

GPA Group plc

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These are the possible types of faults: YOU FIND A FAULT WITH 1. EICAS Message AN AIRPLANE SYSTEM 2. Observed Fault Use the EICAS message, fault code, or fault description to find the corrective action or fault isolation procedure in the FIM. DO THE CORRECTIVE For details, see Figure 3 -ACTION OR GO TO THE FAULT ISOLATION PROCEDURE IN THE FIM If you do not have a fault code or an EICAS message and if the system has BITE, then you can use the system BITE to get more information: Use the BITE Index to find if the system has BITE and to find the BITE procedures in the FIM. For details, see Figure 2 -The fault isolation procedure FOLLOW THE STEPS IN explains how to find and repair the THE FAULT ISOLATION the cause of the fault. **PROCEDURE**

> Basic Fault Isolation Process Figure 1

ALL

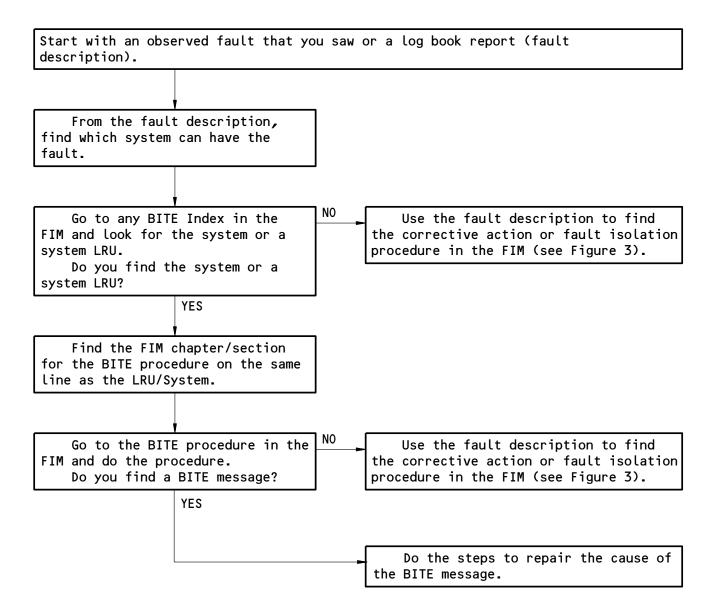
29-HOW TO USE THE FIM

For details, see Figure 4 —

01

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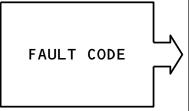


How to Get Fault Information from BITE Figure 2

29-HOW TO USE THE FIM

IF YOU HAVE:

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



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



1. If you know the chapter of the EICAS message, then go to the EICAS Messages section in that chapter and find the EICAS message.

If you do not know the chapter of the EICAS message, then do these steps:

A. Go to FIM EICAS MESSAGE LIST and find the EICAS message in the table.

 $\underline{\text{NOTE}} \colon$ The list follows the INTRODUCTION to the FIM.

- B. Find the chapter number on the same line as the EICAS message. Go to the EICAS Messages section in that chapter and find the EICAS message.
- 2. Do the corrective action in the "Procedure" column for the EICAS message. If there is a FIM reference, then go to that fault isolation procedure in the FIM and do the steps in the procedure (see Figure 4).



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

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

EFFECTIVITY-

29-HOW TO USE THE FIM



ASSUMED CONDITIONS AT START OF TASK

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

PREREQUISITES

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

FAULT ISOLATION BLOCKS

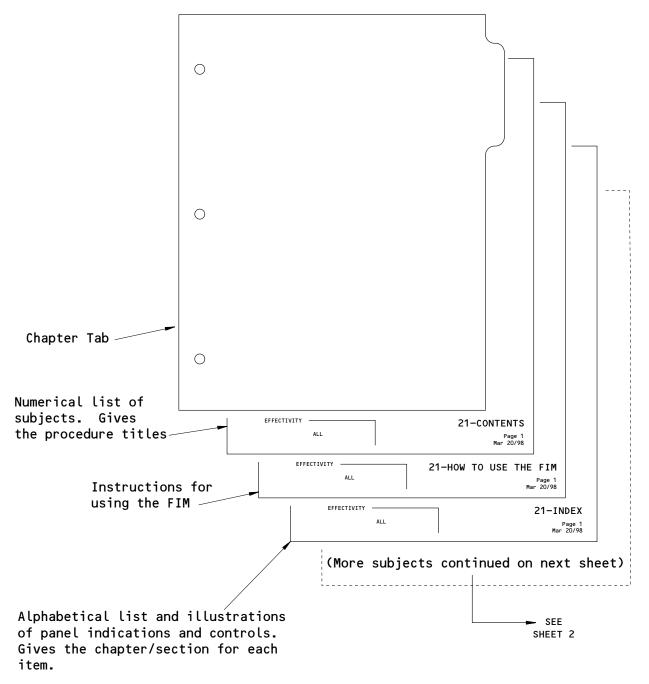
- Start the fault isolation procedure at block 1 unless specified differently.
- Do the check to get an answer to the question in the box. Follow the arrow that applies to your answer. This will go to the next check.
- When you get to a box in the column at the right of the page, you have isolated that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

Do the Fault Isolation Procedure Figure 4

EFFECTIVITY-

29-HOW TO USE THE FIM



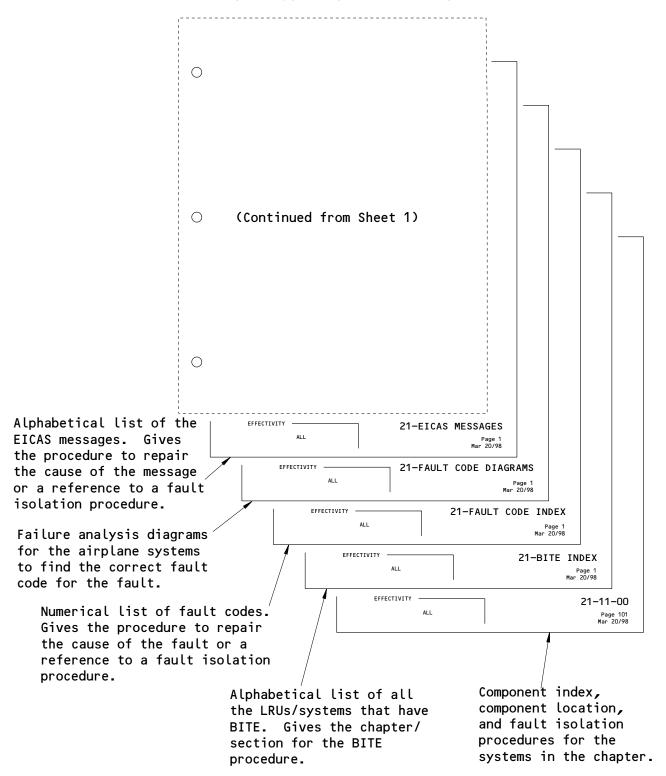


Subjects in Each FIM Chapter Figure 5 (Sheet 1)

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Subjects in Each FIM Chapter Figure 5 (Sheet 2)

EFFECTIVITY-

29-HOW TO USE THE FIM

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	TITLE	CHAP/SEC
	ELEC PUMP (ACMP)	
	FLUCTUATES	2911
	HIGH PRESS	2911
	LOW PRESS	2911
	LOW PRESS LGT	2911
	ZERO PRESS	2911
	EDP	
	DEPRESSURIZE	2911
	FLUCTUATE	
	HIGH PRESS	
	LOW PRESS	
	LOW PRESS LIGHT	
1>	HYD GEN ON, TEST	
	INDICATING	
	HYD PRESS	2911
	HYD QTY	
	OVERHEAT	
	POWER XFER UNIT (PTU)	
	PRESSURE	
	QTY INCREASING/DECREASING (LEAK)	
	RAM AIR TURBINE	
	UNLOCKED LGT	2921
	RESERVE BRAKE VALVE	
	RESERVOIR	
	SYSTEM PRESSURE LGT.	
	0101E11 1 11E00011E E01	

1 AIRPLANES WITH HYDRAULIC MOTOR-DRIVEN GENERATOR

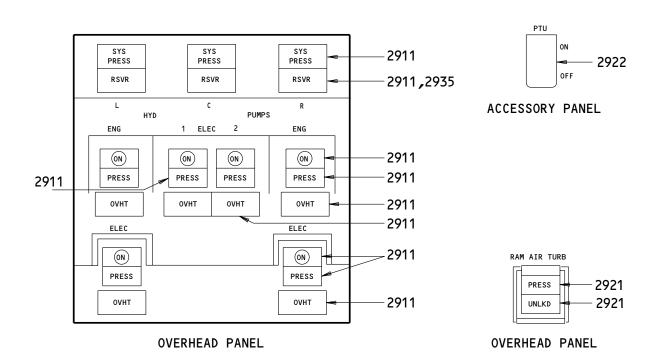
HYDRAULIC POWER - INDEX Figure 1 (Sheet 1)

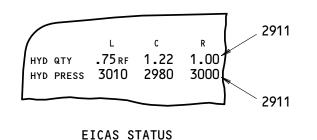
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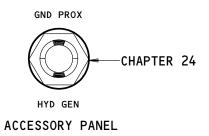
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HYDRAULIC POWER - INDEX Figure 1 (Sheet 2)

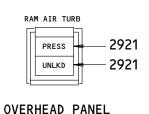
AIPLANES WITH HYD GENERATOR AND STATUS PAGE HYD PRESSURE IND.

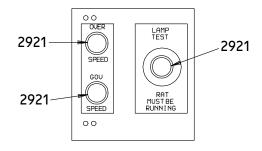
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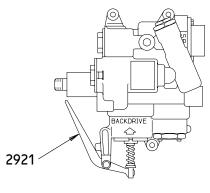
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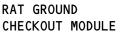


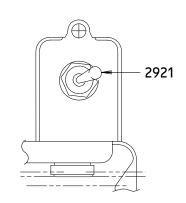




RAT TACHOMETER







RAT GROUND MANUAL SWITCH

TITLE	CHAP/SEC
RAT AUTO DEPLOYMENT	2921
RAT GROUND DEPLOYMENT	2921
RAT PUMP AND DRIVE SYSTEM	
GOV SPEED LGT	2921
OVERSPEED LGT	2921
PRESS LGT	2921
RAT RETRACTION	2921

HYDRAULIC POWER - INDEX (GROUND) Figure 2

EFFECTIVITY-ALL

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HYDRAULIC 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-

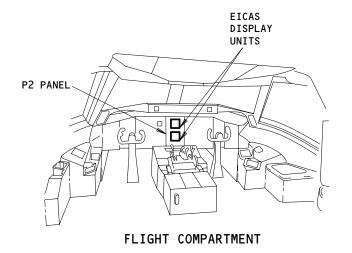
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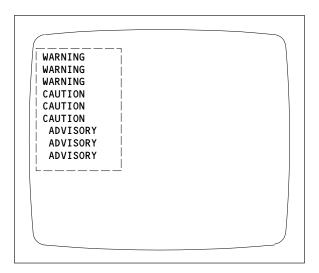
29-EICAS MESSAGES

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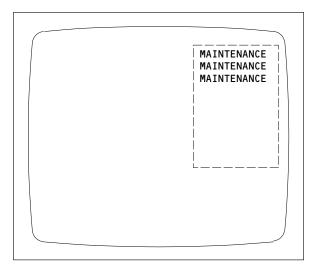


FAULT ISOLATION/MAINT MANUAL

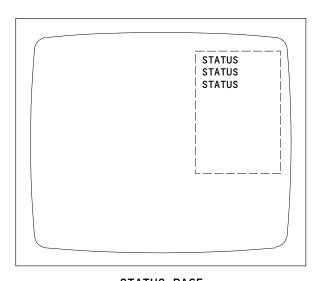




ENGINE PRIMARY PAGE OR COMPACTED PAGE (TOP DISPLAY UNIT)



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

EFFECTIVITY ALL

29-EICAS MESSAGES

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EICAS MESSAGE LIST					
EICAS MESSAGE	LEVEL	PROCEDURE			
C HYD ELEC 1	С	FIM 29-11-00/101, Fig. 106			
C HYD ELEC 2	С	FIM 29-11-00/101, Fig. 106			
C HYD QTY	С	FIM 29-33-00/101, Fig. 104			
C HYD QTY O/FULL	M	FIM 29-33-00/101, Fig. 103			
C HYD RSVR PRES	С	FIM 29-35-00/101, Fig. 103			
C HYD SYS MAINT	S, M	FIM 29-11-00/101, Fig. 117			
C HYD SYS PRESS	В	Go to the 29-FAULT CODE INDEX and look at the fault codes: 29 11 10, 29 31 01.			
C HYD 1 OVHT	С	FIM 29-11-00/101, Fig. 115			
C HYD 2 OVHT	С	FIM 29-11-00/101, Fig. 115			
L(R) ELEC HYD OVHT	С	FIM 29-11-00/101, Fig. 114			
L(R) ENG HYD OVHT	С	FIM 29-11-00/101, Fig. 113			
L(R) HYD ELEC PUMP	С	FIM 29-11-00/101, Fig. 105			
L(R) HYD ENG PUMP	С	FIM 29-11-00/101, Fig. 123			
L(R) HYD QTY	С	FIM 29-33-00/101, Fig. 104			
L(R) HYD QTY O/FULL	М	FIM 29-33-00/101, Fig. 103			
L(R) HYD RSVR PRES	С	FIM 29-35-00/101, Fig. 103			
L(R) HYD SYS MAINT	S, M	FIM 29-11-00/101, Fig. 116			

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29-EICAS MESSAGES



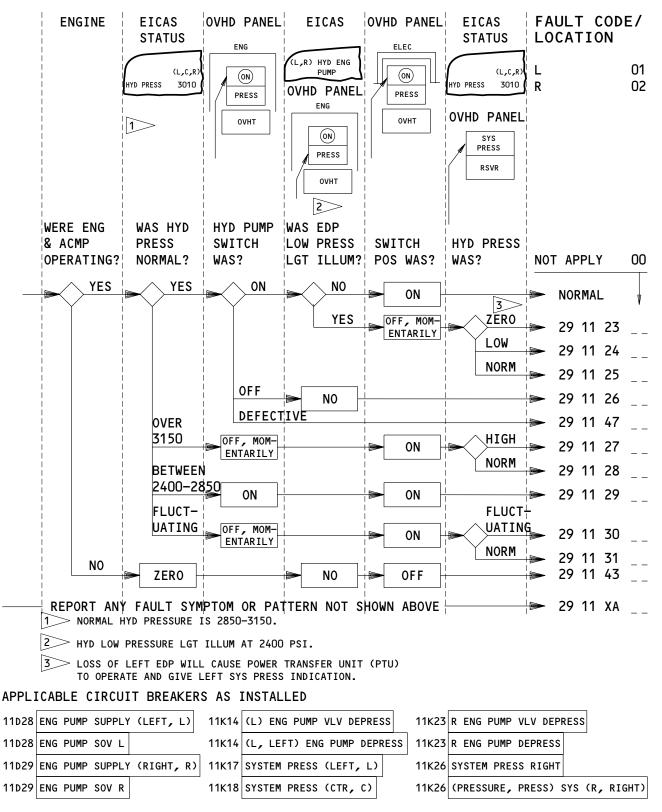
EICAS MESSAGE LIST					
EICAS MESSAGE LEVEL		PROCEDURE			
L(R) HYD SYS PRESS	В	Go to the 29-FAULT CODE INDEX and look at the fault codes: 29 11 06, 29 31 01.			
POWER XFER UNIT	S, M	FIM 29-22-00/101, Fig. 104			
RAT	S, M	FIM 29-21-00/101, Fig. 103			
RAT UNLOCKED	С	Adust or replace the ram air turbine stowed limit switch, S10258 (AMM 29-21-17/201).			
RSV BRAKE VAL	M	FIM 29-11-00/101, Fig. 120			

ALL

29-EICAS MESSAGES

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SYS PRESS AND ENG DRIVEN PUMP (EDP) - FAULT CODES

AIRPLANES WITH STATUS PAGE HYD PRESSURE IND

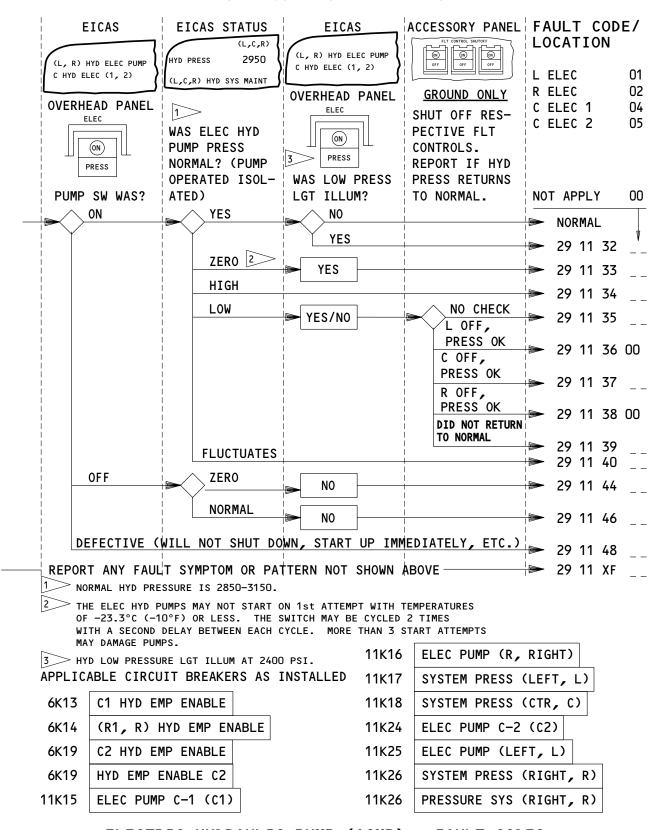
29-FAULT CODE DIAGRAM

01

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FAULT ISOLATION/MAINT MANUAL



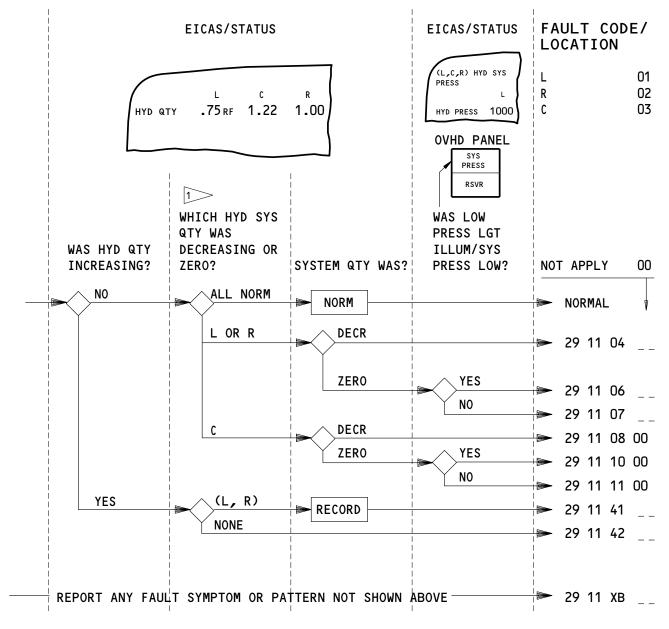
ELECTRIC HYDRAULIC PUMP (ACMP) - FAULT CODES

29-FAULT CODE DIAGRAM

01

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1 COLD SOAK WILL RESULT IN QTY DECREASE.

APPLICABLE CIRCUIT BREAKERS

NONE

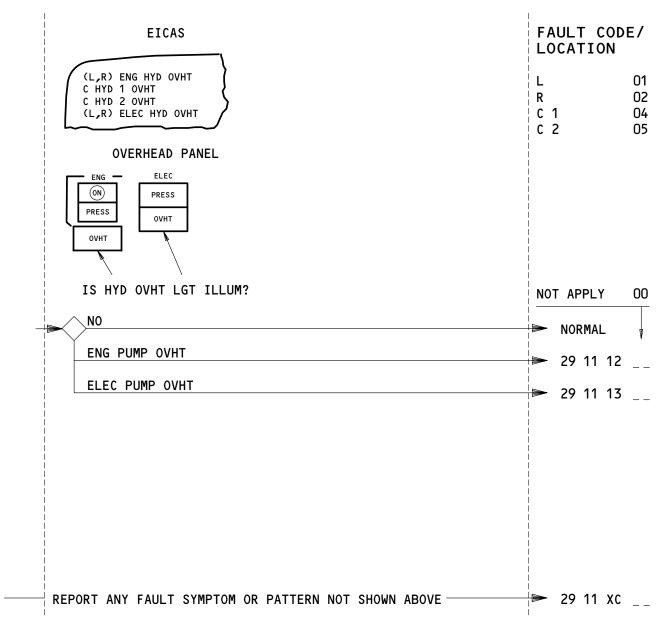
HYD QTY INCREASING/DECREASING - FAULT CODES

29-FAULT CODE DIAGRAM

01

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NONE

HYDRAULIC OVERHEAT - FAULT CODES

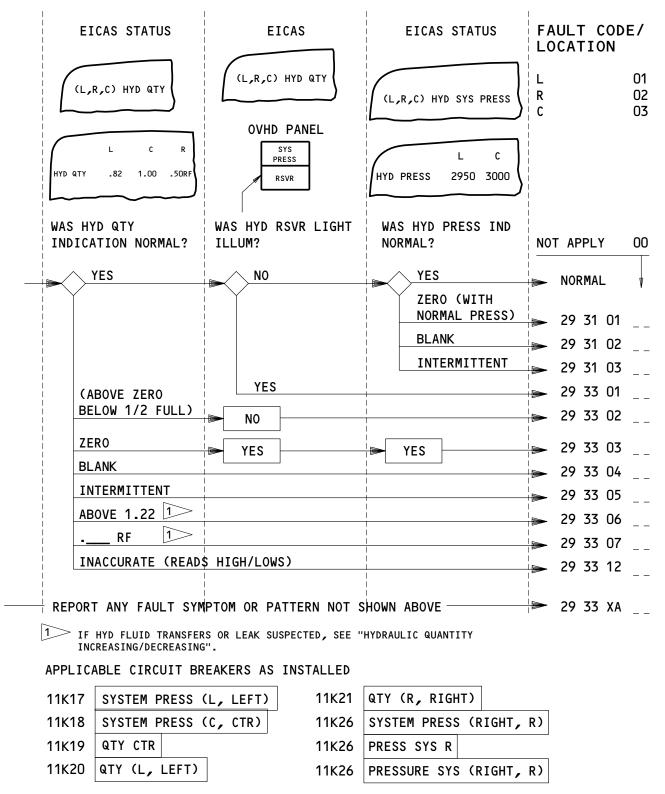
ALL

29-FAULT CODE DIAGRAM

01

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HYDRAULIC INDICATORS - FAULT CODES

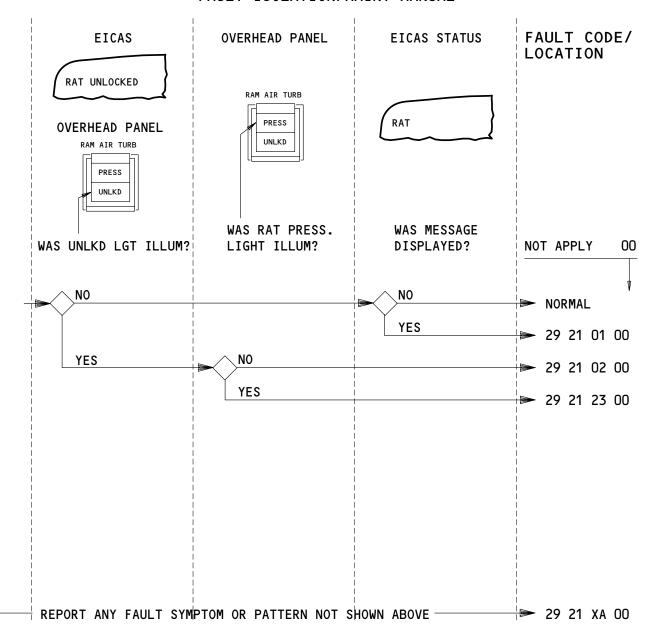
29-FAULT CODE DIAGRAM

01

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FAULT ISOLATION/MAINT MANUAL



APPLICABLE CIRCUIT BREAKERS AS INSTALLED

6F1	RAT MAN PWR	11D26	RAT AUTO	CONT
6F1	RAT MANUAL	11D26	RAT CONT	
6F1	PWR RAT MAN	11D27	RAT AUTO	PWR
6F2	RAT MAN CONT	11D27	RAT AUTO	
6F2	CONT RAT MAN			

RAT (RAM AIR TURBINE) - FAULT CODES

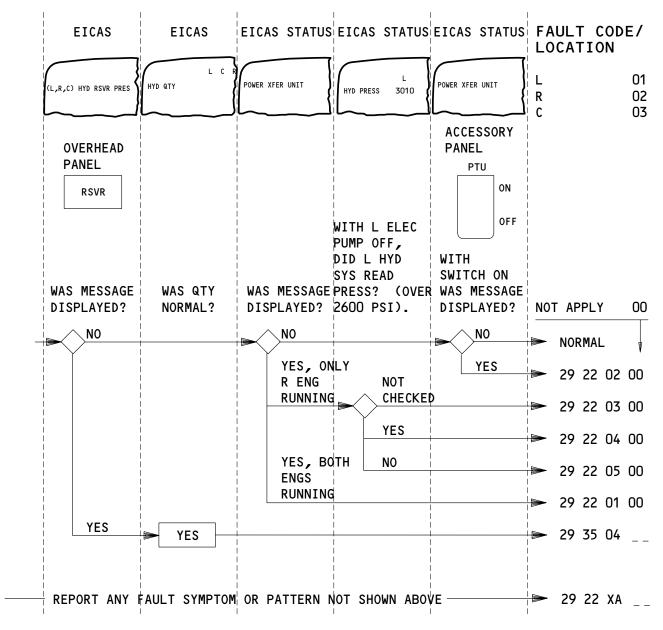
ALL ALL

29-FAULT CODE DIAGRAM

01

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APPLICABLE CIRCUIT BREAKERS AS INSTALLED

11D30	PTU IND	11K19	QTY CTR	
11D31	PTU CONT	11K20	QTY (L,	LEFT)
		11K21	QTY (R,	RIGHT)

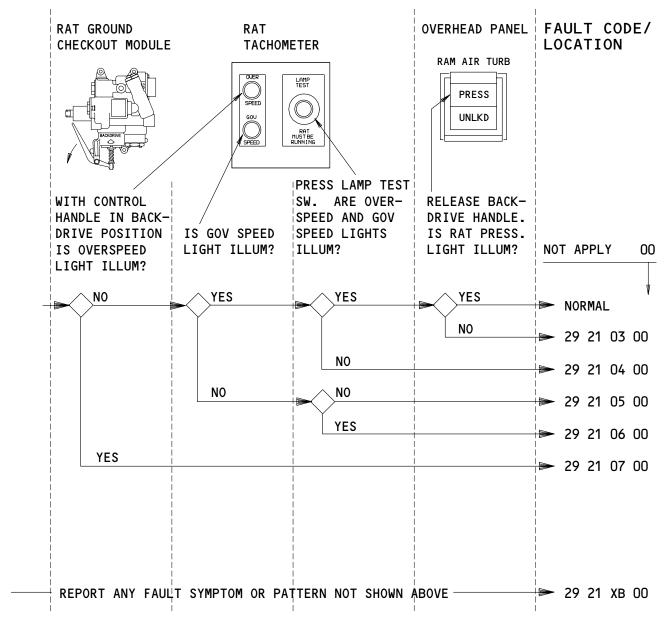
POWER XFER UNIT/HYD RSVR PRESS - FAULT CODES

29-FAULT CODE DIAGRAM

01

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6F1	PWR RAT MAN
6F2	CONT RAT MAN
11D26	RAT AUTO CONT
11D27	RAT AUTO PWR

RAT HYD PUMP AND DRIVE SYSTEM - FAULT CODES (GROUND)

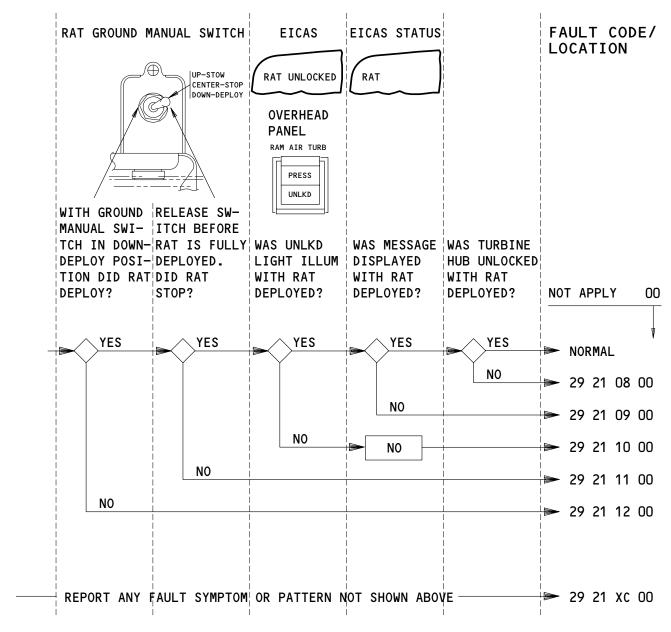
EFFECTIVITY-ALL

29-FAULT CODE DIAGRAM

02

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6F1	PWR RAT M	1AN
6F2	CONT RAT	MAN
11D26	RAT AUTO	CONT
11D27	RAT AUTO	PWR

RAT GROUND DEPLOYMENT - FAULT CODES (GROUND)

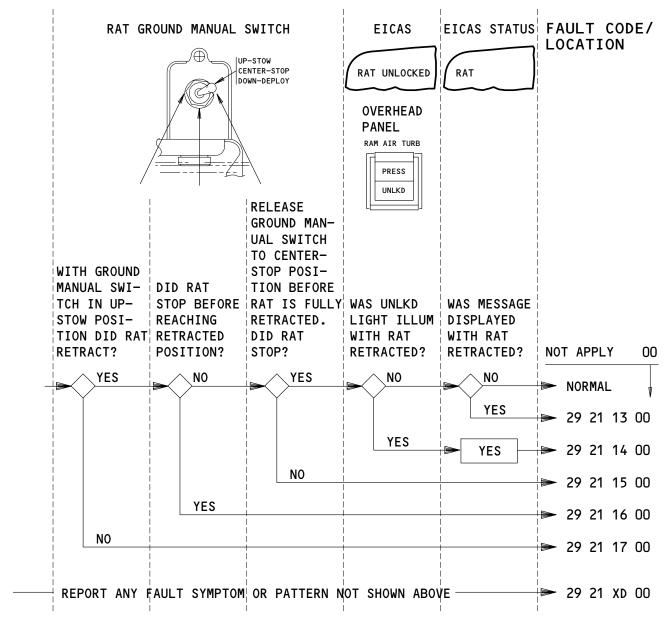
EFFECTIVITY-ALL

29-FAULT CODE DIAGRAM

02

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6F1	PWR RAT MAN
6F2	CONT RAT MAN
11D26	RAT AUTO CONT
11D27	RAT AUTO PWR

RAT GROUND RETRACTION - FAULT CODES (GROUND)

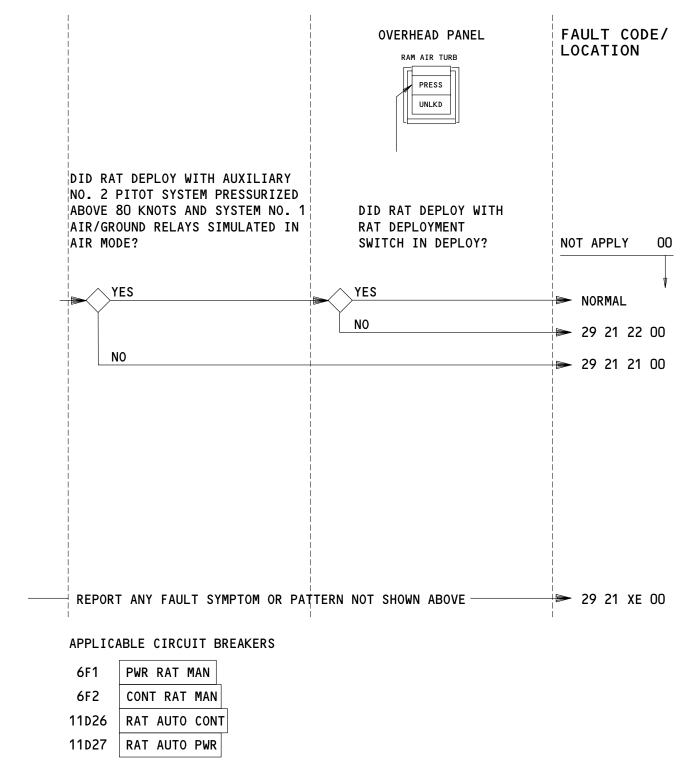
ALL

29-FAULT CODE DIAGRAM

02

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RAT AUTO DEPLOYMENT - FAULT CODES (GROUND)

ALL

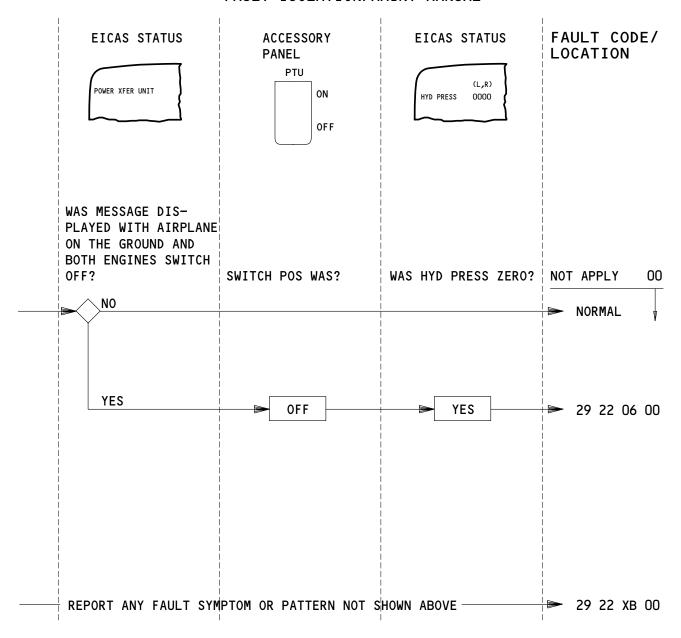
29-FAULT CODE DIAGRAM

05

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FAULT ISOLATION/MAINT MANUAL



APPLICABLE CIRCUIT BREAKERS

11D31 PTU CONT

POWER XFER UNIT - FAULT CODES (GROUND)

EFFECTIVITY-ALL

29-FAULT CODE DIAGRAM

03

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FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 11 XA	A (01=L,02=R) System pressure or engine-driven pump problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-02
29 11 XB	A (01=L,02=R,03=C) Hydraulic quantity problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-01
29 11 XC	A (01=L,02=R,03=C1,04=C2) Hydraulic overheat problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-02
29 11 XF	A (01=L ELEC,02=R ELEC,03=C ELEC 1,04=C ELEC 2) electric hydraulic pump problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-02
29 21 XA 00	A RAT indicating problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-06
29 21 XB 00	A RAT hydraulic pump and drive system problem was encountered by the ground crew which is not covered in the fault code diagrams.	SSM 29-00-06

29-FAULT CODE INDEX



FAULT CODE	LOC BOOK DEPORT	EALL T TOOLATION DEFENDENCE
FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 21 XC 00	A RAT ground deployment problem was encountered by the ground crew which is not covered in the fault code diagrams.	SSM 29-00-06
29 21 XD 00	A RAT ground retraction problem was encountered by the ground crew which is not covered in the fault code diagrams.	SSM 29-00-06
29 21 XE 00	A RAT auto deployment problem was encountered by the ground crew which is not covered in the fault code diagrams.	SSM 29-00-06
29 22 XA	A (01=L,02=R,03=C) Power transfer unit or hydraulic reservoir pressurization problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-01
29 22 XB 00	A power transfer unit problem was encountered by the ground crew which is not covered in the fault code diagrams.	SSM 29-00-01
29 33 XA	A (01=L,02=R,03=C) Hydraulic indicating problem was encountered by the flight crew which is not covered in the fault code diagrams.	SSM 29-00-02
29 11 04	(01=L,02=R) Hyd qty decreased to Qty stable with EDP depressurized and elec pump off.	FIM 29-11-00/101, Fig. 107, Block 1
29 11 05	(01=L,02=R) Hyd qty decreased to EDP depressurized and elec pump off, qty continued to decrease.	FIM 29-11-00/101, Fig. 108, Block 1
29 11 06	(01=L,02=R) Hyd qty decreased to zero and system PRESS lgt on. EICAS msg: (L,R) HYD SYS PRESS displayed.	FIM 29-11-00/101, Fig. 109, Block 1

29-FAULT CODE INDEX



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 11 07	(01=L,02=R) Hyd qty zero, system PRESS lgt not on.	FIM 29-11-00/101, Fig. 109, Block 1
29 11 08 00	C hyd qty decreased to Qty stable with system pumps OFF.	FIM 29-11-00/101, Fig. 110, Block 1
29 11 09 00	C hyd qty decreased to System depressurized and leak continued.	FIM 29-11-00/101, Fig. 111, Block 1
29 11 10 00	C hyd qty decreased to zero and system PRESS lgt on. EICAS msg: C HYD SYS PRESS displayed.	FIM 29-11-00/101, Fig. 112, Block 1
29 11 11 00	C hyd qty zero. System PRESS lgt not on.	FIM 29-11-00/101, Fig. 112, Block 1
29 11 12	(01=L,02=R) EDP hyd OVHT lgt on. EICAS msg: (L,R) ENG HYD OVHT displayed. Pump was deactivated.	FIM 29-11-00/101, Fig. 113, Block 1
29 11 13	(01=L,02=R,04=C1,05=C2) Elec hyd OVHT lgt on. EICAS msg: (L,R) ELEC HYD OVHT or C HYD (1,2) OVHT displayed. Pump was deactivated.	L or R System Faults, FIM 29-11-00/101, Fig. 114, Block 1. C System Faults, FIM 29-11-00/101, Fig. 114, Block 1, Fig. 115, Block 1.
29 11 19 00	EICAS msg L HYD SYS MAINT displayed.	FIM 29-11-00/101, Fig. 116, Block 1
29 11 19 00	EICAS msg R HYD SYS MAINT displayed.	FIM 29-11-00/101, Fig. 116, Block 1
29 11 21 00	EICAS msg C HYD SYS MAINT displayed.	FIM 29-11-00/101, Fig. 117, Block 1
29 11 22 00	EICAS msg RSV BRAKE VAL displayed.	FIM 29-11-00/101, Fig. 120, Block 1
29 11 23	(01=L,02=R) EDP hyd push zero.	FIM 29-11-00/101, Fig. 123, Block 1
29 11 24	(01=L,02=R) EDP hyd push low PSI. Hyd push low, (psi) and low PRESS light on and EICAS msg (L,R) ENG PUMP displayed.	Replace the engine-driven pump (EDP) in the left (right) hydraulic system (AMM 29-11-05/401).

29-FAULT CODE INDEX

01



F	r · · · · · · · · · · · · · · · · · · ·	
FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 11 25	(01=L,02=R) EDP hyd low PRESS light on and EICAS msg (L,R) HYD ENG PUMP displayed. EDP push was normal.	Replace the pressure switch, S26 (S31), for the engine-driven pump (EDP) in the left (right) system (AMM 29-11-17/401).
29 11 26	(01=L,02=R) EDP failed to depressurize.	FIM 29-11-00/101, Fig. 104, Block 1
29 11 27	(O1=L,O2=R) hyd push reads high (PSI) with EDP or elec hyd pump (ACMP) operating.	Replace the pressure transmitter M341 (M343), in the left (right) hydraulic system (AMM 29-31-01/401).
29 11 28	(01=L,02=R) EDP hyd push high (PSI). Push norm with elec hyd pump (ACMP) operating.	Replace the engine-driven pump (EDP) in the left (right) hydraulic system (AMM 29-11-05/401).
29 11 29	(01=L,02=R) Hyd push reads low PSI with EDP or elec hyd pump (ACMP) operating.	FIM 29-11-00/101, Fig. 116, Block 1
29 11 30	(01=L,02=R) Hyd push fluctuates during EDP or elec hyd pump (ACMP) operation.	Replace the pressure transmitter M341 (M343), in the left (right) hydraulic system (AMM 29-31-01/401).
29 11 31	(01=L,02=R) HYD push fluctuates during EDP operation.	Replace the engine-driven pump (EDP) in the left (right) hydraulic system (AMM 29-11-05/401).
29 11 32	(01=L elec, 02=R elec, 04=C elec 1, 05=C elec 2) hyd low PRESS lgt on. Pump push was normal. EICAS msg (L,R) HYD ELEC PUMP or C HYD ELEC (1,2) displayed.	L or R System Faults, replace the pressure switch, S25 (S30), for the alternating current motor pump (ACMP) in the left (right) hydraulic system (AMM 29-11-18/401). C System Faults, replace the pressure switch, S10003 (S10016), for the alternating current motor pump (ACMP) C1 (C2) in the center hydraulic system (AMM 29-11-19/401).



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 11 33	(01=L elec,02=R elec,04=C elec 1,05=C elec 2) Hyd low PRESS lgt on. Pump push was zero. EICAS msg (L,R) HYD ELEC PUMP or C HYD ELEC (1,2) displayed.	L or R System Faults, FIM 29-11-00/101, Fig. 105, Block 2. C System Faults, FIM 29-11-00/101, Fig. 106, Block 2.
29 11 34	(01=L elec,02=R elec,04=C elec 1,05=C elec 2) Hyd push high, psi.	L or R System Faults, replace the alternating current motor pump (ACMP), M231 (M232), in the left (right) hydraulic system (AMM 29-11-01/401). C System Faults, replace the alternating current motor pump (ACMP) C1 (C2), M10029 (M10030), in the center hydraulic system (AMM 29-11-02/401).
29 11 35	(01=L elec,02=R elec,04=C Elec 1,05=C elec 2) Hyd push low, psi. EICAS msg (L,R) HYD SYS MAINT (was/was not) or C HYD SYS MAINT (was/was not) displayed. Hyd low PRESS lgt (was/was not) on. Flt control shutoff check not made.	L or R System Faults, FIM 29-11-00/101, Fig. 118, Block 1. C System Faults, FIM 29-11-00/101, Fig. 119, Block 1.
29 11 36 00	L elec hyd pump press low, psi. Push normal with L flt control shutoff valve closed.	Do the internal leakage check for the left hydraulic system (AMM 29-11-00/601).
29 11 37	(04=C elec 1,05=C elec 2) Hyd pump press low, psi. Push normal with C flt control shutoff valve closed.	Do the internal leakage check for the center hydraulic system (AMM 29-11-00/601).
29 11 38 00	R elec hyd pump press low, psi. Push normal with R flt control shutoff valve closed.	Do the internal leakage check for the right hydraulic system (AMM 29-11-00/601).
29 11 39	(01=L elec,02=R elec,04=C elec 1,05=C elec 2) Hyd press low, psi. Push did not return to normal with flt control shutoff valve closed.	L or R System Faults, FIM 29-11-00/101, Fig. 118, Block 2. C System Faults, FIM 29-11-00/101, Fig. 119, Block 2.



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 11 40	(01=L elec,02=R elec,04=C elec 1,05=C elec 2) Hyd press fluctuates, psi.	L or R System Faults, replace the alternating current motor pump (ACMP), M231 (M234), in the left (right) hydraulic system (AMM 29-11-01/401). C System Faults, replace the alternating current motor pump (ACMP) C1 (C2), M10029 (M10030), in the center hydraulic system (AMM 29-11-02/401).
29 11 41	(01=L,02=R,03=C) Hyd qty increased to with a decrease in (L,R) hyd qty.	FIM 29-11-00/101, Fig. 121, Block 1
29 11 42	(01=L,02=R,03=C) Hyd qty increased to with no change in other hyd qtys.	(01=L,02=R) FIM 29-11-00/101, Fig. 109, Block 6. (03=C) FIM 29-11-00/101, Fig. 112, Block 6.
29 11 43	(O1=L,O2=R) EDP HYD low PRESS lgt did not come on or EICAS msg (L,R) HYD ENG PUMP display with eng not running.	Replace the pressure switch, S26 (S31), for the engine-driven pump (EDP) in the left (right) hydraulic system (AMM 29-11-17/401).
29 11 44	(01=L elec,02=R elec,04=C elec 1,05=C elec 2) Hyd low PRESS lgt did not come on or EICAS msg display with pump off and push zero.	L or R System Faults, FIM 29-11-00/101, Fig. 122, Block 1. C System Faults, replace the pressure switch, S10003 (S10016), for the alternating current motor pump (ACMP) C1 (C2) in the center hydraulic system (AMM 29-11-19/401).
29 11 46	(01=L elec,02=R elec,04=C elec 1,05=C elec 2) Hyd pump will not shut off.	L or R System Faults, FIM 29-11-00/101, Fig. 116, Block 1. C System Faults, FIM 29-11-00/101, Fig. 117, Block 1.

29-FAULT CODE INDEX

ALL

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FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 11 47	(01=L,02=R) eng hyd pump sw defective (describe).	Replace the lamp in the switch/light, YQTS1 (YQTS4), for the engine-driven pump (EDP) in the left (right) hydraulic system, on the hydraulic control panel (AMM 33-13-00/201). If the problem continues, replace the switch/light, YQTS1 (YQTS4), on the hydraulic control panel, M10050 (AMM 33-13-00/201) or M10050 (WDM 29-11-11, WDM 29-11-21).
29 11 48	(01=L ELEC,02=R ELEC,04=C ELEC 1,05=C ELEC 2) Hyd pump sw defective (will not shut down pump, start up pump immediately, etc.) (describe).	Replace the lamp in the switch/light (YQTS5,YQTS6,YQTS2,YQTS3) for the alternating current motor pump (ACMP) (L,R,C1,C2) on the hydraulic control panel, M10050 (AMM 33-13-00/201). If the problem continues, replace the switch/light (YQTS5,YQTS6,YQTS2,YQTS3) for the alternating current motor pump (ACMP) (L,R,C1,C2) on the hydraulic control panel, M10050 (AMM 33-13-00/201) or M10050 (WDM 29-11-12,WDM 29-11-22, (WDM 29-11-31).
29 21 01 00	EICAS message: RAT displayed.	FIM 29-21-00/101, Fig. 103, Block 1
29 21 02 00	RAT UNLKD lite on. Airplane perf not affected and RAT low PRESS lgt off. EICAS msg: RAT UNLOCKED displayed.	Adjust or replace the stowed limit switch, S10258, for the ram air turbine (RAT) (AMM 29-21-17/201).
29 21 03 00	Ram air turbine PRESS light did not come on when back-drive control handle is released.	FIM 29-21-00/101, Fig. 104, Block 1
29 21 04 00	Ram air turbine tachometer OVERSPEED light not on GOV SPEED light on. OVERSPEED light remains off with LAMP TEST switch ON.	Replace the tachometer, N10028, for the ram air turbine (RAT) (AMM 29-21-51/401).

29-FAULT CODE INDEX

ALL



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 21 05 00	Ram air turbine tachometer OVERSPEED and GOV SPEED lights did not come on during RAT back-drive. Lights remain off with LAMP TEST switch ON.	FIM 29-21-00/101, Fig. 105, Block 1
29 21 06 00	Ram air turbine tachometer OVERSPEED and GOV SPEED lights did not come on during RAT back-drive. Lights on with LAMP TEST switch ON.	FIM 29-21-00/101, Fig. 105, Block 2
29 21 07 00	Ram air turbine tachometer OVERSPEED light on during RAT back-drive.	Replace the hub on the ram air turbine (RAT)(AMM 29-21-01/401).
29 21 08 00	Ram air turbine hub did not unlock when RAT deployed.	FIM 29-21-00/101, Fig. 106, Block 1
29 21 09 00	EICAS message RAT was not displayed with ram air turbine deployed.	FIM 29-21-00/101, Fig. 107, Block 1
29 21 10 00	Ram air turbine UNLKD light did not come on with RAT deployed. EICAS messages RAT and RAT UNLOCKED were not displayed.	Adjust or replace the stowed limit switch, S10258, for the ram air turbine (RAT) (AMM 29-21-17/201).
29 21 11 00	Ram air turbine did not stop deploying when ground manual switch was returned to center-stop position.	FIM 29-21-00/101, Fig. 108, Block 1
29 21 12 00	Ram air turbine did not deploy with ground manual switch in down-deploy position. RAT UNLKD light did not come on. EICAS messages RAT UNLOCKED and RAT were not displayed.	FIM 29-21-00/101, Fig. 109, Block 1
29 21 13 00	EICAS message RAT displayed with ram air turbine retracted. RAT UNLKD light was not on.	FIM 29-21-00/101, Fig. 110, Block 1
29 21 14 00	Ram air turbine UNLKD light was on with RAT retracted. EICAS messages RAT UNLOCKED and RAT were displayed.	Adjust or replace the stowed limit switch, \$10258, for the ram air turbine (RAT) (AMM 29-21-17/201).



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 21 15 00	Ram air turbine did not stop retracting when ground manual switch was returned to center-stop position.	FIM 29-21-00/101, Fig. 108, Block 1
29 21 16 00	Ram air turbine did not fully retract.	FIM 29-21-00/101, Fig. 111, Block 1
29 21 17 00	Ram air turbine did not retract with ground manual switch in up-stow position.	FIM 29-21-00/101, Fig. 112, Block 1
29 21 21 00	Ram air turbine did not deploy when auxiliary No. 2 pitot system was pressurized above 80 knots and system No. 1 air/ground relays simulated in air mode.	FIM 29-21-00/101, Fig. 114, Block 1
29 21 22 00	Ram air turbine did not deploy with deployment switch in DEPLOY position.	FIM 29-21-00/101, Fig. 113, Block 1
29 21 23 00	RAT UNLKD lite on and RAT low press lite on. EICAS msg: RAT UNLOCKED displayed.	FIM 29-21-00/101, Fig. 115, Block 1
29 22 01 00	EICAS message: POWER XFER UNIT displayed.	FIM 29-22-00/101, Fig. 104, Block 1
29 22 02 00	EICAS msg POWER XFER UNIT displayed with PTU sw ON.	FIM 29-22-00/101, Fig. 105, Block 1
29 22 03 00	EICAS msg POWER XFER UNIT displayed with only R eng running.	FIM 29-22-00/101, Fig. 104, Block 1
29 22 04 00	EICAS msg POWER XFER UNIT displayed with only R eng running. PTU did pressurize L hyd system.	FIM 29-22-00/101, Fig. 104, Block 1
29 22 05 00	EICAS msg POWER XFER UNIT displayed with only R eng running. PTU did not pressurize L hyd system.	FIM 29-22-00/101, Fig. 104, Block 3



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 22 06 00	EICAS msg POWER XFER UNIT displayed with the airplane on the ground and both engines off. The left and right hydraulic system pressure was zero.	FIM 29-22-00/101, Fig. 103, Block 1
29 31 01	(01=L,02=R,03=C) hyd press reads zero with normal press. EICAS msg (L,R,C) HYD SYS PRESS displayed.	Replace the pressure transmitter M341 (M343,M342), for the left right, center) hydraulic system (AMM 29-31-01/401).
29 31 02	(01=L,02=R,03=C) Hyd press indication is blank.	Replace the pressure transmitter M341 (M343,M342), for the left (right, center) hydraulic system (AMM 29-31-01/401).
29 31 03	(01=L,02=R,03=C) Hyd press indication is intermittent.	Replace the pressure transmitter M341 (M343,M342), for the left (right, center) hydraulic system (AMM 29-31-01/401).
29 33 01	(01=L,02=R,03=C) Hyd RSVR light on. Qty reads normal. EICAS msg: (L,R,C) HYD QTY displayed.	Replace the hydraulic fluid quantity monitor unit, M122 (AMM 29-33-51/401).
29 33 02	(01=L,02=R,03=C) hyd RSVR lgt failed to come on with qty below 1/2 tank.	Replace the hydraulic fluid quantity monitor unit, M122 (AMM 29-33-51/401).
29 33 03	(01=L,02=R,03=C) hyd qty reads zero, hyd RSVR lgt on. EICAS msg: (L,R,C) HYD QTY displayed. Hydraulic press. is normal.	Replace the hydraulic fluid quantity monitor unit, M122 (AMM 29-33-51/401). If the problem continues, replace the hydraulic fluid quantity transmitter, M338 (M340,M339), for the left (right,center) hydraulic system (AMM 29-33-01/401).
29 33 04	(01=L,02=R,03=C) Hyd qty display is blank.	Inspect system wiring for loose connections and/or chafed wiring. Replace the hydraulic fluid quantity monitor unit, M122 (AMM 29-33-51/401).



FAULT CODE	LOG BOOK REPORT	FAULT ISOLATION REFERENCE
29 33 05	(01=L,02=R,03=C) Hyd qty display is intermittent.	Replace the hydraulic fluid quantity monitor unit, M122 (AMM 29-33-51/401). If the problem continues, replace the hydraulic fluid quantity transmitter, M338 (M340,M339) (AMM 29-33-01/401).
29 33 06	(01=L,02=R,03=C) Hyd qty reads high,	FIM 29-33-00/101, Fig. 103, Block 1
29 33 07	(01=L,02=R,03=C) Hyd qty reads RF.	FIM 29-33-00/101, Fig. 104, Block 1
29 33 09 00	EICAS msg: C HYD QTY O/FULL displayed.	FIM 29-33-00/101, Fig. 103, Block 1
29 33 10 00	EICAS msg: L HYD QTY O/FULL displayed.	FIM 29-33-00/101, Fig. 103, Block 1
29 33 11 00	EICAS msg: R HYD QTY O/FULL displayed.	FIM 29-33-00/101, Fig. 103, Block 1
29 33 12	(01=L,02=R,03=C) Hyd qty inaccurate, reads (high, low),	The hydraulic qty indication is too high, FIM 29-33-00/101, Fig. 103. The hydraulic quantity indication is too low, FIM 29-33-00/101, Fig. 104.
29 35 04	EICAS message: (01=L,02=R,03=C) HYD RSVR PRES displayed. HYD QTY is normal.	FIM 29-35-00/101, Fig. 103, Block 1

ALL



BITE Index

1. General

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

LRU/System Name	<u>Acronym</u>	FIM Reference
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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LRU/System Name	Acronym	FIM Reference
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>	FIM Reference
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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MAIN (LEFT, RIGHT, AND CENTER) HYDRAULIC SYSTEMS

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER - HYD EMP ENABLE C1, C4329 HYD EMP ENABLE R, C4330 HYD EMP ENABLE C2, C4331 CIRCUIT BREAKER - ELEC PUMP C1, C4043 ELEC PUMP C2, C4014 ELEC PUMP RIGHT, C4045 ELEC PUMP RIGHT, C4044 HYDRAULICS ENG PUMP SUPPLY L, C4023 HYDRAULICS ENG PUMP SUPPLY R, C4025 HYDRAULICS QTY CENTER, C4192 HYDRAULICS QTY LEFT, C1101 HYDRAULICS QTY RIGHT, C4193 RESERVE BRAKE SOURCE, C4292 L ENG PUMP DEPRESS, C4024 R ENG PUMP DEPRESS, C4026 SYSTEM PRESS CENTER, C1082 SYSTEM PRESS CENTER, C1081 CIRCUIT BREAKER - (FIM 31-01-31/101) LEFT BUS TIE, C902 CIRCUIT BREAKER - (FIM 31-01-32/101) RIGHT BUS TIE, C904 COMPUTER - (FIM 31-41-00/101) EICAS L, M10181 EICAS R, M10182	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FLIGHT COMPARTMENT, P6 PANEL 6K13 6K14 6K19 FLIGHT COMPARTMENT, P11 PANEL 11K15 11K24 11K25 11K16 11D28 11D29 11K19 11K20 11K21 11K22 11K14 11K22 11K14 11K23 11K18 11K17	* * * * * * * * * * * * * * * * * * * *

^{*} SEE THE WDM EQUIPMENT LIST

Main (Left, Right, and Center) Hydraulic Systems - Component Index Figure 101 (Sheet 1)

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	T			
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CONNECTION - CENTER SYSTEM HYDRAULIC GROUND	7	1	197KL, AFT LEFT WING-TO-BODY	29-11-00
POWER PRESSURE CONNECTION - CENTER SYSTEM HYDRAULIC GROUND	7	1	FAIRING 197KL, AFT LEFT WING-TO-BODY	29-11-00
POWER RETURN CONNECTION - LEFT SYSTEM HYDRAULIC GROUND	2	1	FAIRING 434AL, LEFT NACELLE STRUT-AFT	29-11-00
POWER PRESSURE CONNECTION - LEFT SYSTEM HYDRAULIC GROUND	2	1	FAIRING 434AL, LEFT NACELLE STRUT-AFT FAIRING	29-11-00
POWER RETURN CONNECTION - RIGHT SYSTEM HYDRAULIC GROUND POWER PRESSURE	2	1	444AL, RIGHT NACELLE STRUT-AFT FAIRING	29-11-00
CONNECTION - RIGHT SYSTEM HYDRAULIC GROUND POWER RETURN	2	1	444AL, RIGHT NACELLE STRUT-AFT FAIRING	29-11-00
EXCHANGER - CENTER SYSTEM HEAT	9	1	541BB, LEFT WING	29-11-26
EXCHANGER - LEFT SYSTEM HEAT	9	1 1	541BB, LEFT WING	29-11-26
EXCHANGER - RIGHT SYSTEM HEAT	9	1	641BB, RIGHT WING	29-11-26
JACKS - CENTER HYDRAULIC SYSTEM INTERNAL LEAK TEST, YQZJ7,YQZJ8 1	1	2	FLIGHT COMPARTMENT, P61 PANEL, GENERATOR FIELD AND HYDRAULIC CONTROL PANEL, M10191	*
JACKS - LEFT HYDRAULIC SYSTEM INTERNAL LEAK TEST, YQZJ5,YQZJ6	1	2	FLIGHT COMPARTMENT, P61 PANEL, GENERATOR FIELD AND HYDRAULIC CONTROL PANEL, M10191	*
JACKS - RIGHT HYDRAULIC SYSTEM INTERNAL LEAK TEST, YQZJ9,YQZJ10 1	1	2	FLIGHT COMPARTMENT, P61 PANEL, GENERATOR FIELD AND HYDRAULIC	*
MODULE - RESERVOIR PRESSURIZATION	8	1	CONTROL PANEL, M10191 193HL/194ER, LEFT/RIGHT ECS ACCESS PANELS	29-11-16
MODULE - CENTER SYSTEM ACMP PRESSURE/CASE DRAIN FILTER	7	2	197KL, AFT LEFT WING-TO-BODY FAIRING	29-11-19
MODULE - CENTER SYSTEM RETURN FILTER	7	1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-11-13
MODULE - LEFT SYSTEM ACMP PRESSURE/CASE DRAIN FILTER	4	1	LEFT WHEEL WELL	29-11-18
MODULE - LEFT SYSTEM EDP PRESSURE/CASE DRAIN FILTER	2	1	434AL, LEFT NACELLE STRUT-AFT FAIRING	29-11-17
MODULE - LEFT SYSTEM RETURN FILTER	4	1	LEFT WHEEL WELL	29-11-15
MODULE - RIGHT SYSTEM ACMP PRESSURE/CASE DRAIN FILTER	4	1	RIGHT WHEEL WELL	29-11-18
MODULE - RIGHT SYSTEM EDP PRESSURE/CASE DRAIN FILTER	2	1	444AL, RIGHT NACELLE STRUT-AFT FAIRING	29-11-17
MODULE - RIGHT SYSTEM RETURN FILTER PANEL - (26-21-00/101) ENGINE FIRE CONTROL, M10443	4	1	RIGHT WHEEL WELL	29–11–15
PANEL - (24-22-00/101) GENERATOR FIELD & HYDRAULIC CONTROL, M10191				
PANEL - HYDRAULIC CONTROL, M10050 PUMP (ACMP) - CENTER SYSTEM ALTERNATING	1 7	1 1	FLIGHT COMPARTMENT, P5 PANEL 197KL, AFT LEFT WING-TO-BODY	29-11-00 29-11-02
CURRENT MOTOR C1, M10029 PUMP (ACMP) - CENTER SYSTEM ALTERNATING	7	1	FAIRING 197KL, AFT LEFT WING-TO-BODY	
CURRENT MOTOR C2, M10030		•	FAIRÍNG	29-11-02
PUMP (ACMP) - LEFT SYSTEM ALTERNATING CURRENT MOTOR, M231	4	1	LEFT WHEEL WELL	29-11-01
PUMP (ACMP) - RIGHT SYSTEM ALTERNATING CURRENT MOTOR, M234	4	1	RIGHT WHEEL WELL	29-11-01
PUMP (EDP) - LEFT SYSTEM ENGINE DRIVEN	2	1	413AL/414AR, LEFT ENGINE	29-11-05
PUMP (EDP) - RIGHT SYSTEM ENGINE DRIVEN	2	1	423AL/424AR, RIGHT ENGINE	29-11-05

^{*} SEE THE WDM EQUIPMENT LIST

Main (Left,Right, and Center) Hydraulic Systems - Component Index Figure 101 (Sheet 2)

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAY - (31-01-31/101) LEFT AUTO LAND, K526 RELAY - (31-01-32/101) RIGHT AUTO LAND, K527 RELAY - (31-01-33/101) LEFT SYSTEM ACMP CONTROL, K10253 RELAYS - (31-01-36/101) CENTER SYSTEM ACMP C1 CONTROL, K10404 CENTER SYSTEM ACMP C2 CONTROL, K10404 CENTER SYSTEM ACMP C2 CONTROL, K10526 CENTER SYSTEM ACMP C2 CONTROL, K10527 RIGHT SYSTEM ACMP C2 ENABLE, K10527 RIGHT SYSTEM ACMP CONT, K10255 RIGHT SYSTEM ACMP CONT, K10255 RELAY - (31-01-37/101) RESERVE BRAKE CONTROL, K10426 RESERVOIR - LEFT SYSTEM HYDRAULIC RESERVOIR - LEFT SYSTEM HYDRAULIC RESERVOIR - RIGHT SYSTEM HYDRAULIC SWITCH - RESERVE BRAKES, S10390 SWITCHES - (26-21-00/101) LEFT ENGINE FIRE, YQNS37 RIGHT ENGINE FIRE, YQNS38 SWITCH/LIGHT - CENTER SYSTEM ACMP C1, YQTS2 SWITCH/LIGHT - CENTER SYSTEM ACMP, YQTS5 SWITCH/LIGHT - LEFT SYSTEM ACMP, YQTS5 SWITCH/LIGHT - RIGHT SYSTEM ACMP, YQTS6 SWITCH/LIGHT - RIGHT SYSTEM ACMP, YQTS6 SWITCH/LIGHT - RIGHT SYSTEM ACMP, YQTS6 SWITCH/LIGHT - RIGHT SYSTEM ACMP, YQTS6 SWITCH/LIGHT - RIGHT SYSTEM ACMP, M500 TRANSFORMERS - (31-01-33/101) CENTER SYSTEM HYDRAULIC LEAK DETECTION CURRENT, T155 TRANSFORMER - (31-01-32/101) LEFT SYSTEM HYDRAULIC LEAK DETECTION CURRENT, T156 TRANSFORMER - (31-01-32/101) LEFT SYSTEM HYDRAULIC LEAK DETECTION CURRENT, T156 TRANSFORMER - (31-01-32/101) LEFT SYSTEM HYDRAULIC LEAK DETECTION CURRENT, T156 TRANSFORMER - (31-01-32/101)	7 5 5 1 1 1 1 1	1 1 1 1 1 1 1 1	197KL, AFT LEFT WING-TO-BODY FAIRING LEFT WHEEL WELL RIGHT WHEEL WELL FLIGHT COMPARTMENT, P1 PANEL FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	29-11-21 29-11-20 29-11-20 * * * * * *

^{*} SEE THE WDM EQUIPMENT LIST

Main (Left,Right, and Center) Hydraulic Systems - Component Index Figure 101 (Sheet 3)

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
UNITS - (31-01-31/101) CENTER SYSTEM ACMP C1 ELECTRICAL LOAD CONTROL, M10006 RIGHT SYSTEM ACMP ELECTRICAL LOAD CONTROL, M10005				
UNITS - (31-01-32/101) CENTER SYSTEM ACMP C2 ELECTRICAL LOAD CONTROL, M10022 LEFT SYSTEM ACMP ELECTRICAL LOAD CONTROL, M10001				
VALVE - CENTER SYSTEM RESERVOIR DRAIN	7	1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-11-22
VALVE - CENTER SYSTEM RESERVOIR PRESSURE RELIEF	7	1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-11-24
VALVE - CENTER SYSTEM RESERVOIR MANUAL DEPRESSURIZATION	7	1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-11-25
VALVE - CENTER SYSTEM RESERVOIR SAMPLING	7	1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-11-23
VALVE - LEFT SYSTEM EDP SUPPLY SHUTOFF, V10005	2	1	434AL, LEFT NACELLE STRUT-AFT FAIRING,	29-11-06
VALVE - LEFT SYSTEM PRESSURE RELIEF	6	1	LEFT WHEEL WELL	29-11-29
VALVE - LEFT SYSTEM RESERVOIR DRAIN	6	1	LEFT WHEEL WELL	29-11-22
VALVE - LEFT SYSTEM RESERVOIR MANUAL DEPRESSURIZATION	6	1	RIGHT WHEEL WELL	29-11-25
VALVE - LEFT SYSTEM RESERVOIR PRESSURE RELIEF	6	1	LEFT WHEEL WELL	29-11-24
VALVE - LEFT SYSTEM RESERVOIR SAMPLING	6	1	LEFT WHEEL WELL	29-11-23
VALVE - RIGHT SYSTEM EDP SUPPLY SHUTOFF, V10006	2	1	444AL, RIGHT NACELLE STRUT-AFT FAIRING	29-11-06
VALVE - RIGHT SYSTEM ISOLATED ACMP PRESSURE SHUTOFF, V10118	4	1	RIGHT WHEEL WELL	29-11-28
VALVE - RIGHT SYSTEM ISOLATED ACMP SUPPLY SHUTOFF, V10117	5	1	RIGHT WHEEL WELL	29-11-27
VALVE - RIGHT SYSTEM PRESSURE RELIEF	6	1	RIGHT WHEEL WELL	29-11-29
VALVE - RIGHT SYSTEM RESERVOIR DRAIN	6	1	RIGHT WHEEL WELL	29-11-22
VALVE - RIGHT SYSTEM RESERVOIR MANUAL DEPRESSURIZATION	6	1	LEFT WHEEL WELL	29-11-25
VALVE - RIGHT SYSTEM RESERVOIR PRESSURE RELIEF	6	1	RIGHT WHEEL WELL	29-11-24
VALVE - RIGHT SYSTEM RESERVOIR SAMPLING	6	1	RIGHT WHEEL WELL	29-11-23

1>> GUI 115

Main (Left,Right, and Center) Hydraulic Systems - Component Index Figure 101 (Sheet 4)

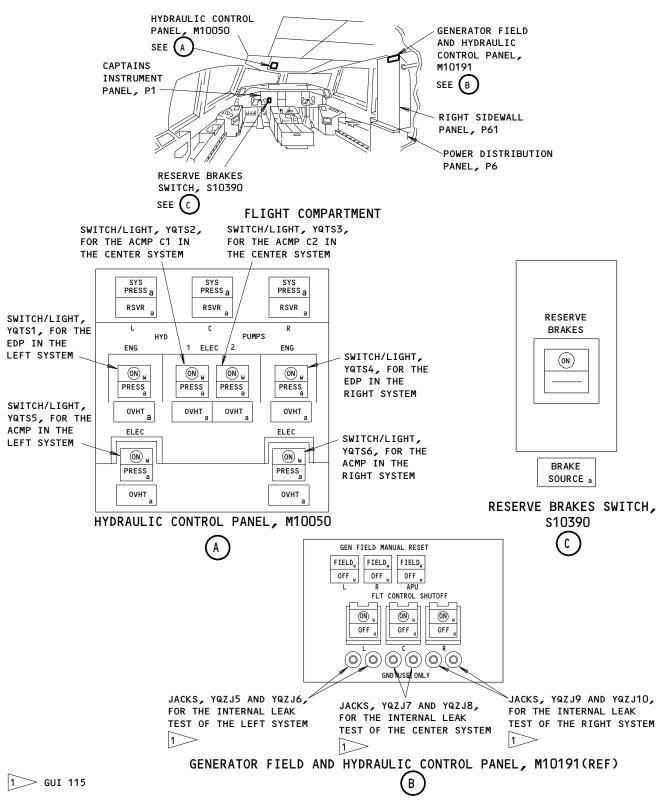
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Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 1)

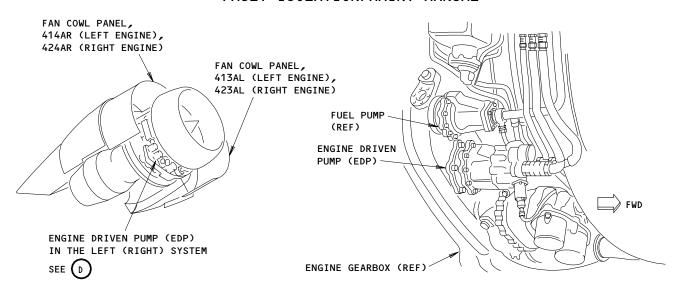
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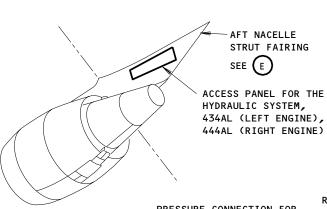
O4 Page 105
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FAULT ISOLATION/MAINT MANUAL



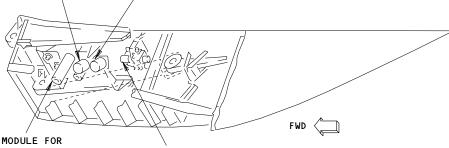


ENGINE DRIVEN PUMP (EDP) IN THE LEFT (RIGHT) SYSTEM



PRESSURE CONNECTION FOR THE GROUND POWER IN THE LEFT (RIGHT) SYSTEM

RETURN CONNECTION FOR THE GROUND POWER IN THE LEFT (RIGHT) SYSTEM



FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE EDP IN THE LEFT (RIGHT) SYSTEM SEE (F) SHT 3

SUPPLY SHUTOFF VALVE, V10005 (V10006), FOR THE EDP IN THE LEFT (RIGHT) SYSTEM SEE (G) SHT 3

AFT NACELLE STRUT FAIRING (EXAMPLE)



Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 2)

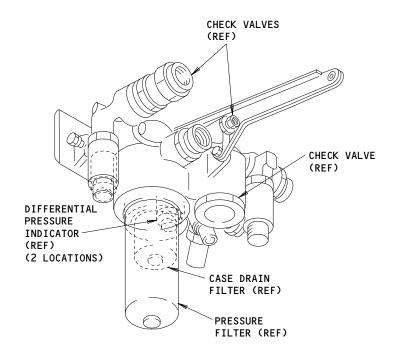
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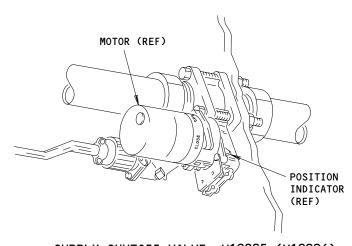
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FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE EDP IN THE LEFT (RIGHT) SYSTEM





SUPPLY SHUTOFF VALVE, V10005 (V10006), FOR THE EDP IN THE LEFT (RIGHT) SYSTEM



Main (Left, Right, and Center) Hydraulic Systems - Component Location (Details from Sht 2) Figure 102 (Sheet 3)

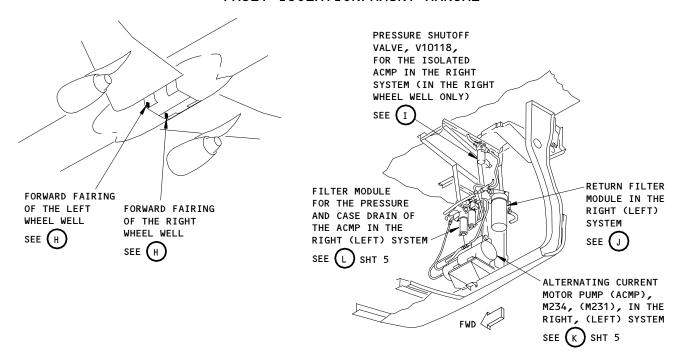
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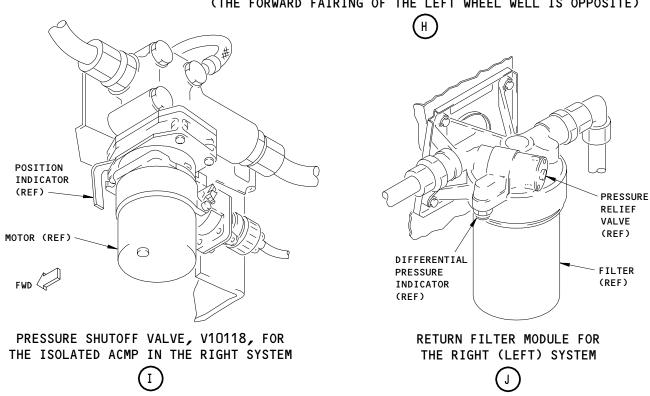
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FAULT ISOLATION/MAINT MANUAL



FORWARD FAIRING OF THE RIGHT WHEEL WELL (THE FORWARD FAIRING OF THE LEFT WHEEL WELL IS OPPOSITE)



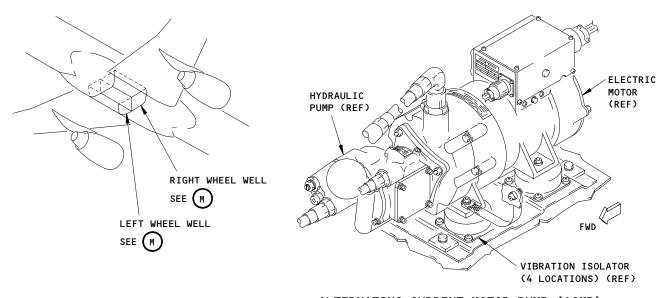
Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 4)

ALL

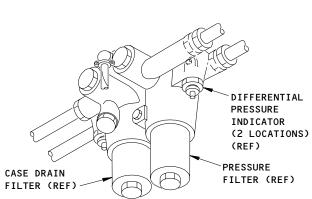
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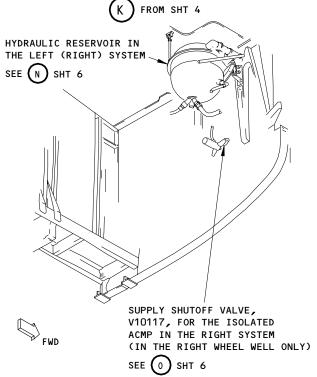






FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE ACMP IN THE LEFT (RIGHT) SYSTEM

L FROM SHT 4



RIGHT WHEEL WELL

(THE LEFT WHEEL WELL IS OPPOSITE)

M

Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 5)

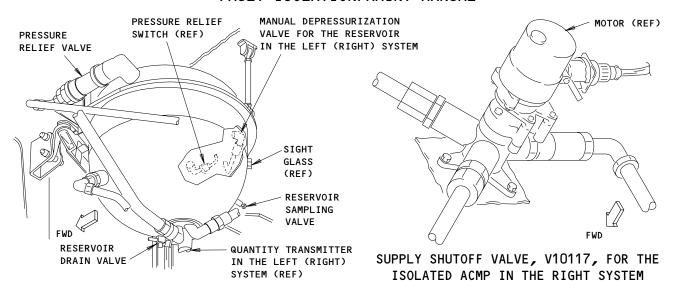
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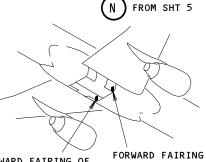
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FAULT ISOLATION/MAINT MANUAL



HYDRAULIC RESERVOIR IN THE LEFT (RIGHT) SYSTEM

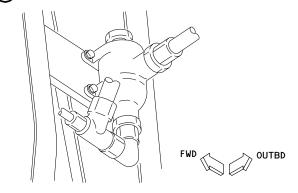


FORWARD FAIRING OF THE LEFT WHEEL WELL

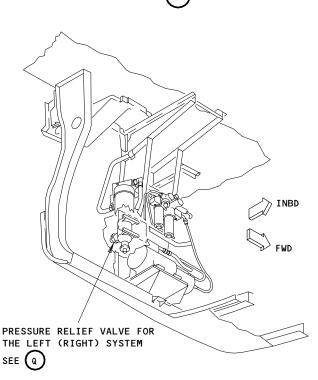
SEE (P)

FORWARD FAIRING OF THE RIGHT WHEEL WELL

SEE (P)



PRESSURE RELIEF VALVE FOR THE LEFT (RIGHT) SYSTEM



FROM SHT 5

FORWARD FAIRING OF THE LEFT WHEEL WELL
(THE FORWARD FAIRING OF THE RIGHT
WHEEL WELL IS OPPOSITE)

P

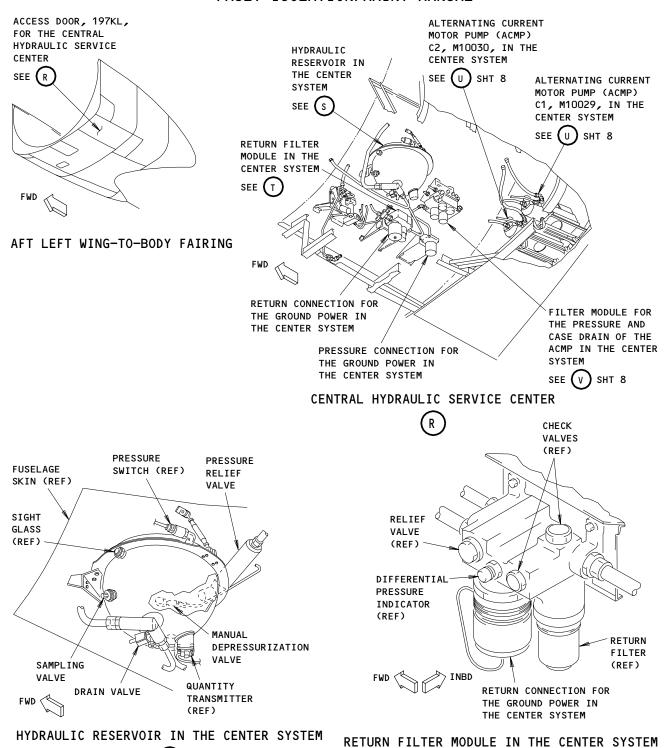
Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 6)

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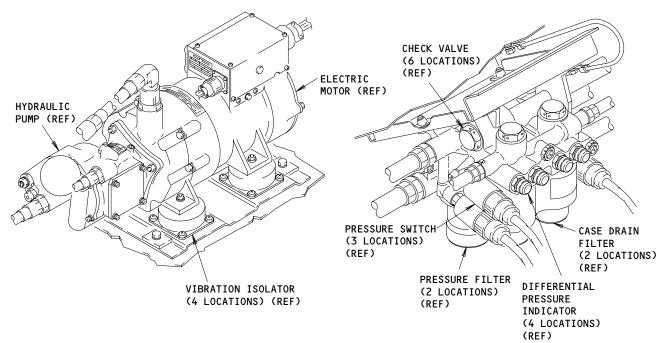


Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 7)

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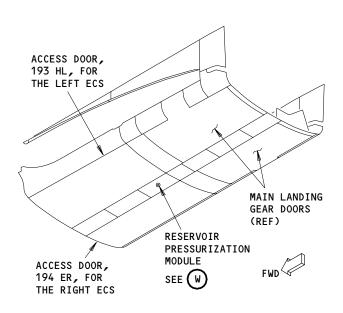


ALTERNATING CURRENT MOTOR
PUMP (ACMP) C1, M10029 OR C2, M10030,
IN THE CENTER SYSTEM

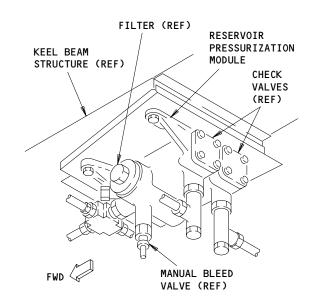
U) FROM SHT 7

FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE ACMP IN THE CENTER SYSTEM

V FROM SHT 7



WING-TO-BODY FAIRING



RESERVOIR PRESSURIZATION MODULE

 (W)

Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 8)

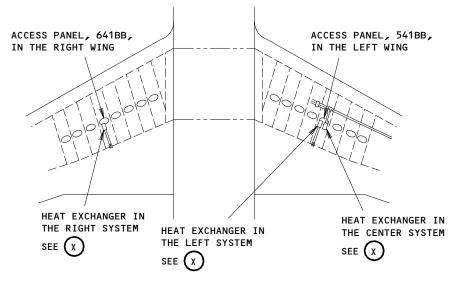
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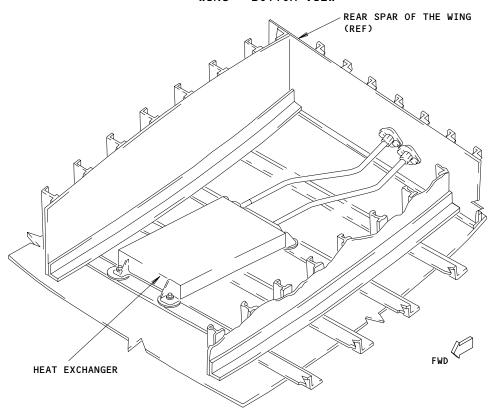
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WING - BOTTOM VIEW



HEAT EXCHANGER (EXAMPLE)
(THE TOP SKIN OF THE WING IS NOT SHOWN)



Main (Left, Right, and Center) Hydraulic Systems - Component Location Figure 102 (Sheet 9)

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Not Used Figure 103

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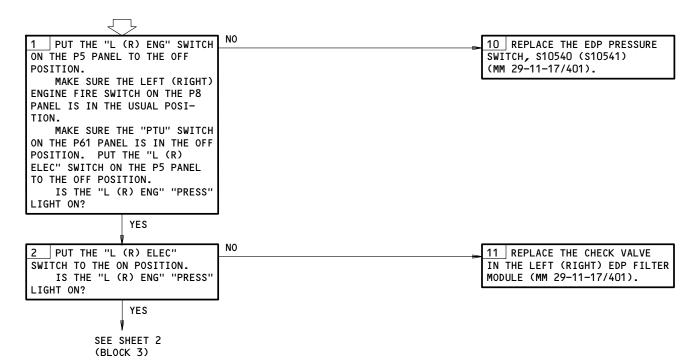
PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K14,11K14,11K16,11K23,11K25

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

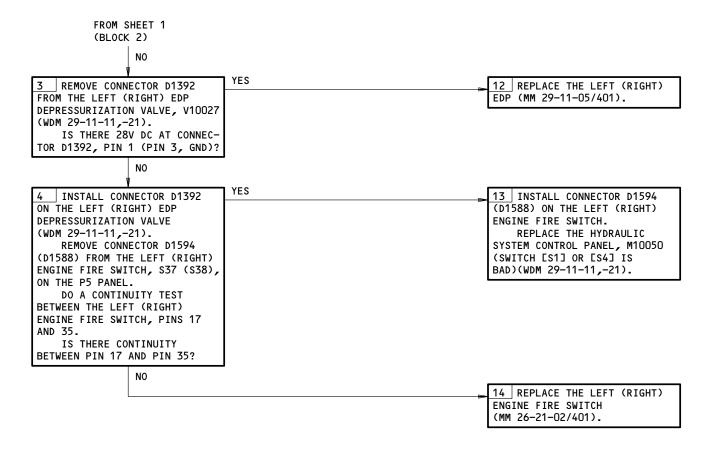
ELECTRICAL POWER IS ON (MM 24-22-00/201) THE TWO ENGINES ARE OFF (MM 71-00-00/201)

LEFT/RIGHT EDP FAILED TO DEPRESSURIZE



Left/Right EDP Failed to Depressurize Figure 104 (Sheet 1)

29-11-00



Left/Right EDP Failed to Depressurize Figure 104 (Sheet 2)

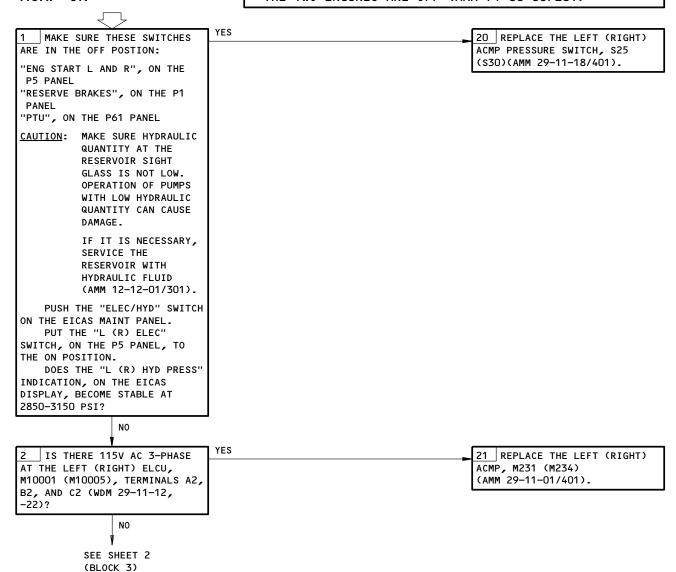


LEFT/RIGHT ACMP LOW PRESSURE LIGHT ILLUMINATED WITH ACMP ON

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K14, 11K16, 11K17, 11K25, 11K26

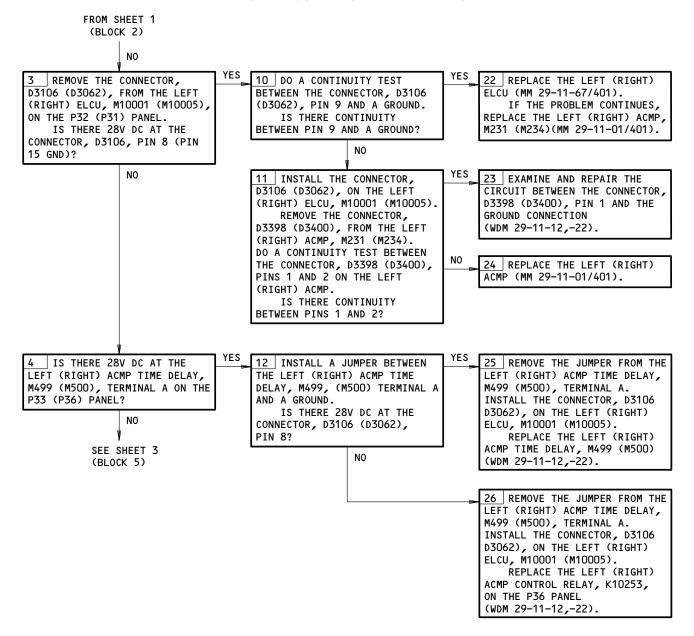
MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: ELECTRICAL POWER IS ON (AMM 24-22-00/201) THE TWO ENGINES ARE OFF (AMM 71-00-00/201)



Left/Right ACMP Low Pressure Light Illuminated with ACMP On Figure 105 (Sheet 1)

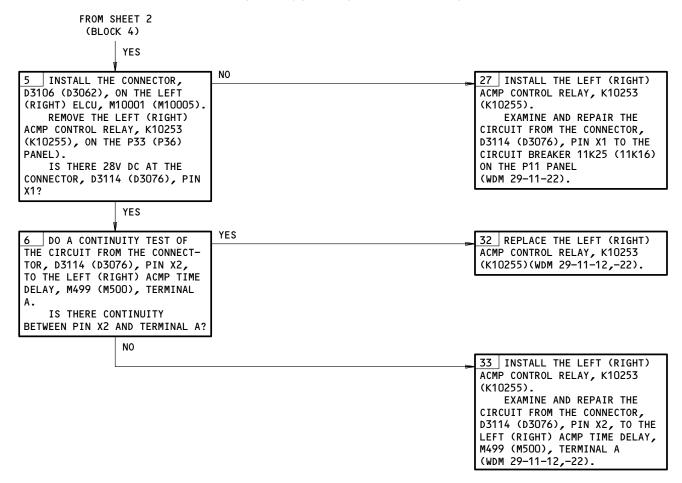
EFFECTIVITY-ALL

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Left/Right ACMP Low Pressure Light Illuminated with ACMP On Figure 105 (Sheet 2)

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Left/Right ACMP Low Pressure Light Illuminated with ACMP On Figure 105 (Sheet 3)

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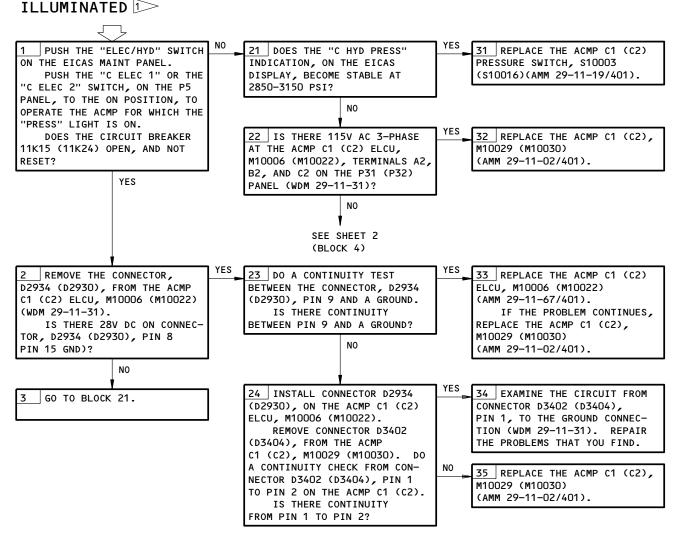
PREREQUISITES

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K13, 6K19, 11K15, 11K24, 11K18

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

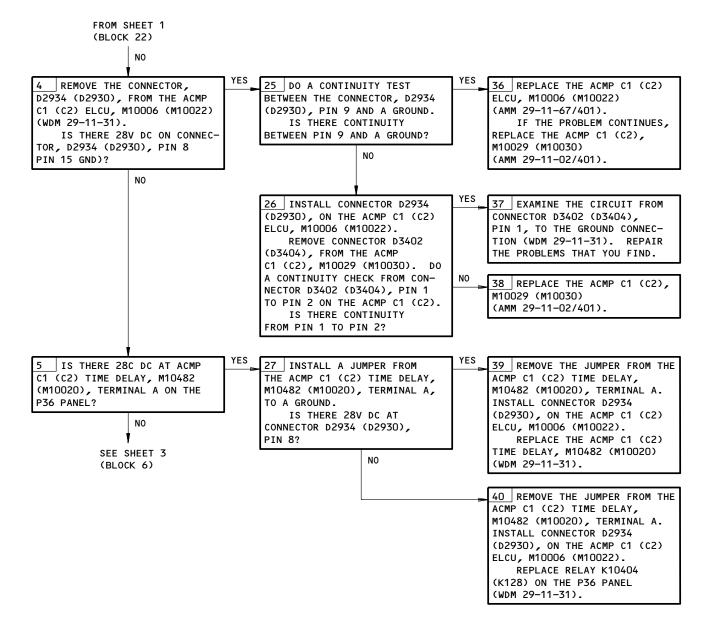
CENTER ACMP LOW PRESSURE LIGHT



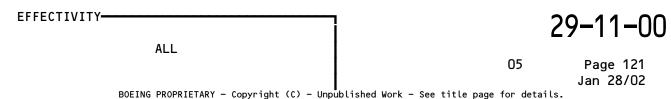
IF CENTER ACMP 1 LOW PRESSURE LIGHT ILLUMINATED ON DESCENT AT 1500 FT. R.A, WHEN DOING AN AUTOLAND APPROACH, AND ACMP 1 OPERATION IS OTHERWISE NORMAL, REPLACE K10526 (HYD EMPENABLE RELAY, C1) IN THE P36 PANEL.

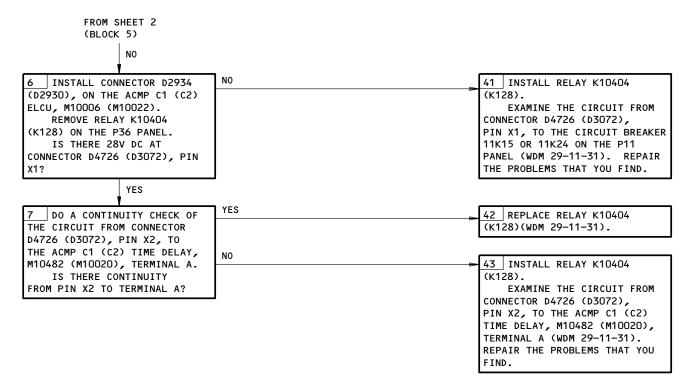
Center ACMP Low Pressure Light Illuminated Figure 106 (Sheet 1)





Center ACMP Low Pressure Light Illuminated Figure 106 (Sheet 2)





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PREREQUISITES

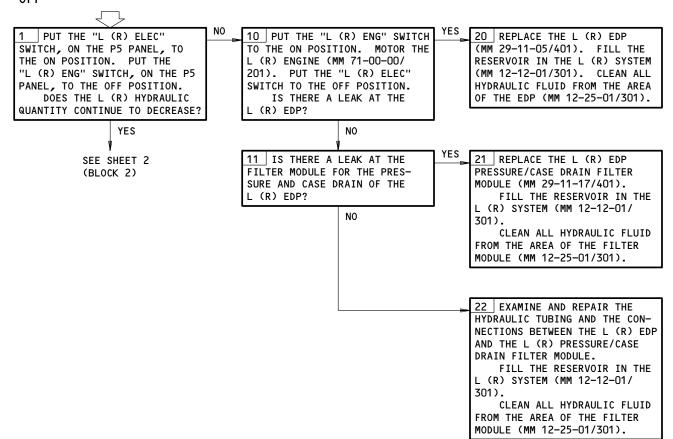
MAKE SURE THIS SYSTEM WILL OPERATE: EICAS (MM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K14,11K16,11K20,11K21,11K25

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

LEFT OR RIGHT HYDRAULIC QUANTITY DECREASING REMAINED STABLE WITH EDP DEPRESSURIZED AND ACMP OFF



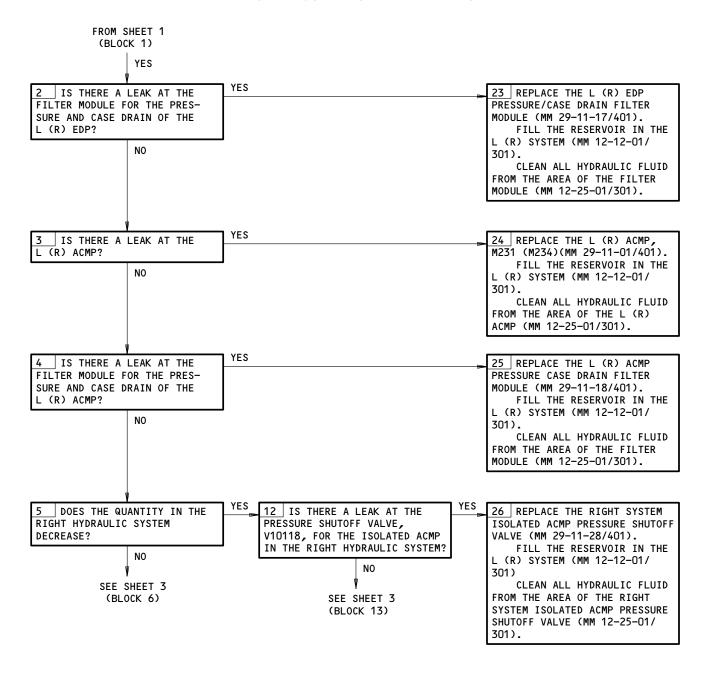
Left or Right Hydraulic Quantity Decreasing Remained Stable with EDP

Depressurized and ACMP Off

Figure 107 (Sheet 1)

EFFECTIVITY ALL

29-11-00

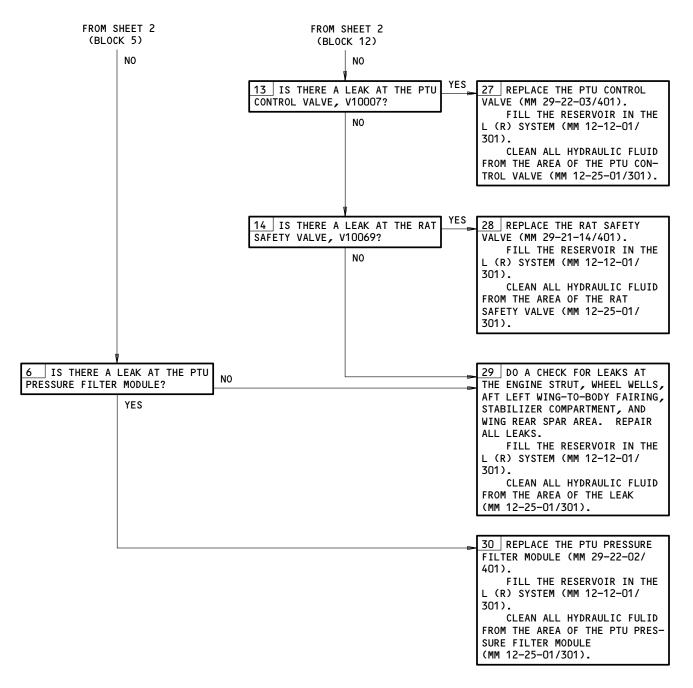


Left or Right Hydraulic Quantity Decreasing Remained Stable with EDP

Depressurized and ACMP Off

Figure 107 (Sheet 2)





Left or Right Hydraulic Quantity Decreasing Remained Stable with EDP

Depressurized and ACMP Off

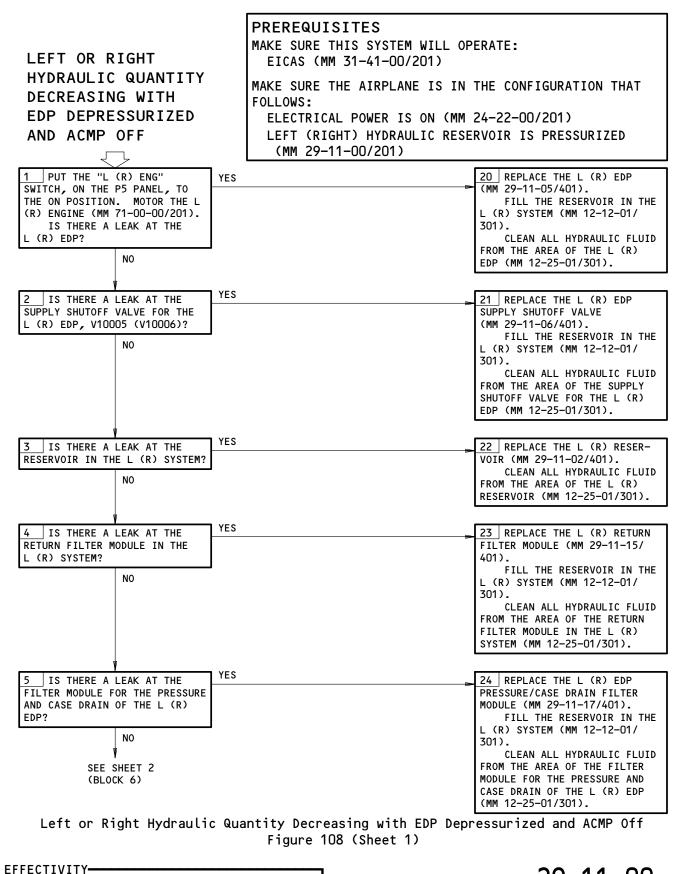
Figure 107 (Sheet 3)

ALL

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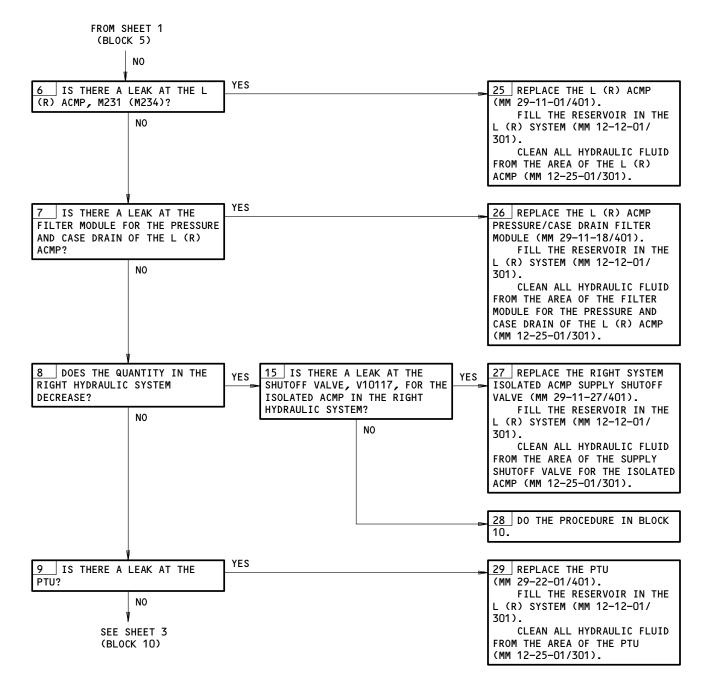
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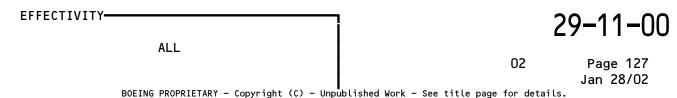
100

ALL

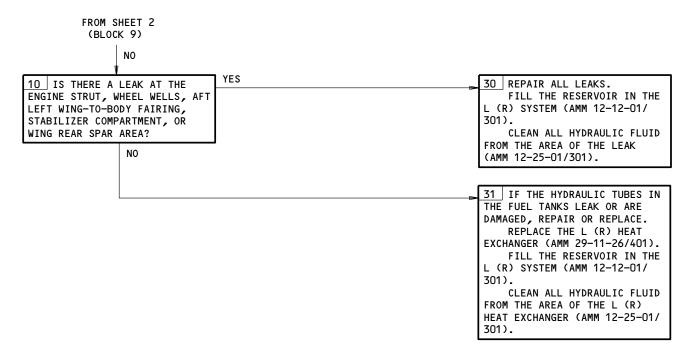




Left or Right Hydraulic Quantity Decreasing with EDP Depressurized and ACMP Off Figure 108 (Sheet 2)







Left or Right Hydraulic Quantity Decreasing with EDP Depressurized and ACMP Off Figure 108 (Sheet 3)

ALL

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LEFT OR RIGHT
HYDRAULIC QUANTITY
INDICATES ZERO,
"L (R) HYD QTY"
MESSAGE DISPLAYED

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11K14,11K20,11K21,11K232,11D28,11D29

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

NO DO A CHECK OF THE COAXIAL FILL THE RESERVOIR IN THE L (R) SYSTEM UNTIL THE FLUID CABLE BETWEEN THE HYDRAULIC QUANTITY MONITOR UNIT, M122, LEVEL IS AT THE CENTER OF THE RESERVOIR SIGHT GLASS AND THE HYDRAULIC QUANTITY TRANSMITTER, M338 (M340), FOR (AMM 12-12-01/301).PUSH THE "ELEC/HYD" SWITCH A GOOD GROUND (WDM 29-33-11). ON THE EICAS MAINT PANEL ON IF THE PROBLEM CONTINUES, P61 PANEL. REPLACE THE HYDRAULIC QUANTITY MONITOR UNIT, M122 IS THE "L (R) HYD QTY" INDICATION ON THE EICAS (AMM 29-33-51/401).DISPLAY 1.00 ±0.08? PUSH THE "ELEC/HYD", AND THE "AUTO-EVENT READ" SWITCHES YES ON THE EICAS MAINT PANEL ON THE P61 PANEL. PUSH AND HOLD THE ERASE SWITCH FOR 3 SECONDS. MAKE SURE THE "L (R) HYD QTY" AND THE "L (R) HYD SYS PRESS" MESSAGES DO NOT SHOW ON THE EICAS DISPLAY. IF THE PROBLEM CONTINUES, REPLACE THE L (R) HYDRAULIC QUANTITY TRANSMITTER, M338 (M340)(AMM 29-33-01/401). YES 7 DO THE PROCEDURE IN 2 PRESSURIZE THE RESERVOIR IN THE L (R) SYSTEM FIG. 108. (AMM 29-11-00/201). PUSH THE "ELEC/HYD" AND PUT THE "L (R) ENG" AND THE "AUTO-EVENT READ" SWITCHES THE "L (R) ELEC" SWITCHES, ON ON THE EICAS MAINT PANEL ON THE P5 PANEL, TO THE OFF POSI-THE P61 PANEL. PUSH AND HOLD TION. THE ERASE SWITCH FOR MOTOR THE ENGINE 3 SECONDS. MAKE SURE THE (AMM 71-00-00/201). "L (R) HYD QTY" AND THE "L (R) HYD SYS PRESS" MESSAGES DO NOT DOES THE QUANTITY IN THE L (R) SYSTEM DECREASE? SHOW ON THE EICAS DISPLAY. NO 8 DO THE PROCEDURE IN PUSH THE "ELEC/HYD" AND THE "AUTO-EVENT READ" SWITCHES ON THE EICAS MAINT PANEL ON THE P61 PANEL. PUSH AND HOLD THE ERASE SWITCH FOR 3 SECONDS. MAKE SURE THE "L (R) HYD QTY" AND THE "L (R) HYD SYS PRESS" MESSAGES DO NOT SHOW ON THE EICAS DISPLAY.

Left or Right Hydraulic Quantity Indicates Zero, L (R) HYD QTY Message Displayed Figure 109

EFFECTIVITY ALL

29-11-00

02

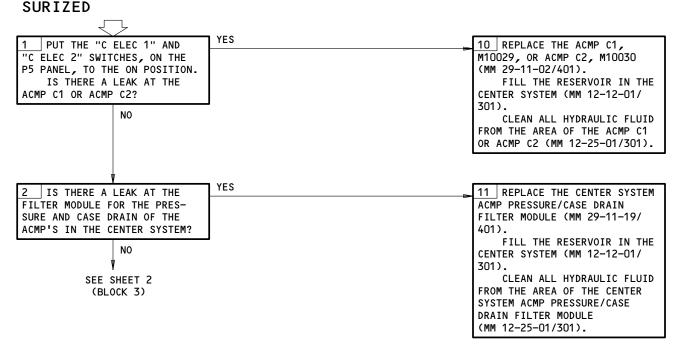
Page 129 Jan 28/02



CENTER HYDRAULIC QUANTITY DECREASING, REMAINED STABLE WITH SYSTEM DEPRES- MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K13,6K19,11K15,11K19,11K24

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

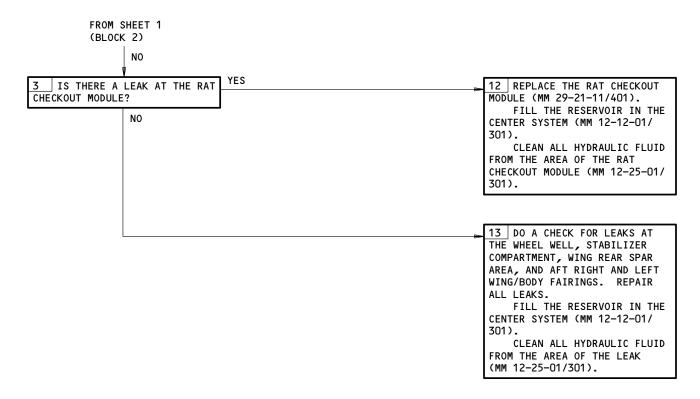


Center Hydraulic Quantity Decreasing, Remained Stable with System Depressurized Figure 110 (Sheet 1)

29-11-00

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Center Hydraulic Quantity Decreasing, Remained Stable with System Depressurized Figure 110 (Sheet 2)

ALL

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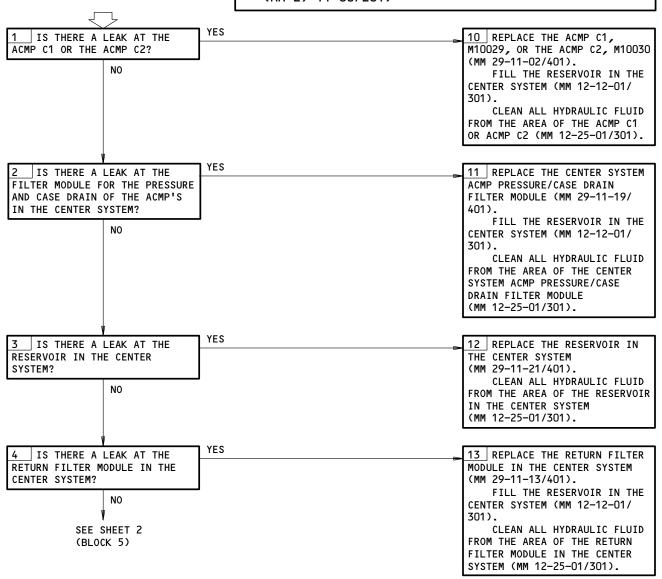
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CENTER HYDRAULIC QUANTITY DECREASING WITH SYSTEM DEPRESSURIZED

PREREQUISITES

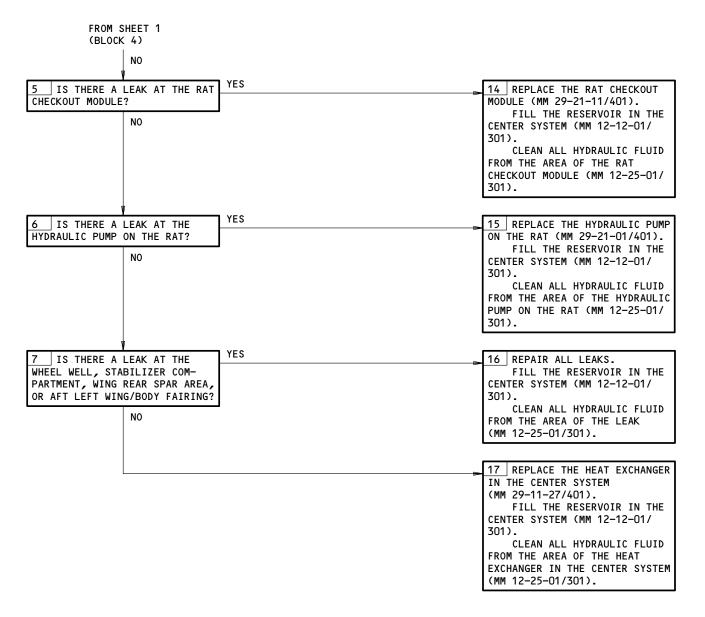
MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



Center Hydraulic Quantity Decreasing with System Depressurized Figure 111 (Sheet 1)





Center Hydraulic Quantity Decreasing with System Depressurized Figure 111 (Sheet 2)

ALL

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K13,6K19,11K15,11K19,11K24

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

CENTER HYDRAULIC QUANTITY INDICATES ZERO, "C HYD QTY" MESSAGE DISPLAYED

TILL THE RESERVOIR IN THE CENTER SYSTEM UNTIL THE FLUID LEVEL IS AT THE CENTER OF THE RESERVOIR SIGHT GLASS (MM 12-12-01/301). PUSH THE "ELEC/HYD" SWITCH ON THE EICAS MAINT PANEL.

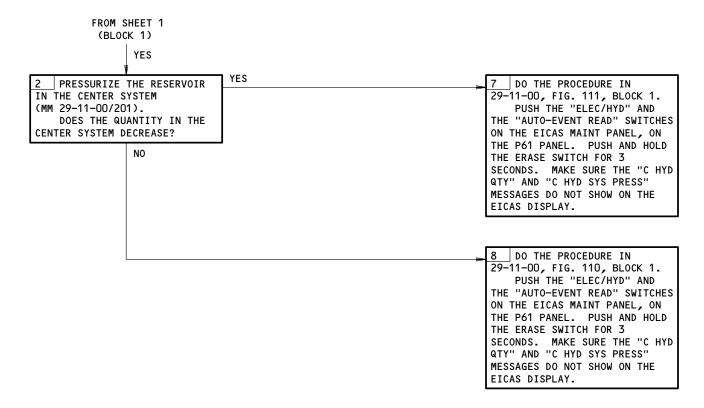
IS THE "C HYD QTY" INDICATION ON THE EICAS DISPLAY 1.00 ±0.14?

NO

SEE SHEET 2 (BLOCK 2) 6 REPLACE THE HYDRAULIC QUANTITY MONITOR UNIT, M122 (MM 29-33-51/401).PUSH THE "ELEC/HYD" AND THE "AUTO-EVENT READ" SWITCHES ON THE EICAS MAINT PANEL, ON THE P61 PANEL. PUSH AND HOLD THE ERASE SWITCH FOR 3 SECONDS. MAKE SURE THE "C HYD QTY" AND "C HYD SYS PRESS" MESSAGES DO NOT SHOW ON THE EICAS DISPLAY. IF THE PROBLEM CONTINUES, REPLACE THE HYDRAULIC QUANTITY TRANSMITTER, M339, ON THE RESERVOIR IN THE CENTER SYSTEM (MM 29-33-01/401). IF THE PROBLEM CONTINUES, DO A CHECK OF THE COAXIAL CABLE BETWEEN THE HYDRAULIC QUANTITY MONITOR UNIT, M122, AND THE HYDRAULIC QUANTITY TRANSMITTER, M339, FOR A GOOD GROUND (WDM 29-33-11).

Center Hydraulic Quantity Indicates Zero, C HYD QTY Message Displayed Figure 112 (Sheet 1)





Center Hydraulic Quantity Indicates Zero, C HYD QTY Message Displayed Figure 112 (Sheet 2)

ALL

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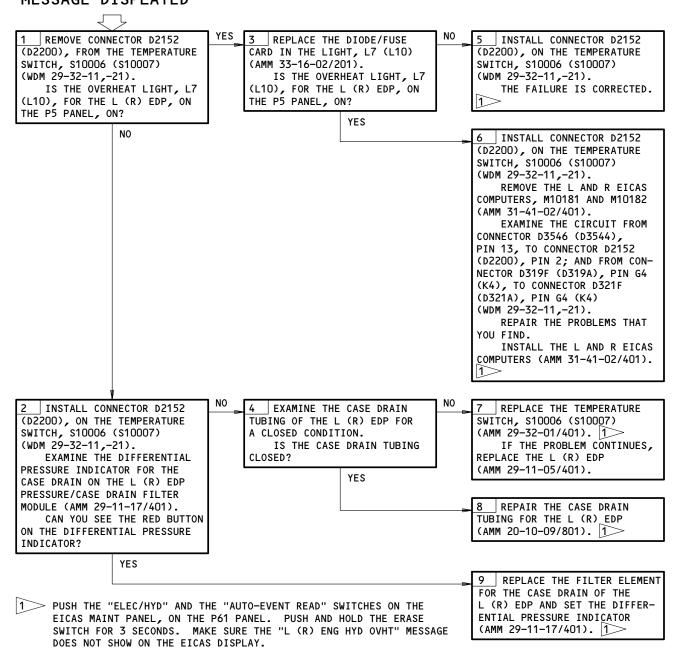
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LEFT (RIGHT) EDP OVERHEAT LIGHT ILLUMINATED, "L (R) ENG HYD OVHT" EICAS MESSAGE DISPLAYED

PREREQUISITES

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

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



Left (Right) EDP Overheat Light Illuminated, L (R) ENG HYD OVHT

EICAS Message Displayed

Figure 113

ALL 29-11-00

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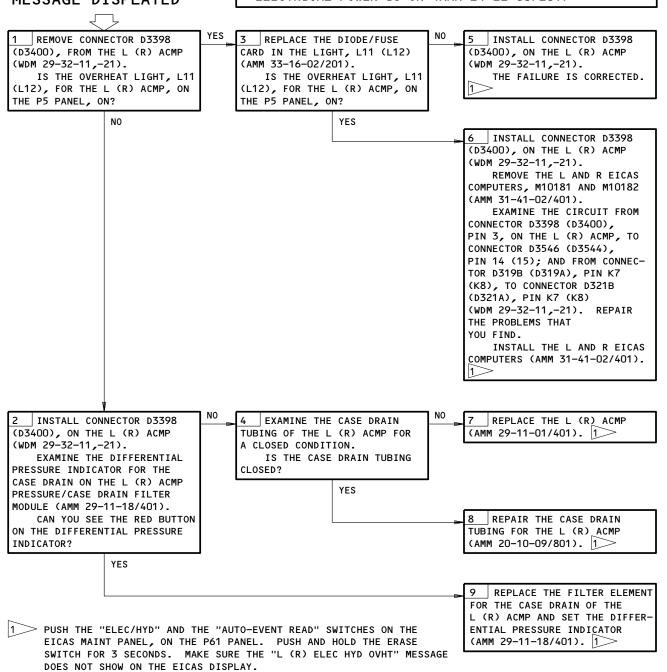


LEFT (RIGHT) ACMP OVERHEAT LIGHT ILLUMINATED, "L (R) ELEC HYD OVHT" EICAS MESSAGE DISPLAYED

PREREQUISITES

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

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



Left (Right) ACMP Overheat Light Illuminated, L (R) ELEC HYD OVHT EICAS

Message Displayed

Figure 114

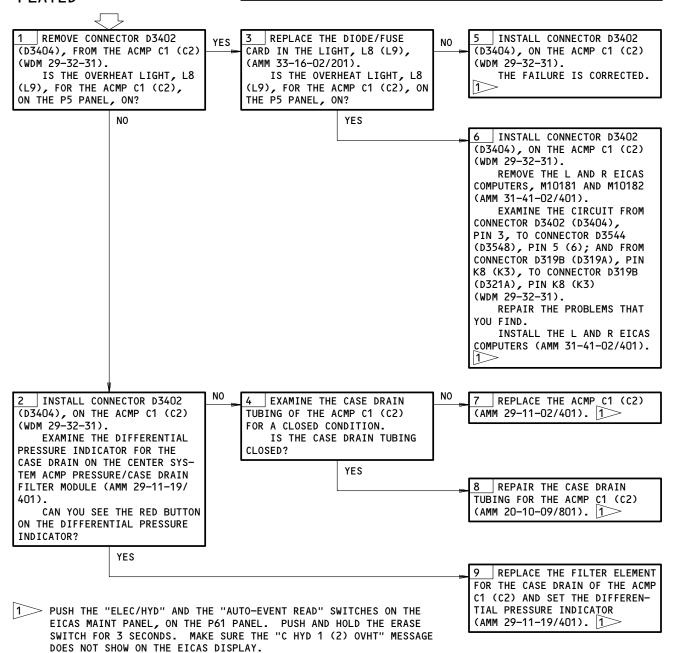
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C1 (C2) ACMP OVHT LIGHT ILLUMINATED, "C HYD 1 (2) OVHT" EICAS MESSAGE DIS-PLAYED

PREREQUISITES

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

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



C1 (C2) ACMP Ovht Light Illuminated, C HYD 1 (2) OVHT EICAS Message Displayed
Figure 115

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K14,11K16,11K17,11K25,11K26

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

ELECTRICAL POWER IS ON (MM 24-22-00/201)
THE TWO ENGINES ARE OFF (MM 71-00-00/201)

"L (R) HYD SYS MAINT" EICAS MESSAGE ILLUM

YES MAKE SURE THESE SWITCHES 10 DISCONNECT THE HYDRAULIC ARE IN THE OFF POSITION: SERVICE CART FROM THE L (R) HYDRAULIC SYSTEM (MM 29-11-00/ "RESERVE BRAKES" ON THE P1 201). REPLACE THE L (R) SYS-PANEL TEM PRESSURE TRANSMITTER, M341 "PTU" ON THE P61 PANEL (M343)(MM 29-31-01/401). "L (R) ELEC" ON THE P5 PANEL 1>|2> CONNECT THE HYDRAULIC SERVICE CART TO THE L (R) SYS-TEM. OPERATE THE HYDRAULIC SERVICE CART TO PRESSURIZE THE L (R) SYSTEM TO 2900 PSI (MM 29-11-00/201). DO THE EICAS ENGINE SHUT-DOWN INHIBIT REMOVAL PROCEDURE (MM 31-41-00/201). AFTER 3 MINUTES, ERASE THE EICAS MES-SAGES (31-41-00, FIG. 109). DOES THE "L (R) HYD SYS MAINT" STATUS MESSAGE COME BACK AFTER ONE MINUTE? NO NO 2 OPERATE THE HYDRAULIC SERVICE CART TO DECREASE THE PRESSURE IN THE L (R) SYSTEM TO 2750 PSI. DOES THE "L (R) HYD SYS MAINT" STATUS MESSAGE COME BACK AFTER ONE MINUTE? YFS SEE SHEET 2 (BLOCK 3)

1 ERASE THE "L (R) HYD SYS MAINT" MESSAGE (31-41-00, FIG. 109)

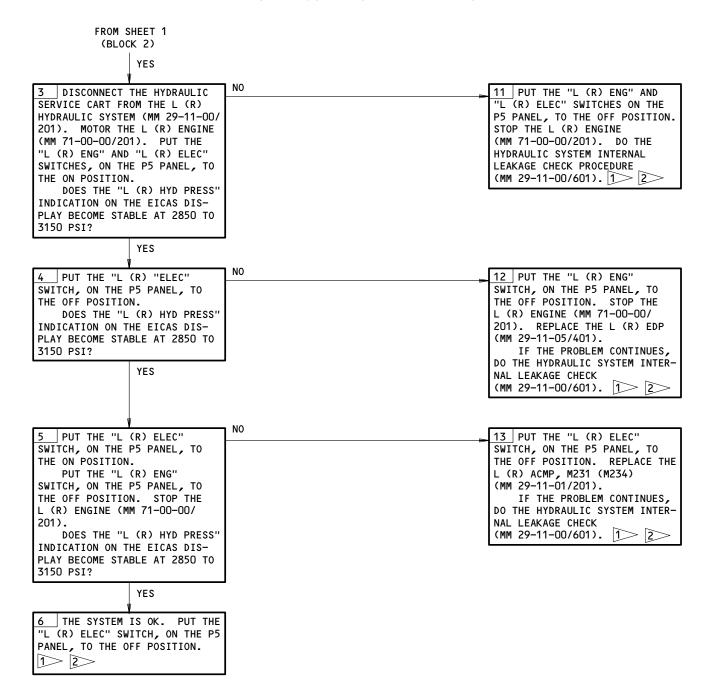
2 PUT THE EICAS ENGINE SHUTDOWN INHIBIT BACK TO ITS USUAL CONDITION (MM 31-41-00/201)

L (R) HYD SYS MAINT EICAS Message Illuminated Figure 116 (Sheet 1)

29-11-00

02

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L (R) HYD SYS MAINT EICAS Message Illuminated Figure 116 (Sheet 2)





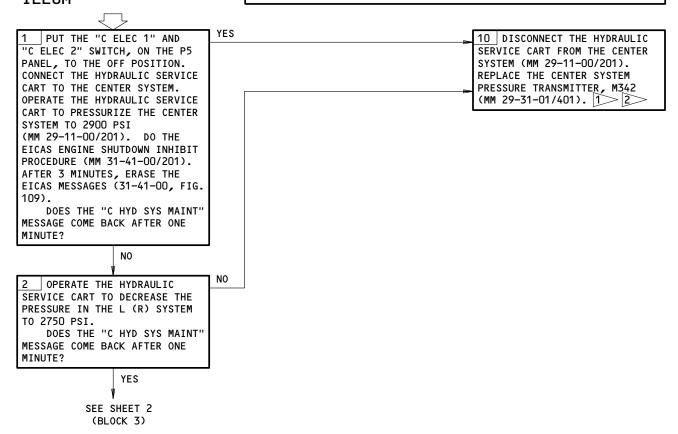
MAKE SURE THIS SYSTEM WILL OPERATE: EICAS (MM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K13,6K19,11K15,11K18,11K24,11K26

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

"C HYD SYS MAINT" EICAS MESSAGE ILLUM



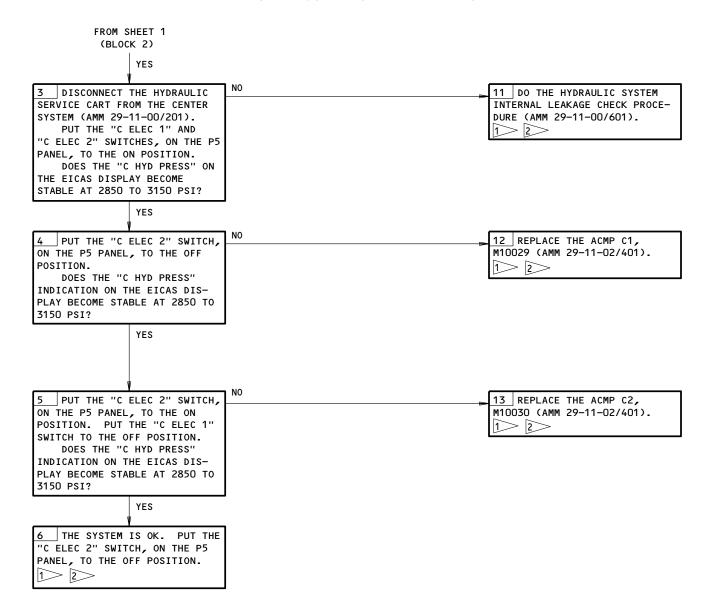
1 ERASE THE "C HYD SYS MAINT" MESSAGE (31-41-00, FIG. 109)
2 PUT THE EICAS ENGINE SHUTDOWN INHIBIT BACK TO ITS USUAL CONDITION (MM 31-41-00/201)

C HYD SYS MAINT EICAS Message Illuminated Figure 117 (Sheet 1)

29-11-00

02

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C HYD SYS MAINT EICAS Message Illuminated Figure 117 (Sheet 2)



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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D28, 11D29, 11K14, 11K16, 11K17, 11K25, 11K26

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

DO THE HYDRAULIC SYSTEM

PROCEDURE (AMM 29-11-00/601).

INTERNAL LEAKAGE CHECK

LEFT/RIGHT ACMP PRESS LOW

1 MAKE SURE THE "RESERVE BRAKES" SWITCH, ON THE P1 PANEL, IS IN THE OFF POSITION.

IF THE ENGINES ARE IN OPERATION, PUT THE "L (R) ENG" SWITCH, ON THE P5 PANEL, TO THE OFF POSITION.

CAUTION: MAKE SURE HYDRAULIC QUANTITY AT THE RESERVOIR SIGHT GLASS IS NOT LOW. OPERATION OF PUMPS WITH LOW HYDRAULIC QUANTITY CAN CAUSE DAMAGE.

IF IT IS NECESSARY, SERVICE THE RESERVOIR WITH HYDRAULIC FLUID (AMM 12-12-01/301).

PUT THE "L (R) ELEC" SWITCH, ON THE P5 PANEL, TO THE ON POSITION.

DOES THE "L (R) HYD PRESS" INDICATION ON THE EICAS DISPLAY BECOME STABLE AT 2850 TO 3150 PSI?

NOTE: THE PRESSURE IN THE RIGHT SYSTEM CAN BE LOW IF ONLY THE RIGHT ACMP OPERATES, THE RIGHT ENGINE OPERATES, AND THE AIRPLANE IS IN ONE OF THESE CONDITIONS:

- 1. LEFT ENGINE IS OFF.
- "L (R) ENG" SWITCH, ON THE P5 PANEL, IS IN THE OFF POSITION.

THE LOW PRESSURE IN THE RIGHT SYSTEM IS CAUSED BY THE LOAD ON THE RIGHT ACMP FROM THE OPERATION OF THE PTU.

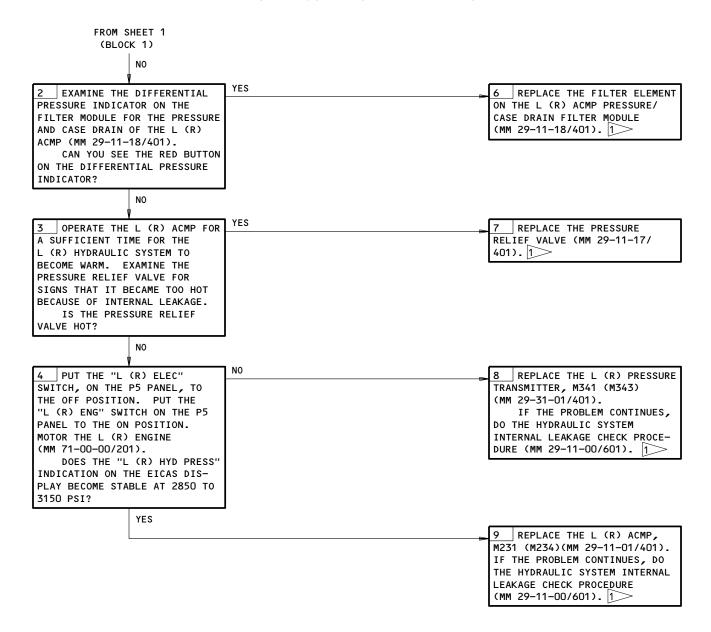
NO

SEE SHEET 2 (BLOCK 2)

1 ERASE THE "L (R) HYD SYS MAINT" MESSAGE (FIM 31-41-00/101, FIG. 109)

Left/Right ACMP Pressure Low Figure 118 (Sheet 1)

EFFECTIVITY-



Left/Right ACMP Pressure Low Figure 118 (Sheet 2)

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K13,6K19,11K15,11K18,11K24

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

CENTER ACMP C1 (C2) PRESSURE LOW

YFS 1 PUT THE "C ELEC 1 DO THE HYDRAULIC SYSTEM (C ELEC 2)" SWITCH, ON THE P5 INTERNAL LEAKAGE CHECK PROCE-PANEL, TO THE ON POSITION. DURE (MM 29-11-00/601). 1> PUT THE "FLT CONTROL SHUTOFF C" SWITCH, ON THE P61 PANEL, TO THE OFF POSITION. IS THE "C HYD PRESS" INDI-CATION, ON THE EICAS DISPLAY, 2850 TO 3150 PSI? YES 2 EXAMINE THE DIFFERENTIAL REPLACE THE PRESSURE PRESSURE INDICATOR ON THE FILTER ELEMENT ON THE ACMP FILTER MODULE FOR THE PRESSURE PRESSURE/CASE DRAIN FILTER AND CASE DRAIN OF THE ACMP MODULE IN THE CENTER SYSTEM IN THE CENTER SYSTEM. (MM 29-11-19/401). 1> CAN YOU SEE THE RED BUT-TON ON THE DIFFERENTIAL PRES-SURE INDICATOR? NO

EXAMINE THE RETURN FILTER MODULE IN THE CENTER SYSTEM FOR SIGNS THAT THE PRESSURE RELIEF VALVE BECAME TOO HOT BECAUSE OF INTERNAL LEAKAGE. IS THE PRESSURE RELIEF VALVE HOT?

> SEE SHEET 2 (BLOCK 4)

NO

1> ERASE THE "C HYD SYS MAINT" MESSAGE (31-41-00, FIG. 109)

YES

Center ACMP C1 (C2) Pressure Low Figure 119 (Sheet 1)

EFFECTIVITY-ALL

117771

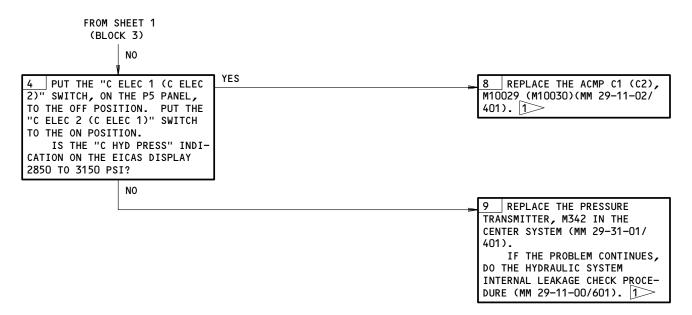
29-11-00

REPLACE THE PRESSURE

RELIEF VALVE IN THE RETURN

FILTER MODULE IN THE CENTER SYSTEM (MM 29-11-13/401).





Center ACMP C1 (C2) Pressure Low Figure 119 (Sheet 2)

ALL

ALL

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

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED: 11K22

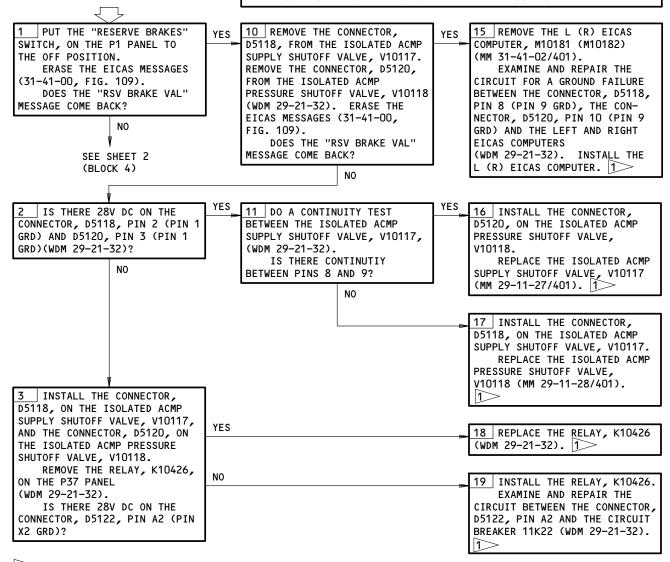
MAKE SURE THIS CIRCUIT BREAKER IS OPEN AND ATTACH A DO-NOT-CLOSE TAG:

11K16

"RSV BRAKE VAL" EICAS MESSAGE ILLUMINATED

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



ERASE THE EICAS MESSAGES (31-41-00, FIG. 109). REMOVE THE DO-NOT-CLOSE TAG AND CLOSE THIS CIRCUIT BREAKER: 11K16

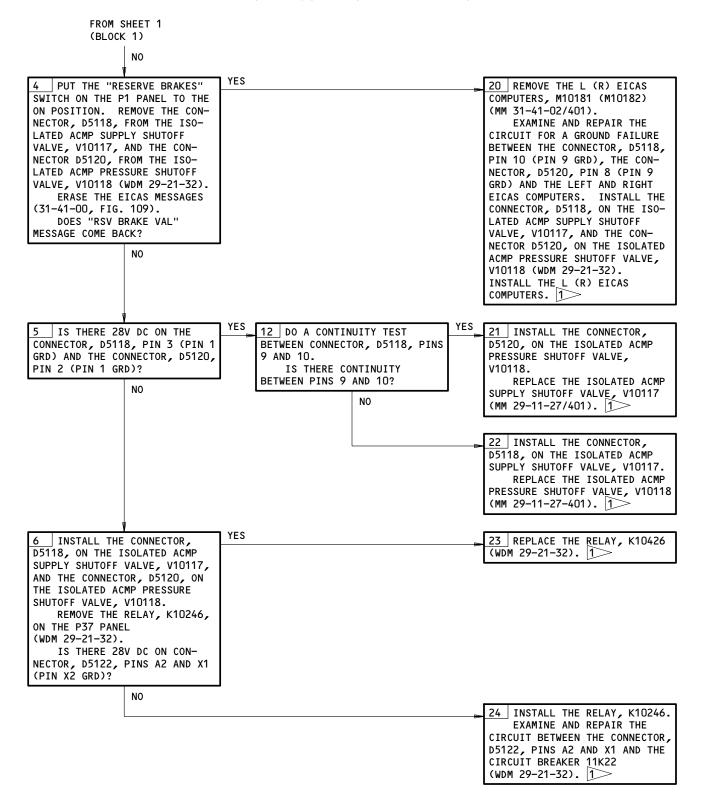
RSV BRAKE VAL EICAS Message Illuminated Figure 120 (Sheet 1)

ALL

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RSV BRAKE VAL EICAS Message Illuminated Figure 120 (Sheet 2)

LEFT (RIGHT) HYDRAULIC SYSTEM QUANTITY INCREASED, RIGHT (LEFT) SYSTEM QUANTITY DECREASED

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:
6K13, 6K14, 6K19, 11K6, 11K15, 11K16, 11K17, 11K18,
11K25, 11K26

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

YES 1 REMOVE THE PRESSURE FROM 21 REPLACE THE PAIR OF THE ANTISKID SHUTTLE VALVES WHICH THE LEFT AND RIGHT HYDRAULIC SYSTEMS AND THE RESERVOIRS ARE ADJACENT TO THE PORT WHERE (AMM 29-11-00/201)THERE IS LEAKAGE. DISCONNECT THE ALTERNATE CONNECT THE HYDRAULIC LINES TO THE LEFT AND RIGHT BRAKE SYSTEM (LEFT) HYDRAULIC LINES AT EACH END OF THE LEFT ANTISKID SHUTTLE VALVE MODULES (AMM 32-42-07/401). AND RIGHT ANTISKID SHUTTLE FILL THE RESERVOIRS IN THE VALVE MODULES LEFT AND RIGHT HYDRAULIC (AMM 32-42-07/401).PRESSURIZE THE RIGHT SYSTEMS (AMM 12-12-01/301). HYDRAULIC SYSTEM (AMM 29-11-00/201). SET THE PARKING BRAKES (AMM 32-44-00/001). DO A CHECK FOR HIGH PRESSURE LEAKAGE AT THE ALTERNATE BRAKE PORTS OF THE ANTISKID SHUTTLE VALVE MODULES. IS THERE LEAKAGE AT THE PORTS OF THE ANTISKID SHUTTLE VALVE MODULE? NO YES REMOVE THE PRESSURE FROM 22 REPLACE THE PAIR OF THE THE RIGHT HYDRAULIC SYSTEM AND ANTISKID SHUTTLE VALVES WHICH KEEP THE RIGHT SYSTEM ARE ADJACENT TO THE PORT WHERE RESERVOIR PRESSURIZED THERE IS LEAKAGE. (AMM 29-11-00/201). CONNECT THE HYDRAULIC RELEASE THE PARKING BRAKE LINES TO THE LEFT AND RIGHT (AMM 32-44-00/001).ANTISKID SHUTTLE VALVE MODULES DO A CHECK FOR LOW (AMM 32-42-07/401). FILL THE RESERVOIRS IN THE PRESSURE LEAKAGE AT THE ANTISKID SHUTTLE VALVE LEFT AND RIGHT HYDRAULIC MODULES. SYSTEMS (AMM 12-12-01/301). IS THERE A LEAKAGE AT THE PORTS OF THE ANTISKID SHUTTLE VALVE MODULES? NO SEE SHEET 2

> Left (Right) Hydraulic System Quantity Increased, Right (Left) System Quantity Decreased Figure 121 (Sheet 1)

(BLOCK 3)

FROM SHEET 1 (BLOCK 2)

NO

3 CONNECT THE HYDRAULIC LINES TO THE LEFT AND RIGHT ANTISKID SHUTTLE VALVE MODULES (AMM 32-42-07/401).

NOTE: IF THERE IS STILL
HYDRAULIC FLUID
MOVEMENT, THERE MIGHT
BE A PROBLEM WITH THE
BRAKE METERING VALUE
CABLE QUADRANT
BEARINGS
(757-FTD-32-00008)

FILL THE RESERVOIRS IN
THE LEFT AND RIGHT HYDRAULIC
SYSTEMS (AMM 12-12-01/301).
THE SYSTEM IS OK.

NOTE: THE MOVEMENT OF FLUID
BETWEEN THE LEFT AND
RIGHT HYDRAULIC
SYSTEMS OCCURS BECAUSE
OF THE SEQUENCE OF
PARKING BRAKE
OPERATION IN RELATION
TO THE SEQUENCE IN
WHICH YOU SUPPLY AND
REMOVE PRESSURE TO THE
HYDRAULIC SYSTEM.

Left (Right) Hydraulic System Quantity Increased, Right (Left) System Quantity Decreased Figure 121 (Sheet 2)

EFFECTIVITY



LEFT/RIGHT ACMP LOW PRESSURE LIGHT NOT ILLUMINATED WITH PUMP OFF AND PRES-SURE ZERO

PREREQUISITES

MAKE SURE THIS SYSTEM WILL OPERATE:
MASTER DIM AND TEST (MM 33-16-00/501)

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

ELECTRICAL POWER IS ON (MM 24-22-00/201)
LEFT AND RIGHT HYDRAULIC SYSTEM POWER IS OFF
(MM 29-11-00/201)

REMOVE THE CONNECTOR, REMOVE THE JUMPER FROM THE CONNECTOR, D3102 (D3066). D3102 (D3066), FROM THE PRESSURE SWITCH, S25 (S30) REPLACE THE L (R) ACMP ON THE L (R) ACMP PRESSURE/ PRESSURE SWITCH, \$25 (\$30) CASE DRAIN FILTER MODULE. (MM 29-11-18/401).INSTALL A JUMPER BETWEEN THE CONNECTOR, D3102 (D3066), PINS 2 AND 3 (WDM 29-11-12,-22). IS THE "L (R) ELEC" "PRESS" LIGHT ON? REMOVE THE JUMPER FROM THE CONNECTOR, D3102 (D3066). INSTALL THE CONNECTOR, D3102 (D3066), ON THE L (R) ACMP PRESSURE SWITCH, S25 (S30). REPLACE THE TIME DELAY, M10557 (M10559), ON THE P33 (P36) PANEL (WDM 29-11-12,-22).

> Left/Right ACMP Low Pressure Light Illuminated with Pump Off and Pressure Zero Figure 122

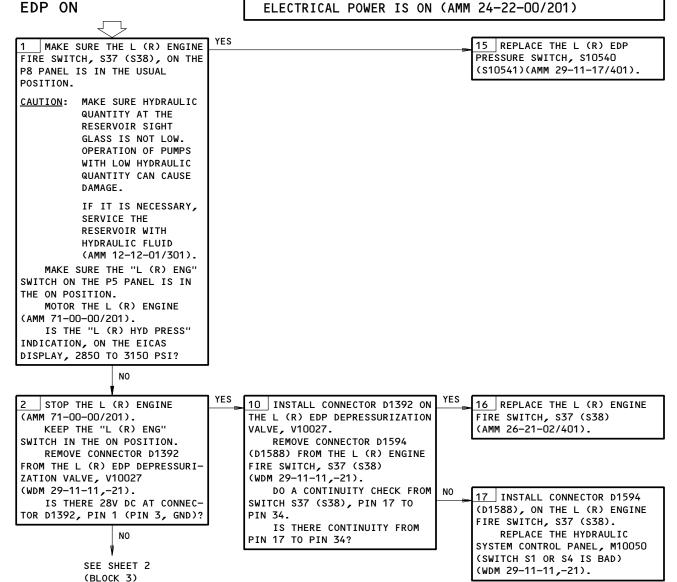
ALL

LEFT (RIGHT) EDP LOW PRESSURE LIGHT ILLUMINATED WITH

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D28, 11D29, 11K14, 11K17, 11K23, 11K26

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



Left (Right) EDP Low Pressure Light Illuminated with EDP On Figure 123 (Sheet 1)

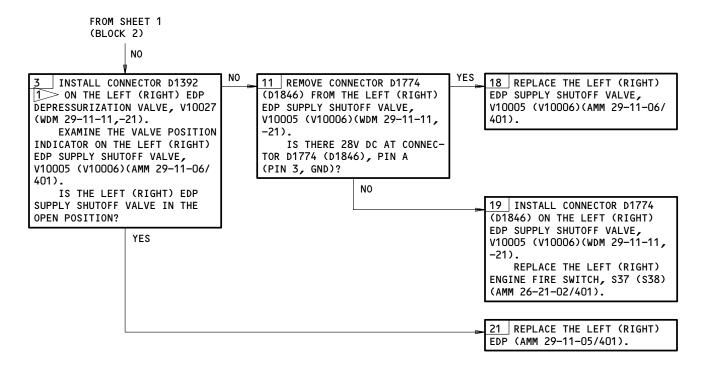
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Left (Right) EDP Low Pressure Light Illuminated with EDP On Figure 123 (Sheet 2)

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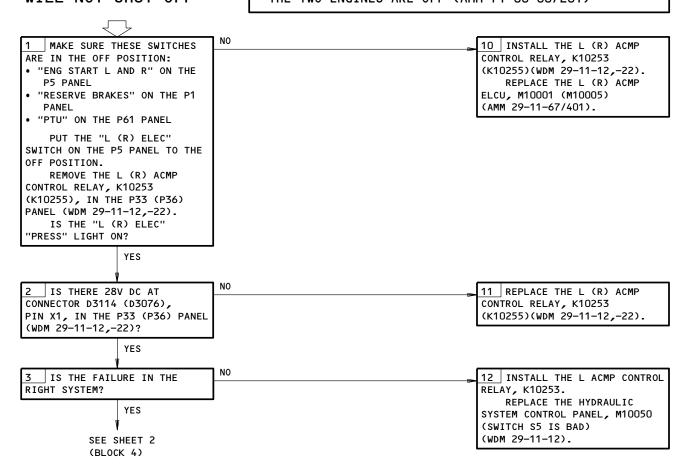


MAKE SURE THIS SYSTEM WILL OPERATE:
MASTER DIM AND TEST (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K14,11K16,11K17,11K25,11K26

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: ELECTRICAL POWER IS ON (AMM 24-22-00/201) THE TWO ENGINES ARE OFF (AMM 71-00-00/201)

LEFT/RIGHT ACMP WILL NOT SHUT OFF



Left/Right ACMP Will Not Shut Off Figure 124 (Sheet 1)

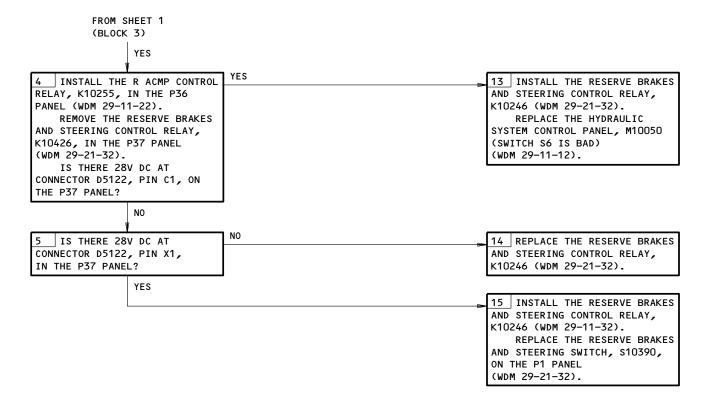
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Left/Right ACMP Will Not Shut Off Figure 124 (Sheet 2)

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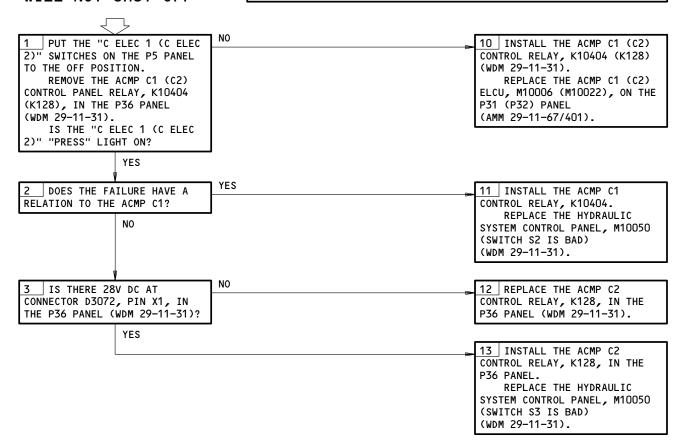
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MAKE SURE THIS SYSTEM WILL OPERATE: MASTER DIM AND TEST (AMM 33-16-00/501)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6K13,6K19,11K15,11K18,11K24

CENTER ACMP C1 (C2) WILL NOT SHUT OFF



Center ACMP C1 (C2) Will Not Shut Off Figure 125

EFFECTIVITY-ALL

128161



GROUND SERVICING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS		1	FLIGHT COMPARTMENT, P11 PANEL	
HYDRAULICS QTY CTR, C4192		1	11K19	*
HYDRAULICS QTY LEFT, C1101		1	11K20	*
HYDRALICS QTY RIGHT, C4193		1	11K21	*
CONNECTION - PRESSURE FILL		1	197KL, AFT LEFT WING-TO-BODY FAIRING	29–18–00
INDICATOR - RESERVOIR FILL, N29		1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-18-03
MODULE - RESERVOIR FILL FILTER		1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-18-04
PUMP - RESERVOIR MANUAL FILL		1	197KL, AFT LEFT WING-TO-BODY FAIRING	29-18-01
SWITCH - HYDRAULIC QUANTITY SELECT, \$341		1	197KL, AFT LEFT WING-TO-BODY FAIRING, RESERVOIR FILL SELECTOR VALVE	*
TRANSMITTER - (REF 29-33-00, FIG. 101) HYDRAULIC FLUID QUANTITY SYS C, M339 SYS L, M338 SYS R, M340				
UNIT - (REF 29-33-00, FIG. 101)				
HYDRAULIC FLUID QUANTITY MONITOR, M122		_	407.0	
VALVE - RESERVOIR FILL SELECTOR		1	197KL, AFT LEFT WING-TO-BODY FAIRING	29–18–02

^{*} SEE THE WDM EQUIPMENT LIST

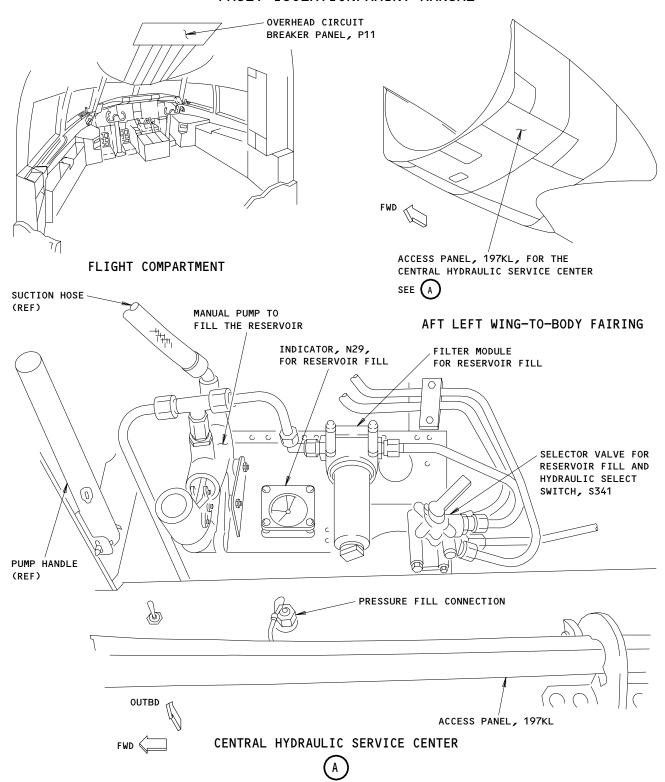
Ground Servicing System - Component Index Figure 101

EFFECTIVITY-ALL 29-18-00

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FAULT ISOLATION/MAINT MANUAL



Ground Servicing System - Component Location Figure 102

EFFECTIVITY-ALL

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RAM AIR TURBINE (RAT) SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - RAT DEPLOYMENT	2	1	198MR, AFT RIGHT WING-TO-BODY FAIRING	29-21-05
ASSEMBLY - RAT, M10148	3	1	198MR, AFT RIGHT WING-TO-BODY FAIRING	29-21-01
CABLE - RAT BLADE LOCK	4	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT ASSEMBLY, M10148	29-21-19
CARDS - (77-12-00/101) LEFT ENGINE SPEED, M10298 RIGHT ENGINE SPEED, M10311				
CIRCUIT BREAKERS -	1		FLIGHT COMPARTMENT, P6 PANEL	
RAT MAN CONT, C4287 1>>		1	6F2	*
RAT MAN PWR, C4062		1	6F1	
CIRCUIT BREAKERS -	1		FLIGHT COMPARTMENT, P11 PANEL	
HYDRAULIC RAT AUTO CONT, C4061 1>>		1	11D26	*
HYDRAULIC RAT CONT, C4061 2		1	11D26	*
HYDRAULIC RAT AUTO PWR, C4216 1		1	11D27	*
HYDRAULIC RAT AUTO, C4216 2		1	11D27	
COMPUTERS - (31-41-00/101)				
EICAS L, M10181				
EICAS R, M10182				
DOOR - RAT COMPARTMENT	2	1	198MR, AFT RIGHT WING-TO-BODY FAIRING	29-21-09
HARNESS - RAT WIRE	4	1	198MR, AFT RIGHT WING-TO-BODY	29-21-18
			FAIRING, RAT ASSEMBLY, M10148	
HUB - RAT	4	1	198MR, AFT RIGHT WING-TO-BODY	29-21-01
			FAIRING, RAT ASSEMBLY, M10148	
LINK - RAT DOOR ACTUATOR	3	1	198MR, AFT RIGHT WING-TO-BODY	29-21-10
			FAIRING	
MODULE - RAT CHECKOUT	5	1	RIGHT WHEEL WELL	29-21-11
PANELS - (80-11-00/101)				
ENG START/RAT CONT, M10468				
PLUNGER - RAT BLADE LOCK	4	1	198MR, AFT RIGHT WING-TO-BODY	29-21-19
			FAIRING, RAT ASSEMBLY, M10148	
PUMP - RAT HYDRAULIC	4	1	198MR, AFT RIGHT WING-TO-BODY	29-21-01
	'		FAIRING, RAT ASSEMBLY, M10148	

^{*} SEE THE WDM EQUIPMENT LIST

Ram Air Turbine (RAT) System - Component Index Figure 101 (Sheet 1)

EFFECTIVITY-

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAY - (31-01-33/101) RAT AUTO CONTROL, K10059 RELAYS - (31-01-36/101)				
RAT MANUAL CONTROL, K10058				
SYSTEM 1 AIR/GROUND, K10384 SENSOR - RAT TACHOMETER SPEED	4	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT ASSEMBLY, M10148	29-21-15
SOLENOID - RAT ACTUATOR AUTO, M10407	2	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT DEPLOYMENT ACTUATOR	*
SOLENOID - RAT ACTUATOR MANUAL, M10406	2	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT DEPLOYMENT ACTUATOR	*
SWITCH - RAT ARM Q AIRSPEED, S10334	6	1	119BL, MAIN EQUIPMENT CENTER, E1	29-21-53
SWITCH - RAT BLADE LOCK LIMIT	4	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT ASSEMBLY, M10148	29-21-21
SWITCH - RAT GROUND MANUAL, M10405	5	1	RIGHT WHÉEL WELL	29-21-51
SWITCH - RAT HYDRAULIC PRESSURE, S10323	5	1	RIGHT WHEEL WELL, RAT GROUND CHECKOUT MODULE	29-21-11
SWITCH - RAT STOWED LIMIT, S10258	3	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT ASSEMBLY, M10148	29-21-17
SWITCH - RAT STRUT POSITION LIMIT	3	1	198MR, AFT RIGHT WING-TO-BODY FAIRING, RAT ASSEMBLY, M10148	29-21-20
SWITCH/LIGHT - RAT DEPLOYMENT, YQUS1	1	1	FLIGHT COMPARTMENT, P5 PANEL, ENGINE START/RAT CONTROL PANEL, M10468	*
TACHOMETER - RAT, N10028 TIME DELAY - (31-01-33/101) RAT, M10323	5	1	RIGHT WHEEL WELL	29-21-51
VALVE - RAT ACTUATOR CONTROL, V10070	2	1	198MR, AFT RIGHT WING-TO-BODY FAIRING	29-21-04
VALVE - RAT SAFETY, V10069	5	1	RIGHT WHEEL WELL	29-21-14

^{*} SEE THE WDM EQUIPMENT LIST

ALL EXCEPT GUI 115

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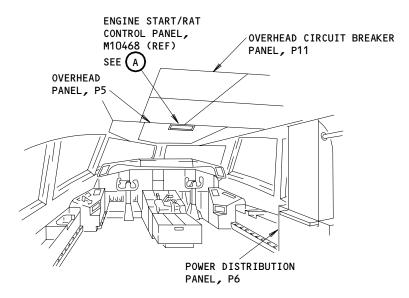
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Ram Air Turbine (RAT) System - Component Index Figure 101 (Sheet 2)

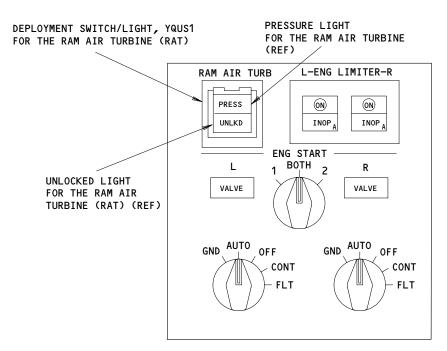
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FLIGHT COMPARTMENT



ENGINE START/RAT CONTROL PANEL, M10468 (REF)



Ram Air Turbine (RAT) System - Component Location Figure 102 (Sheet 1)

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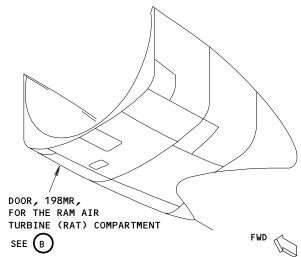
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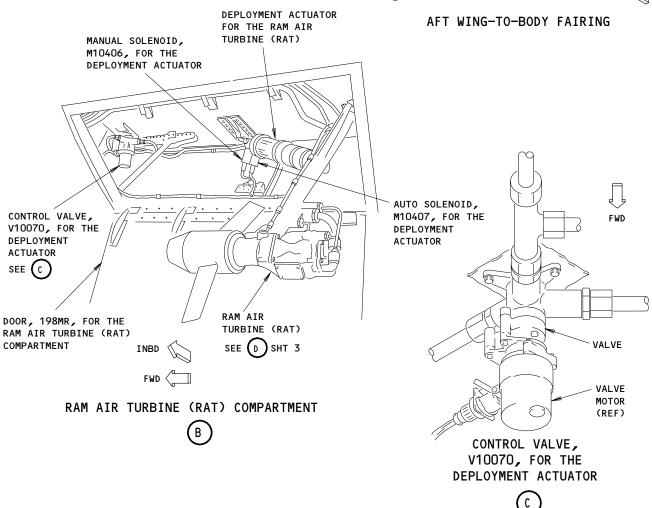
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Ram Air Turbine (RAT) System - Component Location Figure 102 (Sheet 2)

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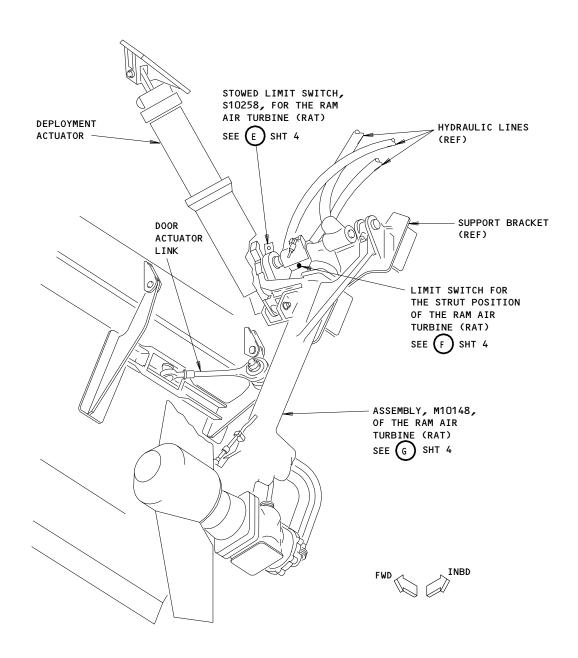
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RAM AIR TURBINE (RAT)

(D)

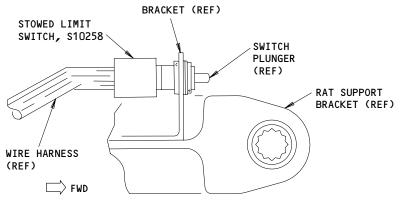
Ram Air Turbine (RAT) System - Component Location (Detail From Sht 2) Figure 102 (Sheet 3)

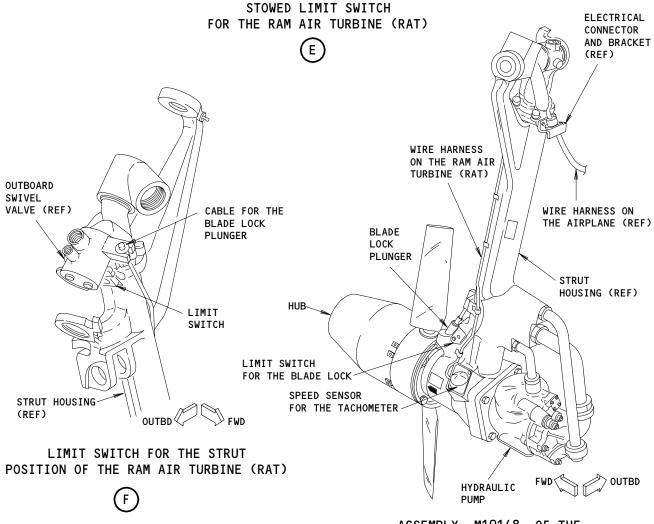
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ASSEMBLY, M10148, OF THE RAM AIR TURBINE (RAT)

Ram Air Turbine (RAT) System - Component Location (Details from Sht 3) Figure 102 (Sheet 4)

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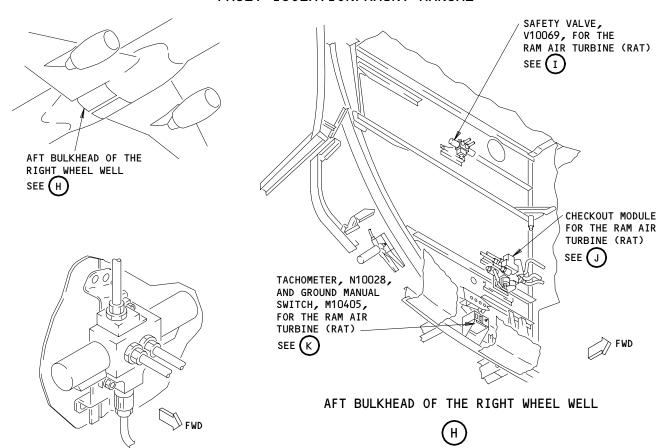
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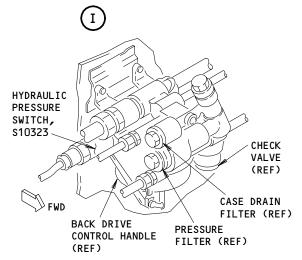
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FAULT ISOLATION/MAINT MANUAL



SAFETY VALVE, V10069, FOR THE RAM AIR TURBINE (RAT)



CHECKOUT MODULE FOR THE RAM AIR TURBINE (RAT)

ACCESS

PANEL (REF)

TACHOMETER, N10028, AND GROUND MANUAL SWITCH, M10405, FOR THE RAM AIR TURBINE (RAT)

GROUND MANUAL

SWITCH, M10405

Ram Air Turbine (RAT) System - Component Location Figure 102 (Sheet 5)

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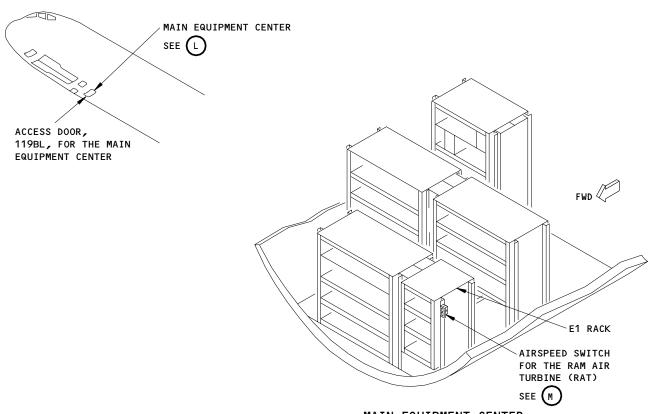
FWD 4

TACHOMETER, N10028

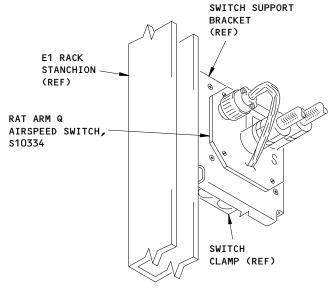
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MAIN EQUIPMENT CENTER (EXAMPLE)



AIRSPEED SWITCH FOR THE RAM AIR TURBINE (RAT)



Ram Air Turbine (RAT) System - Component Location Figure 102 (Sheet 6)

EFFECTIVITY-ALL

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

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED: 11D26

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

"RAT" EICAS MESSAGE **ILLUMINATED**

YES 1 MAKE SURE THE GROUND MAN-10 REPAIR THE CIRCUIT BETWEEN UAL SWITCH, M10405, FOR THE THE CONNECTOR, D3252, PIN 10 RAT IS IN THE OFF POSITION ON THE ACTUATOR CONTROL VALVE, (WDM 29-21-31). V10070, FOR THE RAT AND THE REMOVE THE CONNECTOR, CONNECTOR, D319F (D321F), PIN H6 OF THE L (R) EICAS COM-D3252, FROM THE ACTUATOR CON-TROL VALVE, V10070, FOR THE PUTER. INSTALL THE CONNECTOR, RAT (WDM 29-21-31). D3252, ON THE VALVE, V10070 DOES THE EICAS MESSAGE (WDM 29-21-31). "RAT" SHOW? MAKE SURE THE EICAS MES-SAGE "RAT" DOES NOT SHOW. NO NO 2 IS THERE 28V DC AT THE 11 REPLACE THE ACTUATOR CON-CONNECTOR, D3252, PIN 2? TROL VALVE, V10070, FOR THE RAT (MM 29-21-04/401). YES MAKE SURE THE EICAS MES-SAGE "RAT' DOES NOT SHOW. 12 INSTALL THE CONNECTOR, D3252, ON THE ACTUATOR CONTROL VALVE, V10070, FOR THE RAT (WDM 29-21-31). REPLACE THE RAT GROUND MANUAL SWITCH, M10405 (MM 29-21-51/401). MAKE SURE THE EICAS MES-SAGE "RAT' DOES NOT SHOW.

> RAT EICAS Message Illuminated Figure 103

EFFECTIVITY-ALL

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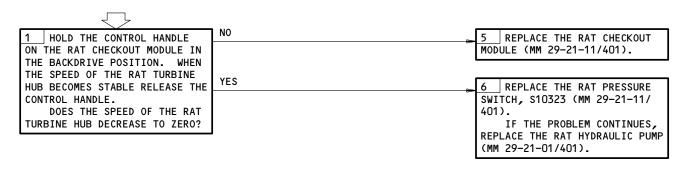


RAT PRESSURE LIGHT DID NOT ILLUMINATE WHEN BACK-DRIVE CONTROL HANDLE WAS RETURNED TO NORMAL

PREREQUISITES

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



RAT Pressure Light Did Not Illuminate When Back-Drive Control Handle was Returned to Normal Figure 104

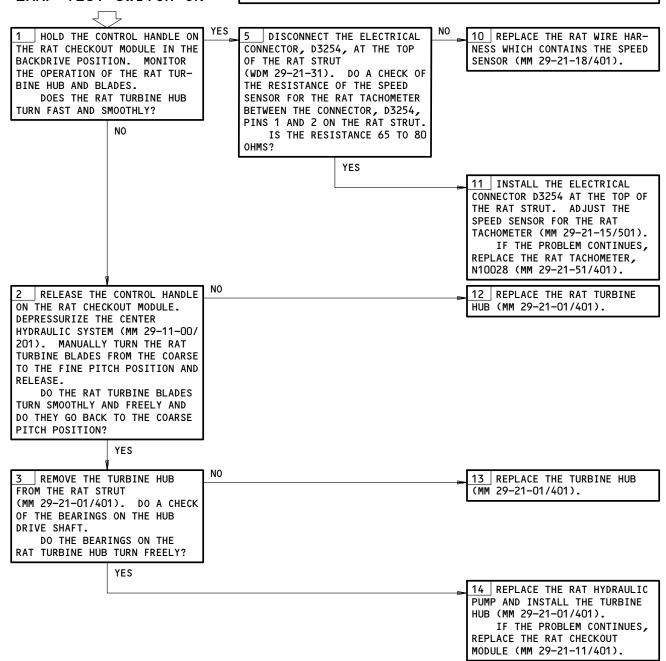
EFFECTIVITY-ALL

RAT TACHOMETER
OVERSPEED AND GOV
SPEED LIGHTS NOT
ILLUMINATED, LIGHTS
REMAIN OFF WITH
LAMP TEST SWITCH ON

PREREQUISITES

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



RAT Tachometer Overspeed and Gov Speed Lights Not Illuminated, Lights
Remain Off with Lamp Test Switch On
Figure 105

ALL

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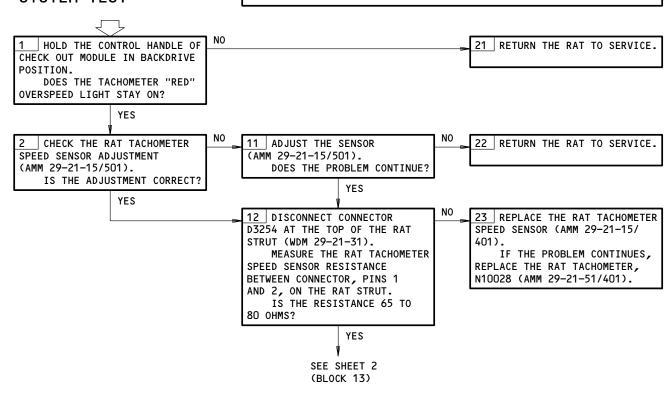
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RAT TACHOMETER OVERSPEED LIGHT REMAINS ON WHILE PERFORMING RAT SYSTEM TEST

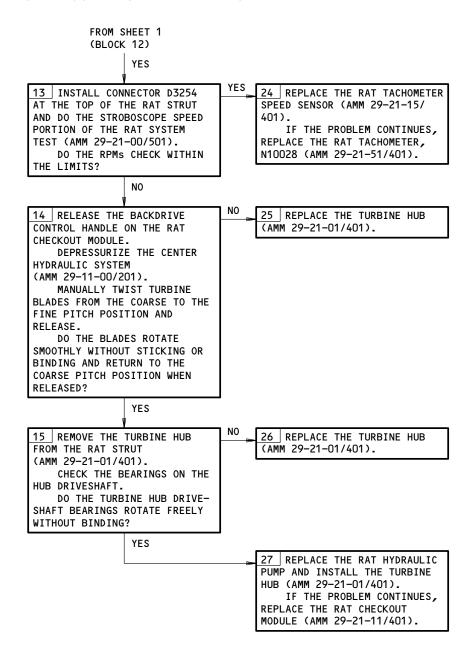
PREREQUISITES

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



RAT Tachometer Overspeed Light Remains On While Performing RAT System Test Figure 105A (Sheet 1)

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RAT Tachometer Overspeed Light Remains On While Performing RAT System Test Figure 105A (Sheet 2)

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RAT TURBINE HUB DID NOT UNLOCK WHEN RAT DEPLOYED

PREREQUISITES

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: THE RAT IS IN THE EXTENDED POSITION (AMM 29-21-00/201)



RAT Turbine Hub Did Not Unlock When RAT Deployed Figure 106

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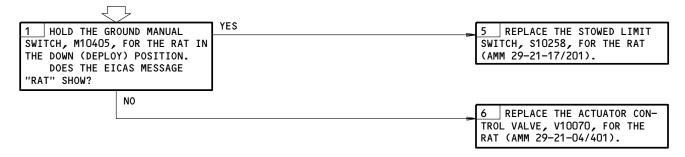


MAKE SURE THIS SYSTEM WILL OPERATE: EICAS (AMM 31-41-00/201)

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D25,11D26

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: ELECTRICAL POWER IS ON (AMM 24-22-00/201) THE RAT IS IN THE EXTENDED POSITION (AMM 29-21-00/201)

EICAS MESSAGE "RAT" WAS NOT DISPLAYED WITH RAT DEPLOYED



EICAS Message RAT Was Not Displayed with RAT Deployed Figure 107



RAT DID NOT STOP
DEPLOYING OR
RETRACTING WHEN
GROUND MANUAL
SWITCH RETURNED TO
CENTER-OFF POSITION

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D25,11D26

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

ELECTRICAL POWER IS ON (MM 24-22-00/201)
THE RAT IS IN THE EXTENDED POSITION
(MM 29-21-00/201)

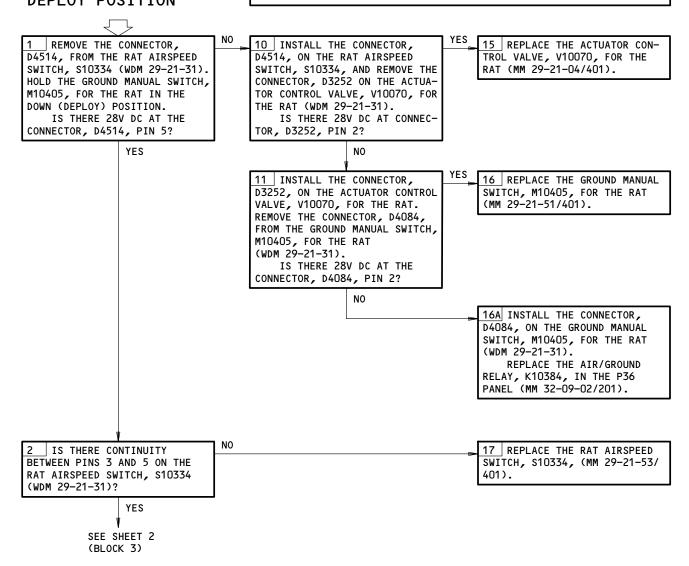


RAT Did Not Stop Deploying or Retracting When Ground Manual Switch
Returned To Center-Off Position
Figure 108

RAT DID NOT DEPLOY WITH GROUND MANUAL SWITCH IN DOWN-DEPLOY POSITION MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D26,11D27

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

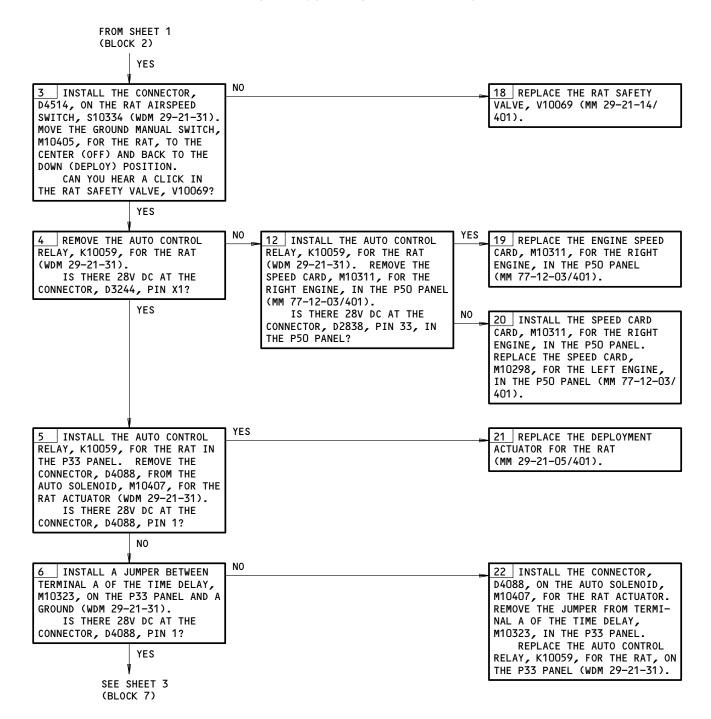
ELECTRICAL POWER IS ON (MM 24-22-00/201)



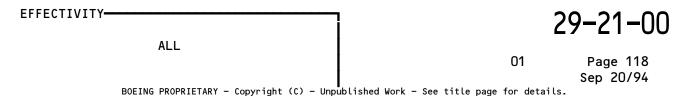
RAT Did Not Deploy with Ground Manual Switch in Down-Deploy Position Figure 109 (Sheet 1)

29-21-00
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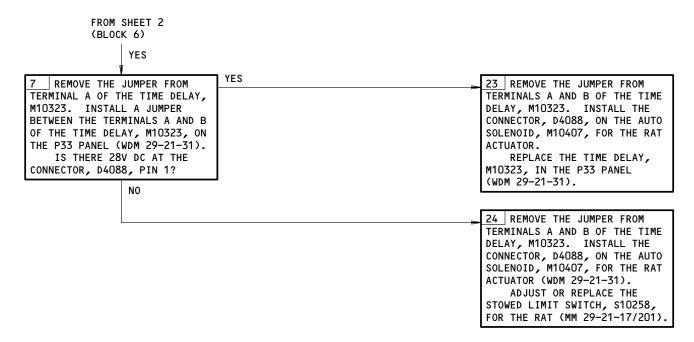
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RAT Did Not Deploy with Ground Manual Switch in Down-Deploy Position Figure 109 (Sheet 2)







RAT Did Not Deploy with Ground Manual Switch in Down-Deploy Position Figure 109 (Sheet 3)

29-21-00
ALL
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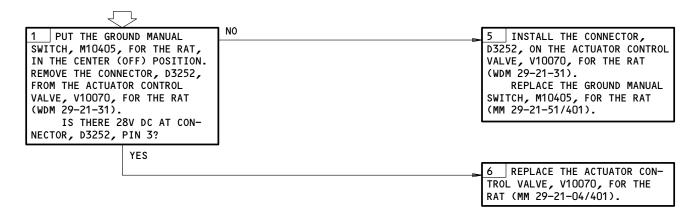
EICAS MESSAGE "RAT" DISPLAYED WITH RAT RETRACTED. RAT UNLKD LIGHT NOT ILLUMINATED

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D25,11D26

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



EICAS Message RAT Displayed with RAT Retracted, RAT UNLKD Light Not Illuminated Figure 110

ALL ALL

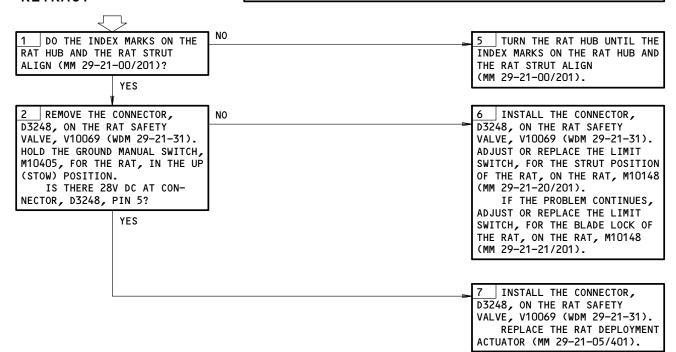


MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D25,11D26

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

RAT DID NOT FULLY RETRACT



RAT Did Not Fully Retract Figure 111

29-21-00

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RAT DID NOT RETRACT WITH GROUND

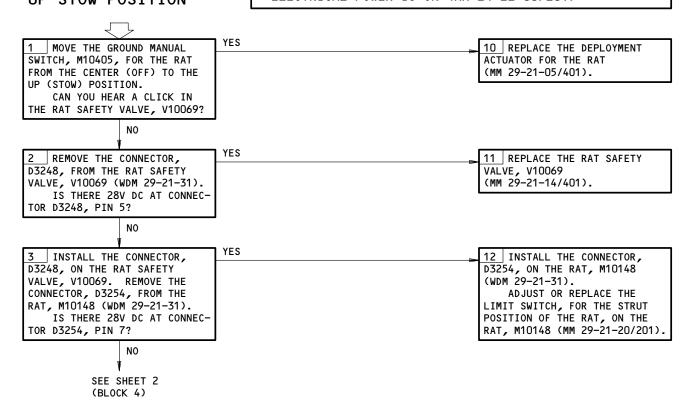
MANUAL SWITCH IN UP-STOW POSITION

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D26,11D27

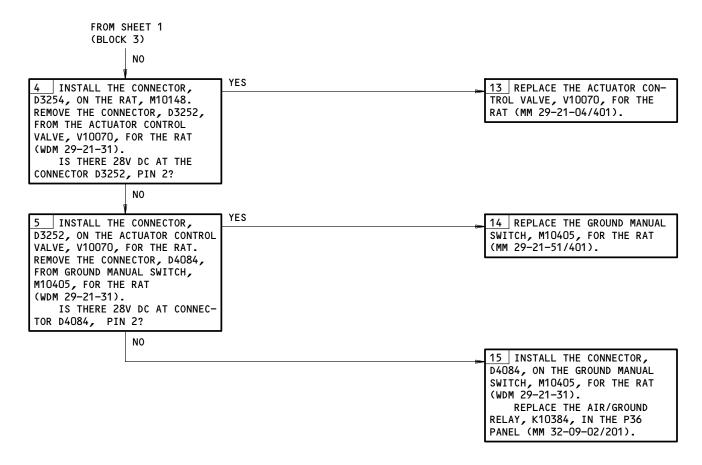
MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



RAT Did Not Retract with Ground Manual Switch in Up-Stow Position Figure 112 (Sheet 1)





RAT Did Not Retract with Ground Manual Switch in Up-Stow Position Figure 112 (Sheet 2)

29-21-00
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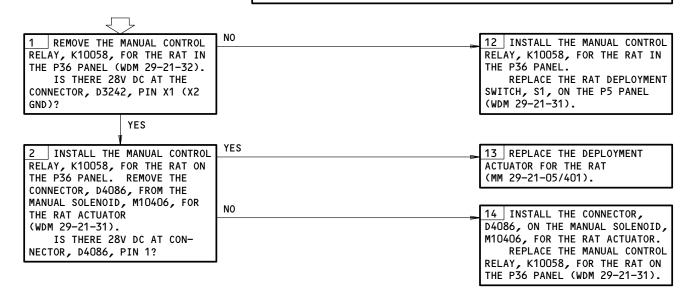
RAT DID NOT DEPLOY WITH DEPLOY-MENT SWITCH IN DEPLOY POSITION

PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6F1,6F2

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



RAT Did Not Deploy with Deployment Switch in Deploy Position Figure 113

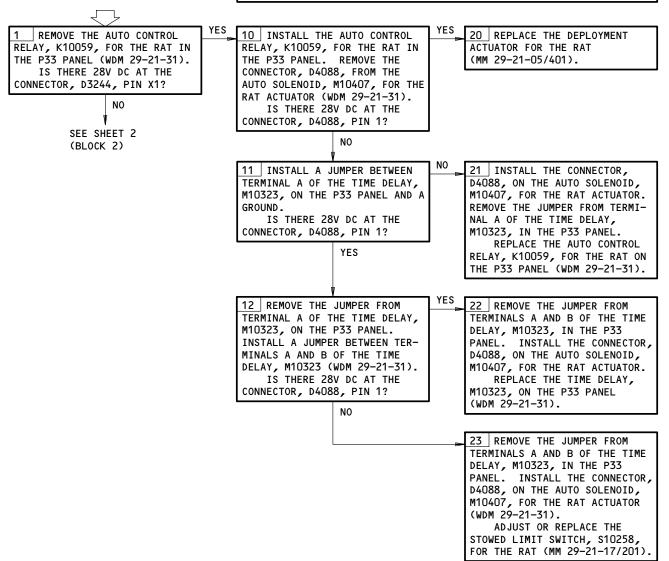
EFFECTIVITY-ALL

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11D26,11D27

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

ELECTRICAL POWER IS ON (MM 24-22-00/201)
THE AIR/GROUND RELAYS FOR SYSTEM NO. 1 ARE SIMULATED
IN THE AIR MODE (MM 32-09-02/201)
THE AUXILIARY NO. 2 PITOT SYSTEM IS PRESSURIZED
ABOVE 80 KNOTS (MM 34-11-00/201)

RAT DID NOT DEPLOY WHEN AUX NO. 2 PITOT SYSTEM WAS PRESSURIZED ABOVE 80 KNOTS

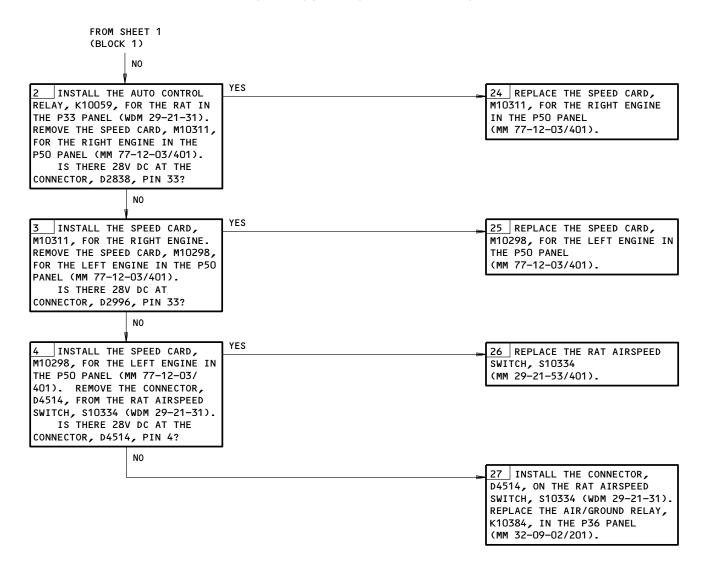


RAT Did Not Deploy when Aux No. 2 Pitot System was Pressurized Above 80 Knots Figure 114 (Sheet 1)

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RAT Did Not Deploy when Aux No. 2 Pitot System was Pressurized Above 80 Knots Figure 114 (Sheet 2)

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RAT "UNLKD" LIGHT

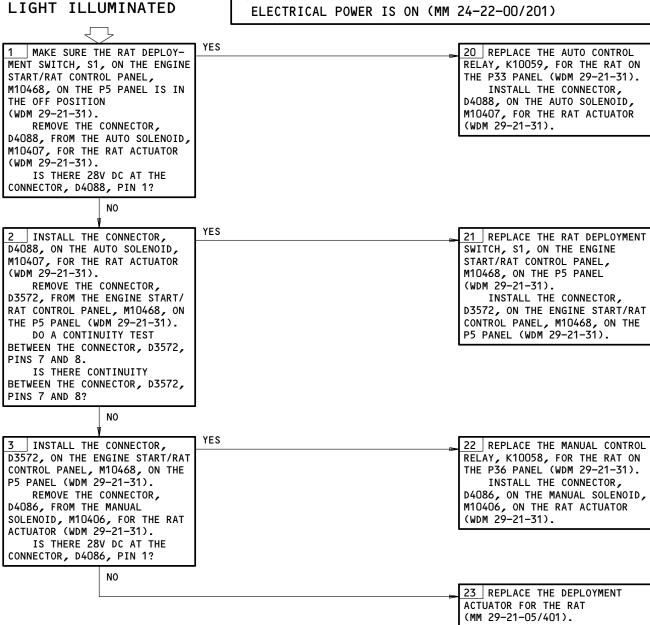
AND RAT PRESSURE

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 6F1,6F2,11D26,11D27

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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



RAT UNLKD Light and RAT Pressure Light Illuminated Figure 115

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HYDRAULIC POWER TRANSFER UNIT (PTU) SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKER HYDRAULICS PTU CONT, C4054 COMPUTER - (REF 31-41-00, FIG. 101) EICAS L, M10181 EICAS R, M10182 DIODE - (REF 31-01-33, FIG. 101) R10240 DIODE - (REF 31-01-37, FIG. 101)	1	1	FLIGHT COMPARTMENT, P11 PANEL 11D31	
R10153 MODULE - PTU CASE DRAIN FILTER MODULE - PTU PRESSURE FILTER PANEL - (REF 24-22-00, FIG. 101) GENERATOR FIELD AND HYDRAULIC CONTROL, M10191 RELAY - (REF 31-01-33, FIG. 101) PTU ON, K10051 RELAY - (REF 77-12-00, FIG. 101) LEFT ENGINE OUT 2, K10338 RIGHT ENGINE OUT 4, K10339 RIGHT ENGINE OUT 5, K10444 SWITCH - (REF 29-31-00, FIG. 101)	1 1	1 1	LEFT WHEEL WELL LEFT WHEEL WELL	29-22-05 29-22-02
LEFT ENGINE-DRIVEN PUMP PRESSURE, S10540 SWITCH - PTU CONTROL PRESSURE, S10129	2	1	LEFT WHEEL WELL, PTU PRESSURE FILTER MODULE	29-22-02
SWITCH - PTU INDICATION PRESSURE, S10246	2	1	LEFT WHEEL WELL, PTU PRESSURE FILTER MODULE	29-22-02
SWITCH - PTU MANUAL, YQZS7 TIME DELAY - (REF 31-01-33, FIG. 101) PTU INDICATION, M10146	1	1	FLIGHT COMPARTMENT, P61 PANEL, GENERATOR FIELD AND HYDRAULIC CONTROL PANEL, M10191	*
PTU ON, M10145 UNIT - POWER TRANSFER (PTU)	1	1	LEFT WHEEL WELL	29-22-01
VALVE - PTU CONTROL, V10007	3	1	RIGHT WHEEL WELL	29-22-03

^{*} SEE THE WDM EQUIPMENT LIST

Hydraulic Power Transfer Unit (PTU) System - Component Index Figure 101

EFFECTIVITY-

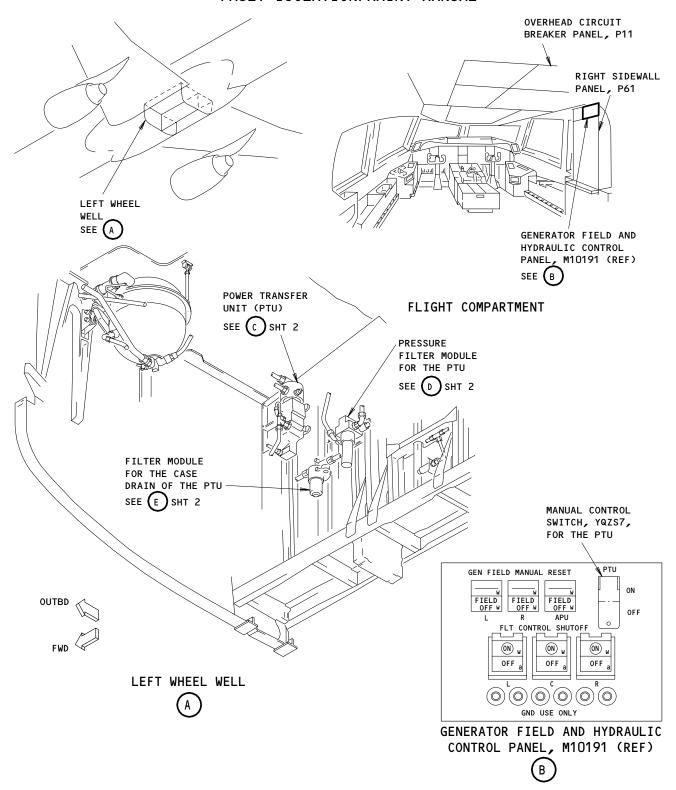
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FAULT ISOLATION/MAINT MANUAL

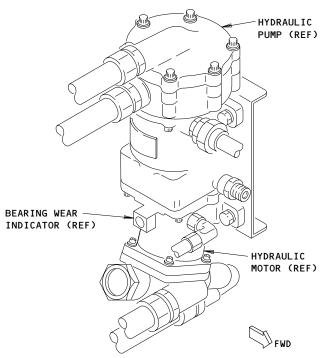


Hydraulic Power Transfer Unit (PTU) System - Component Location Figure 102 (Sheet 1)

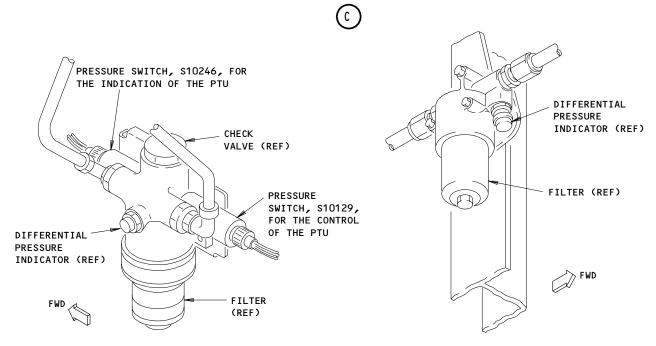
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POWER TRANSFER UNIT (PTU)



PRESSURE FILTER MODULE FOR THE PTU

FILTER MODULE FOR THE CASE DRAIN OF THE PTU

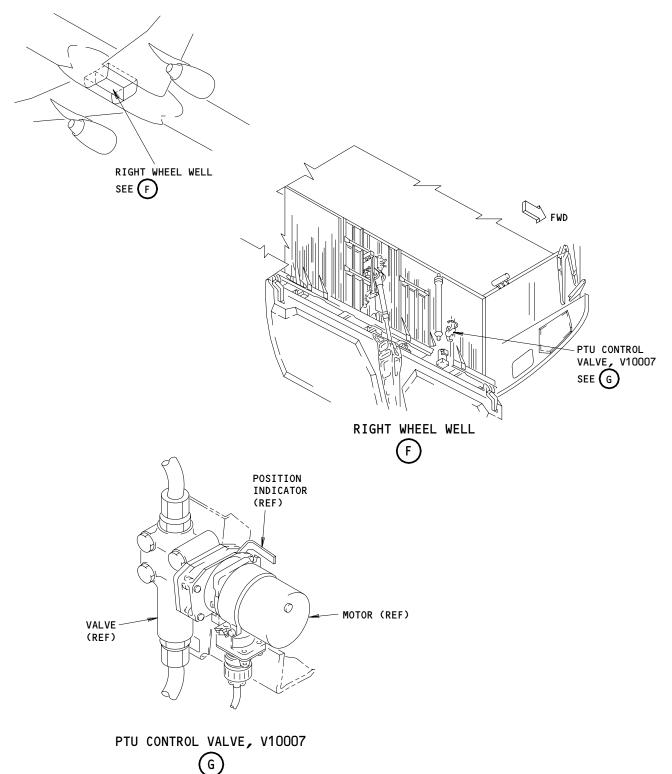
Hydraulic Power Transfer Unit (PTU) System - Component Location (Details from Sht 1)
Figure 102 (Sheet 2)

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Hydraulic Power Transfer Unit (PTU) System - Component Location Figure 102 (Sheet 3)

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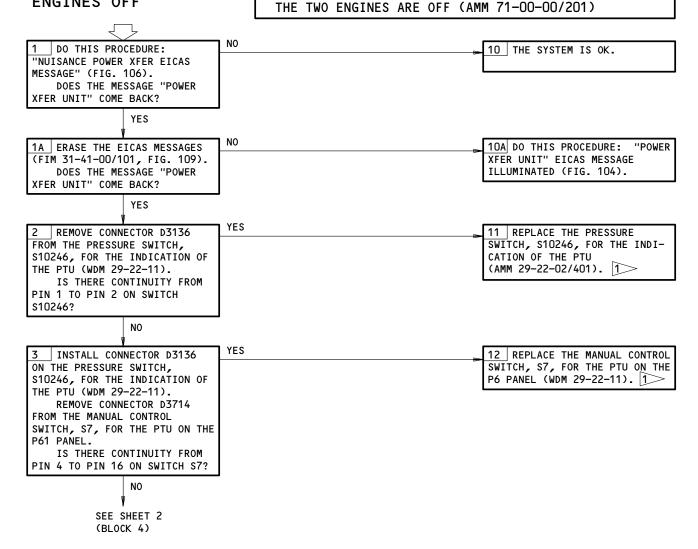
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MAKE SURE THIS CIRCUIT BREAKER IS CLOSED: 11D31

"POWER XFER UNIT"
EICAS MESSAGE SHOWN
WITH AIRPLANE ON
THE GROUND AND BOTH
ENGINES OFF

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
ELECTRICAL POWER IS ON AND THE STANDBY POWER
SWITCH, ON THE P5 PANEL, IS IN THE AUTO
POSITION (AMM 24-22-00/201)
LEFT AND RIGHT HYDRAULIC SYSTEM POWER IS OFF
(AMM 29-11-00/201)



1> ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109)

POWER XFER UNIT EICAS Message Shown with Airplane on the Ground and Both Engines off Figure 103 (Sheet 1)

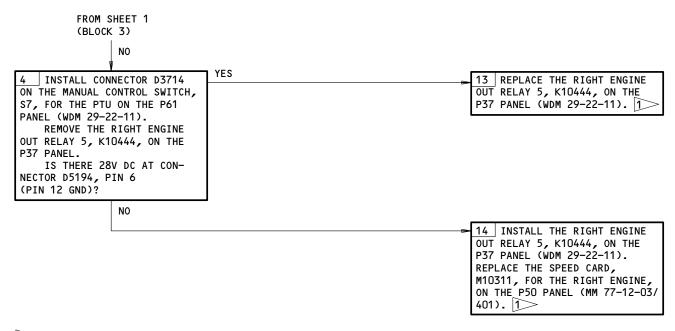
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1> ERASE THE MESSAGE "POWER XFER UNIT" (31-41-00, FIG. 109)

POWER XFER UNIT EICAS Message Shown with Airplane on the Ground and Both Engines off Figure 103 (Sheet 2)

ALL

ALL

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MAKE SURE THIS CIRCUIT BREAKER IS CLOSED: 11D31

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: ELECTRICAL POWER IS ON AND THE STANDBY POWER SWITCH, ON THE P5 PANEL, IS IN THE AUTO POSITION (AMM 24-22-00/201)

THE LEFT HYDRAULIC SYSTEM POWER IS OFF (AMM 29-11-00/201)

THE RIGHT HYDRAULIC SYSTEM IS PRESSURIZED WITH A HYDRAULIC SERVICE CART (AMM 29-11-00/201) THE TWO ENGINES ARE OFF (AMM 71-00-00/201) THE PTU MANUAL SWITCH IS IN THE OFF POSITION

"POWER XFER UNIT" EICAS MESSAGE ILLUMINATED

NO DO THIS PROCEDURE: 41 | THE SYSTEM IS OK. "NUISANCE POWER XFER EICAS MESSAGE" (FIG. 106). DOES THE MESSAGE "POWER XFER UNIT" COME BACK? YFS SEE SHEET 5 1A PUT THE CARD MOUNTED (BLOCK 11) TOGGLE SWITCH IN THE SIMULATE ENGINE RUN POSITION OR INSTALL A JUMPER BETWEEN TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE, ON THE P50 PANEL, AND A GROUND. ERASE THE EICAS MESSAGES (FIM 31-41-00/101, FIG. 109). DOES THE MESSAGE "POWER XFER UNIT" COME BACK? YFS PUSH THE "ELEC/HYD" SWITCH 25 REMOVE CONNECTOR D6240 41A REPLACE THE PRESSURE ON THE "EICAS MAINT" PANEL. SWITCH, S10540, FOR THE LEFT FROM THE PRESSURE SWITCH, IS THE PRESSURE IN THE ENGINE-DRIVEN PUMP \$10540, FOR THE LEFT ENGINE-DRIVEN PUMP (WDM 29-22-11). (AMM 29-11-17/401), AND THE LEFT HYDRAULIC SYSTEM MORE THAN 2600 PSI? IS THERE CONTINUITY FROM LEFT ENGINE OUT RELAY 4 PIN 1 TO PIN 2 ON THE PRESSURE K10398 (WDM 29-22-11). 1> SWITCH, \$10540? NO SEE SHEET 3 (BLOCK 5) SEE SHEET 2 (BLOCK 3)

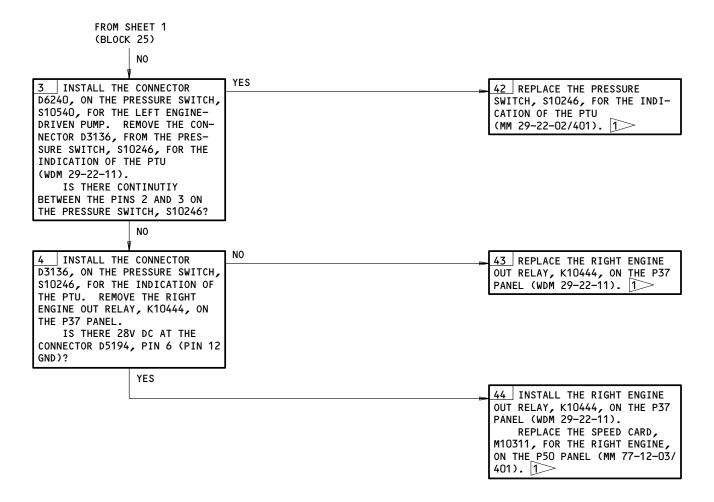
RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE ON THE P50 PANEL. ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109).

POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 1)

ALL

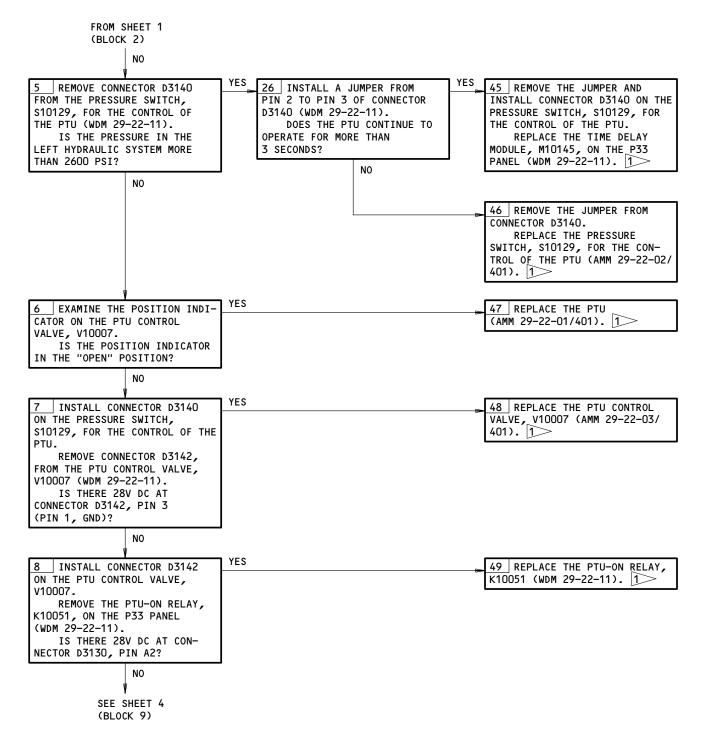
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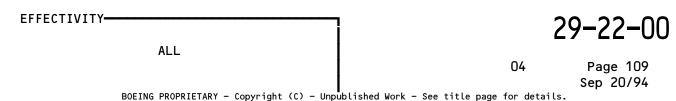
POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 2)

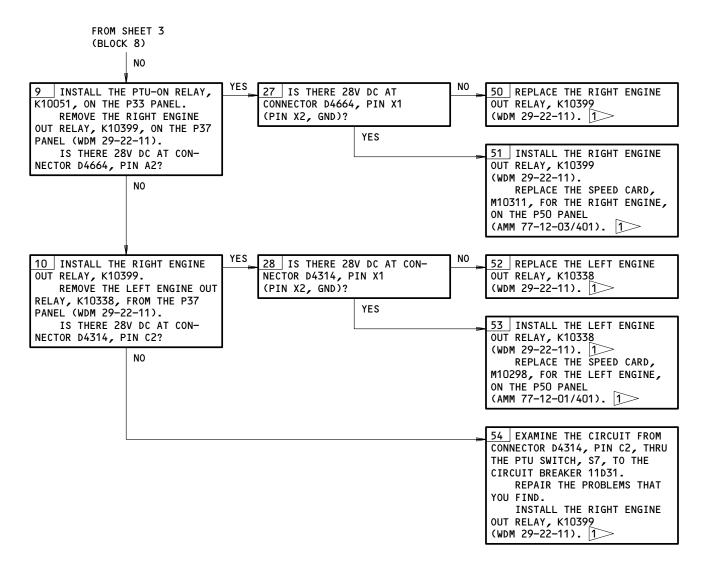
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RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE ON THE P50 PANEL. ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109).

POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 3)

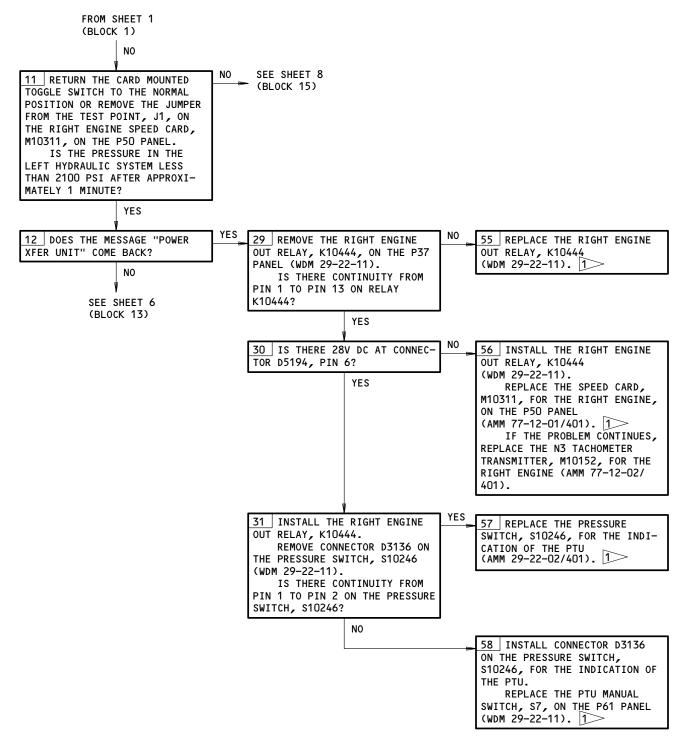




RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE ON THE P50 PANEL. ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109).

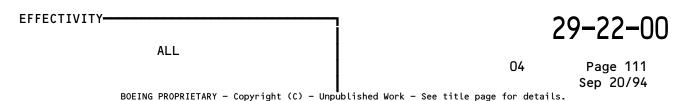
POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 4)

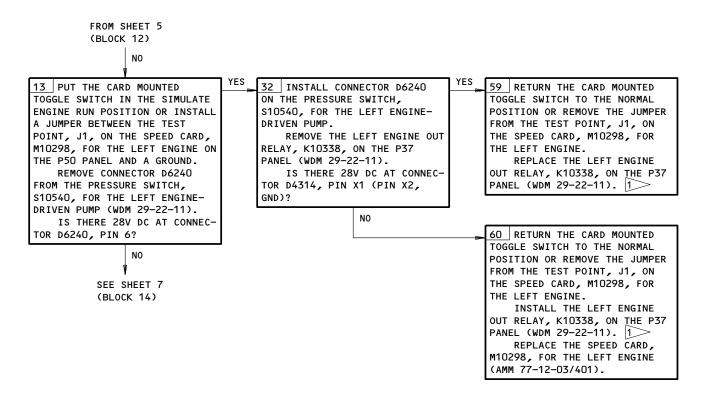




RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE ON THE P50 PANEL. ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109).

POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 5)





POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 6)

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FROM SHEET 6 (BLOCK 13)

YES

14 RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10298, FOR THE LEFT ENGINE ON THE P50 PANEL.

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

DISCONNECT THE PRESSURE HOSE FOR THE LEFT ENGINE-DRIVEN PUMP (AMM 29-11-05/ 401).

CONNECT THE HYDRAULIC SER-VICE CART TO THE PRESSURE HOSE FOR THE LEFT ENGINE-DRIVEN PUMP AND THE RETURN CONNECTION FOR THE GROUND POWER OF THE LEFT HYDRAULIC SYSTEM (AMM 29-11-00/201).

PRESSURIZE THE LEFT SYSTEM TO 3000 PSI WITH THE SERVICE

DO A CONTINUITY CHECK FROM PIN 5 TO PIN 6 ON THE PRESSURE SWITCH, S10540, FOR THE LEFT ENGINE-DRIVEN PUMP (WDM 29-22-11).

IS THERE CONTINUITY FROM PIN 5 TO PIN 6 ON THE PRESSURE SWITCH, S10540?

61 REMOVE THE HYDRAULIC SER-VICE CART (AMM 29-11-00/201). INSTALL THE PRESSURE HOSE FOR THE LEFT ENGINE-DRIVEN PUMP (AMM 29-11-05/401). REPLACE THE PRESSURE SWITCH, S10540, FOR THE LEFT

ENGINE-DRIVEN PUMP (WDM 29-22-11). 1>

NO

62 REMOVE THE HYDRAULIC SER-VICE CART (AMM 29-11-00/201). INSTALL THE PRESSURE HOSE FOR THE LEFT ENGINE-DRIVEN PUMP (AMM 29-11-05/401). INSTALL CONNECTOR D6240 ON THE PRESSURE SWITCH, \$10540 (WDM 29-22-11). THE SYSTEM IS OK. 1>

TEST RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE ON THE P50 PANEL. ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109).

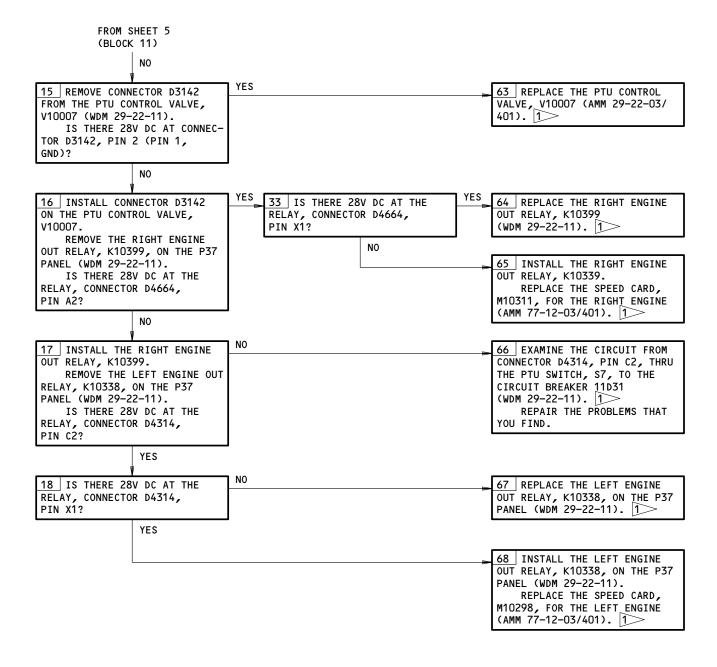
POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 7)

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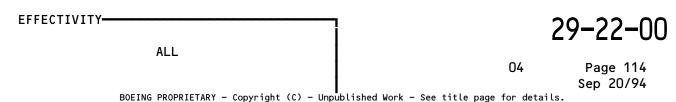
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RETURN THE CARD MOUNTED TOGGLE SWITCH TO THE NORMAL POSITION OR REMOVE THE JUMPER FROM THE TEST POINT, J1, ON THE SPEED CARD, M10311, FOR THE RIGHT ENGINE ON THE P50 PANEL. ERASE THE MESSAGE "POWER XFER UNIT" (FIM 31-41-00/101, FIG. 109).

POWER XFER UNIT EICAS Message Illuminated Figure 104 (Sheet 8)

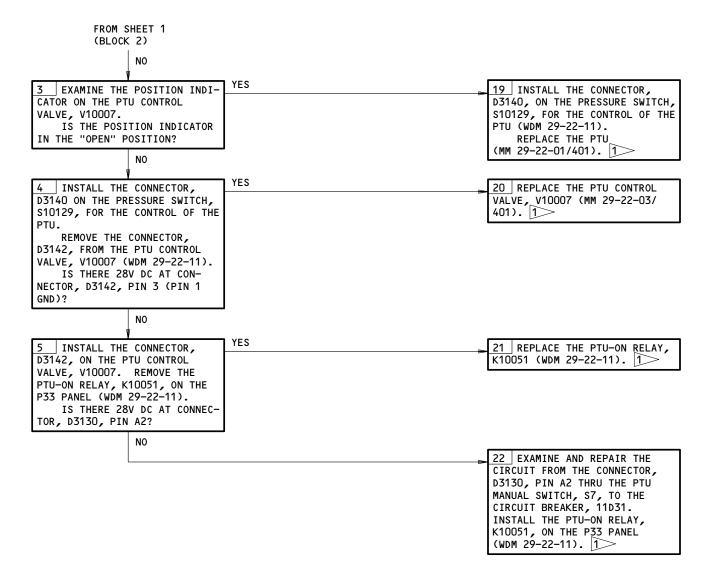


PREREQUISITES MAKE SURE THIS CIRCUIT BREAKER IS CLOSED: 11D31 MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: ELECTRICAL POWER IS ON AND THE STANDBY POWER SWITCH, ON THE P5 PANEL, IS IN THE AUTO POSITION (AMM 24-22-00/201) THE LEFT HYDRAULIC SYSTEM POWER IS OFF (AMM 29-11-00/201) "POWER XFER UNIT" THE RIGHT HYDRAULIC SYSTEM IS PRESSURIZED WITH A **EICAS MESSAGE** HYDRAULIC SERVICE CART OR THE RIGHT ACMP ILLUMINATED WITH (AMM 29-11-00/201) PTU SWITCH ON THE TWO ENGINES ARE OFF (AMM 71-00-00/201) THE PTU MANUAL SWITCH IS IN THE OFF POSITION NO DO THIS PROCEDURE: 10 THE SYSTEM IS OK. "NUISANCE POWER XFER EICAS MESSAGE" (FIG. 106). DOES THE MESSAGE "POWER XFER UNIT" COME BACK? YES YES 1A PUT THE PTU MANUAL SWITCH, 10A REMOVE CONNECTOR D3136 15 REPLACE THE PRESSURE S7, ON THE P61 PANEL TO THE ON THE PRESSURE SWITCH, SWITCH, S10246, FOR THE INDI-"ON" POSITION. S10246, FOR THE INDICATION OF CATION OF THE PTU PUSH THE "ELEC/HYD" SWITCH THE PTU (WDM 29-22-11). (AMM 29-22-02/401). 1>> ON THE "EICAS MAINT" PANEL. IS THERE CONTINUITY FROM IS THE PRESSURE IN THE PIN 2 TO PIN 3 ON PRESSURE LEFT HYDRAULIC SYSTEM MORE SWITCH, S10246? THAN 2600 PSI? NO NO 16 | INSTALL CONNECTOR D3136 ON THE PRESSURE SWITCH, S10246, FOR THE INDICATION OF THE PTU. REPLACE THE PTU MANUAL SWITCH, S7, ON THE P61 PANEL (WDM 29-22-11). 1> YES YES 17 REMOVE THE JUMPER AND REMOVE CONNECTOR D3140 11 INSTALL A JUMPER FROM FROM THE PRESSURE SWITCH, PIN 2 TO PIN 3 OF CONNECTOR INSTALL CONNECTOR D3140 ON THE PRESSURE SWITCH, S10129, FOR S10129, FOR THE CONTROL OF THE D3140 (WDM 29-22-11). PTU (WDM 29-22-11). DOES THE PTU CONTINUE TO THE CONTROL OF THE PTU. IS THE PRESSURE IN THE OPERATE FOR MORE THAN REPLACE THE TIME DELAY LEFT HYDRAULIC SYSTEM MORE 3 SECONDS? MODULE, M10146, ON THE P33 PANEL (WDM 29-22-11). 1 THAN 2600 PSI? NO NO 18 REMOVE THE JUMPER FROM SEE SHEET 2 (BLOCK 3) CONNECTOR D3140. REPLACE THE PRESSURE SWITCH, S10129, FOR THE CON-TROL OF THE PTU (AMM 29-22-02/401). 1>> POWER XFER UNIT EICAS Message Illuminated with PTU Switch ON

Figure 105 (Sheet 1)

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138593



1 ERASE THE MESSAGE "POWER XFER UNIT" (31-41-00, FIG. 109)

POWER XFER UNIT EICAS Message Illuminated with PTU Switch ON Figure 105 (Sheet 2)



PREREQUISITES

MAKE SURE THIS CIRCUIT BREAKER IS CLOSED: 11D31

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION: ELECTRICAL POWER IS ON AND THE STANDBY POWER SWITCH, ON THE P5 PANEL, IS IN THE AUTO POSITION (AMM 24-22-00/201)

LEFT AND RIGHT HYDRAULIC SYSTEM POWER IS OFF (AMM 29-11-00/201)

THE TWO ENGINES ARE OFF (AMM 71-00-00/201)

NUISANCE POWER XFER EICAS MESSAGE

E08593

YFS SET THE LEFT ACMP SWITCH 10 THE PROBLEM IS NOT A TO "OFF" POSITION. NUISANCE MESSAGE. SHUT DOWN CHECK THAT NO HYDRAULIC ENGINES AND RETURN AIRPLANE TO PRESSURE IS INDICATED ON NORMAL CONDITION. RETURN TO ORIGINAL "POWER EICAS. XFER UNIT" MESSAGE, FIG. 103, FRASE THE FICAS MESSAGES (FIM 31-41-00/101, FIG. 109). 104 OR 105, AND CONTINUE FAULT START THE RIGHT ENGINE AND ISOLATION. RUN AT STABLE IDLE. DOES THE MESSAGE "POWER XFER UNIT" COME BACK? NO YES ENSURE THE RIGHT HYDRAULIC 11 THE PROBLEM IS NOT A SYSTEM IS PRESSURIZED. NUISANCE MESSAGE. SHUT DOWN DOES THE MESSAGE "POWER ENGINES AND RETURN AIRPLANE TO XFER UNIT" COME BACK? NORMAL CONDITION. RETURN TO ORIGINAL "POWER XFER UNIT" MESSAGE, FIG. 103, 104 OR 105, AND CONTINUE FAULT ISOLATION. YES MAKE SURE LEFT HYDRAULIC 12 | THE PROBLEM IS NOT A PRESSURE INDICATION FOR THE NUISANCE MESSAGE. SHUT DOWN LEFT ENGINE ON EICAS IS NOT ENGINES AND RETURN AIRPLANE TO LESS THAN 2600 PSI. NORMAL CONDITION. START LEFT ENGINE AND RUN RETURN TO ORIGINAL "POWER AT STABLE IDLE. XFER UNIT" MESSAGE, FIG. 103, DOES THE MESSAGE "POWER 104 OR 105, AND CONTINUE FAULT XFER UNIT" COME BACK? ISOLATION. YFS SET THE LEFT HYDRAULIC EDP 13 | THE PROBLEM IS NOT A SWITCH TO THE "OFF" POSITION. NUISANCE MESSAGE. SHUT DOWN DOES THE MESSAGE "POWER ENGINES AND RETURN AIRPLANE TO XFER UNIT" COME BACK? NORMAL CONDITION. RETURN TO ORIGINAL "POWER NO XFER UNIT" MESSAGE, FIG. 103, 104 OR 105, AND CONTINUE FAULT SEE SHEET 2 ISOLATION. (BLOCK 5)

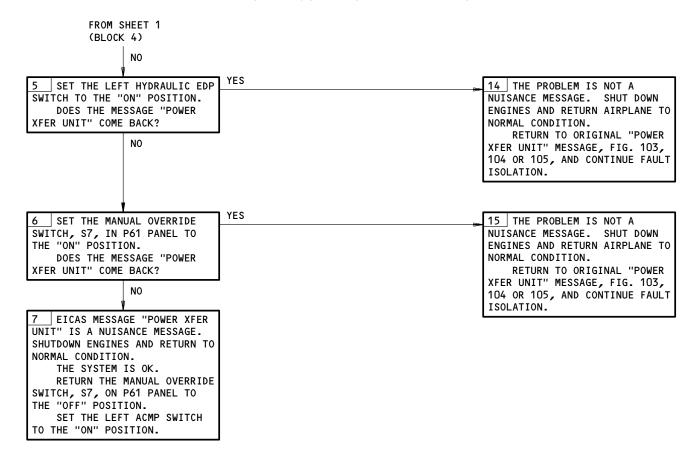
NUISANCE POWER XFER EICAS Message Figure 106 (Sheet 1)

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NUISANCE POWER XFER EICAS Message Figure 106 (Sheet 2)

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HYDRAULIC PRESSURE INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS	1		FLIGHT COMPARTMENT, P11 PANEL	
SYSTEM PRESS CENTER, C1082		1	11K18	*
SYSTEM PRESS LEFT, C1080		1	11K17	*
SYSTEM PRESSURE RIGHT, C1081 COMPUTER - (REF 31-41-00, FIG. 101) EICAS L, M10181 EICAS R, M10182		1	11K26	*
LIGHT - CENTER SYSTEM LOW PRESSURE INDICATOR, YQTL5	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - LEFT SYSTEM LOW PRESSURE INDICATOR, YQTL1	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - RIGHT SYSTEM LOW PRESSURE INDICATOR, YQTL3 MODULE - (REF 29-11-00, FIG. 101) CENTER SYSTEM ACMP PRESSURE/CASE DRAIN FILTER LEFT SYSTEM ACMP PRESSURE/CASE DRAIN FILTER LEFT SYSTEM EDP PRESSURE/CASE DRAIN FILTER RIGHT SYSTEM ACMP PRESSURE/CASE DRAIN FILTER RIGHT SYSTEM EDP PRESSURE/CASE DRAIN FILTER RIGHT SYSTEM EDP PRESSURE/CASE DRAIN FILTER PANEL - (REF 29-11-00, FIG. 101) HYDRAULIC CONTROL, M10050 SWITCH - CENTER SYSTEM ACMP C1 PRESSURE,	5	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050 197KL, AFT LEFT WING-TO-BODY	*
\$10003			FAIRING, CENTER SYSTEM ACMP PRESSURE/CASE DRAIN FILTER MODULE	
SWITCH - CENTER SYSTEM ACMP C2 PRESSURE, \$10016	5	1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM ACMP PRESSURE/CASE DRAIN FILTER MODULE	*
SWITCH - CENTER SYSTEM PRESSURE, S10002	5	1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM ACMP PRESSURE/CASE DRAIN FILTER MODULE	*
SWITCH - LEFT SYSTEM ACMP PRESSURE, S25	4	1	LEFT WHEEL WELL, LEFT SYSTEM ACMP PRESSURE/CASE DRAIN FILTER MODULE	*

^{*} SEE THE WDM EQUIPMENT LIST

Hydraulic Pressure Indicating System - Component Index Figure 101 (Sheet 1)

EFFECTIVITY-

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SWITCH - LEFT SYSTEM EDP PRESSURE, S10540	3	1	434AL, LEFT NACELLE STRUT - AFT FAIRING, LEFT SYSTEM EDP PRESSURE/CASE DRAIN FILTER MODUL F	*
SWITCH - LEFT SYSTEM PRESSURE, S27	3	1	434AL, LEFT NACELLE STRUT - AFT FAIRING, LEFT SYSTEM EDP PRESSURE/CASE DRAIN FILTER MODULE	*
SWITCH - RIGHT SYSTEM ACMP PRESSURE, S30	4	1	RIGHT WHEEL WELL, RIGHT SYSTEM PRESSURE/CASE DRAIN FILTER MODULE	*
SWITCH - RIGHT SYSTEM EDP PRESSURE, S10541	3	1	444AL, RIGHT NACELLE STRUT - AFT FAIRING, RIGHT SYSTEM EDP PRESSURE/CASE DRAIN FILTER MODULE	*
SWITCH - RIGHT SYSTEM PRESSURE, S32 SWITCH/LIGHT - (REF 29-11-00, FIG. 101) CENTER SYSTEM ACMP C1, YQTS2 CENTER SYSTEM ACMP C2, YQTS3 LEFT SYSTEM ACMP, YQTS5 LEFT SYSTEM EDP, YQTS1 RIGHT SYSTEM ACMP, YQTS6 RIGHT SYSTEM EDP, YQTS4	3	1	444AL, RIGHT NACELLE STRUT - AFT FAIRING, RIGHT SYSTEM EDP PRESSURE/CASE DRAIN FILTER MODULE	*
TIME DELAY - (REF 31-01-33, FIG. 101) LEFT SYSTEM ACMP PRESSURE LIGHT, M10557 LEFT SYSTEM PRESSURE LIGHT, M10558 TIME DELAY - (REF 31-01-36, FIG. 101) RIGHT SYSTEM ACMP PRESSURE LIGHT, M10559 RIGHT SYSTEM PRESSURE LIGHT, M10560		1 1 1		* * *
TRANSMITTER - CENTER SYSTEM PRESSURE, M342 TRANSMITTER - LEFT SYSTEM PRESSURE, M341 TRANSMITTER - RIGHT SYSTEM PRESSURE, M343	2 2 2	1 1 1	LEFT WHEEL WELL LEFT WHEEL WELL RIGHT WHEEL WELL	29-31-01 29-31-01 29-31-01

^{*} SEE THE WDM EQUIPMENT LIST

Hydraulic Pressure Indicating System - Component Index Figure 101 (Sheet 2)

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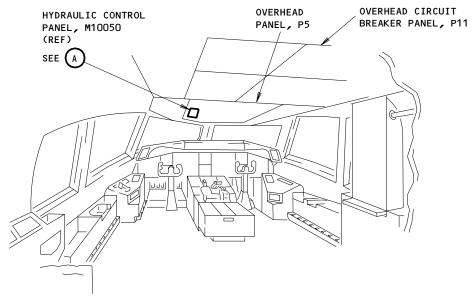
29-31-00

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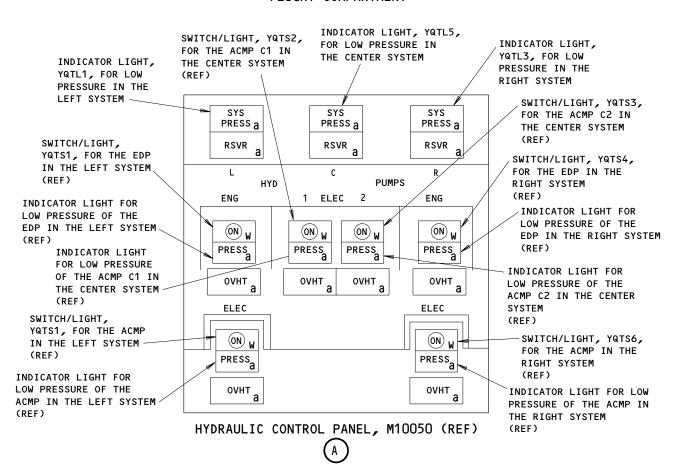
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FLIGHT COMPARTMENT



Hydraulic Pressure Indicating System - Component Location Figure 102 (Sheet 1)

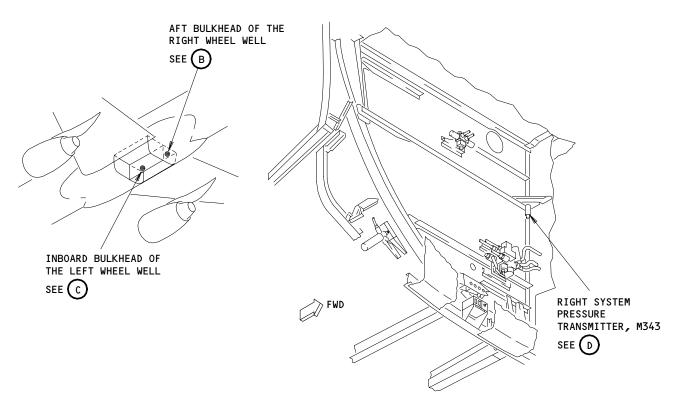
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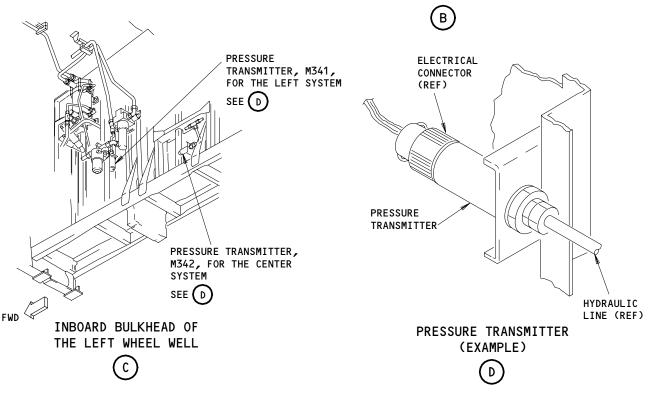
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AFT BULKHEAD OF THE RIGHT WHEEL WELL



Hydraulic Pressure Indicating System - Component Location Figure 102 (Sheet 2)

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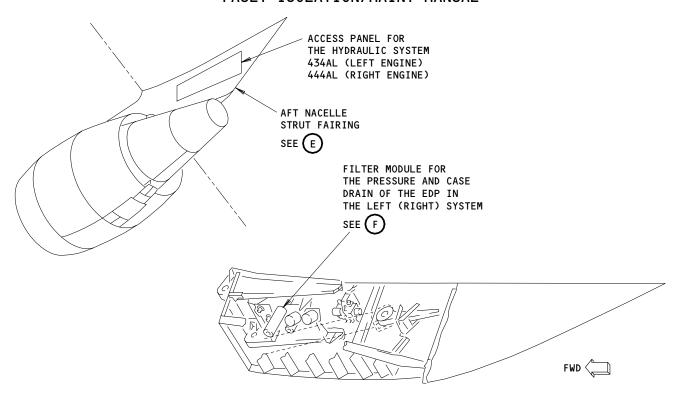
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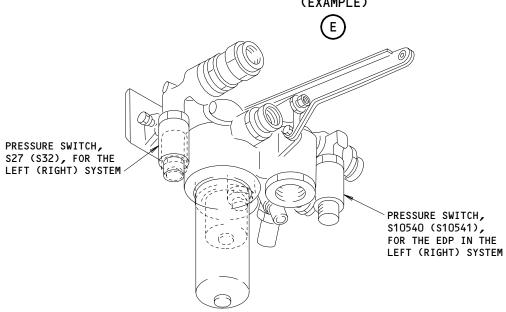
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FAULT ISOLATION/MAINT MANUAL



AFT NACELLE STRUT FAIRING (EXAMPLE)



FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE EDP IN THE LEFT (RIGHT) SYSTEM



Hydraulic Pressure Indicating System - Component Location Figure 102 (Sheet 3)

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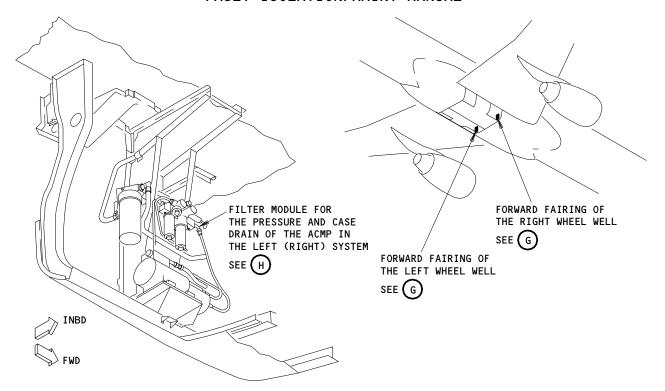
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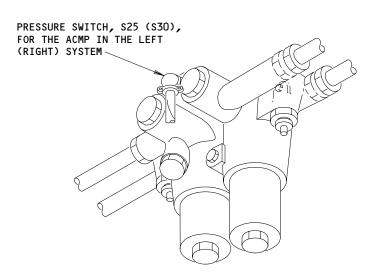


FAULT ISOLATION/MAINT MANUAL



FORWARD FAIRING OF THE LEFT WHEEL WELL (THE FORWARD FAIRING OF THE RIGHT WHEEL WELL IS OPPOSITE)





FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE ACMP IN THE LEFT (RIGHT) SYSTEM



Hydraulic Pressure Indicating System - Component Location Figure 102 (Sheet 4)

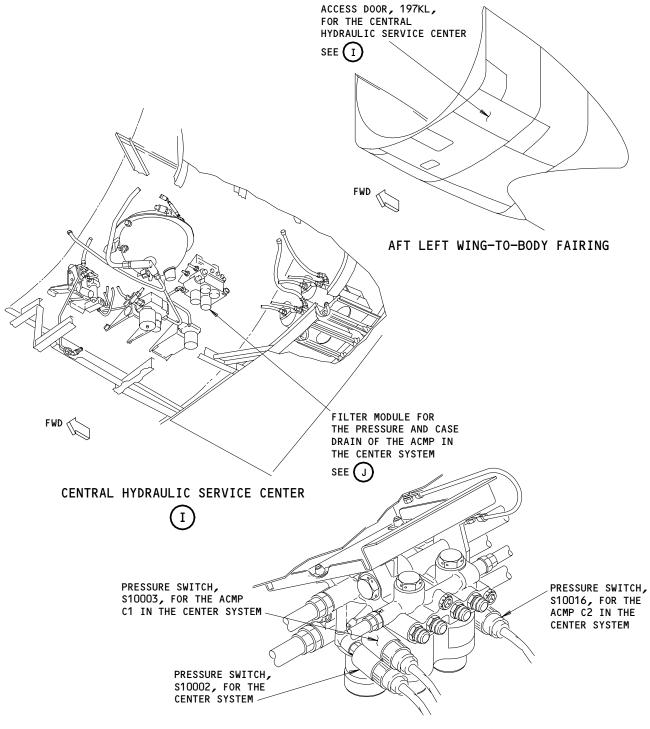
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FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE ACMP IN THE CENTER SYSTEM



Hydraulic Pressure Indicating System - Component Location Figure 102 (Sheet 5)

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HYDRAULIC FLUID TEMPERATURE INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
COMPUTER - (REF 31-41-00, FIG. 101) EICAS L, M10181 EICAS R, M10182				
LIGHT - CENTER SYSTEM ACMP C1 OVERHEAT INDICATOR, YQTL8	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - CENTER SYSTEM ACMP C2 OVERHEAT INDICATOR, YQTL9	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - LEFT SYSTEM ACMP OVERHEAT INDICATOR,	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - LEFT SYSTEM EDP OVERHEAT INDICATOR, YQTL7	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - RIGHT SYSTEM ACMP OVERHEAT INDICATOR, YQTL12	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - RIGHT SYSTEM EDP OVERHEAT INDICATOR, YQTL10 MODULE - (REF 29-11-00, FIG. 101) LEFT SYSTEM EDP PRESSURE/CASE DRAIN FILTER RIGHT SYSTEM EDP PRESSURE/CASE DRAIN FILTER PANEL - (REF 29-11-00, FIG. 101) HYDRAULIC CONTROL, M10050 PUMP (ACMP) - (REF 29-11-00, FIG. 101) CENTER SYSTEM ALTERNATING CURRENT MOTOR C1, M10029 CENTER SYSTEM ALTERNATING CURRENT MOTOR C2, M10030 LEFT SYSTEM ALTERNATING CURRENT MOTOR, M231 RIGHT SYSTEM ALTERNATING CURRENT MOTOR, M234 RESERVOIR - (REF 29-11-00, FIG. 101) CENTER SYSTEM HYDRAULIC LEFT SYSTEM HYDRAULIC RIGHT SYSTEM HYDRAULIC	1	1	FLIGHT COMPARTMENT, P5 PÁNEL, HYDRAULIC CONTROL PANEL, M10050	*

^{*} SEE THE WDM EQUIPMENT LIST

Hydraulic Fluid Temperature Indicating System - Component Index Figure 101 (Sheet 1)

EFFECTIVITY-

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SWITCH - CENTER SYSTEM ACMP C1 CASE DRAIN TEMPERATURE		1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM ACMP C1, M10029	*
SWITCH - CENTER SYSTEM ACMP C2 CASE DRAIN TEMPERATURE		1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM ACMP C2, M10030	*
SWITCH - LEFT SYSTEM ACMP CASE DRAIN TEMPERATURE		1	LEFT WHEEL WELL, LEFT SYSTEM ACMP, M231	*
SWITCH - LEFT SYSTEM EDP CASE DRAIN TEMPERATURE, S10006	2	1	434AL, LEFT NACELLE STRUT - AFT FAIRING, LEFT SYSTEM EDP PRESS- URE/CASE DRAIN FILTER MODULE	29–32–01
SWITCH - RIGHT SYSTEM ACMP CASE DRAIN TEMPERATURE		1	RIGHT WHEEL WELL, RIGHT SYSTEM ACMP, M234	*
SWITCH - RIGHT SYSTEM EDP CASE DRAIN TEMPERATURE, S10007	2	1	444AL, RIGHT NACELLE STRUT - AFT FAIRING, RIGHT SYSTEM EDP PRESS- URE/CASE DRAIN FILTER MODULE	29–32–01
TRANSMITTER - CENTER SYSTEM FLUID TEMPERATURE, TS5194	4	1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM HYDRAULIC RESERVOIR	29–32–03
TRANSMITTER - LEFT SYSTEM FLUID TEMPERATURE, TS5193	3	1	LEFT WHEEL WELL, LEFT SYSTEM HYDRAULIC RESERVOIR	29-32-03
TRANSMITTER - RIGHT SYSTEM FLUID TEMPERATURE, TS5195	3	1	RIGHT WHEEL WELL, RIGHT SYSTEM HYDRAULIC RESERVOIR	29–32–03

^{*} SEE THE WDM EQUIPMENT LIST

Hydraulic Fluid Temperature Indicating System - Component Index Figure 101 (Sheet 2)

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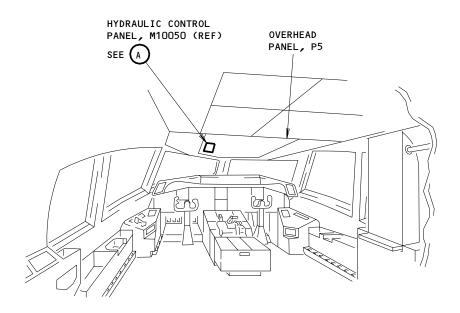
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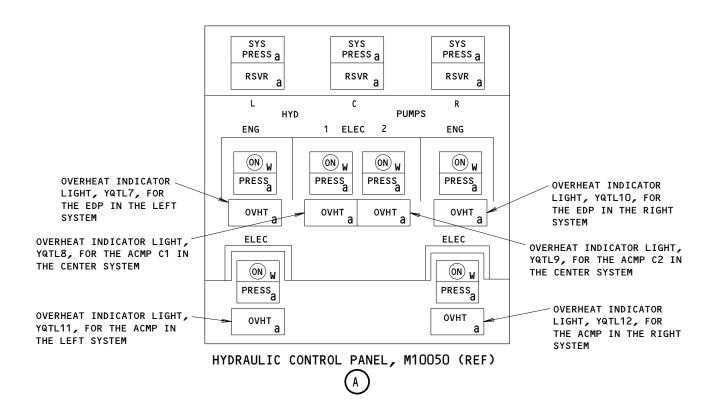
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FLIGHT COMPARTMENT



Hydraulic Fluid Temperature Indicating System - Component Location Figure 102 (Sheet 1)

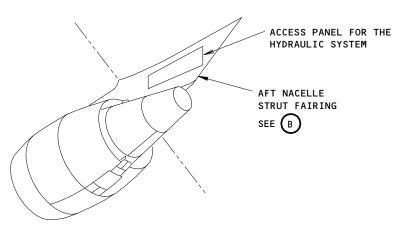
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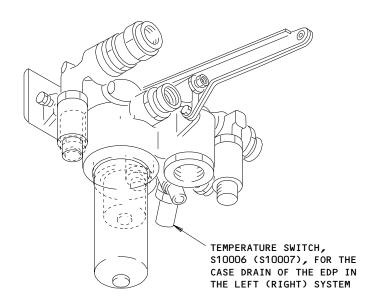


FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE EDP IN THE LEFT (RIGHT) SYSTEM

AFT NACELLE STRUT FAIRING

FWD <





FILTER MODULE FOR THE PRESSURE AND CASE DRAIN OF THE EDP IN THE LEFT (RIGHT) SYSTEM



Hydraulic Fluid Temperature Indicating System - Component Location Figure 102 (Sheet 2)

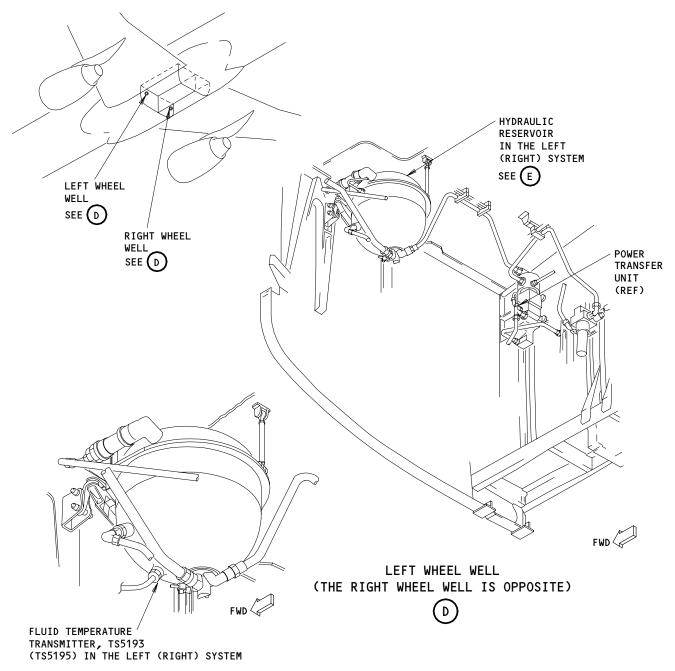
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HYDRAULIC RESERVOIR IN THE LEFT (RIGHT) SYSTEM



Hydraulic Fluid Temperature Indicating System - Component Location Figure 102 (Sheet 3)

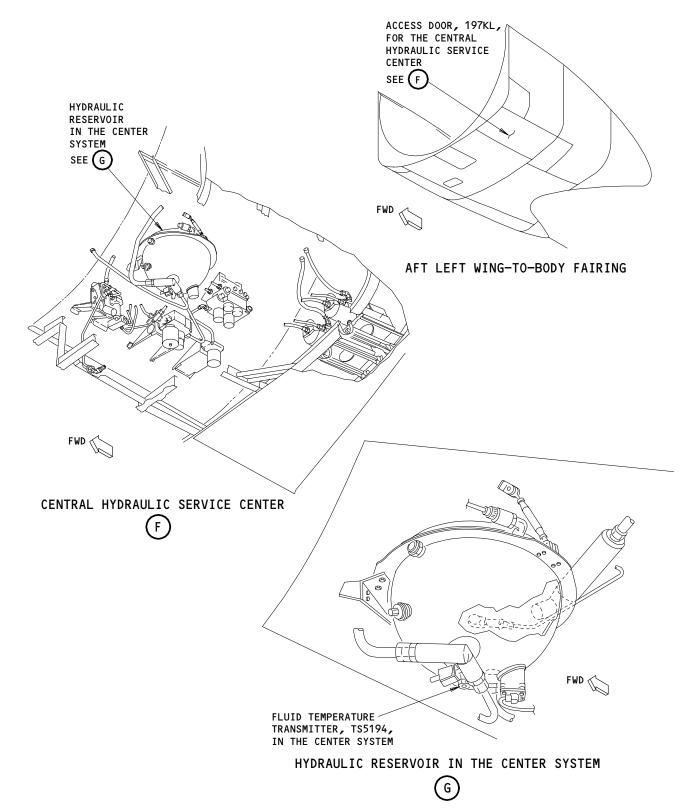
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Hydraulic Fluid Temperature Indicating System - Component Location Figure 102 (Sheet 4)

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HYDRAULIC FLUID QUANTITY INDICATING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER/- HYDRAULICS QTY CTR, C4192 HYDRAULICS QTY LEFT, C1101 HYDRAULICS QTY RIGHT, C4193	1	1 1 1	FLIGHT COMPARTMENT, P11 PANEL 11K19 11K20 11K21	* *
COMPUTER - (FIM 31-41-00/101) EICAS L, M10181 EICAS R, M10182				
DIODE - (FIM 31-01-36/101) CENTER SYSTEM - HYDRAULIC QUANTITY ISOLATION, R10195 LEFT SYSTEM - HYDRAULIC QUANTITY ISOLATION, R10194				
RIGHT SYSTEM - HYDRAULIC QUANTITY ISOLATION, R10196 INDICATOR - (FIM 29-18-00/101) RESERVOIR FILL, N29				
LIGHT - CENTER SYSTEM LOW QUANTITY/RESERVOIR PRESSURE INDICATOR, YQTL6	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - LEFT SYSTEM LOW QUANTITY/RESERVOIR PRESSURE INDICATOR, YQTL2	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - RIGHT SYSTEM LOW QUANTITY/RESERVOIR PRESSURE INDICATOR, YQTL4 PANEL - (FIM 29-11-00/101) HYDRAULIC CONTROL, M10050 RESERVOIR - (FIM 29-11-00/101) CENTER SYSTEM HYDRAULIC LEFT SYSTEM HYDRAULIC RIGHT SYSTEM HYDRAULIC	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
SIGHT GLASS - CENTER SYSTEM RESERVOIR	3	1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM HYDRAULIC RESERVOIR	29-33-00
SIGHT GLASS - LEFT SYSTEM RESERVOIR	3	1	LEFT WHEEL WELL, LEFT SYSTEM HYDRAULIC RESERVOIR	29-33-00
SIGHT GLASS - RIGHT SYSTEM RESERVOIR SWITCH - (FIM 29-18-00/101)	3	1	RIGHT WHEEL WELL, RIGHT SYSTEM HYDRAULIC RESERVOIR	29-33-00
HYDRAULIC QUANTITY, S341 TRANSMITTER - CENTER SYSTEM HYDRAULIC FLUID QUANTITY, M339	3	1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM HYDRAULIC RESERVOIR	29-33-01
TRANSMITTER - LEFT SYSTEM HYDRAULIC FLUID QUANTITY, M338	3	1	LEFT WHEEL WELL, LEFT SYSTEM HYDRAULIC RESERVOIR	29-33-01
TRANSMITTÉR - RIGHT SYSTEM HYDRAULIC FLUID QUANTITY, M340	3	1	RIGHT WHEEL WELL, RIGHT SYSTEM HYDRAULIC RESERVOIR	29–33–01
UNIT - HYDRAULIC FLUID QUANTITY MONITOR, M122	3	1	NO. 2 (AFT) CARGO DOOR, 822, AFT CARGO COMPARTMENT, AFT EQUIPMENT CENTER, E6	29-33-51
UNIT - HYDRAULIC FLUID QUANTITY MONITOR, M122	4	1	119BL, MAIN EQUIPMENT CENTER, E3	29-33-51

^{*} SEE THE WDM EQUIPMENT LIST

THE FLUID QUANTITY MONITOR UNIT IS INSTALLED IN THE AFT EQUIPMENT CENTER OR THE MAIN EQUIPMENT CENTER.

Hydraulic Fluid Quantity Indicating System - Component Index Figure 101

EFFECTIVITY-

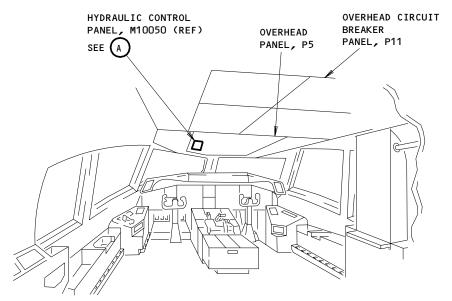
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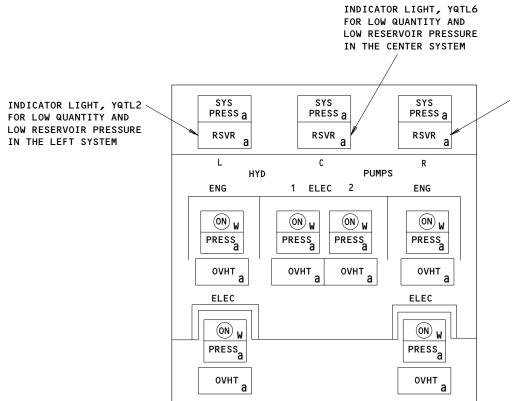
01 Page 101 May 28/99



FAULT ISOLATION/MAINT MANUAL



FLIGHT COMPARTMENT



INDICATOR LIGHT, YQTL4 FOR LOW QUANTITY AND LOW RESERVOIR PRESSURE IN THE RIGHT SYSTEM

HYDRAULIC CONTROL PANEL, M10050 (REF)

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Hydraulic Fluid Quantity Indicating System - Component Location Figure 102 (Sheet 1)

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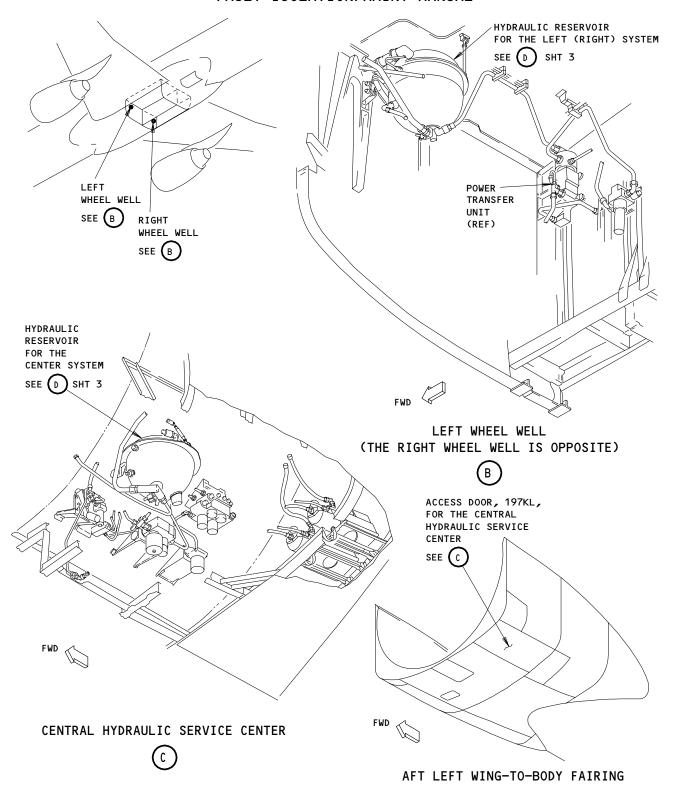
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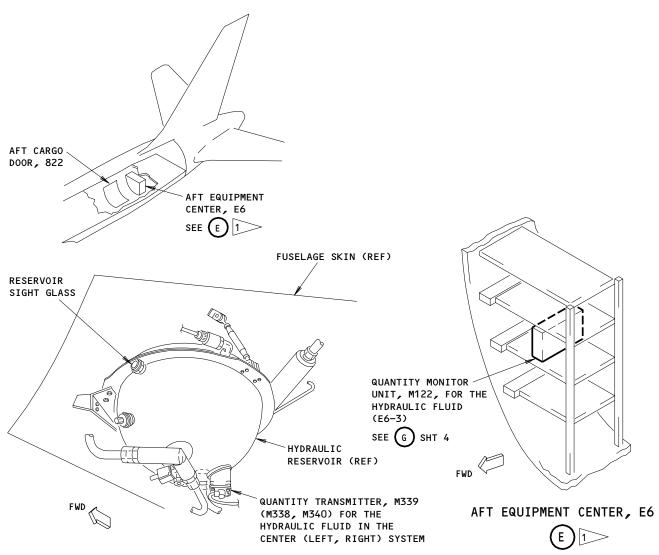
FAULT ISOLATION/MAINT MANUAL



Hydraulic Fluid Quantity Indicating System - Component Location Figure 102 (Sheet 2)

EFFECTIVITY-29-33-00 ALL 01 Page 103 Jun 20/91 BOEING PROPRIETARY - Copyright (C) - Unpublished Work - See title page for details.





HYDRAULIC RESERVOIR IN THE CENTER SYSTEM IS SHOWN (THE HYDRAULIC RESERVOIRS IN THE LEFT AND RIGHT SYSTEMS ARE ALMOST THE SAME)

FROM SHT 2

1 IT IS POSSIBLE THE QUANTITY MONITOR UNIT IS INSTALLED IN THE MAIN EQUIPMENT CENTER.

> Hydraulic Fluid Quantity Indicating System - Component Location Figure 102 (Sheet 3)

EFFECTIVITY-ALL

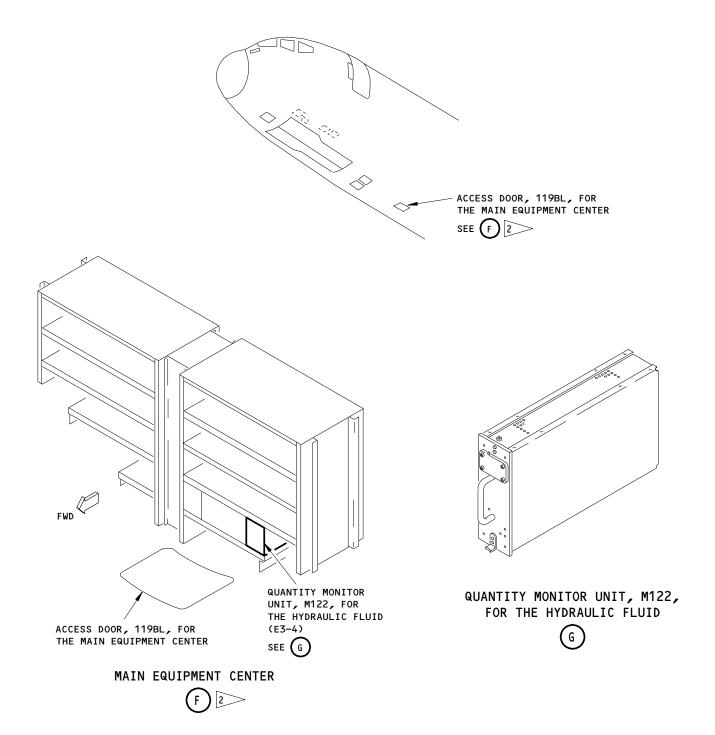
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IT IS POSSIBLE THE QUANTITY MONITOR UNIT IS INSTALLED IN THE AFT EQUIPMENT CENTER.

Hydraulic Fluid Quantity Indicating System - Component Location Figure 102 (Sheet 4)

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PREREQUISITES

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11K19, 11K20, 11K21

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

L (R, C) HYDRAULIC QUANTITY READS HIGH

1 DO A CHECK OF THE FLUID 30 THE SYSTEM IS OK. 20 DRAIN THE FLUID FROM THE L (R, C) SYSTEM RESERVOIR UNTIL THE RESERVOIR FILL LEVEL IN THE L (R, C) SYSTEM RESERVOIR WITH THE SIGHT GLASS ON THE RESERVOIR INDICATOR AT THE CENTRAL (AMM 12-12-01/301).HYDRAULIC SERVICE CENTER SHOWS IS THE FLUID LEVEL ABOVE AT THE FULL LEVEL THE CENTER OF THE SIGHT GLASS (AMM 12-12-01/301). ON THE RESERVOIR? DOES THE PROBLEM CONTINUE? YES 31 REPLACE THE QUANTITY MONITOR UNIT, M122, FOR THE HYDRAULIC FLUID (AMM 29-33-51/ 401). IF THE PROBLEM CONTINUES, REPLACE THE QUANTITY TRANSMITTER, M338 (M340, M339), FOR THE HYDRAULIC FLUID IN THE LEFT (RIGHT, CENTER) SYSTEM (AMM 29-33-01/401). IF THE LEFT OR RIGHT QUANTITY INDICATION SYSTEM IS FOUND TO FUNCTION CORRECTLY BUT FLUID QUANTITY IN EITHER THE LEFT OR RIGHT HYDRAULIC SYSTEM INCREASES, DO THIS PROCEDURE: LEFT (RIGHT) HYDRAULIC SYSTEM QUANTITY INCREASED, RIGHT (LEFT) SYSTEM

L (R,C) Hydraulic Quantity Reads High Figure 103

29-33-00

QUANTITY DECREASED

VALVES.

(FIM 29-11-00/101, FIG. 121, TO CHECK FOR POSSIBLE LEAKAGE IN THE ANTISKID SHUTTLE



PREREQUISITES

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

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED: 11K19,11K20,11K21

MAKE SURE THE AIRPLANE IS IN THE CONFIGURATION THAT FOLLOWS:

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

L (R,C) HYDRAULIC QUANTITY INDICATES RF (REFILL) NEXT TO QUANTITY READING

NO ADD FLUID TO THE RESERVOIR REPLACE THE QUANTITY MONI-UNTIL THE FLUID LEVEL IS AT TOR UNIT, M122, FOR THE THE CENTER OF THE SIGHT GLASS HYDRAULIC FLUID (MM 29-33-51/ ON THE RESERVOIR 401). (MM 12-12-01/301). PUSH THE IF THE PROBLEM CONTINUES, "ELEC/HYD" SWITCH ON THE REPLACE THE QUANTITY TRANS-"EICAS MAINT" PANEL. MITTER, M338 (M340,M339) FOR IS THE HYDRAULIC QUANTITY THE HYDRAULIC FLUID IN THE INDICATION 1.00 ±0.08 (LEFT, LEFT (RIGHT, CENTER) SYSTEM RIGHT SYSTEM) OR 1.00 ±0.14 (MM 29-33-01/401). (CENTER SYSTEM)? YES THE SYSTEM IS OK.

L (R,C) Hydraulic Quantity Indicates RF (Refill) Next to Quantity Reading Figure 104

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HYDRAULIC RESERVOIR PRESSURE INDICATION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
COMPUTER - (REF 31-41-00, FIG. 101) EICAS L, M10181 EICAS R, M10182 DIODE - (REF 31-01-37, FIG. 101)				
CENTER SYSTEM - RESERVOIR PRESSURE ISOLA- TION, R10198 LEFT SYSTEM - RESERVOIR PRESSURE ISOLATION,				
R10197 RIGHT SYSTEM - RESERVOIR PRESSURE ISOLA- TION, R10199				
LIGHT - CENTER SYSTEM LOW QUANTITY/RESERVOIR PRESSURE INDICATOR, YQTL6	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - LEFT SYSTEM LOW QUANTITY/RESERVOIR PRESSURE INDICATOR, YQTL2	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
LIGHT - RIGHT SYSTEM LOW QUANTITY/RESERVOIR PRESSURE INDICATOR, YQTL4	1	1	FLIGHT COMPARTMENT, P5 PANEL, HYDRAULIC CONTROL PANEL, M10050	*
SWITCH - CENTER SYSTEM HYDRAULIC RESERVOIR PRESSURE, S10033	3	1	197KL, AFT LEFT WING-TO-BODY FAIRING, CENTER SYSTEM HYDRAULIC RESERVOIR	29-35-01
SWITCH - LEFT SYSTEM HYDRAULIC RESERVOIR PRESSURE, S10032	3	1	LEFT WHEEL WELL, LEFT SYSTEM HYDRAULIC RESERVOIR	29-35-01
SWITCH - RIGHT SYSTEM HYDRAULIC RESERVOIR PRESSURE, S10034	3	1	RIGHT WHEEL WELL, RIGHT SYSTEM HYDRAULIC RESERVOIR	29–35–01

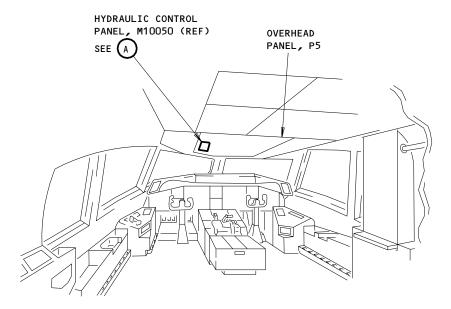
^{*} SEE THE WDM EQUIPMENT LIST

Hydraulic Reservoir Pressure Indication System - Component Index Figure 101

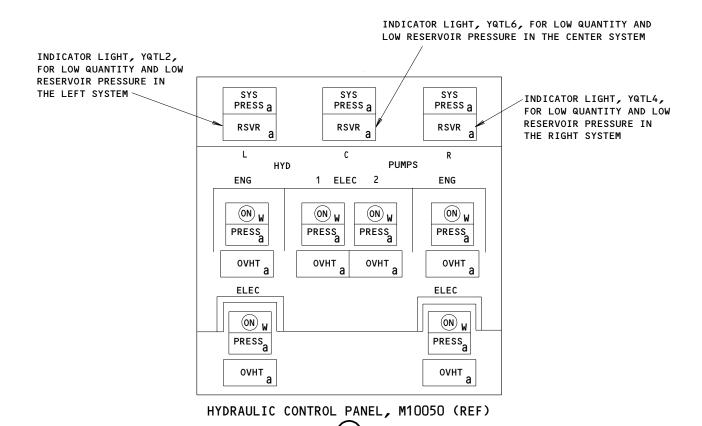
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FLIGHT COMPARTMENT



Hydraulic Reservoir Pressure Indication System - Component Location Figure 102 (Sheet 1)

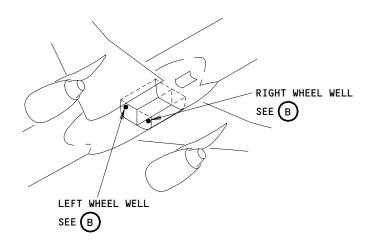
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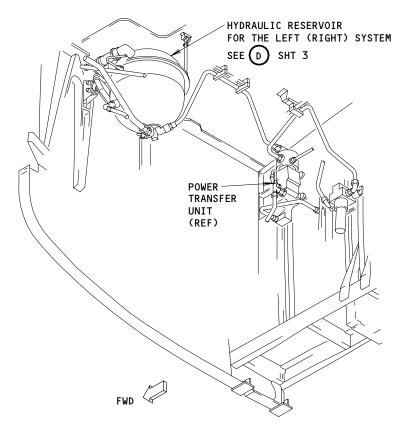
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LEFT WHEEL WELL (THE RIGHT WHEEL WELL IS OPPOSITE)

Hydraulic Reservoir Pressure Indication System - Component Location Figure 102 (Sheet 2)

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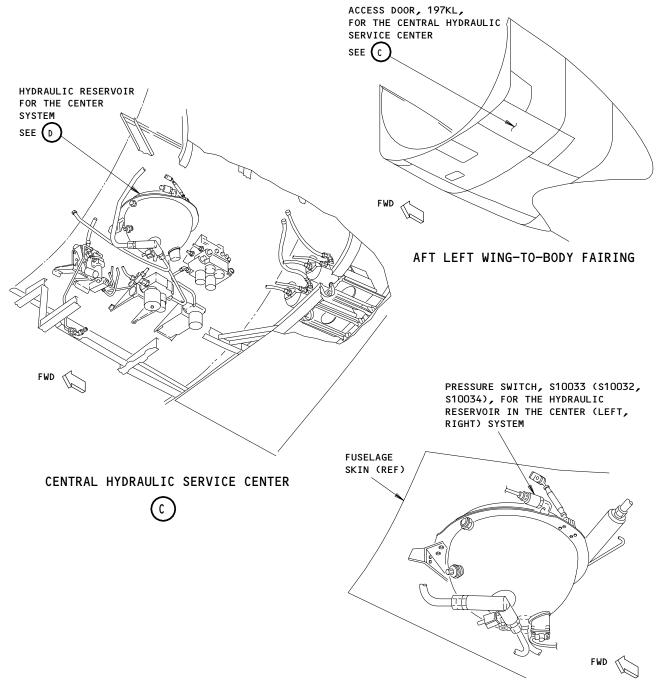
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HYDRAULIC RESERVOIR IN THE CENTER SYSTEM IS SHOWN (THE HYDRAULIC RESERVOIRS IN THE LEFT AND RIGHT SYSTEMS ARE ALMOST THE SAME)



Hydraulic Reservoir Pressure Indication System - Component Location Figure 102 (Sheet 3)

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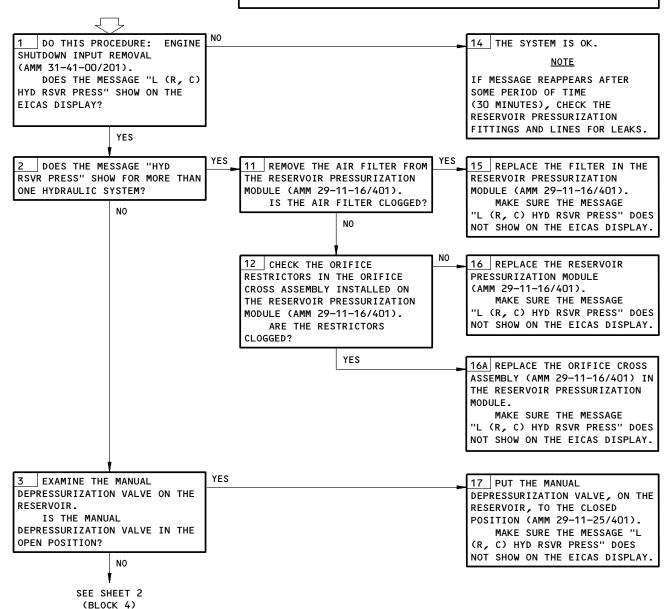
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Page 104 Jun 20/91 "L (R, C) HYD RSVR PRESS" EICAS ADVISORY MESSAGE ILLUMINATED, "HYD QTY" IS NORMAL

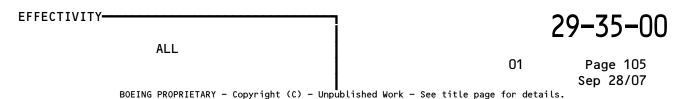
PREREQUISITES

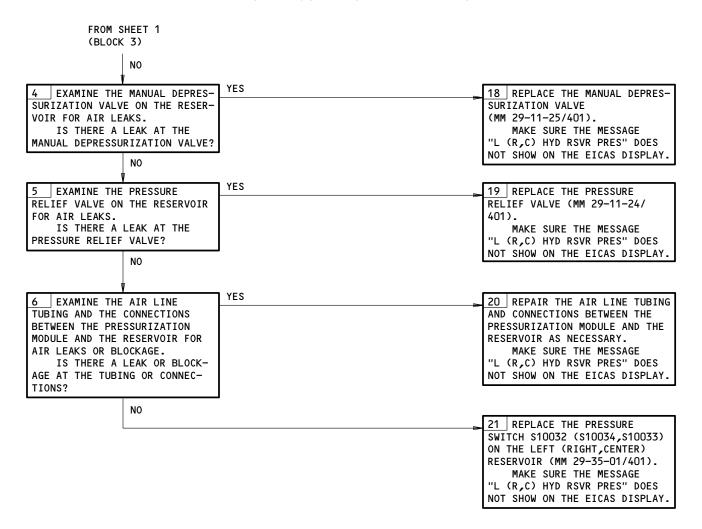
MAKE SURE THIS SYSTEM WILL OPERATE: EICAS (AMM 31-41-00/201)

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:
PNEUMATIC POWER IS ON (THE DUCT PRESSURE MUST BE
MORE THAN 17 PSI) (AMM 36-00-00/201)



L (R, C) HYD RSVR PRES EICAS Advisory Message Illuminated, HYD QTY is Normal Figure 103 (Sheet 1)





L (R,C) HYD RSVR PRES EICAS Message Illuminated, HYD QTY is Normal Figure 103 (Sheet 2)