MAINT MANUAL

APU AIR INTAKE

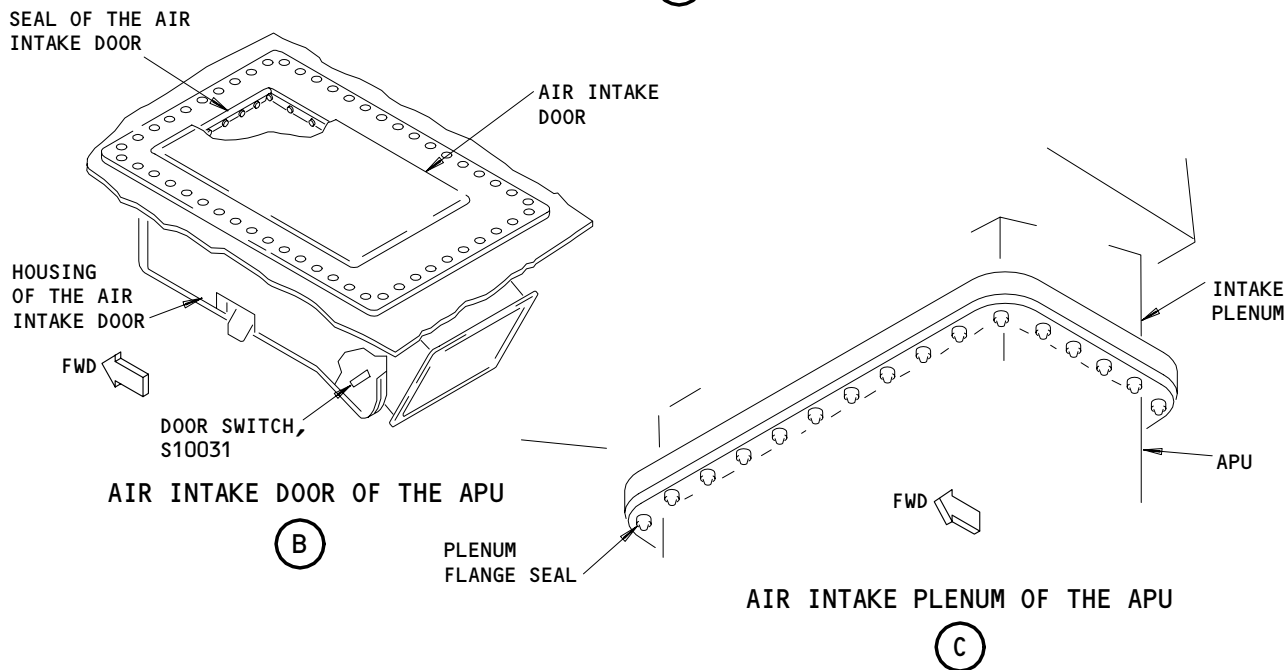
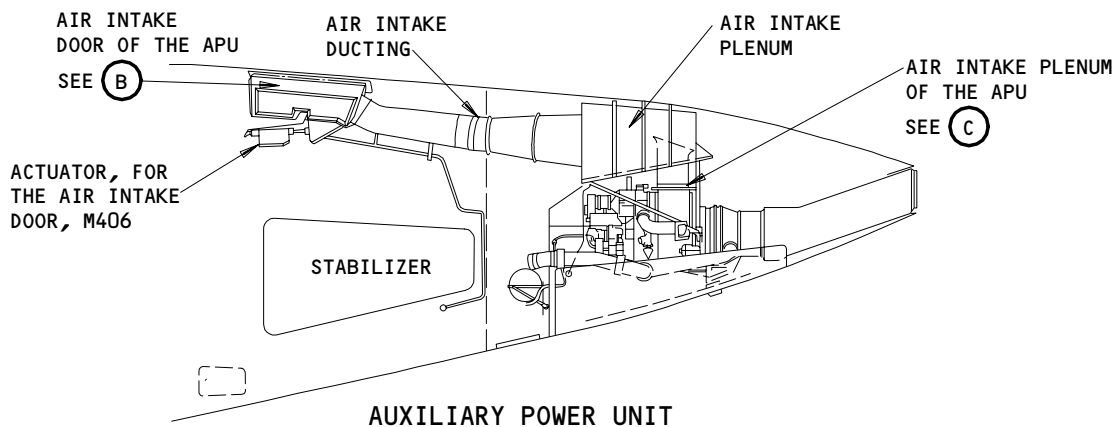
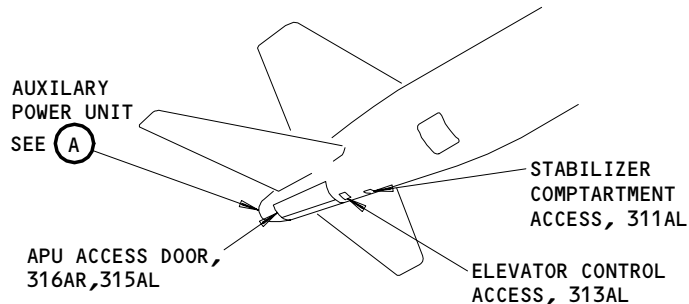
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - DOOR, M406		1	311AL, STABILIZER COMPT, AUXILIARY POWER UNIT	49-15-06
DOOR		1	311AL, STABILIZER COMPT, APU AIR INTAKE DOOR	49-15-05
DUCT		2	AUXILIARY POWER UNIT	49-15-01
HOUSING		1	311AL, STABILIZER COMPT, APU AIR INTAKE DOOR	49-15-08
PLENUM		1	313AL,315AL,316AR, APU COMPT, AUXILIARY POWER UNIT	49-15-03
RELAY - (31-01-06/101) APU INLET DOOR RELAY, K176		1	311AL, STABILIZER COMPT, APU AIR INTAKE DOOR	49-15-07
SEAL - DOOR		1	315AL,316AR, APU COMPT, APU AIR INTAKE PLENUM	49-15-04
SEAL - PLENUM FLANGE		1	311AL, STABILIZER COMPT, APU AIR INTAKE DOOR	49-15-02
SWITCH - DOOR, S10031		1		
UNIT - (49-61-00/101) APU CONTROL, M206				

APU Air Intake - Component Index  
Figure 101



**49-15-00**

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FAULT ISOLATION/MAINT MANUAL



APU Air Intake - Component Location  
Figure 102

EFFECTIVITY	
ALL	

49-15-00

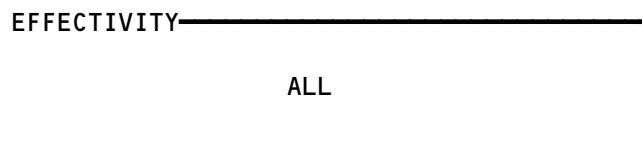



**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

APU DRAINS AND VENTS

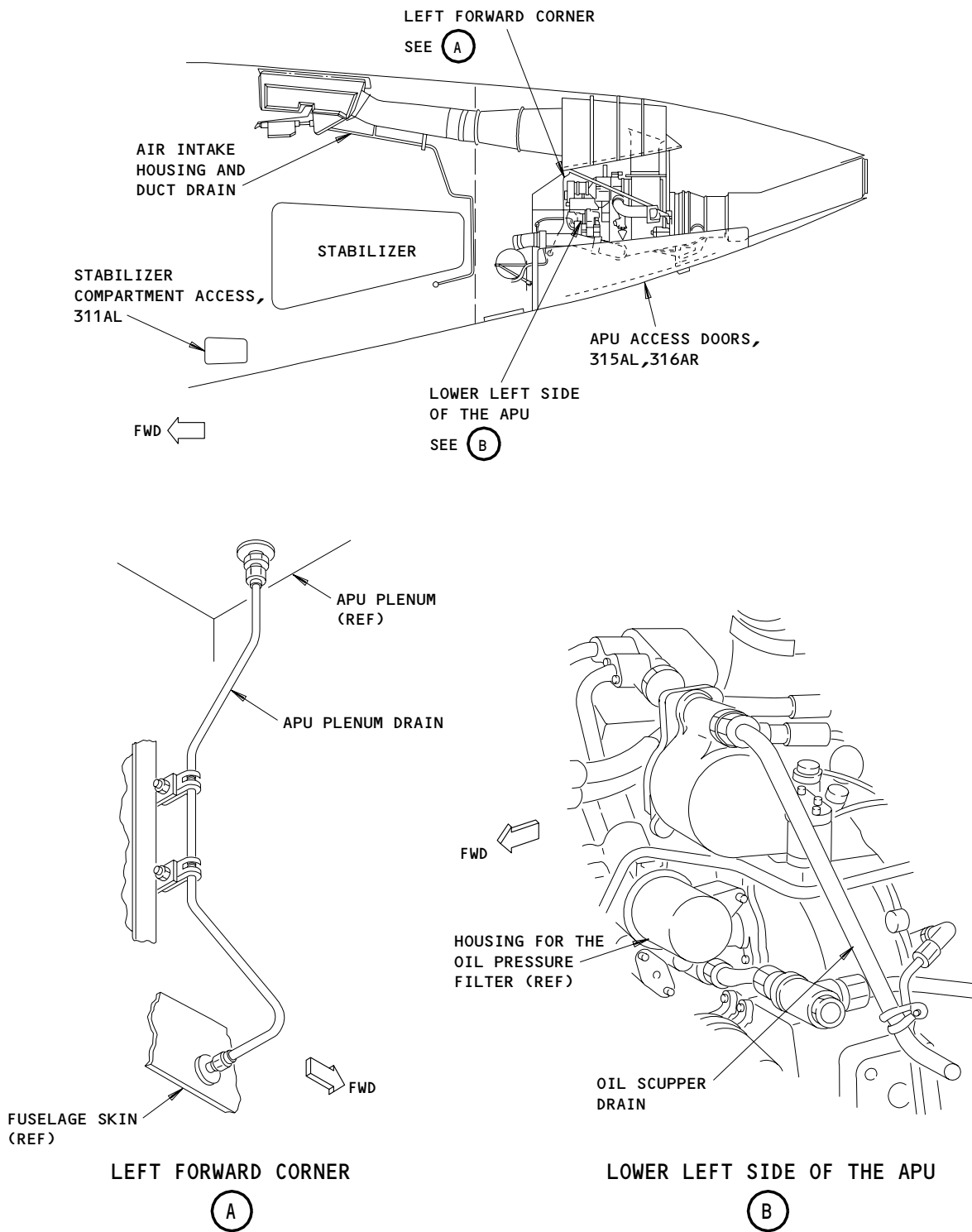
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
DRAIN - AIR INTAKE HOUSING AND DUCT	1	1	311AL, STABILIZER COMPT	49-15-00
DRAIN - APU INLET PLENUM	2	1	315AL,316AR, APU COMPT, BOTTOM OF INLET PLENUM	49-16-00
DRAIN - APU PLENUM	1	1	315AL,316AR, APU COMPT, LEFT FORWARD CORNER	49-16-03
DRAIN - BEARING SEAL 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/OIL PUMP/IGV ACTUATOR	2	1	315AL,316AR, APU COMPT, DRAIN MAST	49-16-00
DRAIN - FUEL CONTROL UNIT/OIL 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, BOTTOM OF COMBUSTOR	49-16-00
DRAIN - 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
LINE - INFLIGHT PRESSURE	2	1	315AL,316AR, APU COMPT, BOTTOM OF COMBUSTOR	49-16-00
MAST - APU DRAIN	2	1	315AL,316AR, APU COMPT, DRAIN MAST	49-16-00
TANK - APU DRAIN	2	1	315AL,316AR, APU COMPT, BOTTOM OF COMBUSTOR	49-16-00

APU Drains and Vents - Component Index  
Figure 101



**49-16-00**

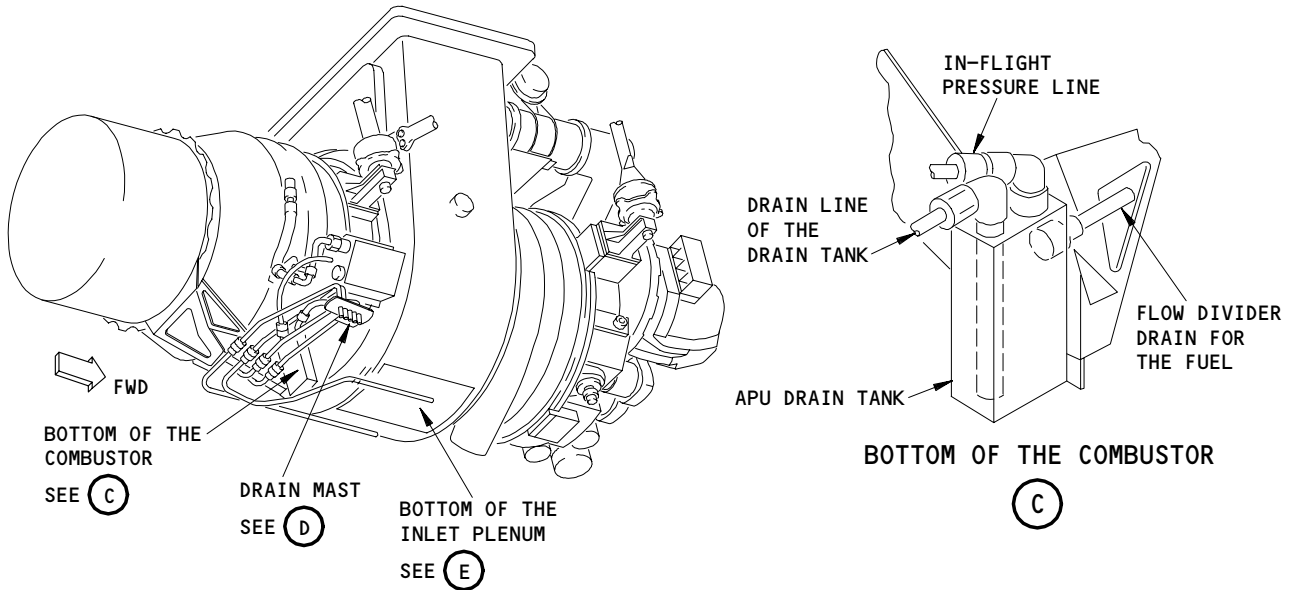
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757  
FAULT ISOLATION/MAINT MANUAL



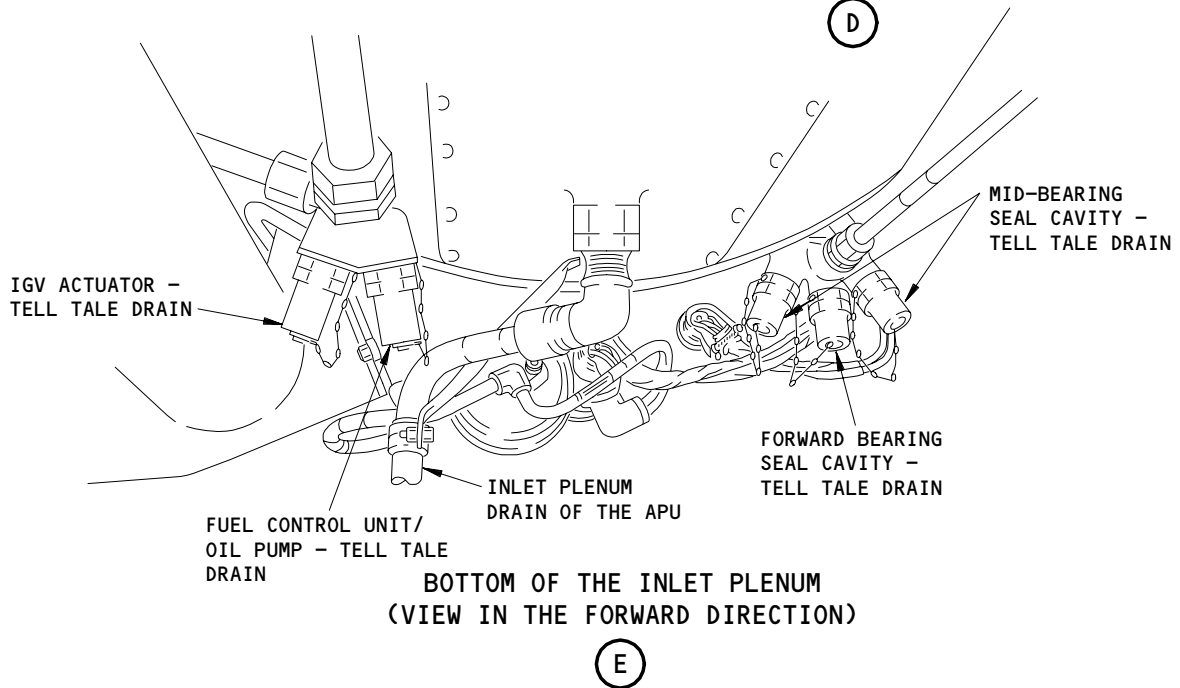
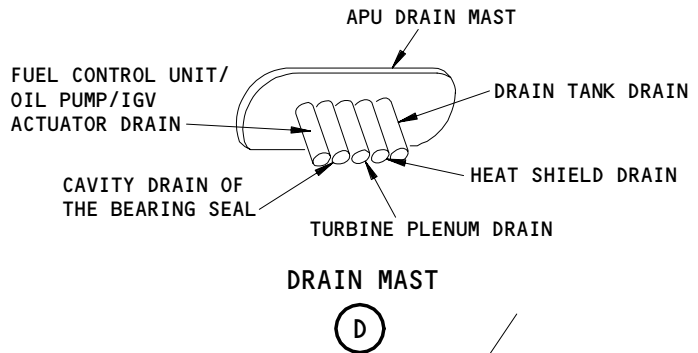
APU Drains and Vents - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	ALL
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**49-16-00**



APU - RIGHT SIDE





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

EFFECTIVITY	
ALL	



49-16-00

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757  
FAULT ISOLATION/MAINT MANUAL

APU AND GENERATOR LUBRICATION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	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 - OIL PRESSURE AND GENERATOR SCAVENGE FILTER	2	2	315AL,316AR, APU COMPT, GEARBOX ACCESSORIES	49-27-03
INDICATOR - GENERATOR OIL FILTER DIFFERENTIAL PRESSURE	2	1	315AL,316AR, APU COMPT, FRONT OF APU	49-27-16
INDICATOR - OIL 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 OIL	2	1	315AL,316AR, APU COMPT, FRONT OF APU	49-27-02
PUMP - OIL	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 - (49-94-00/101) OIL TEMPERATURE, YBMTS1				
SWITCHES - (49-94-00/101) LOW OIL LEVEL, YBMS3 				
LOW OIL PRESSURE, YBMS2				
SWITCH - GENERATOR OIL 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 - (49-94-00/101) OIL QUANTITY, YBMS3 				
VALVE - DE-OIL 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 - (49-61-00/101) APU CONTROL, M206				

\* SEE THE WDM EQUIPMENT LIST

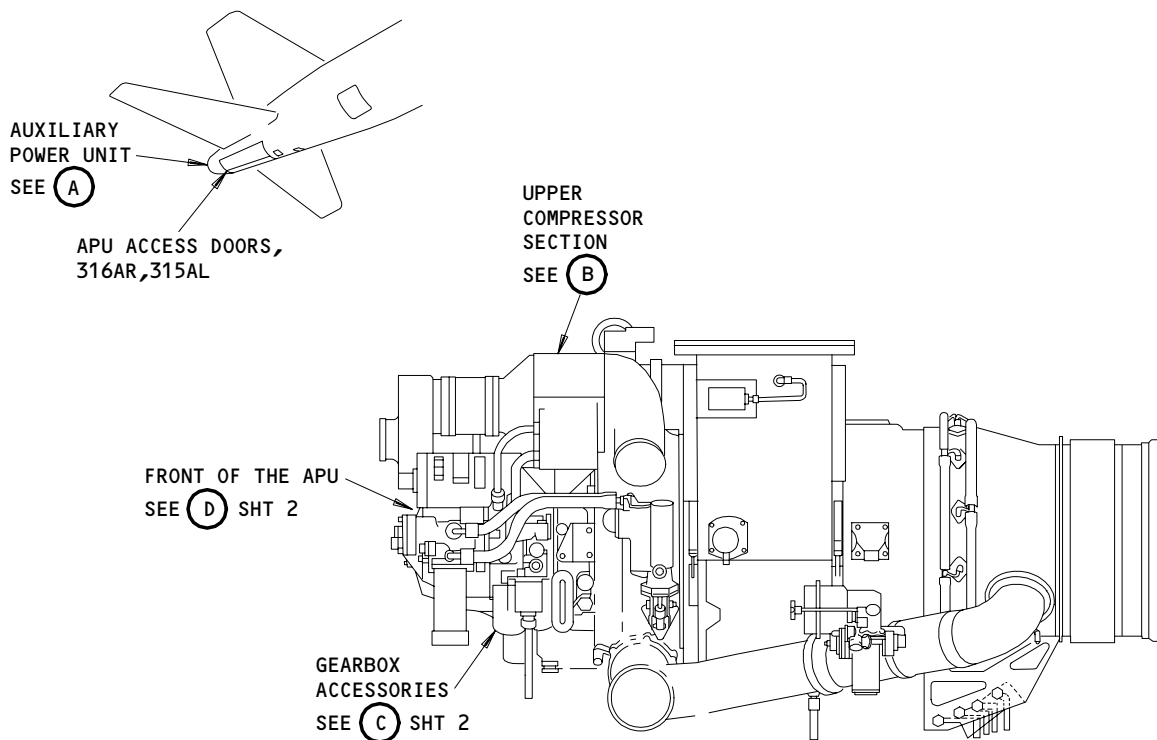
-  GUI 001-114,116-999  
 GUI 115

APU and Generator Lubrication System - Component Index  
Figure 101

EFFECTIVITY

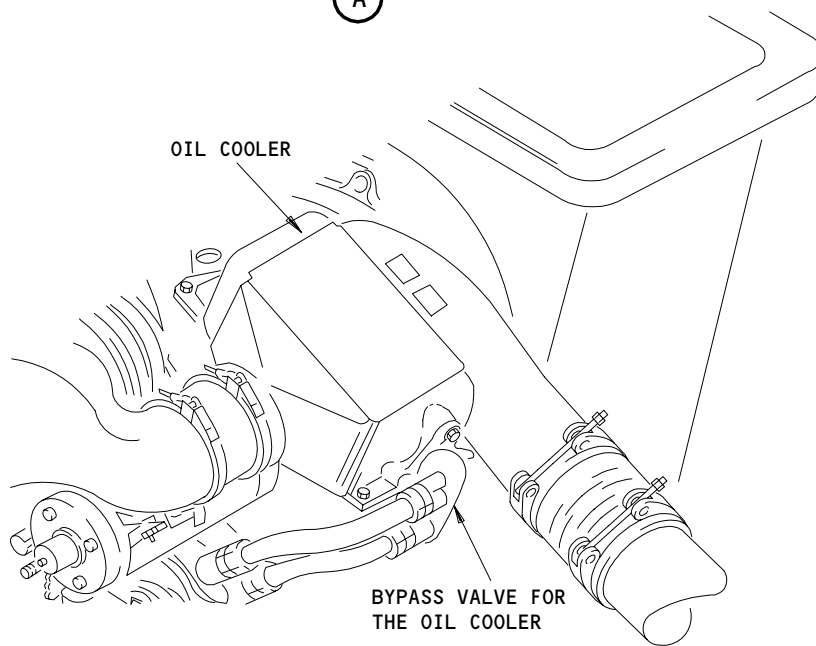
ALL

49-27-00



AUXILIARY POWER UNIT

(A)



UPPER COMPRESSOR SECTION

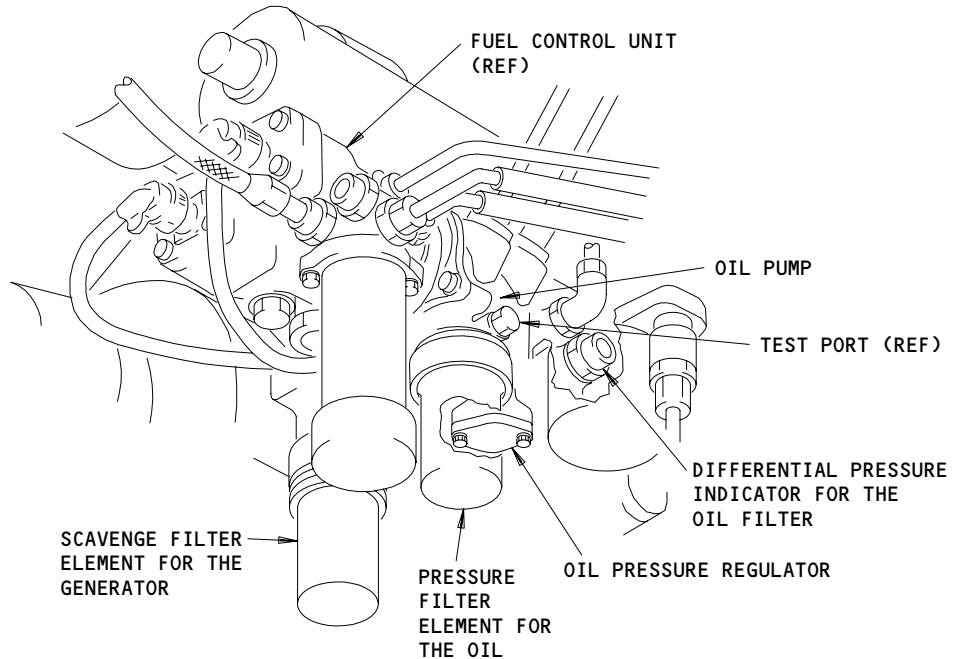
(B)

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

EFFECTIVITY	
	ALL

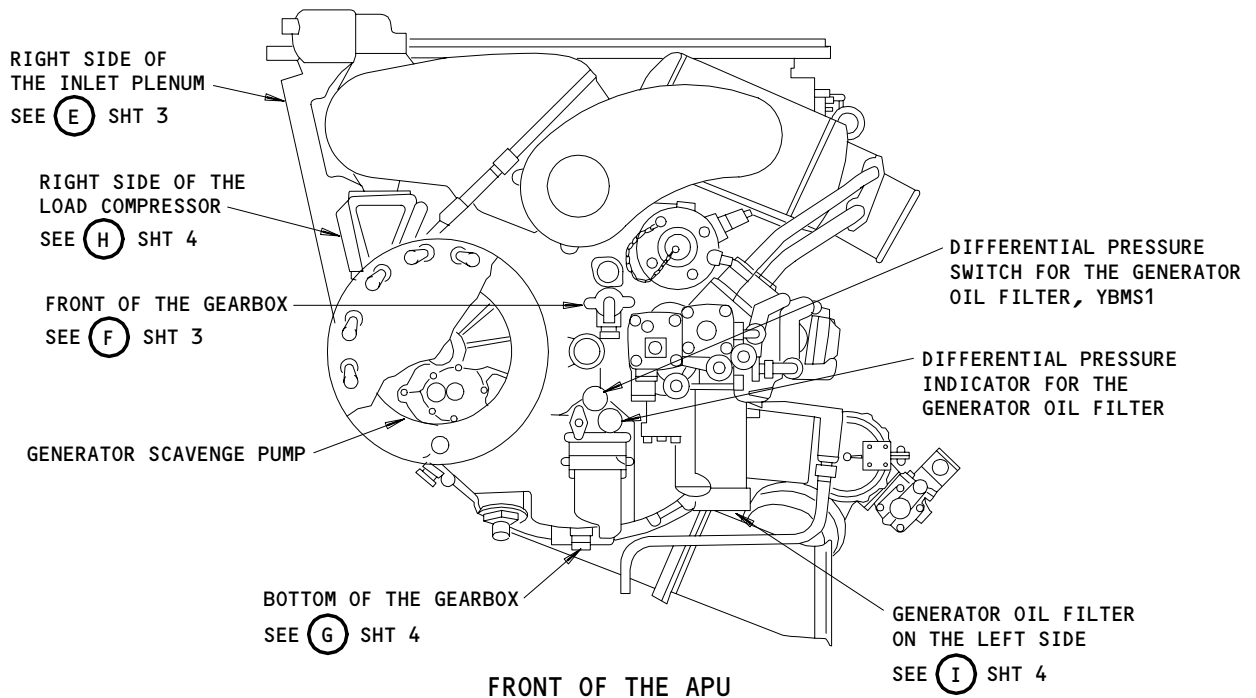
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**BOEING**  
757  
FAULT ISOLATION/MAINT MANUAL



**GEARBOX ACCESSORIES**

(C)



**FRONT OF THE APU**

(D)

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

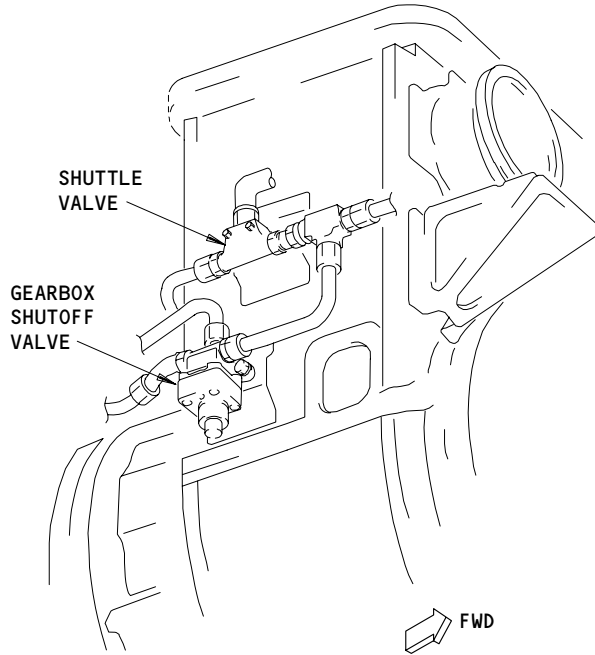
EFFECTIVITY

ALL

49-27-00

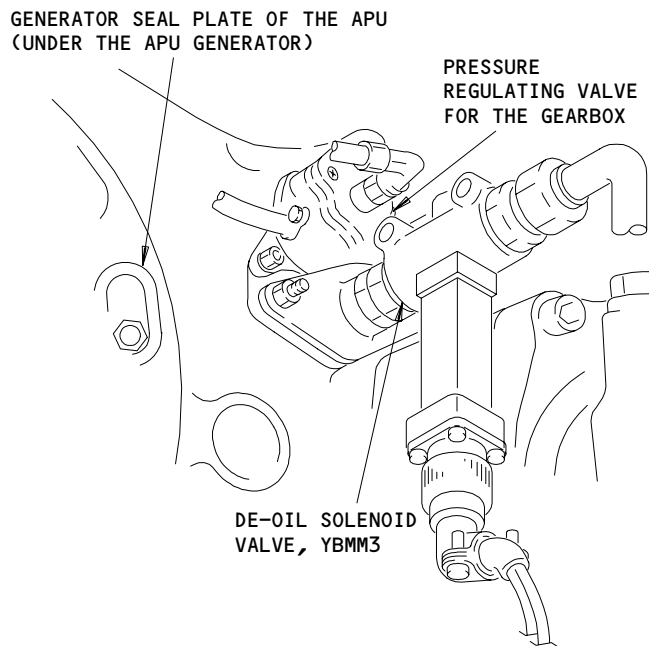
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RIGHT SIDE OF THE INLET PLENUM

(E)



FRONT OF THE GEARBOX

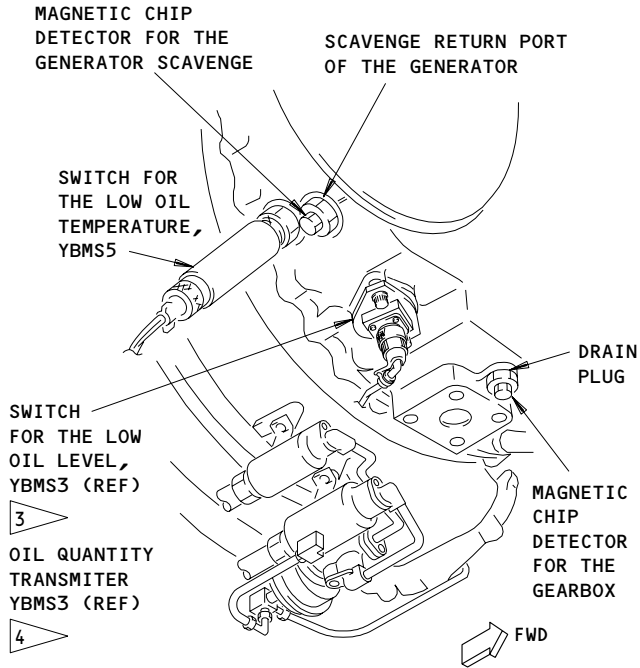
(F)

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

EFFECTIVITY	
	ALL

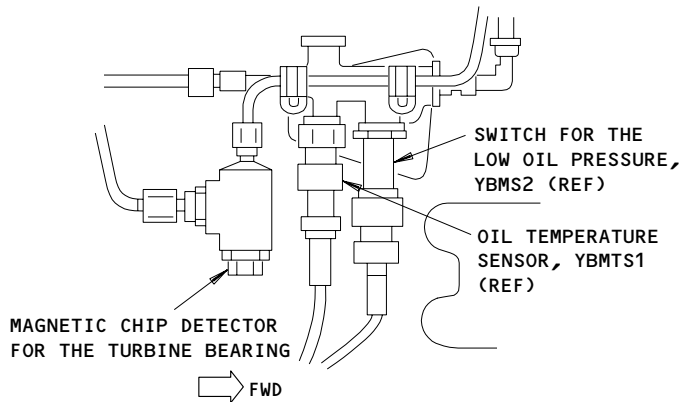
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FAULT ISOLATION/MAINT MANUAL



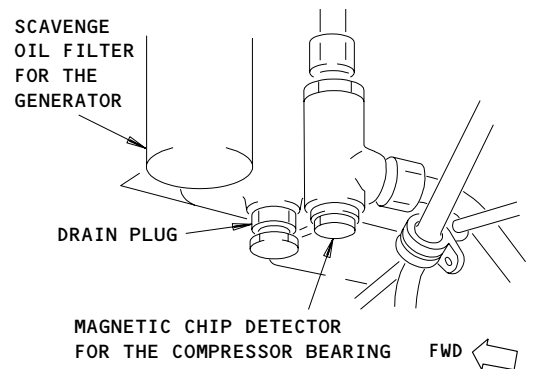
BOTTOM OF THE GEARBOX

G



RIGHT SIDE OF THE LOAD COMPRESSOR

H



LEFT SIDE OF THE LOAD COMPRESSOR

I

- 3 GUI 001-114,116-999
- 4 GUI 115

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

EFFECTIVITY	ALL
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49-27-00

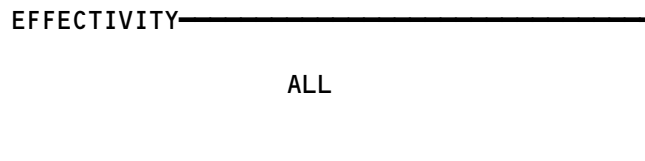


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FAULT ISOLATION/MAINT MANUAL

APU ENGINE FUEL SYSTEM

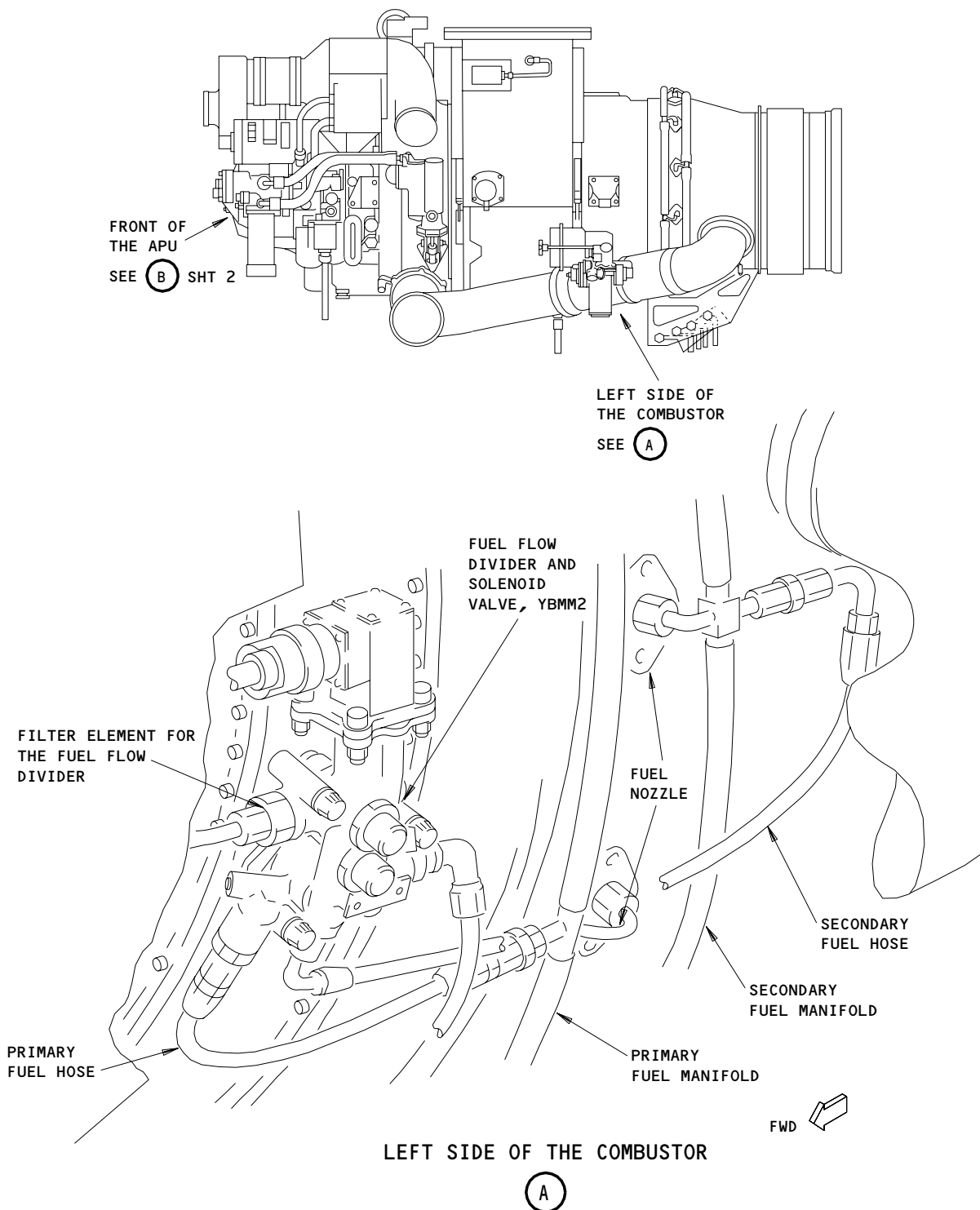
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ELEMENT - FUEL FILTER	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-04
ELEMENT - FUEL FLOW DIVIDER FILTER	1	1	316AR,315AL, APU COMP, LEFT SIDE OF COMBUSTOR	49-31-08
FILTER - FUEL HIGH PRESSURE	2	1	316AR,315AL, APU COMP, FRONT OF APU	49-31-07
HOSES - FUEL 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				
SENSORS - (49-61-00/101) APU INLET PRESSURE, YBMTS4 APU INLET TEMPERATURE, YBMTS5				
THERMOCOUPLE ASSEMBLY - (49-71-00/101) YBMTS6,YBMTS7				
UNIT - (49-61-00/101) APU CONTROL, M206				
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

APU Engine Fuel System - Component Index  
Figure 101



**49-31-00**

**BOEING**  
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FAULT ISOLATION/MAINT MANUAL



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

EFFECTIVITY

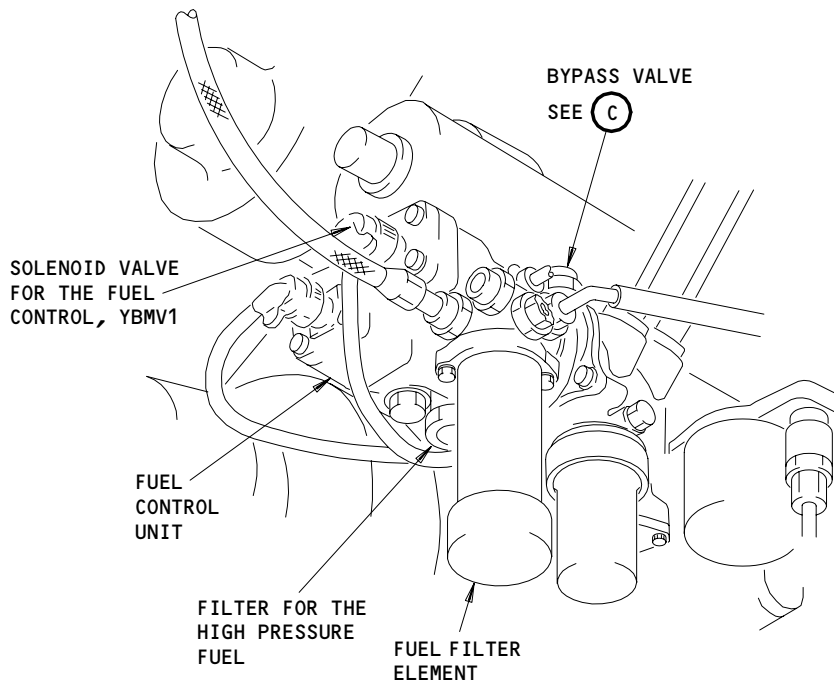
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49-31-00

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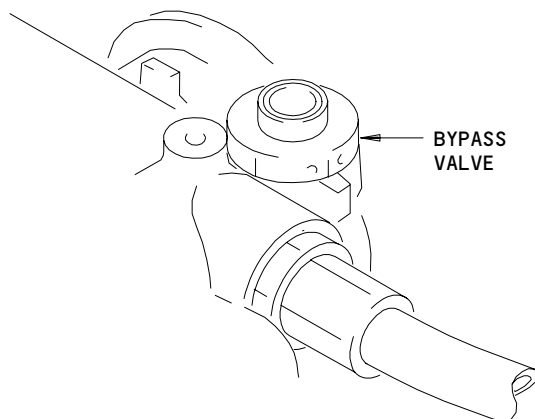
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FRONT OF THE APU

(B) FROM SHT 1



BYPASS VALVE

(C)

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

EFFECTIVITY

ALL

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01

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**BOEING**  
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FAULT ISOLATION/MAINT MANUAL

APU IGNITION/STARTING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
BATTERY - (24-31-00/101) APU, M208				
CIRCUIT BREAKER - APU START TRU CONT, C865		1	FLT COMPT, P6 6H12	*
CIRCUIT BREAKERS - APU CONT, C1382		1	822, AFT EQUIP CTR, E6 RACK	*
APU START, C20		1		*
APU START TRU FAN, C89		1		*
CIRCUIT BREAKER - APU ALTN CONT, C1390		1	FLT COMPT, P11 11B34	*
CIRCUIT BREAKER - APU START TRU POWER, C3000		1	119BL, MAIN EQUIP CTR, P32 32A6	*
CLUTCH - STARTER	--	1	316AR,315AL, APU COMP, FRONT OF APU	49-41-06
CONTACTOR - APU CRANK, K117	--	1	822, AFT EQUIP CTR, E6 RACK	*
LEAD - IGNITION	--	1	316AR,315AL, APU COMP, RIGHT SIDE OF COMBUSTOR	49-41-04
MOTOR - STARTER, M893	--	1	316AR,315AL, APU COMP, FRONT OF APU	49-41-01
PANEL - (49-61-00/101) APU START, M10324				
PLUG - IGNITER, YBMM7	--	1	316AR,315AL, APU COMP, RIGHT SIDE OF COMBUSTOR	49-41-02
RELAYS - (31-01-86/101) APU FAULT, K10033 APU START, K197 APU START CONTROL, K10030 APU START ENABLE, K10163 APU START TRU FAN CONT, K619 APU START TRU OVERHEAT, K616 APU TRU START, K10010				
SWITCH - (24-33-00/101) BATTERY (S2)				
SWITCH - (26-22-00/101) APU FIRE, S39				
SWITCH - (49-15-00/101) APU INLET DOOR, S10031				
UNIT - (24-32-00/101) APU START TRANSFORMER RECTIFIER, T189				
UNIT - (49-61-00/101) APU CONTROL, M206				
UNIT - IGNITION, M1	--	1	316AR,315AL, APU COMP, RIGHT SIDE OF COMBUSTOR	49-41-03

\* SEE THE WDM EQUIPMENT LIST

APU Ignition/Starting System - Component Index  
Figure 101

EFFECTIVITY

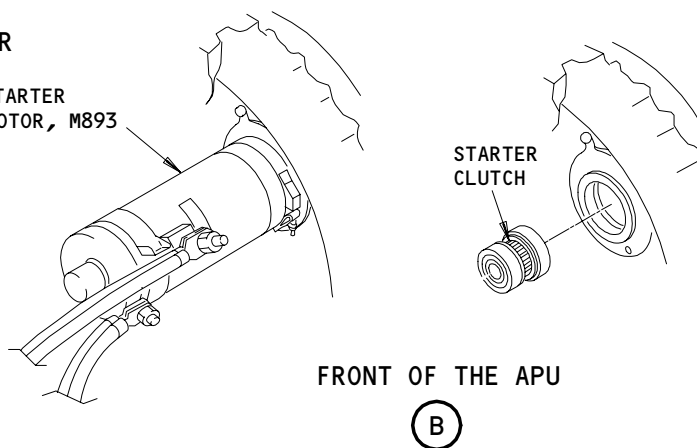
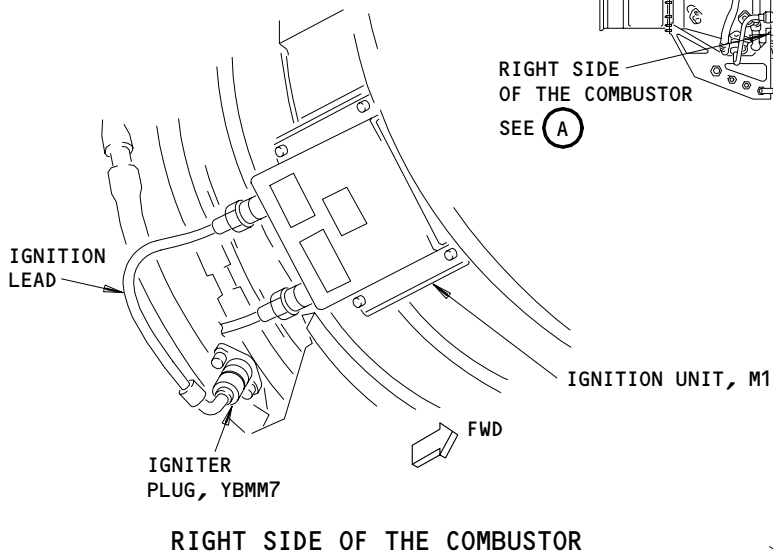
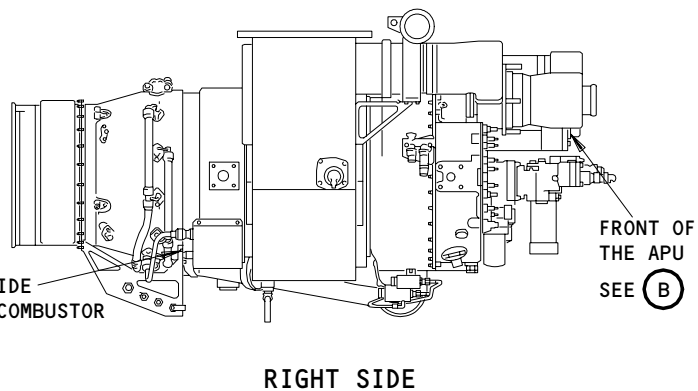
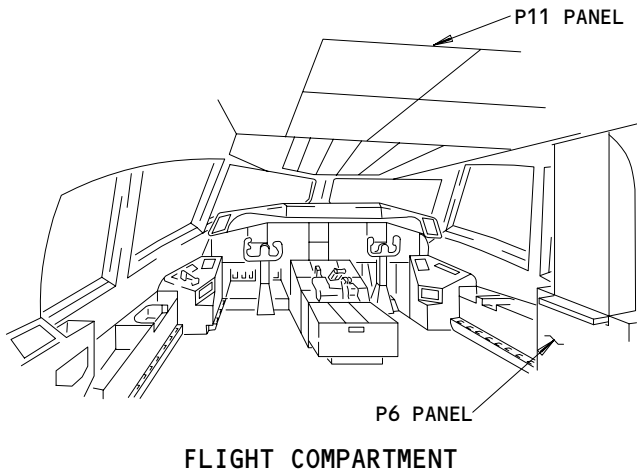
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
APU Ignition/Starting System - Component Location  
Figure 102

EFFECTIVITY	
ALL	

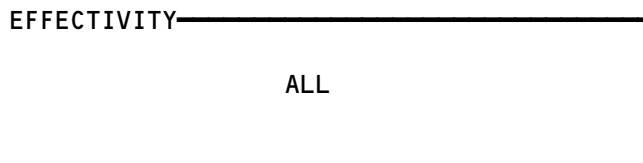
49-41-00

  
**757**  
**FAULT ISOLATION/MAINT MANUAL**  
APU COOLING AIR SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
DUCT - OIL COOLING	--	1	315AL,316AR, APU COMPT, LEFT SIDE PLENUM	49-51-01
FAN - COOLING	--	1	315AL,316AR, APU COMPT, AUXILIARY POWER UNIT	49-51-03
VALVE - FAN ISOLATION 	--	1	315AL,316AR, APU COMPT, UPPER COMPRESSOR	49-51-02

 APUs PRE-ALLIED SIGNAL -SB 49-7391

APU Cooling Air System - Component Index  
Figure 101

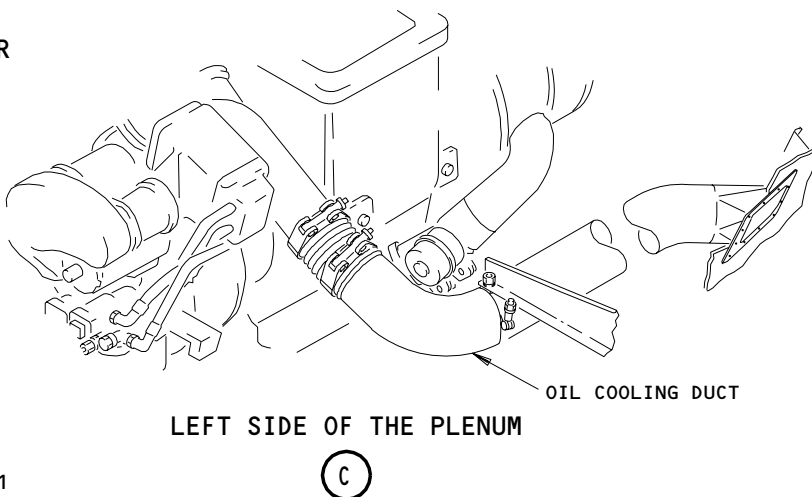
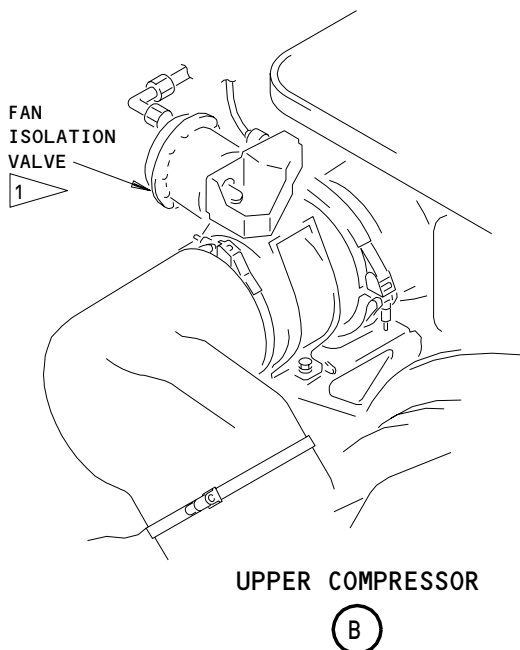
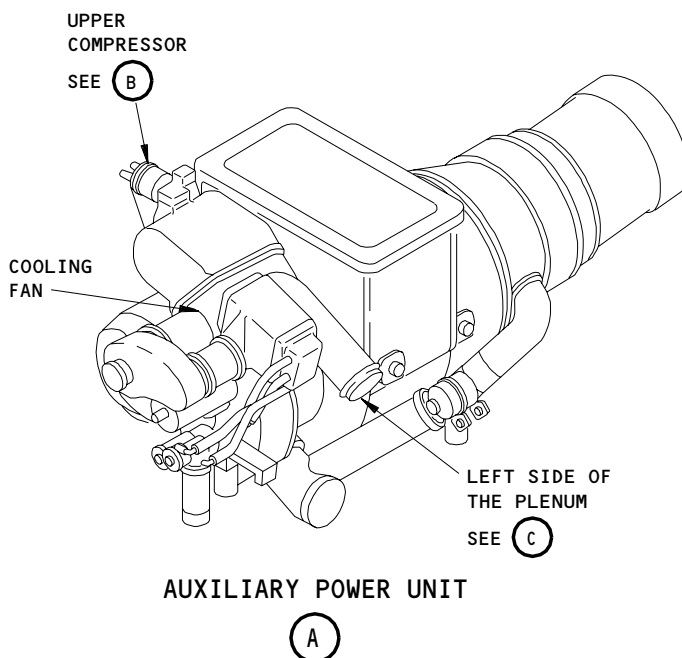
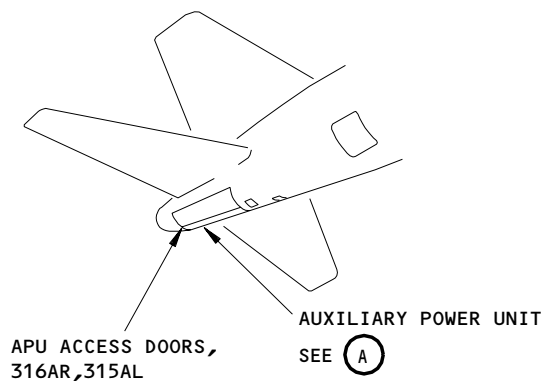


**49-51-00**

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1 APUs PRE-ALLIED SIGNAL-SB 49-7391

APU Cooling Air System - Component Location  
Figure 102

EFFECTIVITY

ALL

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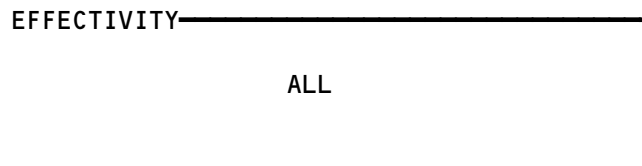
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**BOEING**  
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 FAULT ISOLATION/MAINT MANUAL

APU BLEED AIR SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR - INLET GUIDE VANE	--	1	316AR,315AL, APU COMP, LEFT SIDE COMPRESSOR	49-52-02

APU Bleed Air System - Component Index  
Figure 101



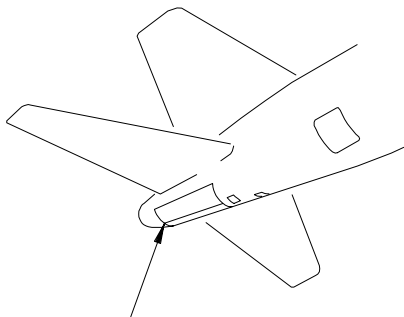
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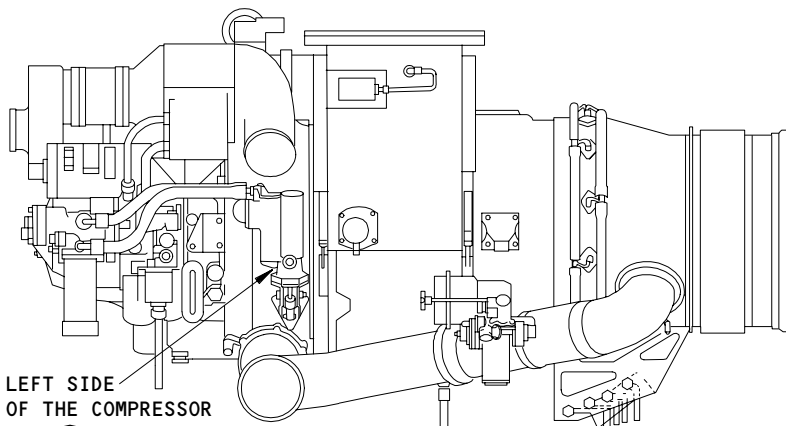
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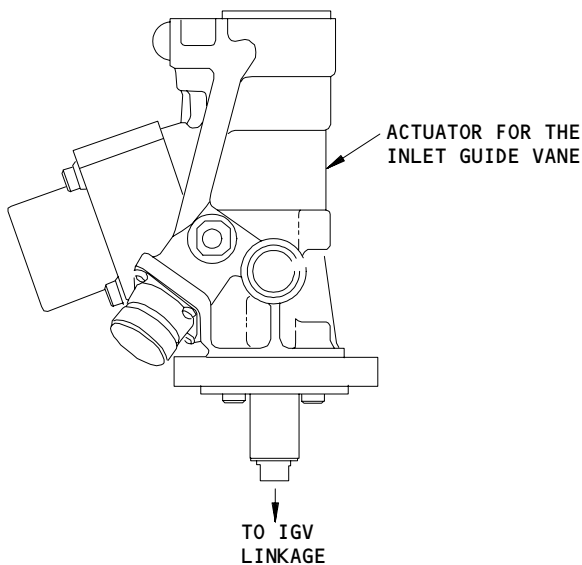


APU ACCESS DOORS,  
315AL,316AR



LEFT SIDE  
OF THE COMPRESSOR

SEE (A)



ACTUATOR FOR THE  
INLET GUIDE VANE

TO IGV  
LINKAGE

LEFT SIDE OF THE COMPRESSOR

(A)

APU Bleed Air System - Component Location  
Figure 102

EFFECTIVITY	ALL
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01

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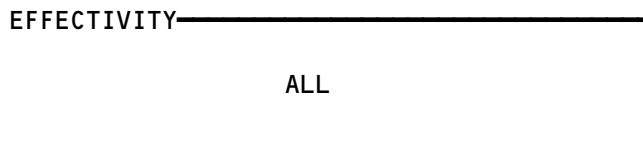
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 FAULT ISOLATION/MAINT MANUAL

APU SURGE BLEED SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM 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
VALVE - SURGE	--	1	315AL,316AR, APU COMPT, SURGE DUCT	49-53-01

APU Surge Bleed System - Component Index  
Figure 101

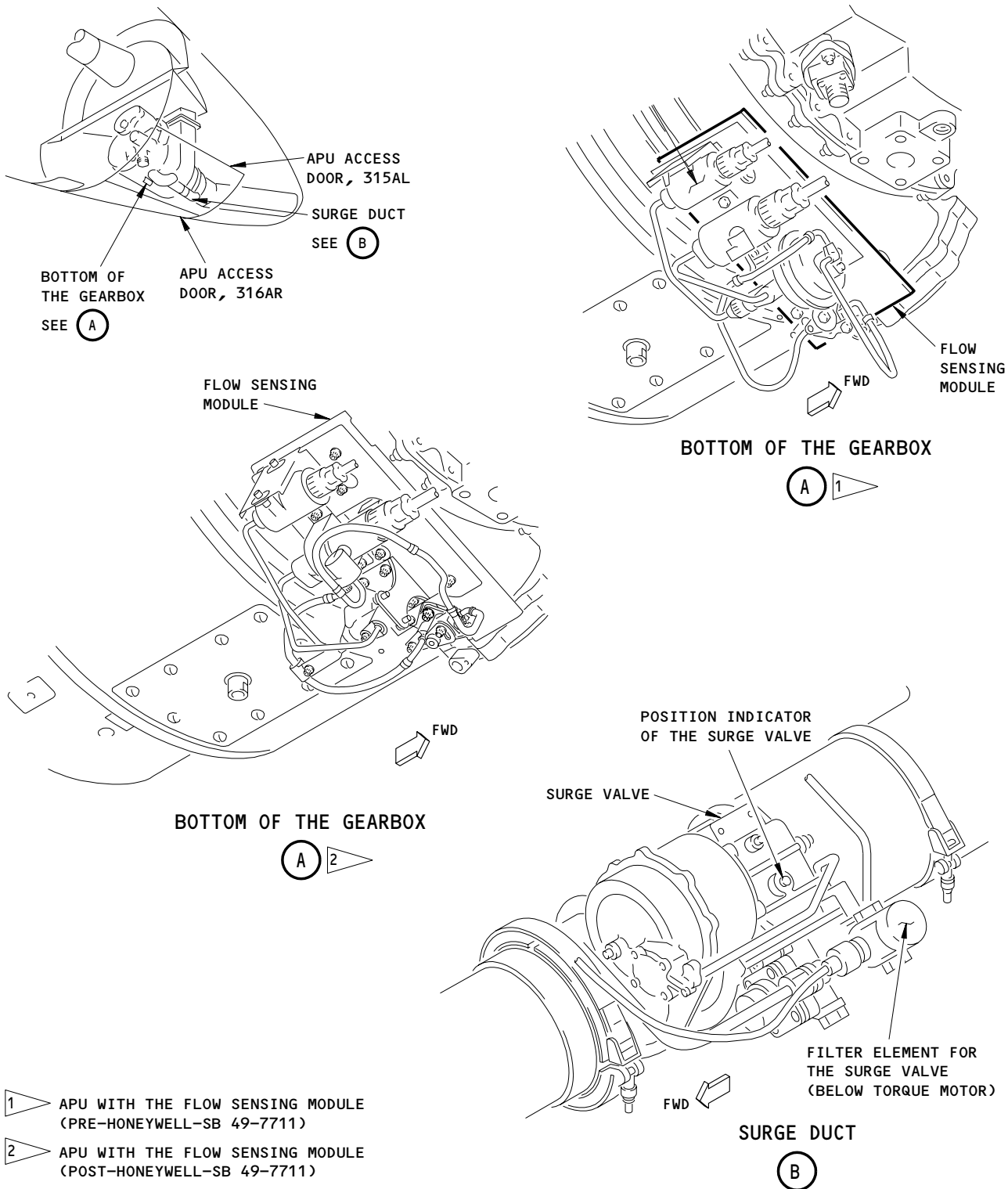


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02

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APU Surge Bleed System - Component Location  
Figure 102

EFFECTIVITY

ALL

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02

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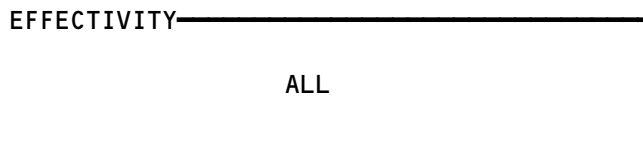

**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

APU CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS -			FLT COMPT, P11	
APU ALTN CONT, C1390	-	1	11B34	*
APU CONT, C1382	-	1	822,E6, AFT EQUIP CENTER	*
MONOPOLE - APU	-	2	316AR,315AL	49-61-02
PANEL - APU CONTROL, M1	-	1	FLT COMPT, P5	*
SENSOR - APU INLET PRESSURE, YBMTS4	-	1	316AR,315AL, APU COMPT	49-61-04
SENSOR - APU INLET TEMPERATURE, YBMTS5	-	1	316AR,315AL, APU COMPT	49-61-03
UNIT - APU CONTROL, M206	-	1	822,E6, AFT EQUIP CENTER	49-61-05

\* SEE THE WDM EQUIPMENT LIST

APU Control System - Component Index  
Figure 101



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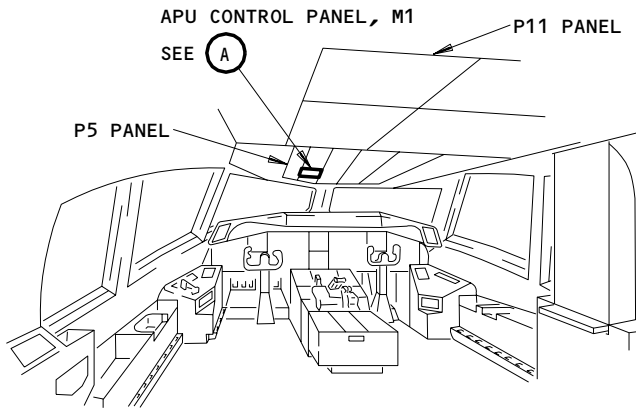
03

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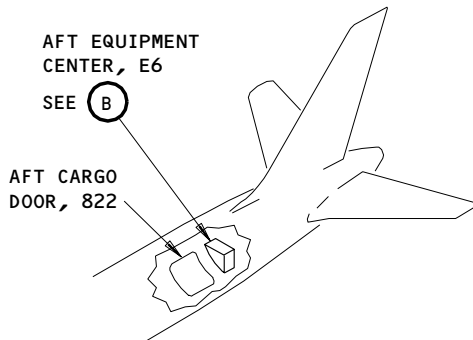
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# BOEING

## 757 FAULT ISOLATION/MAINT MANUAL



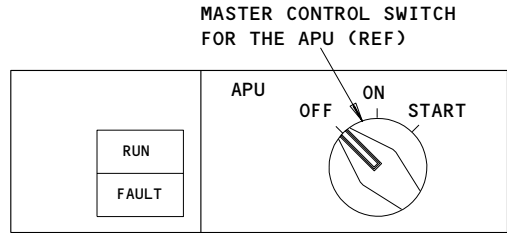
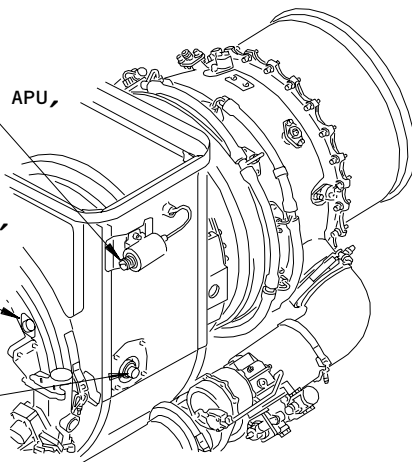
FLIGHT COMPARTMENT



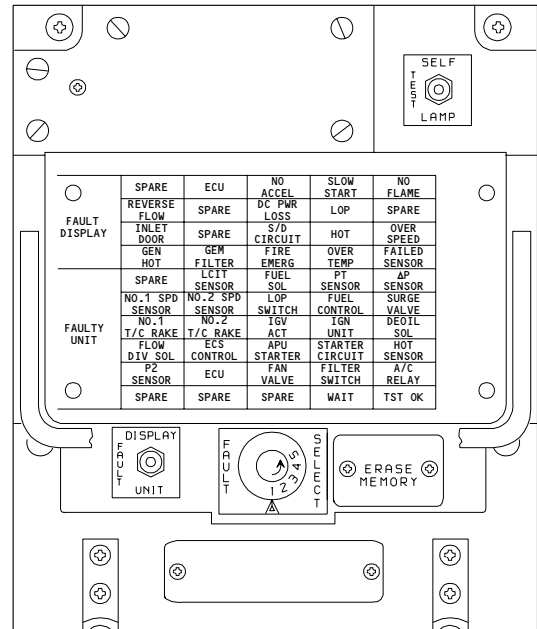
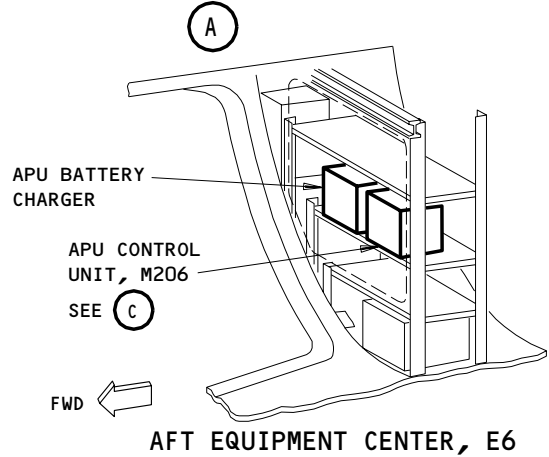
INLET PRESSURE SENSOR FOR THE APU, YBMTS4

INLET TEMPERATURE SENSOR FOR THE APU, YBMTS5

MONOPOLE, YBMTS8, YBMTS9



APU CONTROL PANEL, M1



APU CONTROL UNIT, M206

1 AIRPLANES WITH THE APU CONTROL UNIT -18 AND BEFORE

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

EFFECTIVITY

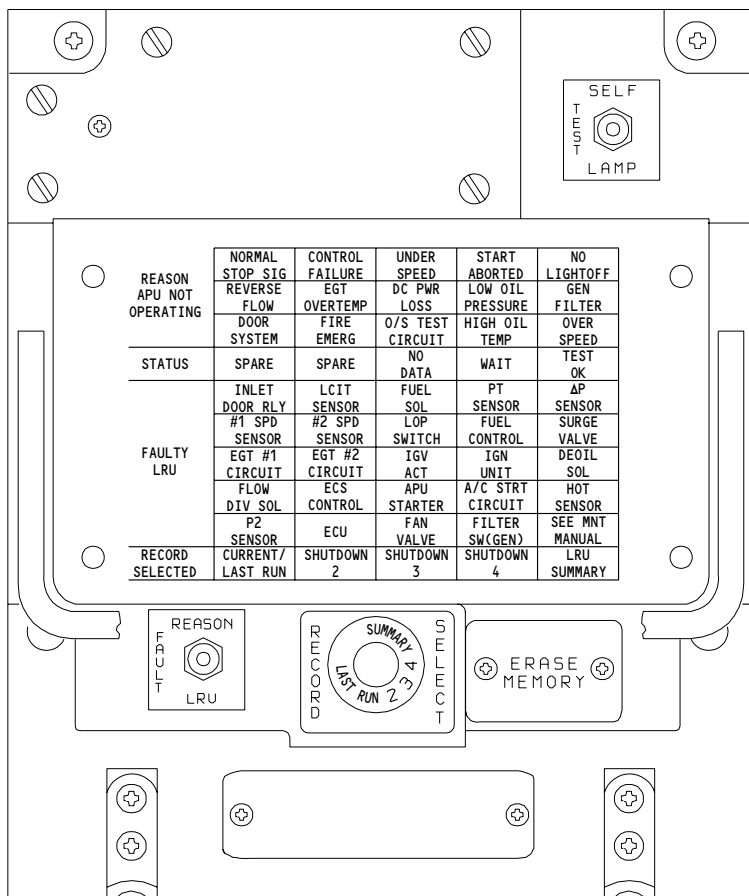
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757  
FAULT ISOLATION/MAINT MANUAL

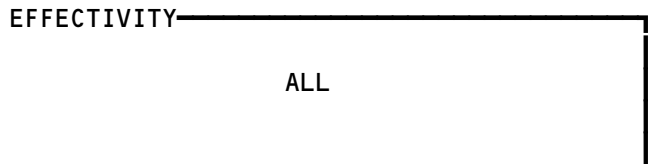


APU CONTROL UNIT, M206



2 AIRPLANES WITH THE APU CONTROL UNIT -19 AND SUBSEQUENT

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



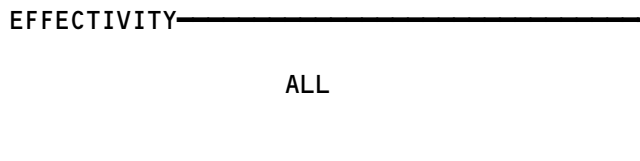
49-61-00


**BOEING**  
 757  
 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



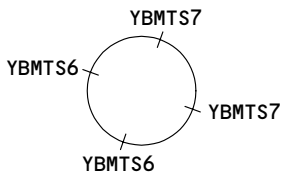
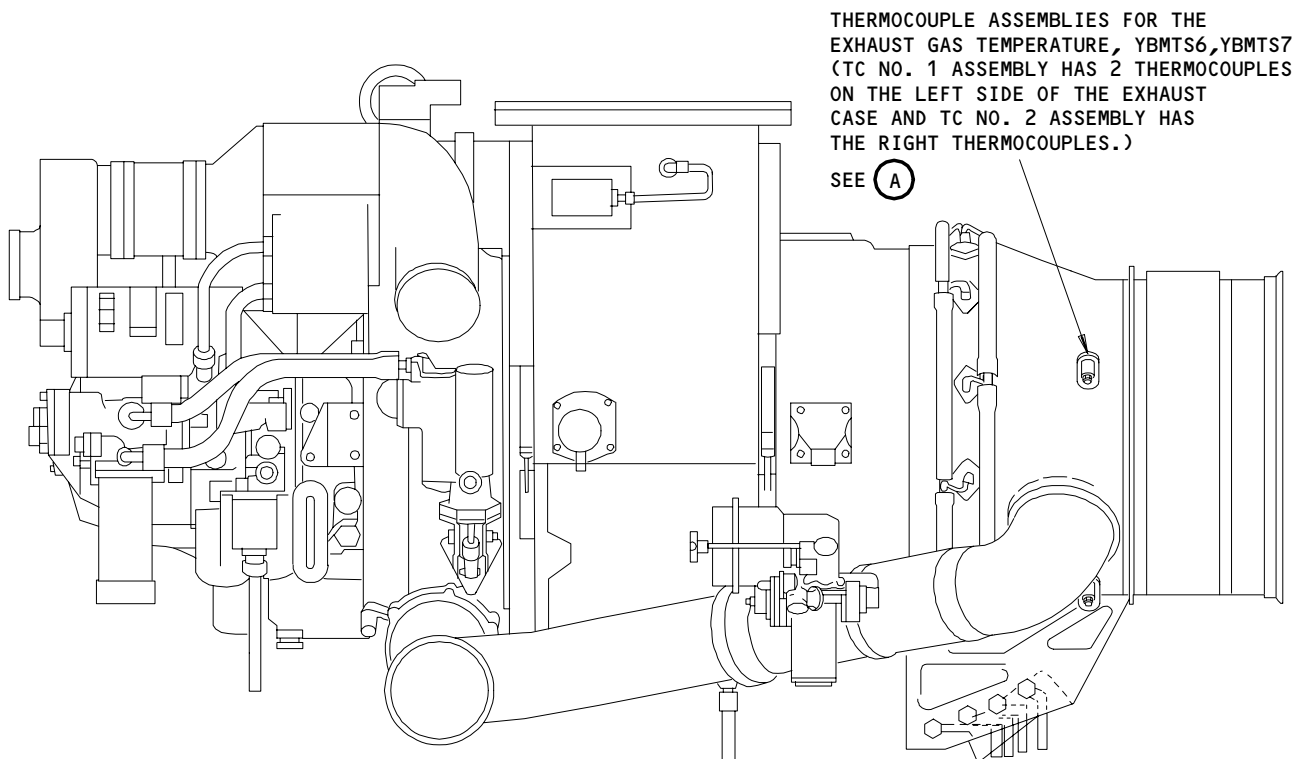
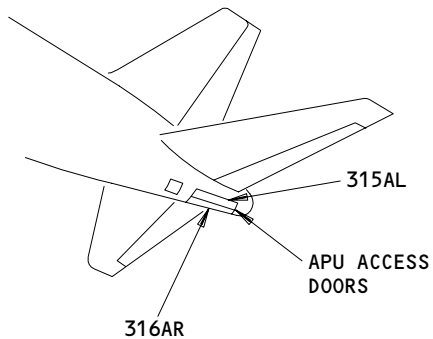
**49-71-00**

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FAULT ISOLATION/MAINT MANUAL



VIEW IN THE  
FORWARD DIRECTION

(A)

APU Exhaust Gas Temperature Indicating System - Component Location  
Figure 102

EFFECTIVITY	
	ALL

49-71-00





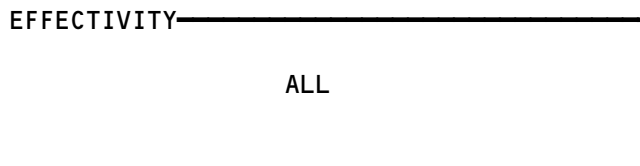
757  
FAULT ISOLATION/MAINT MANUAL

APU TIME TOTALIZER AND CYCLEMETER

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CYCLEMETER, N10032	--	1	822, E6 AFT EQUIP CENTER	*
HOURLMETER, N10017	--	1	822, E6 AFT EQUIP CENTER	*

\* SEE THE WDM EQUIPMENT LIST

APU Time Totalizer and Cyclemeter - Component Index  
Figure 101

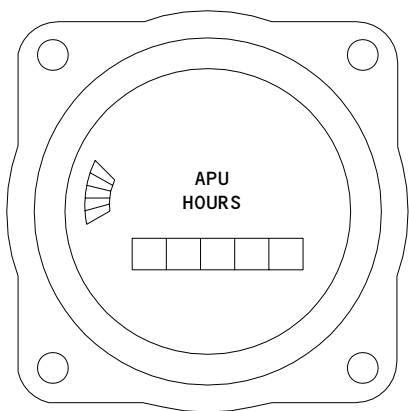
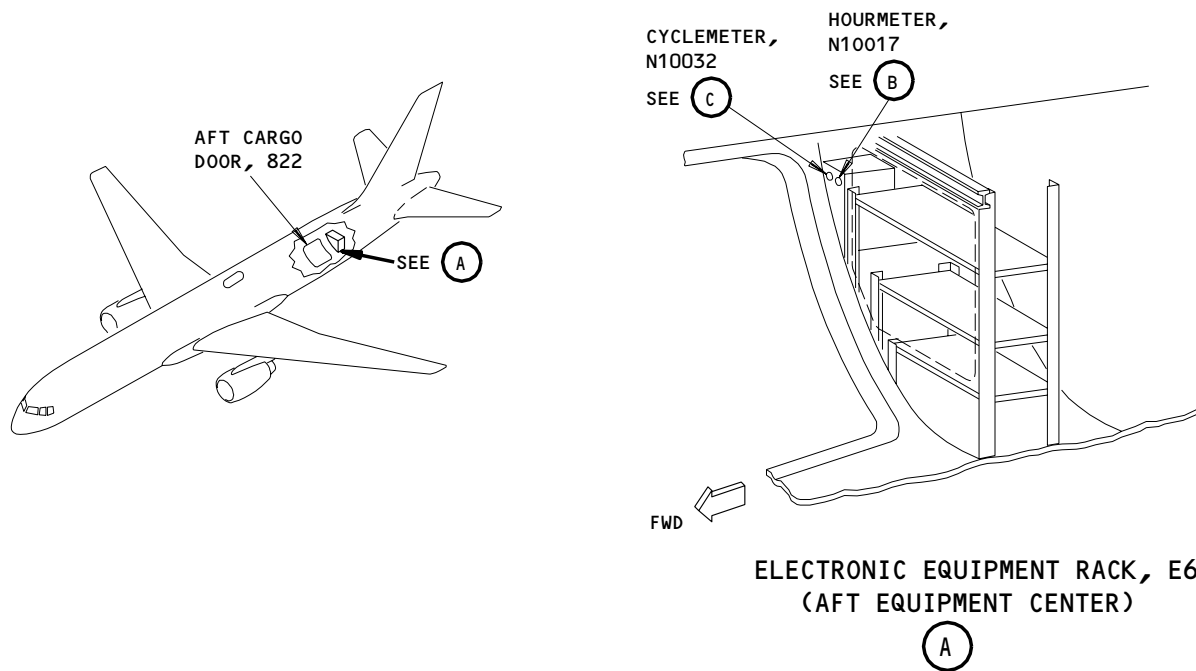


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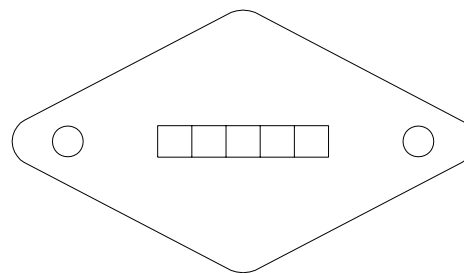
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HOURLMETER, N10017  
(B)



CYCLEMETER, N10032  
(C)

APU Time Totalizer and Cyclemeter - Component Location  
Figure 102

EFFECTIVITY	ALL
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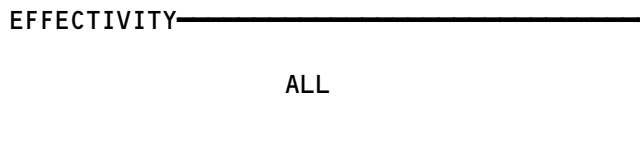
49-72-00


**BOEING**  
 757  
 FAULT ISOLATION/MAINT MANUAL

APU EXHAUST SYSTEM

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

APU Exhaust System - Component Index  
Figure 101



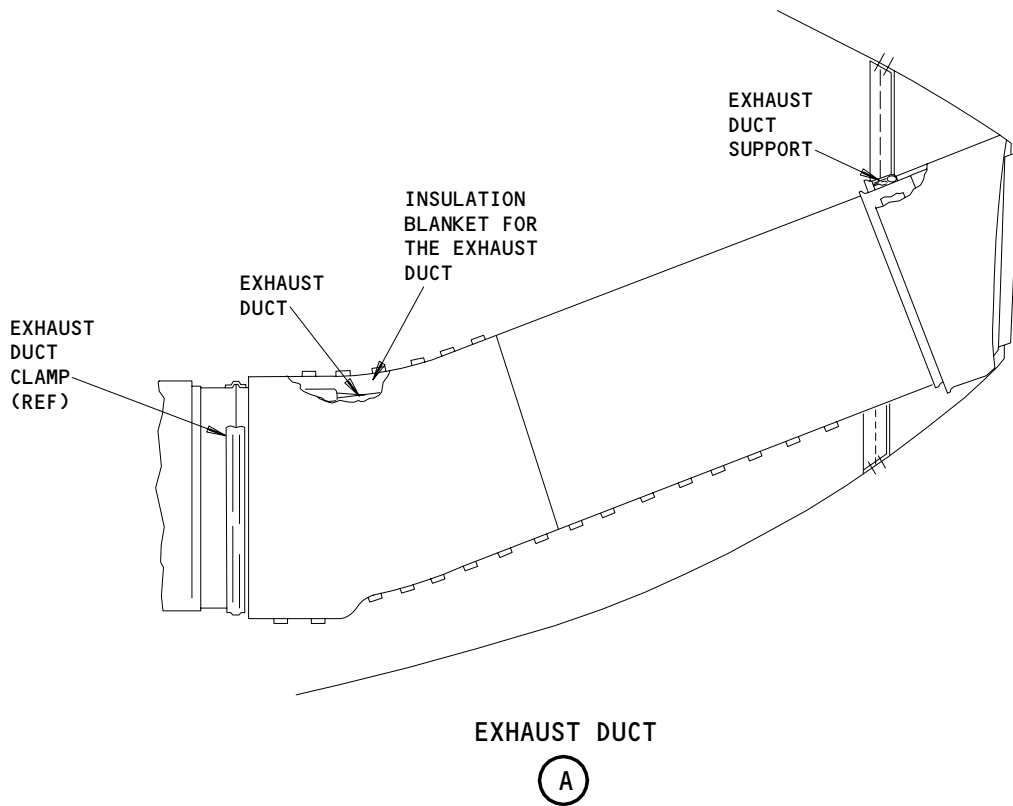
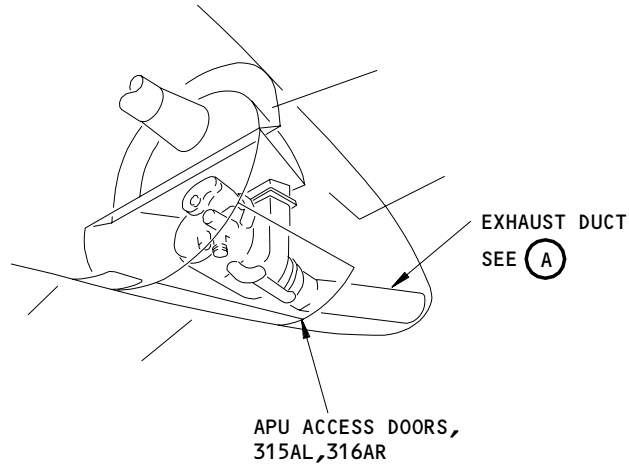
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 757  
 FAULT ISOLATION/MAINT MANUAL



APU Exhaust System - Component Location  
 Figure 102

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

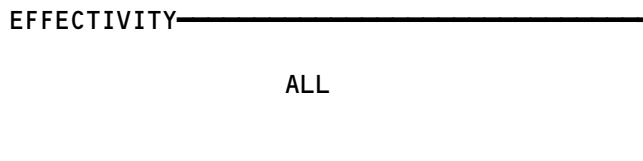
APU OIL INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SENSOR - OIL TEMPERATURE, YBMTS1	--	1	315AL,316AR, APU COMPT, RIGHT SIDE LOAD COMPRESSOR	49-94-01
SWITCH - LOW OIL LEVEL, YBMS3 <span style="float: right;">1</span>	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-94-03
SWITCH - LOW OIL PRESSURE, YBMS2	--	1	315AL,316AR, APU COMPT, RIGHT SIDE LOAD COMPRESSOR	49-94-02
TRANSMITTER - OIL QUANTITY, YBMS3 <span style="float: right;">2</span>	--	1	315AL,316AR, APU COMPT, BOTTOM OF GEARBOX	49-94-04

1 ▶ GUI 001-114,116-999

2 ▶ GUI 115

APU Oil Indicating System - Component Index  
Figure 101

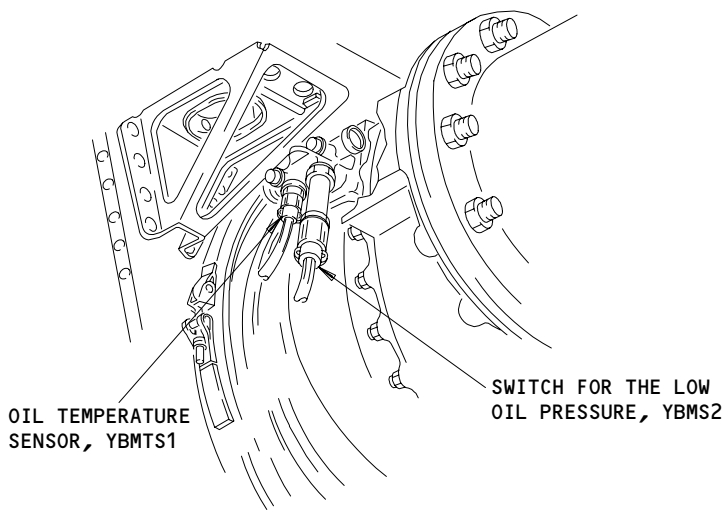
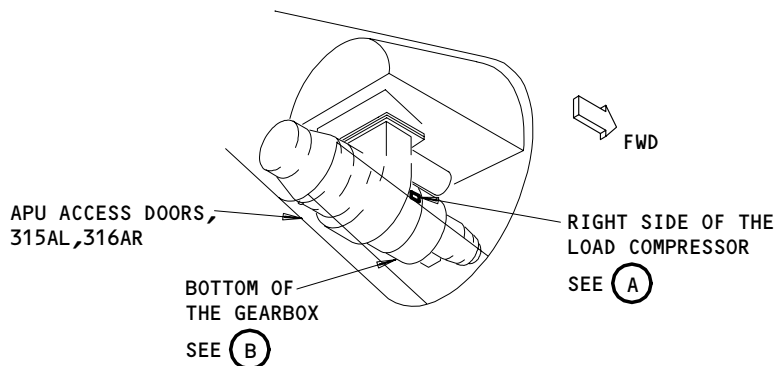


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07

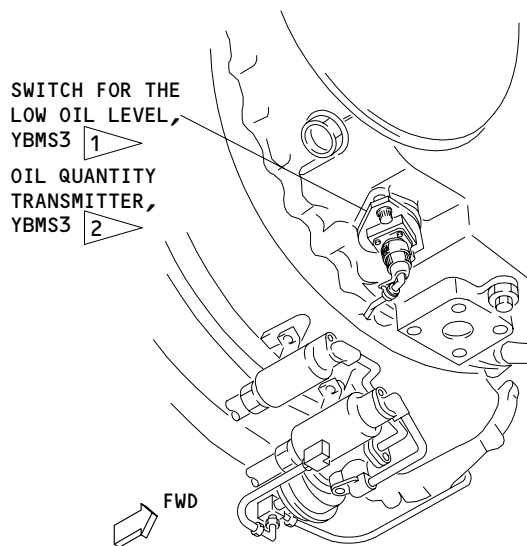
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RIGHT SIDE OF THE LOAD COMPRESSOR

(A)



BOTTOM OF THE GEARBOX

(B)

- 1 GUI 001-114,116-999
- 2 GUI 115

APU Oil Indicating System - Component Location  
Figure 102

EFFECTIVITY

ALL

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