

Scandinavian Airlines System

PAGE	DATE	CODE	PAGE	DATE	CODE	PAGE	DATE	CODE
CHAPTER 78 TAB			78-34-00		CONT.			
EXHAUST (PW4000)			118	DEC 22/99	N02A			
EFFECTIVE PAGES			119	DEC 22/99	N02A			
SEE LAST PAGE OF LIST FOR			120	DEC 22/99	N02A			
NUMBER OF PAGES			121	AUG 22/00	N02A			
78-CONTENTS			122	AUG 22/00	N02A			
1	AUG 22/99	NSAS	123	AUG 22/00	N02A			
2	DEC 22/00	NSAS	124	AUG 22/00	N02A			
3	DEC 22/00	NSAS	125	AUG 22/00	N02A			
4	BLANK		126	AUG 22/00	N02A			
78-FAULT CODE INDEX			127	AUG 22/00	N02A			
1	DEC 22/04	N09	128	AUG 22/00	N02A			
2	MAY 10/96	N01	129	AUG 22/00	N02A			
3	AUG 22/00	N01	130	AUG 22/00	N02A			
4	AUG 22/00	N07	131	AUG 22/00	N02A			
78-11-00			132	AUG 22/00	N02A			
101	FEB 10/95	N01	133	AUG 22/00	N02A			
102	FEB 10/95	N01	134	AUG 22/00	N02A			
78-31-00			135	AUG 22/00	N02A			
101	MAY 10/93	N01A	136	AUG 22/00	N02A			
102	MAY 10/93	N01A	137	AUG 22/00	N02A			
103	MAY 10/93	N01A	138	AUG 22/00	N01A			
104	FEB 10/94	N01A	78-36-00					
105	MAY 10/93	N01A	101	DEC 22/99	N01A			
106	MAY 10/93	N01A	102	MAY 10/97	N01A			
107	MAY 10/93	N01A	103	MAY 10/93	N01A			
108	MAY 10/93	N01A	104	NOV 10/93	N02A			
109	FEB 10/94	N01A	105	MAY 10/93	N01A			
110	FEB 10/94	N01A	106	FEB 10/94	N01A			
111	AUG 10/94	N01A	107	AUG 22/00	N01A			
112	BLANK		108	AUG 22/00	N01A			
78-34-00			109	AUG 22/05	N01A			
101	NOV 10/94	N02A	110	AUG 22/00	N02A			
102	NOV 10/97	N02A	111	AUG 22/00	N01A			
103	FEB 10/94	N02A	112	AUG 22/00	N01A			
104	FEB 10/94	N02A	113	AUG 22/00	N01A			
105	FEB 10/94	N02A	114	AUG 22/00	N01A			
106	FEB 10/94	N02A	115	AUG 22/00	N01A			
107	NOV 10/97	N02A	116	AUG 22/00	N01A			
108	FEB 10/94	N02A	117	AUG 22/00	N01A			
109	FEB 10/94	N02A	118	AUG 22/00	N01A			
110	AUG 22/99	N02A	119	AUG 22/00	N01A			
111	AUG 22/99	N02A	120	BLANK				
112	AUG 22/99	N02A						
113	AUG 22/99	N02A						
114	APR 22/99	N02A						
115	APR 22/99	N02A						
116	APR 22/99	N02A						
117	APR 22/99	N02A						

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

**D633T633**

CHAPTER 78  
EFFECTIVE PAGES  
N PAGE 1  
LAST PAGE

## CHAPTER 78 - EXHAUST

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
FAULT ISOLATION	78-FAULT CODE INDEX	1	ALL
<u>EXHAUST</u>	78-00-00		
<u>COLLECTOR/NOZZLE</u>	78-10-00		
TURBINE EXHAUST SYSTEM	78-11-00		
Component Location		101	ALL
Component Index			
Component Location			
<u>THRUST REVERSER</u>	78-30-00		
THRUST REVERSER SYSTEM	78-31-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
Thrust Reverser Does Not Translate Manually on Ground (Fig. 103)		109	
Thrust Reverser Will Not Open or Close on Ground (Fig. 104)		111	

CHAPTER 78 - EXHAUST

TABLE OF CONTENTS

<u>Subject</u>	Chapter Section <u>Subject</u>	<u>Page</u>	<u>Effectivity</u>
THRUST REVERSER CONTROL SYSTEM	78-34-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
EICAS Maintenance Message "L (R) REV ISLN VAL" Shown		134	
Not Used.		120	
Rev Thrust Selected. No REV Amber or Green. No REV ISLN Light/L (R) REV ISLN VAL EICAS Msg Shown. Reverse Thrust Lever Could Not Be Advanced. (Fig. 108)		126	
REV ISLN Lgt/L (R) REV ISLN VAL EICAS Msg Shown After Takeoff (Fig. 110)		132	
Slow to Deploy. Thrust Reverser is Commanded to Deploy. Time To Deploy Is More Than 3 Seconds (No EICAS Message) (Fig. 104)		114	
Slow to Stow Fwd Thrust Selected. No "REV" Amber and Green Shown. No "REV ISLN" Light/"L(R) REV ISLN VAL" EICAS Message Shown. (Fig. 109)		130	
Thrust reverser commanded To Deploy. One Or Both Sleeves Do Not Deploy.		118	
Thrust Reverser Is Commanded To Stow And Does Not Stow. (Fig. 103)		110	

CHAPTER 78 - EXHAUST

TABLE OF CONTENTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Page</u>	<u>Effectivity</u>
Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (EICAS Message Shown). (Fig. 107)		121	
THRUST REVERSER INDICATION SYSTEM	78-36-00		
Component Location		101	ALL
Component Index			
Component Location			
Fault Isolation			
EICAS L(R) Interlock Displayed.		110	
The L (R) Engine HIV Pressure LED Light on the T/R Relay Module Is On (Fig. 106)		114	
The L (R) Engine PSEU Restow LED Light on the T/R Relay Module Is On (Fig. 105)		112	
The L (R) Engine Restow Pressure LED Light on the T/R Relay Module Is On (Fig. 107)		117	
Thrust Reverser Proximity Sensor Problem (Fig. 103) Indicated By Amber Or Green "L(R) REV" EICAS Message.		107	

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
78 03 XA --	1. A (O1=L, O2=R) thrust reverser operation problem was encountered by ground crew which is not covered in fault code diagrams (Ref Chapter 71 fault code diagram for ground crew actions). 2. SSM 78-30-01 and SSM 78-31-01
78 03 XB --	1. A (O1=L, O2=R) reverser operation problem was encountered by flight crew which is not covered in fault code diagrams (Ref Chapter 71 fault code diagram for flight crew actions). 2. SSM 78-30-01 and SSM 78-34-01
78 03 XC --	1. (O1=L, O2=R) REV ISLN VAL & REV amber display problem was encountered by flight crew which is not covered in fault code diagrams (Ref Chapter 71 fault code diagram for flight crew actions). 2. SSM 78-36-01
78 03 01 00	Not Used.
78 03 02 00	1. EICAS msg L REV ISLN VAL displayed. (Ref Chapter 31 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 111, Block 1
78 03 03 00	1. EICAS msg R REV ISLN VAL displayed. (Ref Chapter 31 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 111, Block 1
78 03 04 00	Not Used.
78 03 05 --	Not Used
78 03 06 --	1. (O1=L, O2=R) eng REV amber in view with rev selected. No REV green indication. Rev lever would not move to full reverse. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 108, Block 1
78 03 07 --	1. (O1=L, O2=R) eng REV amber in view with rev selected. Reverse lever could be moved toward full reverse. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 105, Block 1

EFFECTIVITY

ALL

## 78-FAULT CODE INDEX

N09

 Page 1  
 Dec 22/04

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
78 03 08 --	1. (01=L, 02=R) eng would not go to rev. REV ISLN light was illum. EICAS msg displayed was (L, R) REV ISLN VAL. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 107, Block 1
78 03 09 --	1. (01=L, 02=R) eng REV amber did not appear. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 103, Block 1
78 03 10 --	1. (01=L, 02=R) eng would not go to rev thrust. Amber REV display missing. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 108, Block 1
78 03 11 --	Not Used
78 03 12 --	1. (01=L, 02=R) eng REV green display remained after fwd thrust selected. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 103, Block 1
78 03 13 --	1. (01=L, 02=R) eng stuck in full rev. REV ISLN lgt illum. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 103, Block 1
78 03 14 --	1. (01=L, 02=R) eng REV amber display remained after fwd thrust selected. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 103, Block 1
78 03 15 --	1. (01=L, 02=R) eng stuck in rev. REV ISLN lgt illum. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-34-00/101, Fig. 103, Block 1
78 03 16 --	1. (01=L, 02=R) eng REV amber displayed during forward thrust. (Ref Chapter 71 for fault code diagrams.) 2. FIM 78-36-00/101, Fig. 103, Block 1

EFFECTIVITY

ALL
-----

## 78-FAULT CODE INDEX

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
78 03 17 --	1. EICAS msg (O1=L, O2=R) REV ISLN VAL displayed and REV ISLN lgt illum. (Ref Chapter 71 for fault code diagrams.) 2. FIM 78-34-00/101, Fig. 111, Block 1
78 03 18 --	1. EICAS msg (O1=L, O2=R) REV ISLN VAL displayed and REV ISLN lgt illum. Msg and light norm in rev. (Ref Chapter 71 for fault code diagrams.) 2. FIM 78-34-00/101, Fig. 111, Block 1
78 03 19 --	Not Used
78 03 20 --	1. EICAS msg (O1=L, O2=R) REV ISLN VAL displayed and REV ISLN lit. (Ref Chapter 71 for fault code diagrams.) 2. FIM 78-34-00/101, Fig. 111, Block 1
78 03 21 --	1. EICAS msg (O1=L, O2=R) REV ISLN VAL displayed and REV ISLN lgt illum. (Ref Chapter 71 for fault code diagrams.) 2. FIM 78-34-00/101, Fig. 111, Block 1
78 03 22 --	1. EICAS msg (O1=L, O2=R) REV ISLN VAL displayed and REV ISLN lgt illum. Rev thrust is normal. (Ref Chapter 71 for fault code diagrams.) 2. Replace the L (R) T/R ISLN DETECT RELAY K10358 (K10359) (WDM 78-36-11, WDM 78-36-21).
78 03 23 --	Not Used
78 03 24 --	Not Used
78 03 25 --	1. (O1=L,O2=R) REV INTERLOCK EICAS msg displayed. (Ref Chapter 71 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 104, Block 1

EFFECTIVITY

ALL

## 78-FAULT CODE INDEX

N01

 Page 3  
 Aug 22/00

FAULT CODE	1. LOG BOOK REPORT 2. FAULT ISOLATION REFERENCE
78 03 26 --	Not Used
78 03 27 00	1. EICAS msg L REV INTERLOCK displayed. (Ref Chapter 31 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 104, Block 1
78 03 28 00	1. EICAS msg R REV INTERLOCK displayed. (Ref Chapter 31 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 104, Block 1
78 03 29 --	1. (01=L, 02=R) eng rev thrust lever could not move toward full rev. Both Amber and Green REV indications normal (Ref Chapter 71 for fault code diagram.) 2. FIM 78-36-00/101, Fig. 104, Block 1
78 03 30 --	1. EICAS msg (01=L, 02=R) REV ISLN VAL displayed and REV ISLN lgt illum on ground after rev thrust. (Ref Chapter 71 for fault code diagrams.) 2. FIM 78-34-00/101, Fig. 111, Block 1

EFFECTIVITY

ALL
-----

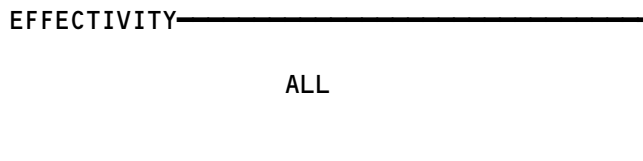
## 78-FAULT CODE INDEX



TURBINE EXHAUST SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
PLUG - LEFT ENGINE TURBINE EXHAUST	--	1	AFT END OF ENGINE	78-11-02
PLUG - RIGHT ENGINE TURBINE EXHAUST	--	1	AFT END OF ENGINE	78-11-02
SLEEVE - LEFT ENGINE TURBINE EXHAUST	--	1	AFT END OF ENGINE	78-11-01
SLEEVE - RIGHT ENGINE TURBINE EXHAUST	--	1	AFT END OF ENGINE	78-11-01

Turbine Exhaust System - Component Index  
Figure 101

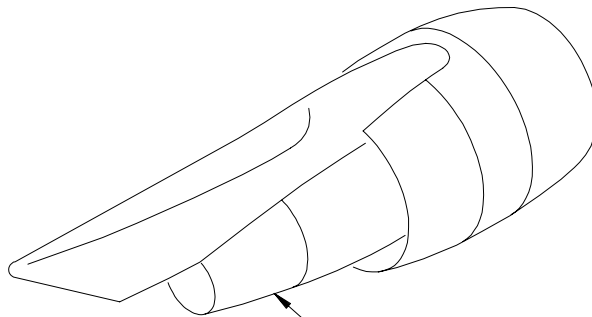


**78-11-00**

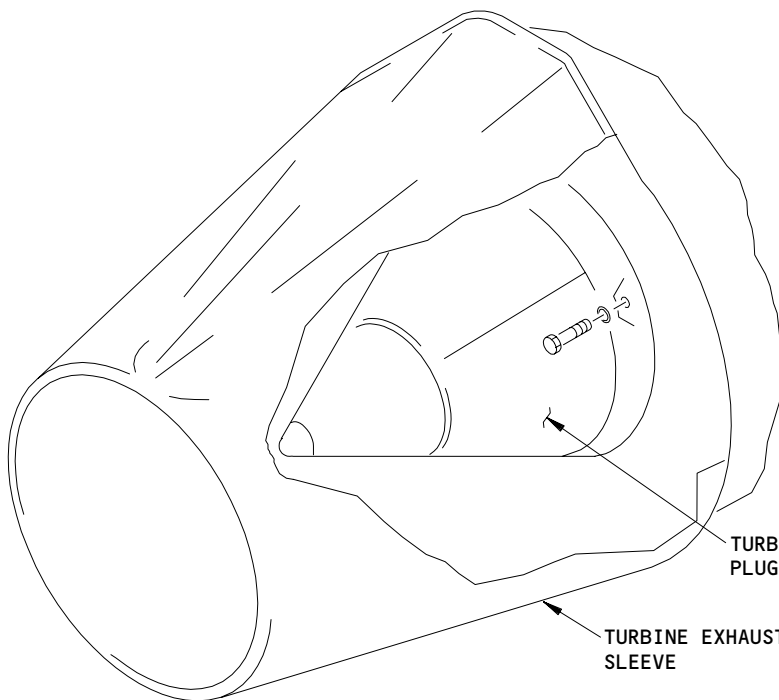
N01

Page 101  
Feb 10/95

E66675



TURBINE EXHAUST  
 SLEEVE/TURBINE  
 EXHAUST PLUG  
 SEE (A)



TURBINE EXHAUST SLEEVE/TURBINE EXHAUST PLUG

(A)

Turbine Exhaust System - Component Location  
 Figure 102

EFFECTIVITY	
	ALL

78-11-00

N01

Page 102  
 Feb 10/95

284343

THRUST REVERSER SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR - L ENGINE T/R HYDRAULIC LOCKING	5	2	413AL,415DL,414AR,416DR	78-31-17
ACTUATOR - R ENGINE T/R HYDRAULIC LOCKING	5	2	423AL,425DL,424AR,426DR	78-31-17
ACTUATOR - L ENGINE T/R HYDRAULIC NONLOCKING	5	4	413AL,415CL,413AL,415EL, 414AR,416CR,414AR,416ER	78-31-17
ACTUATOR - R ENGINE T/R HYDRAULIC NONLOCKING	5	4	423AL,425CL,423AL,425EL, 424AR,426CR,424AR,426ER	78-31-17
ACTUATOR - L ENGINE T/R OPENING	7	2	415AL,416AR	78-31-06
ACTUATOR - R ENGINE T/R OPENING	7	2	425AL,426AR	78-31-06
ANCHOR STRAP - L ENGINE LATCH BAND	3	1	415AL,416AR	78-31-03
ANCHOR STRAP - R ENGINE LATCH BAND	3	1	425AL,426AR	78-31-03
BAND - L ENGINE LATCH	3	2	413AL,414AR	78-31-02
BAND - R ENGINE LATCH	3	2	423AL,424AR	78-31-02
CASCADE SEGMENTS - L ENGINE	2	18	415AL,416AR	78-31-16
CASCADE SEGMENTS - R ENGINE	2	18	425AL,426AR	78-31-16
DOORS - L ENGINE T/R BLOCKER	2	12	415AL,416AR	78-31-14
DOORS - R ENGINE T/R BLOCKER	2	12	425AL,426AR	78-31-14
FAIRINGS - L ENGINE T/R TRACK	1	4	AFT END OF FAN DUCT COWL AND THRUST REVERSER	78-31-12
FAIRINGS - R ENGINE T/R TRACK	1	4	AFT END OF FAN DUCT COWL AND THRUST REVERSER	78-31-12
HOSES - FLEX, L ENGINE T/R OPENING	7	2	431BT,415AL,416AR	78-31-08
HOSES - FLEX, R ENGINE T/R OPENING	7	2	441BT,425AL,426AR	78-31-08
LATCH - TENSION, L ENGINE T/R	2	1	414AR, FORWARD BULKHEAD OF FAN DUCT COWL AND T/R	78-31-04
LATCH - TENSION, L ENGINE T/R	2	2	T/R ACCESS DOOR 415FB	78-31-04
LATCH - TENSION, L ENGINE T/R	2	1	AFT OF T/R ACCESS DOOR 415FB	78-31-04
LATCH - TENSION, R ENGINE T/R	2	1	424AR, FORWARD BULKHEAD OF FAN DUCT COWL AND T/R	78-31-04
LATCH - TENSION, R ENGINE T/R	2	2	T/R ACCESS DOOR 425FB	78-31-04
LATCH - TENSION, R ENGINE T/R	2	1	AFT OF T/R ACCESS DOOR 425FB	78-31-04
LINERS - TRACK, L ENGINE	4	2	415AL	78-31-11
LINERS - TRACK, L ENGINE	4	2	414AR	78-31-11
LINERS - TRACK, R ENGINE	4	2	425AL	78-31-11
LINERS - TRACK, R ENGINE	4	2	426AR	78-31-11
LINKS - DRAG, L ENGINE BLOCKER DOOR	2	12	413AL,414AR	78-31-15
LINKS - DRAG, R ENGINE BLOCKER DOOR	2	12	423AL,424AR	78-31-15
REVERSER - L ENGINE THRUST (HALVES)	2	2	LEFT ENGINE	78-31-01
REVERSER - R ENGINE THRUST (HALVES)	2	2	RIGHT ENGINE	78-31-01
SHAFT AND TUBING - L ENGINE T/R ROTARY FLEX	5	4	413AL,414AR	78-31-18
SHAFT AND TUBING - R ENGINE T/R ROTARY FLEX	5	4	423AL,424AR	78-31-18
SLEEVE - L ENGINE THRUST REVERSER	2	2	415AL,416AR, LEFT ENGINE	78-31-10
SLEEVE - R ENGINE THRUST REVERSER	2	2	425AL,426AR, RIGHT ENGINE	78-31-10
SLIDERS - L ENG T/R TRACK		4	LEFT ENGINE THRUST REVERSER SLEEVES	78-31-13
SLIDERS - R ENG T/R TRACK		4	RIGHT ENGINE THRUST REVERSER SLEEVES	78-31-13

 Thrust Reverser System - Component Index  
 Figure 101

EFFECTIVITY

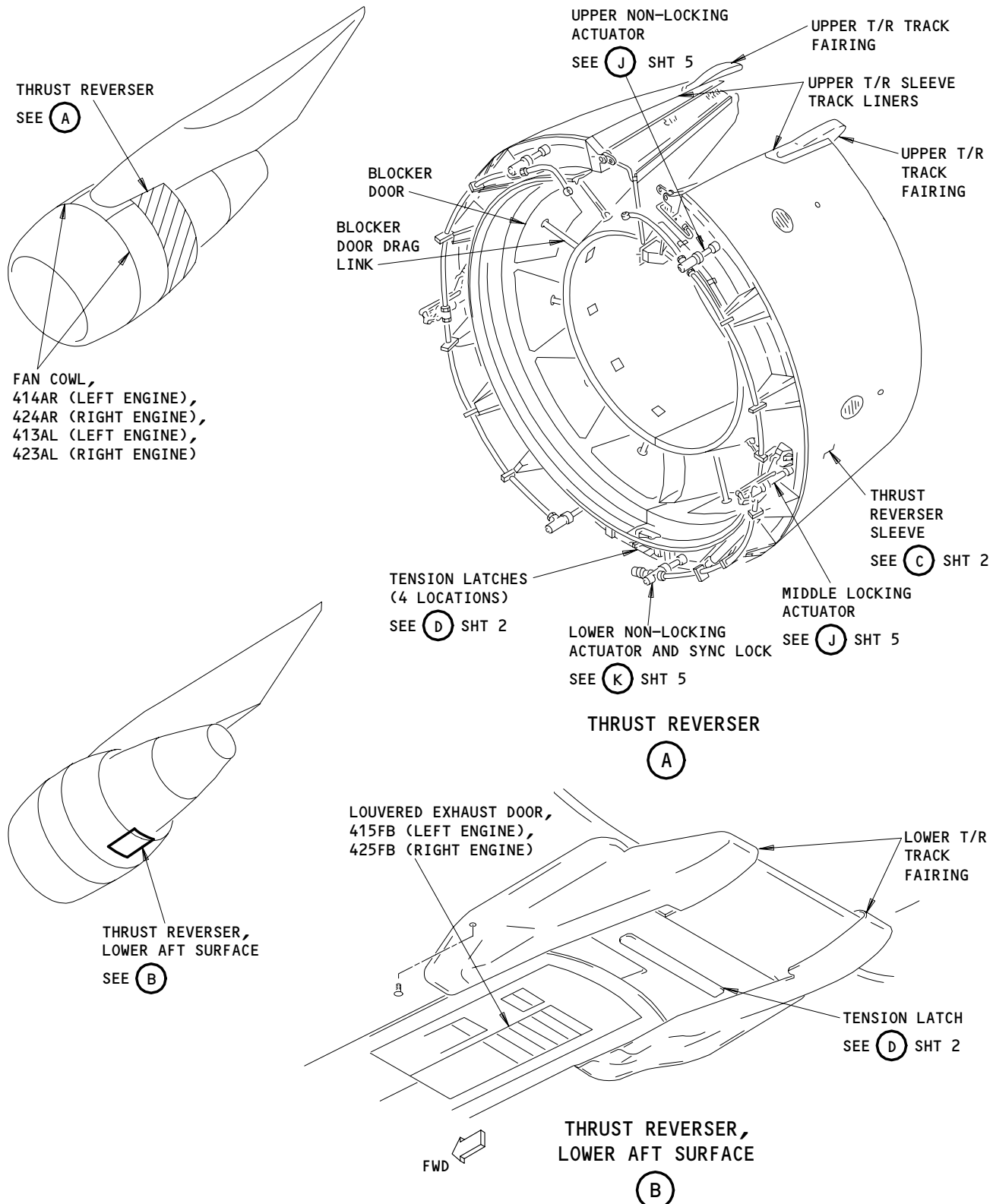
ALL

**78-31-00**

N01A

 Page 101  
 May 10/93

C12657



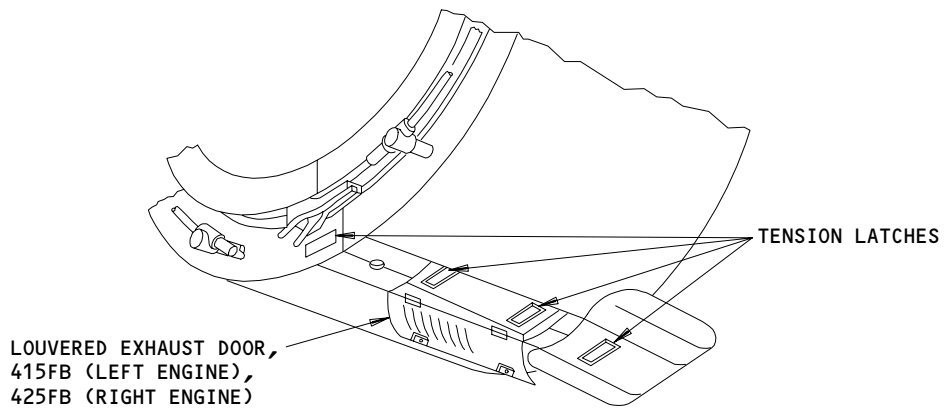
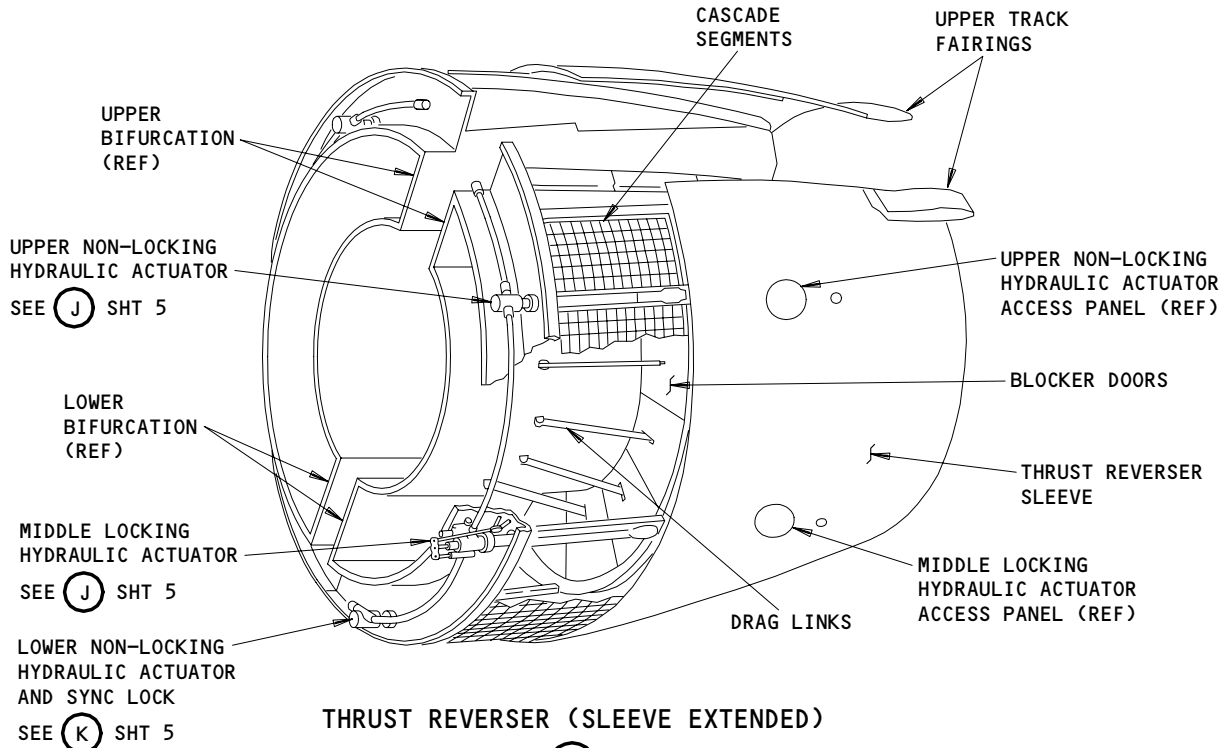
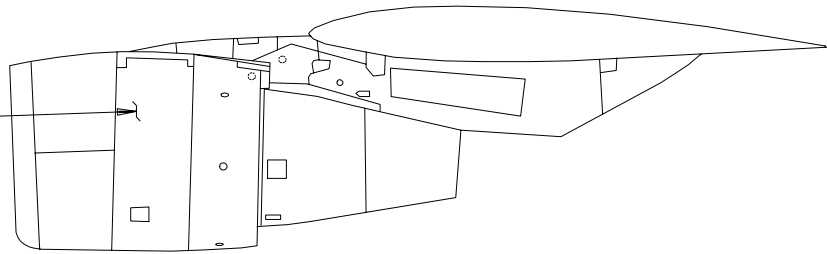
Thrust Reverser System - Component Location  
Figure 102 (Sheet 1)

EFFECTIVITY	
	ALL

78-31-00

CD9647

FAN COWL,  
414AR (LEFT ENGINE INBOARD),  
424AR (RIGHT ENGINE OUTBOARD),  
413AL (LEFT ENGINE OUTBOARD),  
423AL (RIGHT ENGINE INBOARD)



Thrust Reverser System - Component Location (Details from Sht 1)  
Figure 102 (Sheet 2)

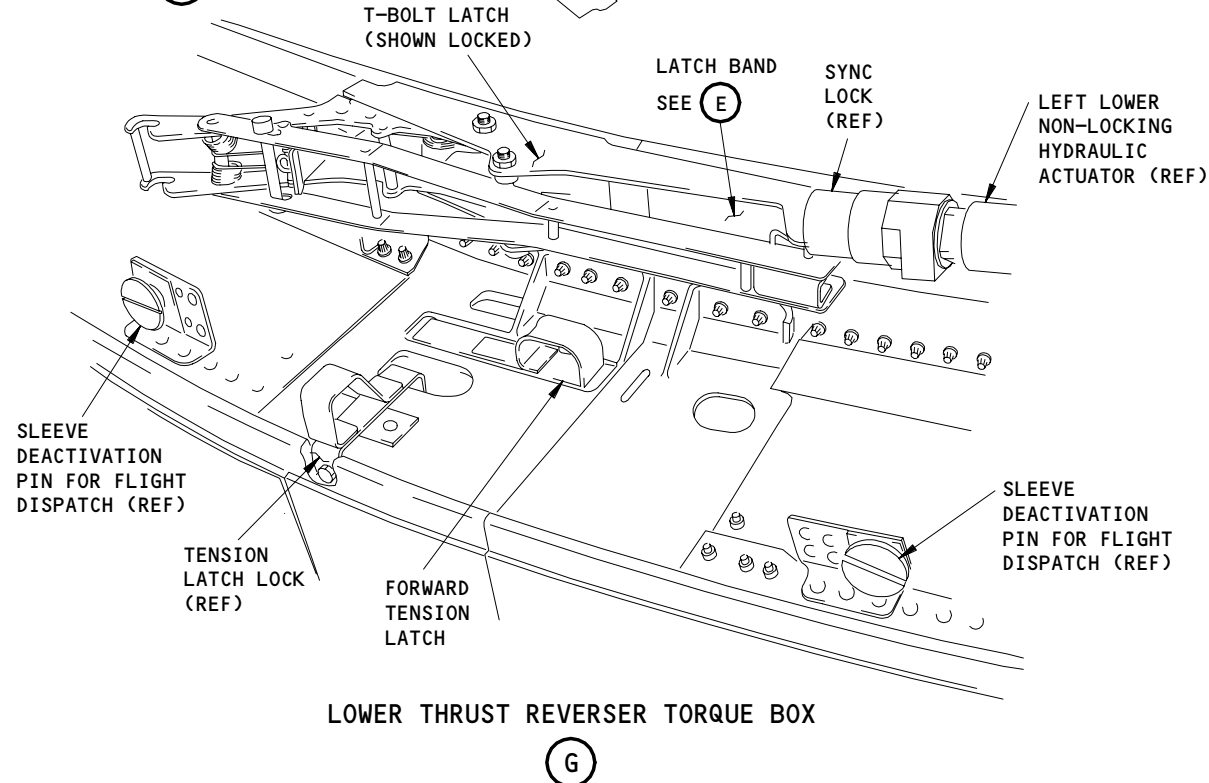
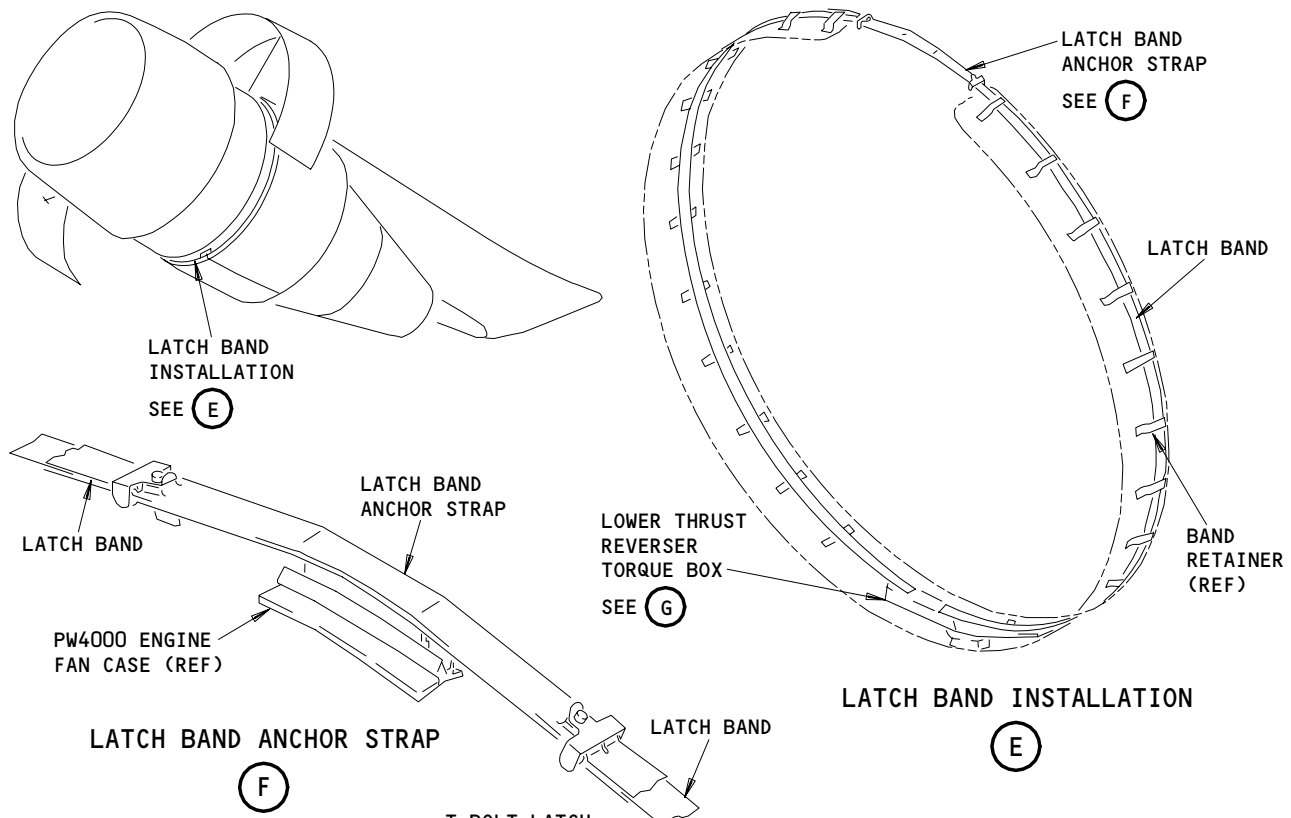
EFFECTIVITY

ALL

**78-31-00**

N01A

Page 103  
May 10/93



Thrust Reverser System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY

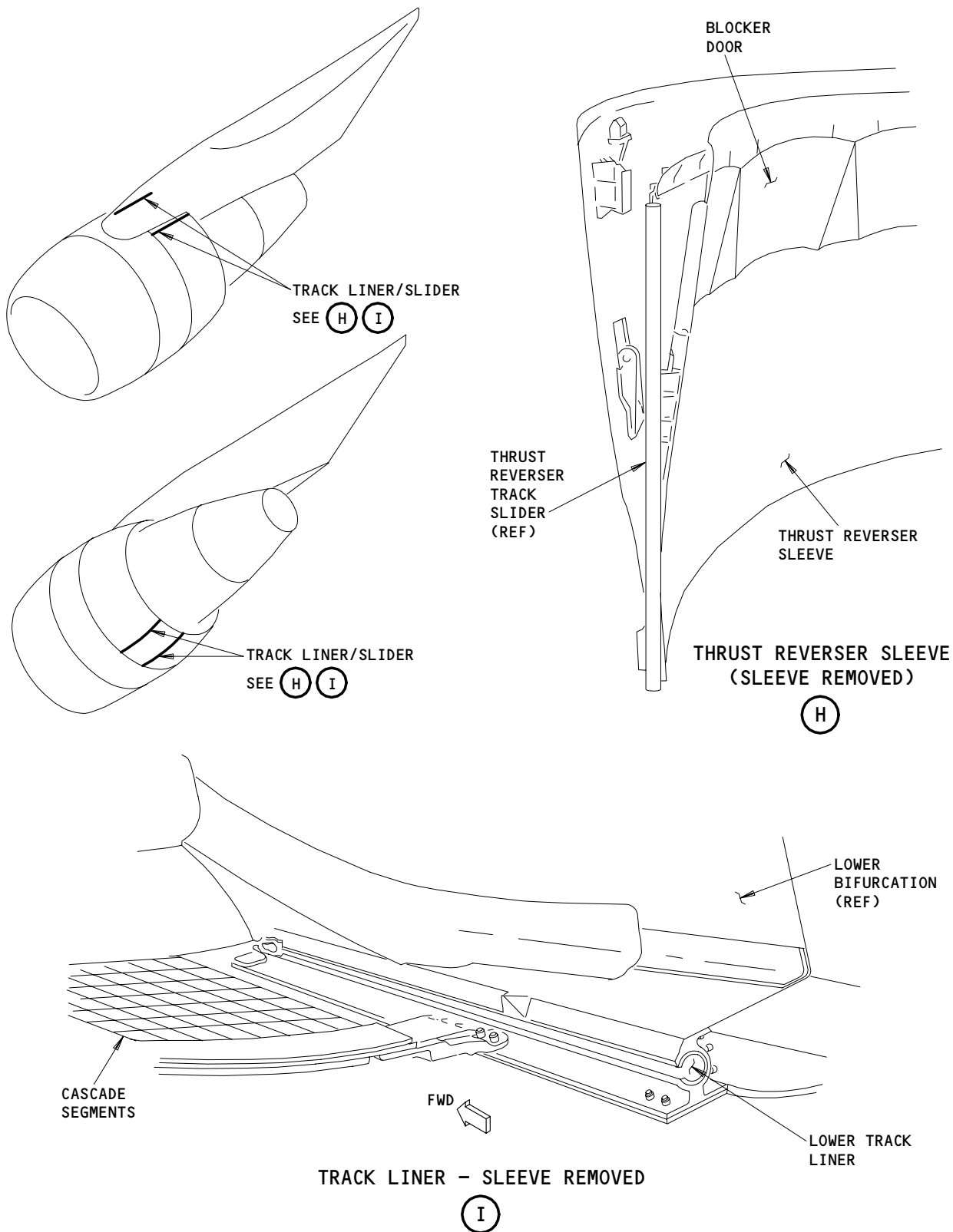
ALL

78-31-00

N01A

Page 104  
Feb 10/94

CD9653



Thrust Reverser System - Component Location  
Figure 102 (Sheet 4)

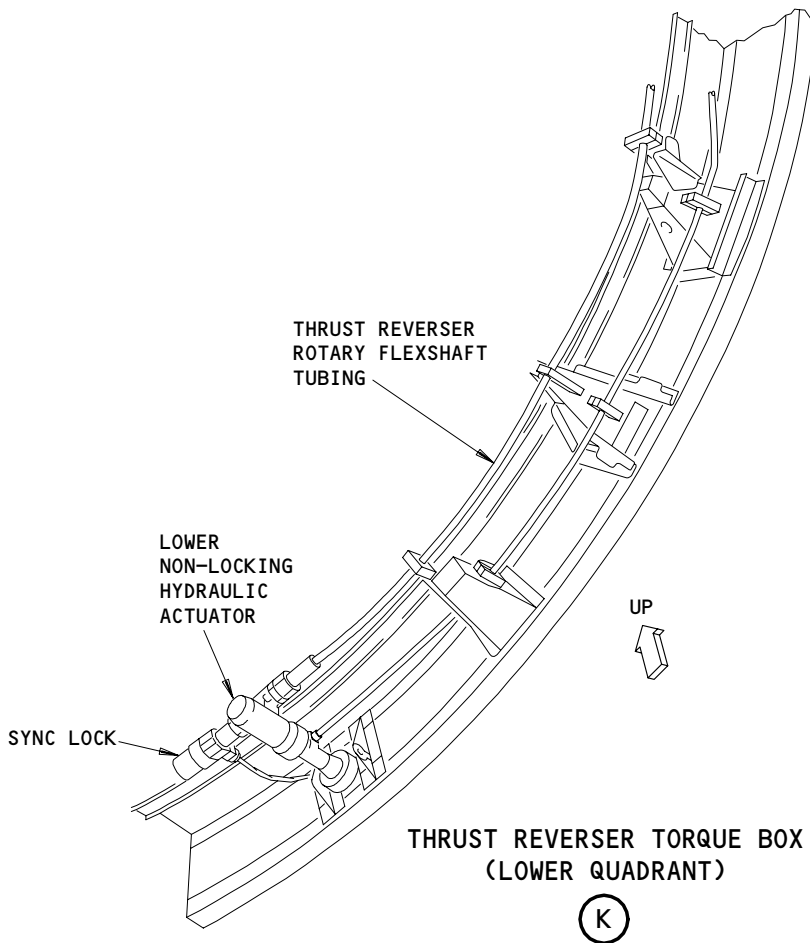
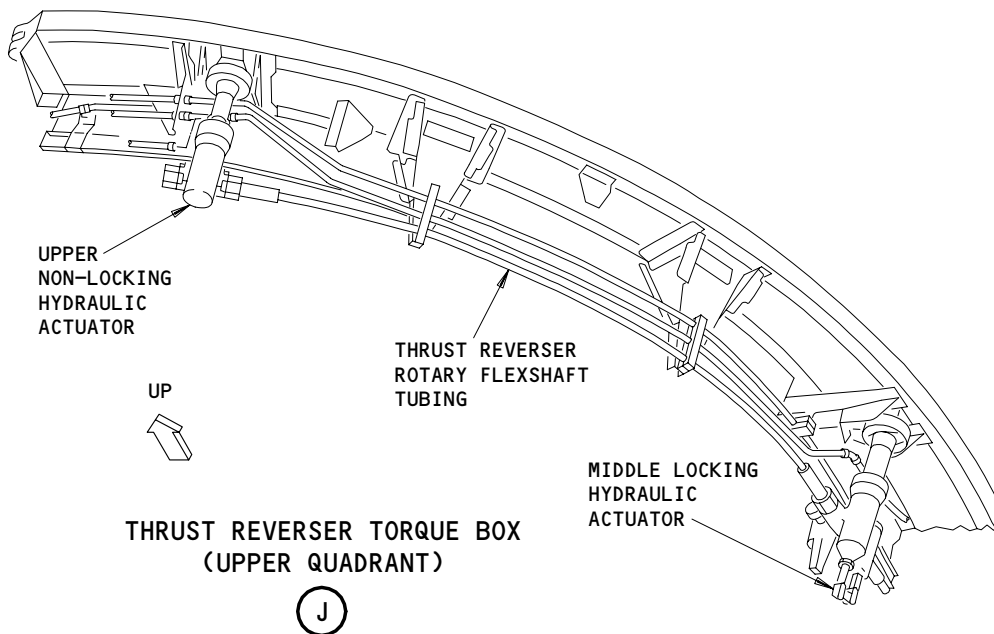
EFFECTIVITY	ALL
-------------	-----

78-31-00

N01A

Page 105  
May 10/93

CD9654



Thrust Reverser System - Location (Details from Sht 1 and 2)  
 Figure 102 (Sheet 5)

EFFECTIVITY	
	ALL

**78-31-00**

N01A

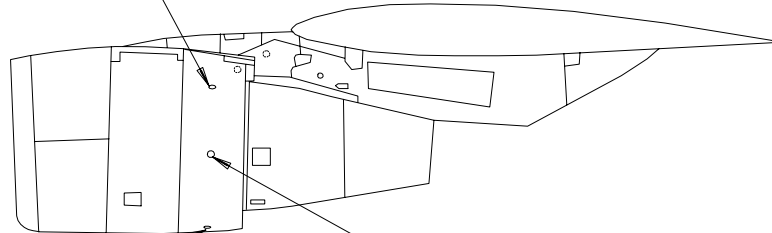
Page 106  
 May 10/93

CD9655



UPPER NON-LOCKING  
HYDRAULIC ACTUATOR  
ACCESS PANEL,  
415CL (LEFT ENGINE OUTBOARD),  
425CL (RIGHT ENGINE INBOARD),  
416CR (LEFT ENGINE INBOARD),  
426CR (RIGHT ENGINE OUTBOARD)

SEE (L)

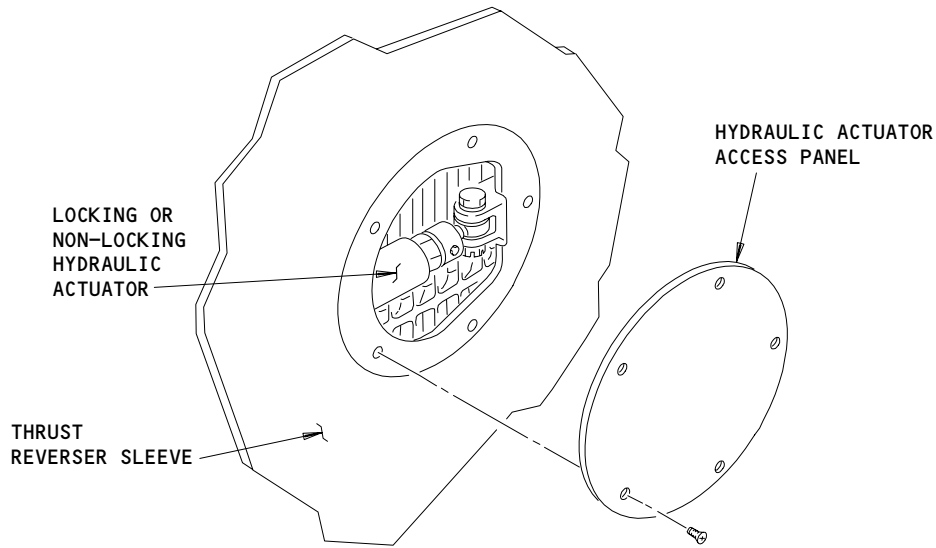


LOWER NON-LOCKING  
HYDRAULIC ACTUATOR  
ACCESS PANEL,  
415EL (LEFT ENGINE OUTBOARD),  
425EL (RIGHT ENGINE INBOARD),  
416ER (LEFT ENGINE INBOARD),  
426ER (RIGHT ENGINE OUTBOARD)

SEE (L)

MIDDLE LOCKING  
HYDRAULIC  
ACCESS PANEL,  
415DL (LEFT ENGINE OUTBOARD),  
425DL (RIGHT ENGINE INBOARD),  
416DR (LEFT ENGINE INBOARD),  
426DR (RIGHT ENGINE OUTBOARD)

SEE (L)



HYDRAULIC ACTUATOR/THRUST  
REVERSER SLEEVE INTERFACE

(L)

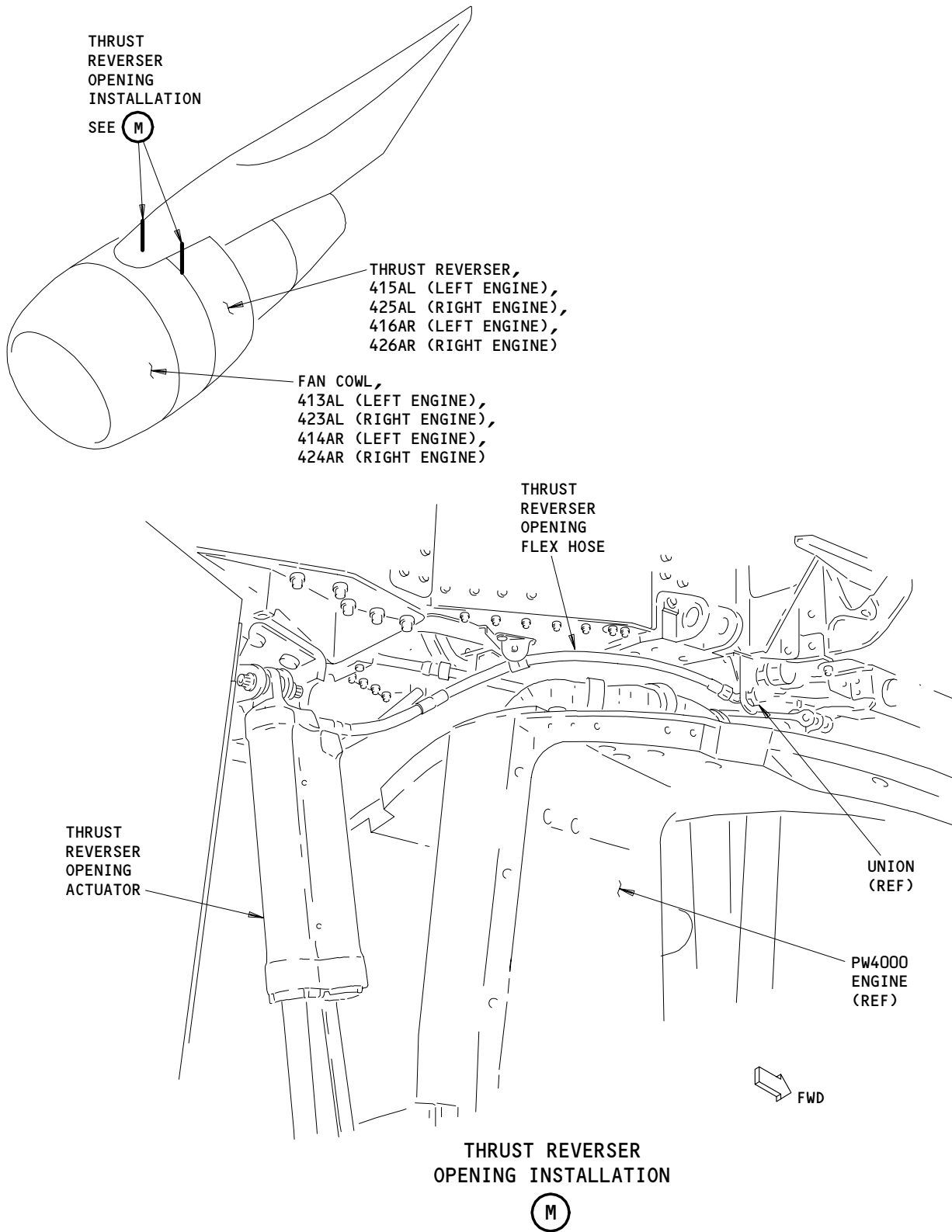
Thrust Reverser System - Component Location  
Figure 102 (Sheet 6)

EFFECTIVITY	
	ALL

78-31-00

N01A

Page 107  
May 10/93



Thrust Reverser System - Component Location  
Figure 102 (Sheet 7)

EFFECTIVITY	
	ALL

78-31-00

N01A

Page 108  
May 10/93

**THRUST REVERSER  
DOES NOT TRANSLATE  
MANUALLY ON GROUND**



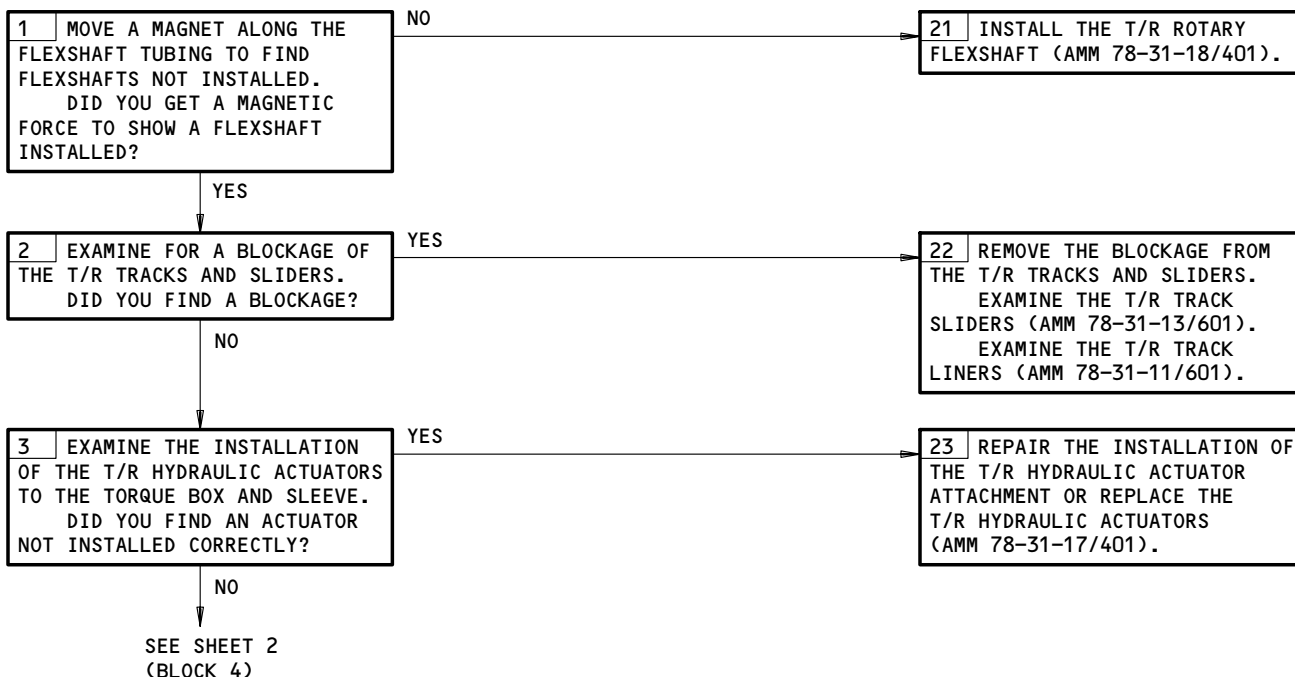
**PREREQUISITES**

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
MANUAL UNLOCK LEVER ON THE LOCKING HYDRAULIC  
ACTUATOR IN THE UNLOCKED POSITION

**POSSIBLE CAUSES:**

1. MANUAL UNLOCK LEVER ON THE LOCKING HYDRAULIC ACTUATOR IS IN THE LOCKED POSITION
2. FLEXSHAFT IS NOT INSTALLED OR DEFECTIVE (AMM 78-31-18/401)
3. T/R TRACK SLIDERS ARE BLOCKED OR DAMAGED (AMM 78-31-13/601)
4. T/R TRACK LINERS ARE BLOCKED OR DAMAGED (AMM 78-31-11/601)
5. T/R LOCKING OR NON-LOCKING HYDRAULIC ACTUATOR IS INCORRECTLY INSTALLED OR DAMAGED (AMM 78-31-17/401)
6. SYNC LOCK IS INCORRECTLY INSTALLED OR DAMAGED (AMM 78-34-13/401).

**FAULT ISOLATION:**



Thrust Reverser Does Not Translate Manually on Ground  
Figure 103 (Sheet 1)

EFFECTIVITY

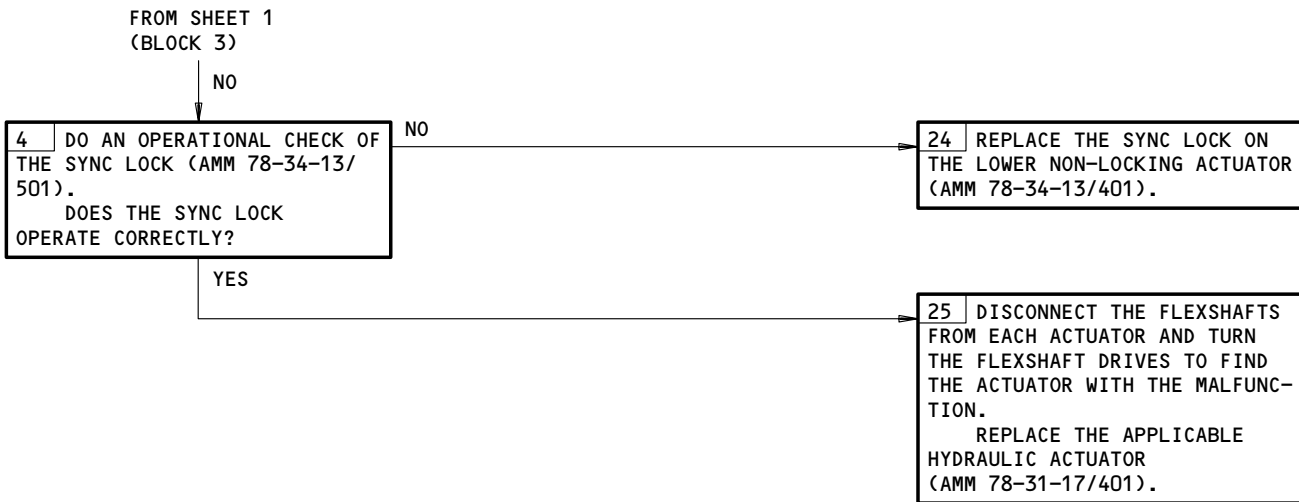
ALL

**78-31-00**

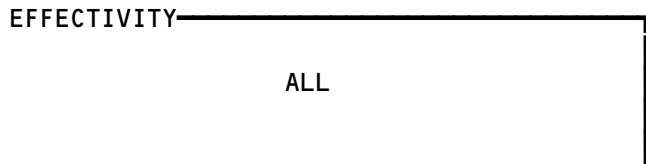
N01A

Page 109  
Feb 10/94

C12658



Thrust Reverser Does Not Translate Manually on Ground  
Figure 103 (Sheet 2)



78-31-00

D19104

**PREREQUISITES**  
 NONE

**THRUST REVERSER  
WILL NOT OPEN OR  
CLOSE ON GROUND**



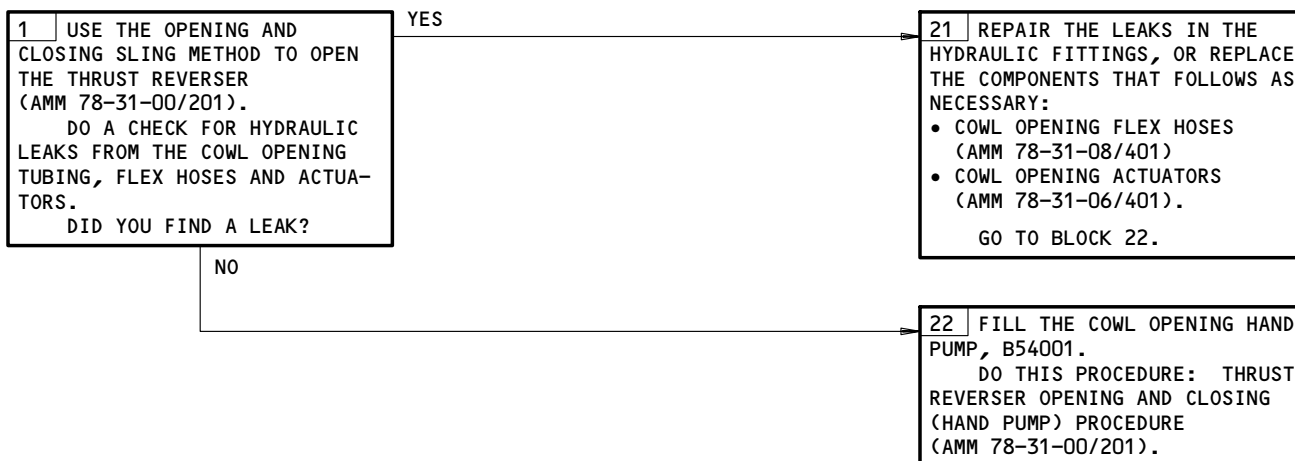
**DESCRIPTION:**

THRUST REVERSER HALVES CANNOT BE OPENED.

**POSSIBLE CAUSES:**

1. HYDRAULIC FLUID LEAK FROM COWL OPENING FLEX HOSES (AMM 78-31-08/401), COWL OPENING ACTUATORS (AMM 78-31-06/401), HYDRAULIC FITTINGS AND TUBING (AMM 20-10-19/201)
2. COWL OPENING HAND PUMP REQUIRES SERVICING.

**FAULT ISOLATION:**



Thrust Reverser Will Not Open or Close on Ground  
Figure 104

<b>EFFECTIVITY</b>	ALL
--------------------	-----

78-31-00

THRUST REVERSER CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
CIRCUIT BREAKER -	4		FLT COMPT, P11	
L ENG T/R CONT, C1482		1	11D14	*
R ENG T/R CONT, C1483		1	11L33	*
R ENG T/R CONT ALTN, C1479		1	11D33	*
L ENG T/R SSL CONT, C1576		1	11D18	
R ENG T/R SSL CONT, C1577		1	11C21	
28V DC R BUS PWR SENSE, C1486		1	11M30	*
DIODE -				
L ENG L SSL, R702		1		
R ENG L SSL, R703		1		
L ENG R SSL, R704		1		
R ENG R SSL, R705		1		
DIODE - ISOLATION			119AL, MAIN EQUIP CTR, SHELF E1-2, TB130D	*
L T/R HIV ISLN, R228		1		
R T/R HIV ISLN, R230		1		
LEVER - (FIM 76-11-00/101)				
THRUST, M985				
MODULE - RELAY		1	119AL, MAIN EQUIP CTR, SHELF E1-4 OR E2-6	78-36-03
RELAY -				
NO. 1 28V DC R BUS PWR SENSE, K853	4	1	FLT COMPT, P11-5	*
NO. 2 28V DC R BUS PWR SENSE, K854	4	1	FLT COMPT, P11-5	*
NO. 3 28V DC R BUT PWR SENSE, K898	4	1	FLT COMPT, P11-5	*
RELAY - (FIM 31-01-33/101)			P33	
AIR/GND SYS 2, K520				
L T/R HIV/SSL SEQ, K2186				
L T/R UNSTOW, K2182				
L T/R SSL CONTROL, K2188				
R T/R HIV/SSL SEQ, K2185				
R T/R UNSTOW, K2181				
R T/R SSL CONTROL, K2187				
RELAY - (FIM 31-01-36/101)			P36	
L ENG T/R DEPLOY, K2164				
L ENG T/R STOW RLY, K26				
L ENG T/R UNLOCK, K165				
SYS NO. 1 AIR/GND, K178				
SYS NO. 1 AIR/GND, K895				
SYS NO. 1 AIR/GND, K2155				
RELAY - (FIM 31-01-37/101)			P37	
R ENG T/R DEPLOY, K2165				
R ENG T/R STOW RLY, K27				
R ENG T/R UNLOCK, K166				
SYS NO. 2 AIR/GND, K204				
SYS NO. 2 AIR/GND, K2157				
RELAY - (FIM 78-36-00/101), M1987				
SENSOR - L ENG, L T/R SLEEVE AUTO RESTOW, S1604	5	1	413AL, L T/R SLEEVE	78-36-01
SENSOR - R ENG, L T/R SLEEVE AUTO RESTOW, S1604	5	1	423AL, L T/R SLEEVE	78-36-01
SENSOR - L ENG, R T/R SLEEVE AUTO RESTOW, S1605	5	1	414AR, R T/R SLEEVE	78-36-01
SENSOR - R ENG, R T/R SLEEVE AUTO RESTOW, S1605	5	1	424AR, R T/R SLEEVE	78-36-01

\* SEE THE WDM EQUIPMENT LIST

 Thrust Reverser Control System - Component Index  
 Figure 101 (Sheet 1)

EFFECTIVITY

ALL

**78-34-00**

NO2A

 Page 101  
 Nov 10/94

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SOLENOID - L ENG T/R DIRECTIONAL CONTROL VALVE	1,2	1	431BT, DIRECTIONAL CONTROL VALVE, V342	78-34-09
SOLENOID - R ENG T/R DIRECTIONAL CONTROL VALVE	1,2	1	441BT, DIRECTIONAL CONTROL VALVE, V343	78-34-09
SOLENOID - L ENG T/R STOW VALVE	3	1	437BL, ISOLATION VALVE, V106	78-34-08
SOLENOID - R ENG T/R STOW VALVE	3	1	447BL, ISOLATION VALVE, V107	78-34-08
SWITCH - L T/R SSL CONT, S21	4	1	M966, MICROSWITCH PACK	22-32-04
R T/R SSL CONT, S22	4	1	M966, MICROSWITCH PACK	22-32-04
SWITCH - (FIM 26-21-00/101) L ENGINE FIRE, S37				
R ENGINE FIRE, S38				
SWITCH - (FIM 78-36-00/101) L T/R HYD PRESS, S330				
R T/R HYD PRESS, S331				
SWITCH - L ENGINE, L T/R AUTO RESTOW, S1604	5	1	413AL, LEFT FORWARD BULKHEAD, AT LH THRUST REVERSER LOCKING ACTUATOR	*
SWITCH - R ENGINE, L T/R AUTO RESTOW, S1604	5	1	423AL, LEFT FORWARD BULKHEAD, AT LH THRUST REVERSER LOCKING ACTUATOR	*
SWITCH - L ENGINE, R T/R AUTO RESTOW, S1605	5	1	414AR, RIGHT FORWARD BULKHEAD AT RH THRUST REVERSER LOCKING ACTUATOR	*
SWITCH - R ENGINE, R T/R AUTO RESTOW, S1605	5	1	424AR, RIGHT FORWARD BULKHEAD AT RH THRUST REVERSER LOCKING ACTUATOR	*
SWITCH - R ENG REV THRUST DIRECTIONAL VALVE MICRO, S8	4	1	FLT COMPT, MICRO SW PK, M966	22-32-04
SWITCH - L ENG REV THRUST DIRECTIONAL VALVE MICRO, S11	4	1	FLT COMPT, MICRO SW PK, M966	22-32-04
SWITCH - L T/R CONT, YBNS5	4	1	FLT COMPT, THRUST LEVER ASSY, M985	78-34-06
SWITCH - R T/R CONT, YBNS6	4	1	FLT COMPT, THRUST LEVER, M985	78-34-06
SYNC LOCK - L ENG T/R (LH V170, RH V171)	6	2	413AL,414AR, FAN COWL	78-34-13
SYNC LOCK - R ENG T/R (LH V170, RH V171)	6	2	423AL,424AR, FAN COWL	78-34-13
TEE - L ENGINE, THRUST REVERSER FLOW CONTROL	1,2	1	431AT,413AL,414AR	78-34-02
TEE - R ENGINE, THRUST REVERSER FLOW CONTROL	1,2	1	441AT,423AL,424AR	78-34-02
UNIT - (FIM 32-09-00/101) ELEX PROX SW, M162		1		
VALVE - L ENGINE, THRUST REVERSER DIRECTIONAL CONTROL, V342	1,2	1	431AT	78-34-01
VALVE - R ENGINE, THRUST REVERSER DIRECTIONAL CONTROL, V343	1,2	1	441AT	78-34-01
VALVE - L ENGINE, T/R MOTORIZED ISOLATION VALVE, V167	3	1	437BL,437BR	78-34-10
VALVE - R ENGINE, T/R MOTORIZED ISOLATION VALVE, V168	3	1	447BL,447BR	78-34-10
VALVE - L ENGINE, T/R STOW, V106	3	1	437BL	78-34-05
VALVE - R ENGINE, T/R STOW, V107	3	1	447BL	78-34-05

\* SEE THE WDM EQUIPMENT LIST

Thrust Reverser Control System - Component Index  
Figure 101 (Sheet 2)

EFFECTIVITY

ALL

**78-34-00**

NO2A

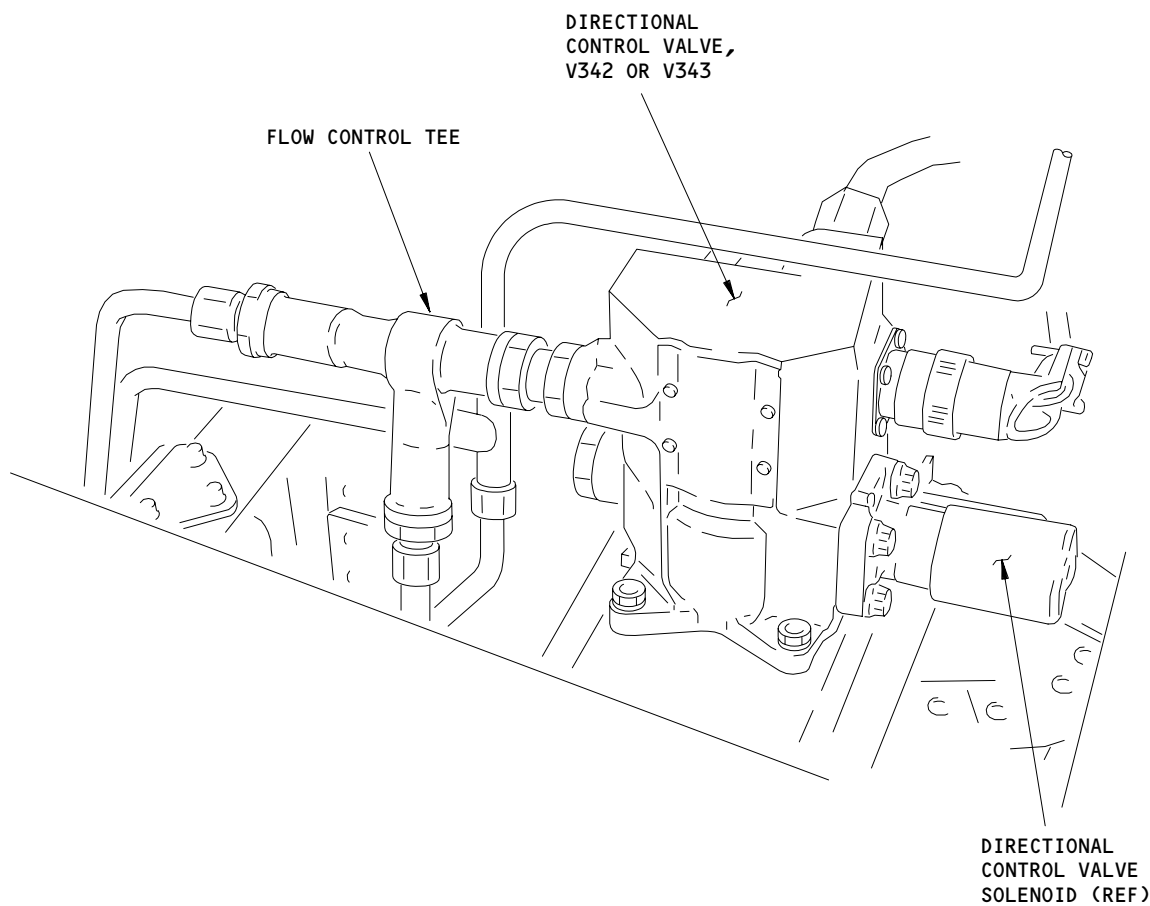
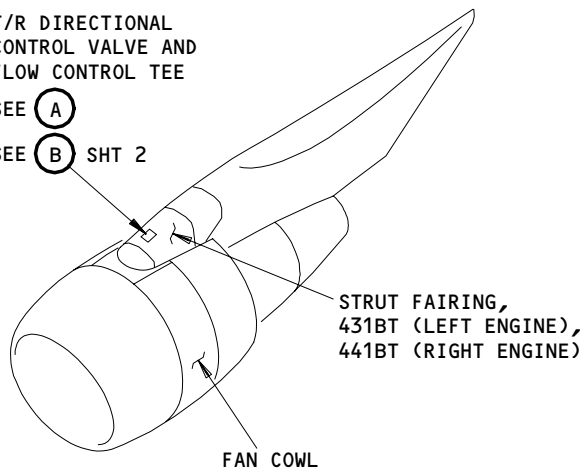
Page 102  
Nov 10/97

E54075

T/R DIRECTIONAL  
CONTROL VALVE AND  
FLOW CONTROL TEE

SEE (A)

SEE (B) SHT 2



LEFT OR RIGHT ENGINE T/R DIRECTIONAL  
CONTROL VALVE AND FLOW CONTROL TEE

(A)

Thrust Reverser Control System - Component Location  
Figure 102 (Sheet 1)

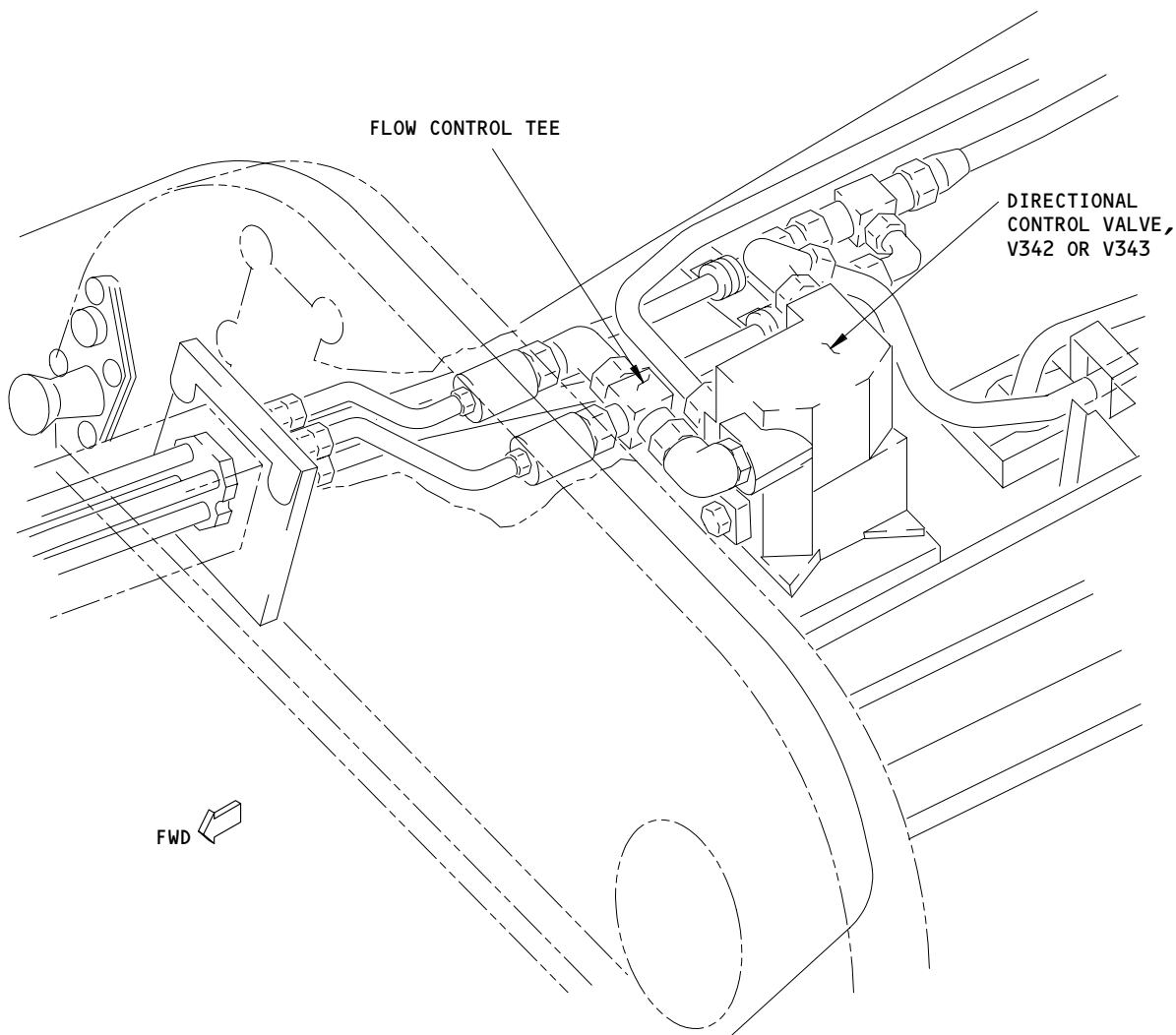
EFFECTIVITY	
	ALL

78-34-00

N02A

Page 103  
Feb 10/94





LEFT OR RIGHT ENGINE T/R DIRECTIONAL  
 CONTROL VALVE AND FLOW CONTROL TEE

(B)

Thrust Reverser Control System - Component Location (Detail From Sht 1)  
 Figure 102 (Sheet 2)

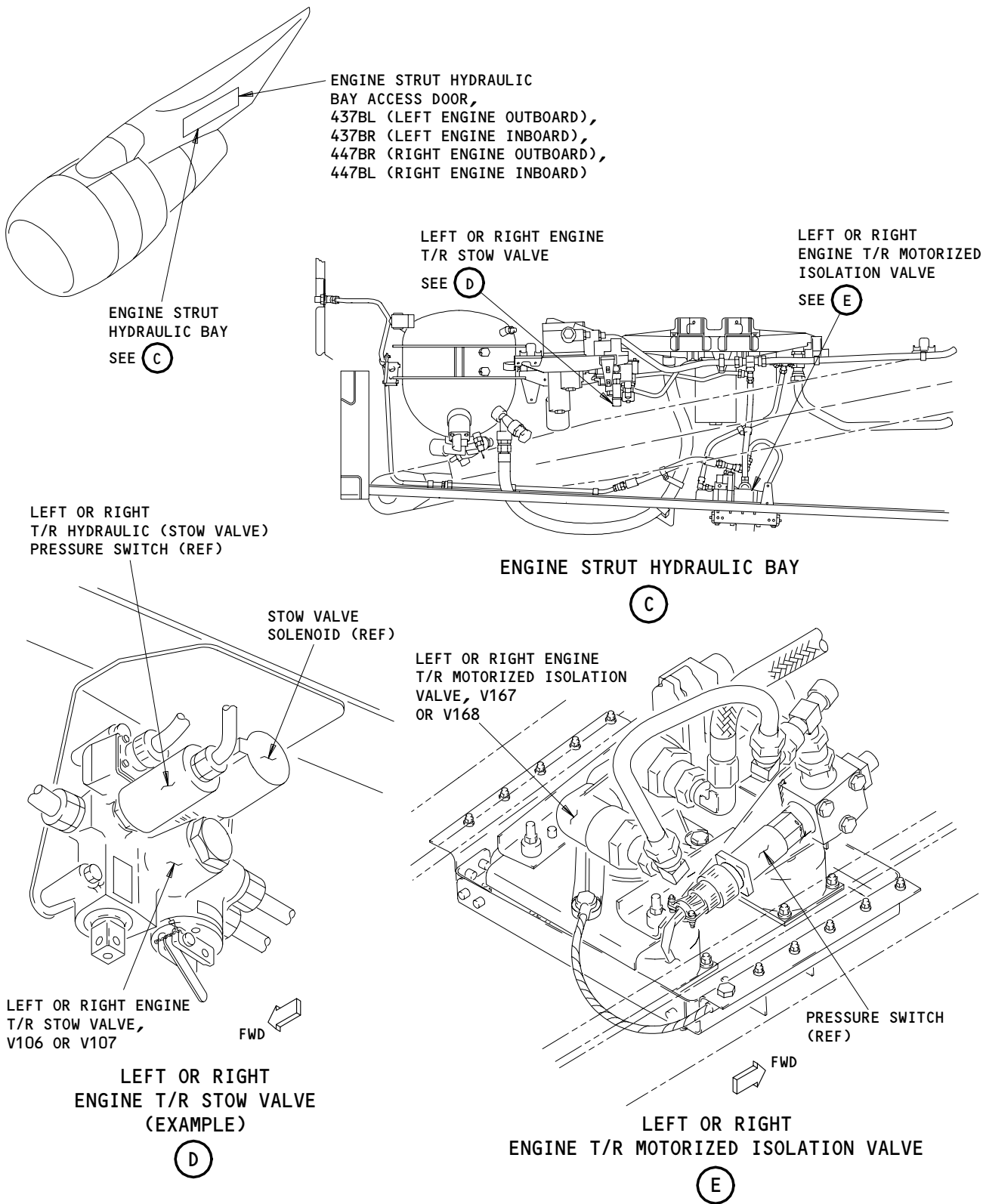
EFFECTIVITY	
	ALL

**78-34-00**

NO2A

Page 104  
 Feb 10/94

D19002



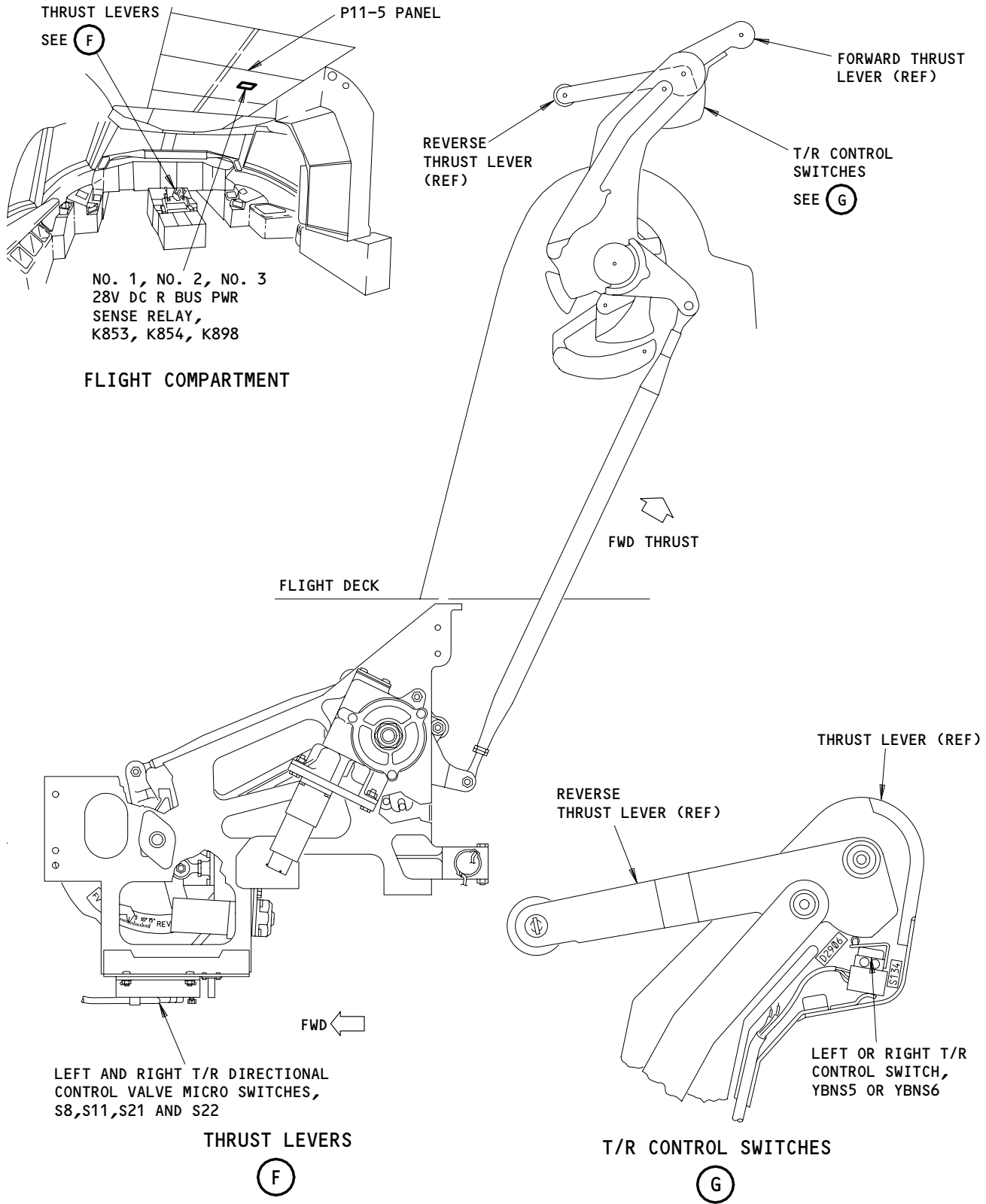
Trust Reverser Control System - Component Location  
Figure 102 (Sheet 3)

EFFECTIVITY	
	ALL

78-34-00

N02A

Page 105  
Feb 10/94

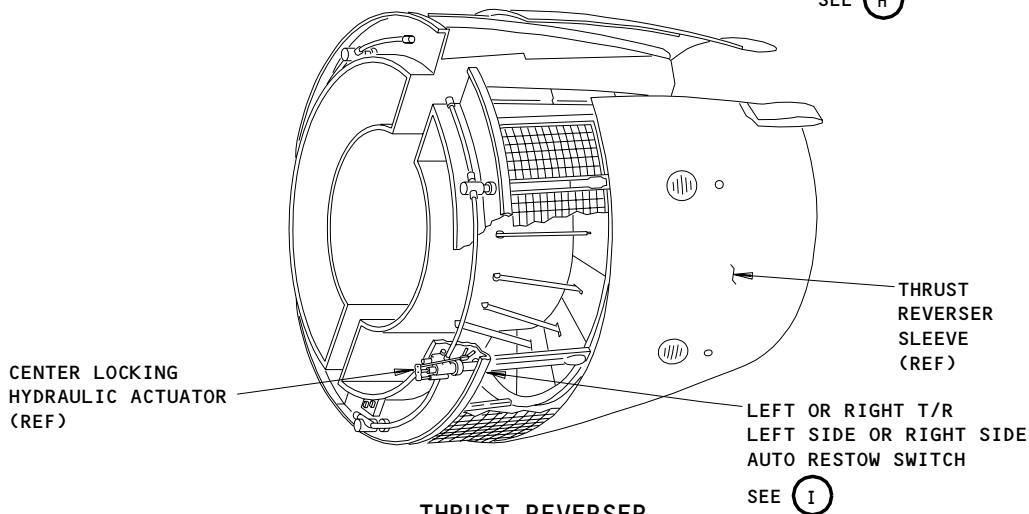
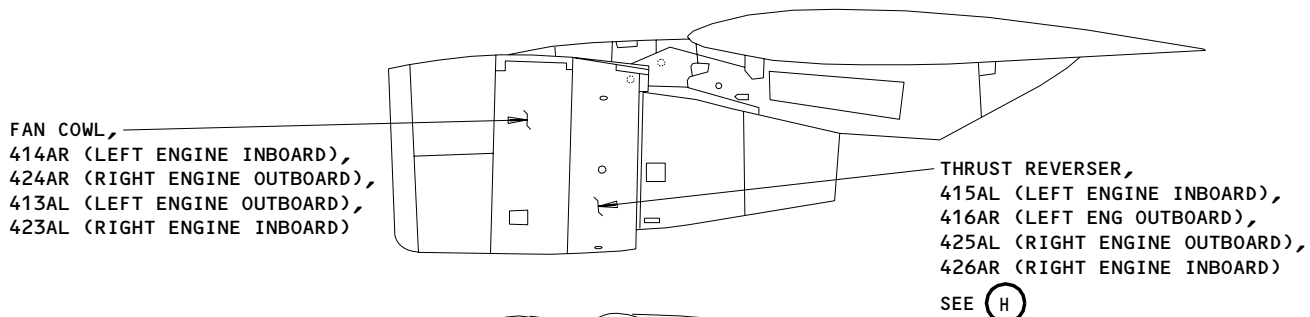


Thrust Reverser Control System - Component Location  
Figure 102 (Sheet 4)

EFFECTIVITY	
	ALL

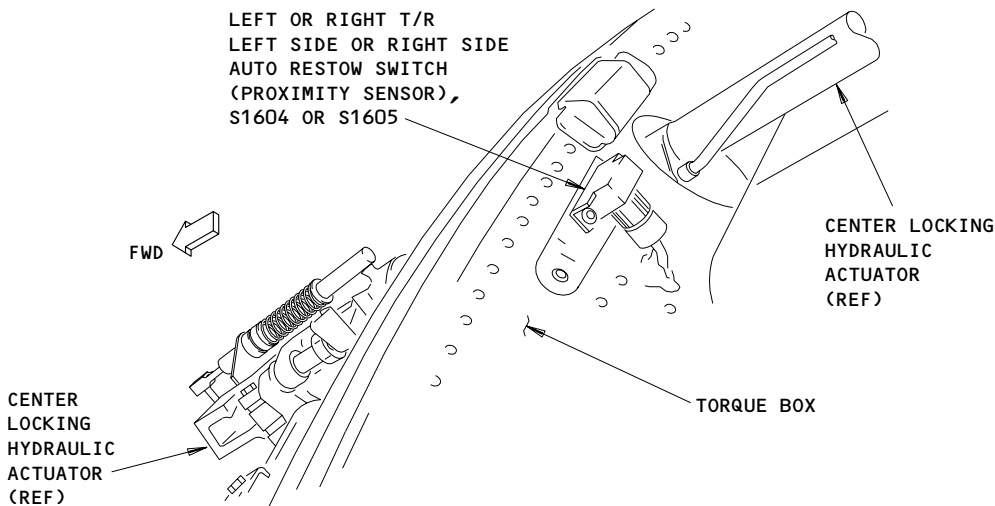
**78-34-00**

D21581



**THRUST REVERSER (SLEEVE EXTENDED)**

(H)



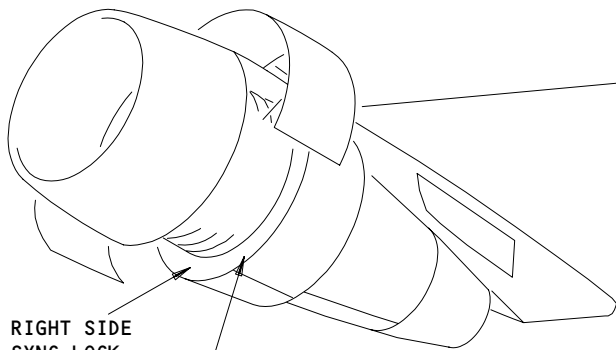
**LEFT OR RIGHT T/R LEFT SIDE OR RIGHT SIDE AUTO RESTOW SWITCH (THRUST REVERSER SLEEVE EXTENDED)**

(I)

**Thrust Reverser Control System - Component Location  
Figure 102 (Sheet 5)**

EFFECTIVITY	
	ALL

**78-34-00**

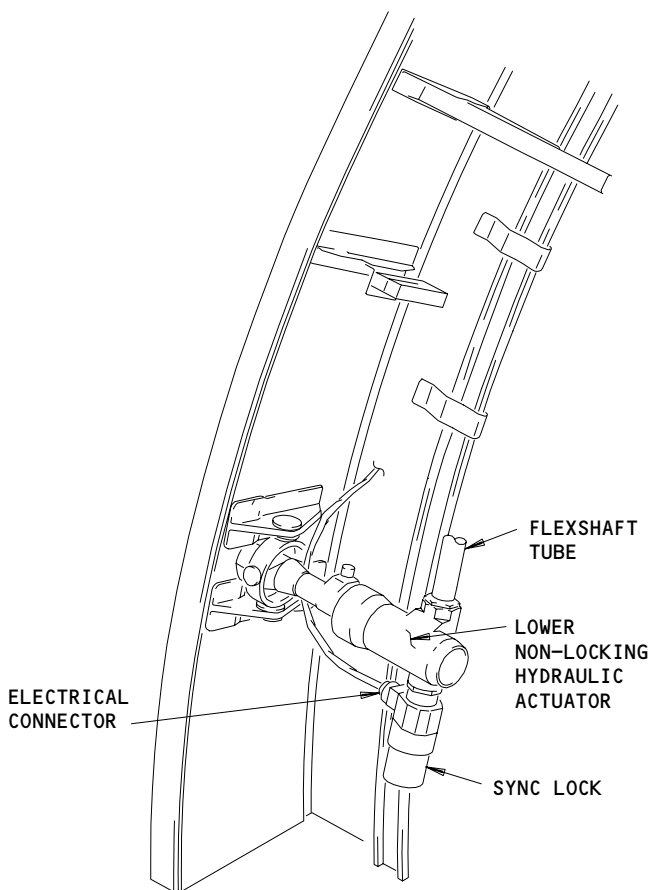


RIGHT SIDE  
SYNC LOCK

SEE (J)

LEFT SIDE  
SYNC LOCK

SEE (K)



ELECTRICAL  
CONNECTOR

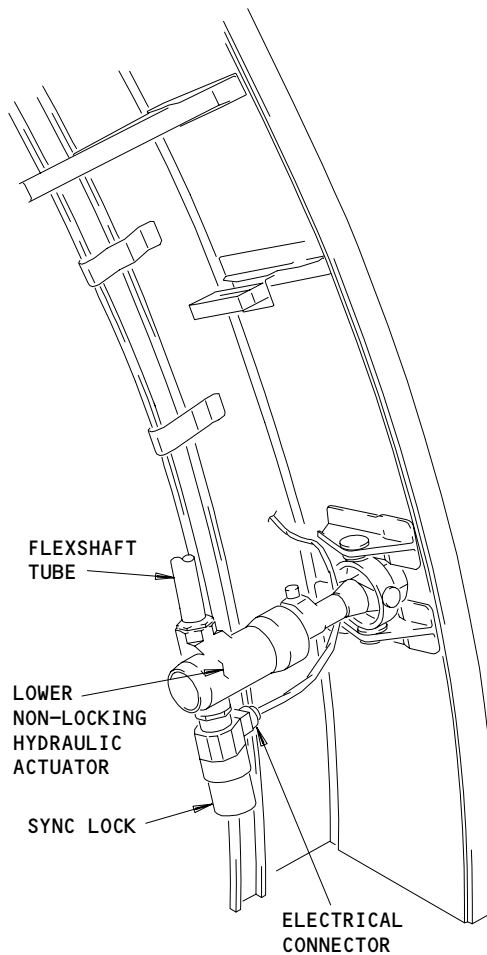
FLEXSHAFT  
TUBE

LOWER  
NON-LOCKING  
HYDRAULIC  
ACTUATOR

SYNC LOCK

RIGHT SIDE

(J)



FLEXSHAFT  
TUBE

LOWER  
NON-LOCKING  
HYDRAULIC  
ACTUATOR

SYNC LOCK

ELECTRICAL  
CONNECTOR

LEFT SIDE

(K)

Thrust Reverser Control System - Component Location  
Figure 102 (Sheet 6)

EFFECTIVITY

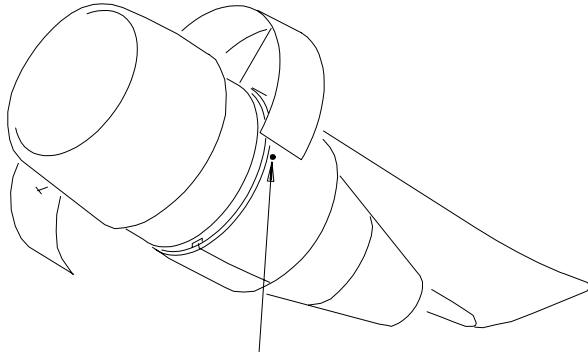
ALL

78-34-00

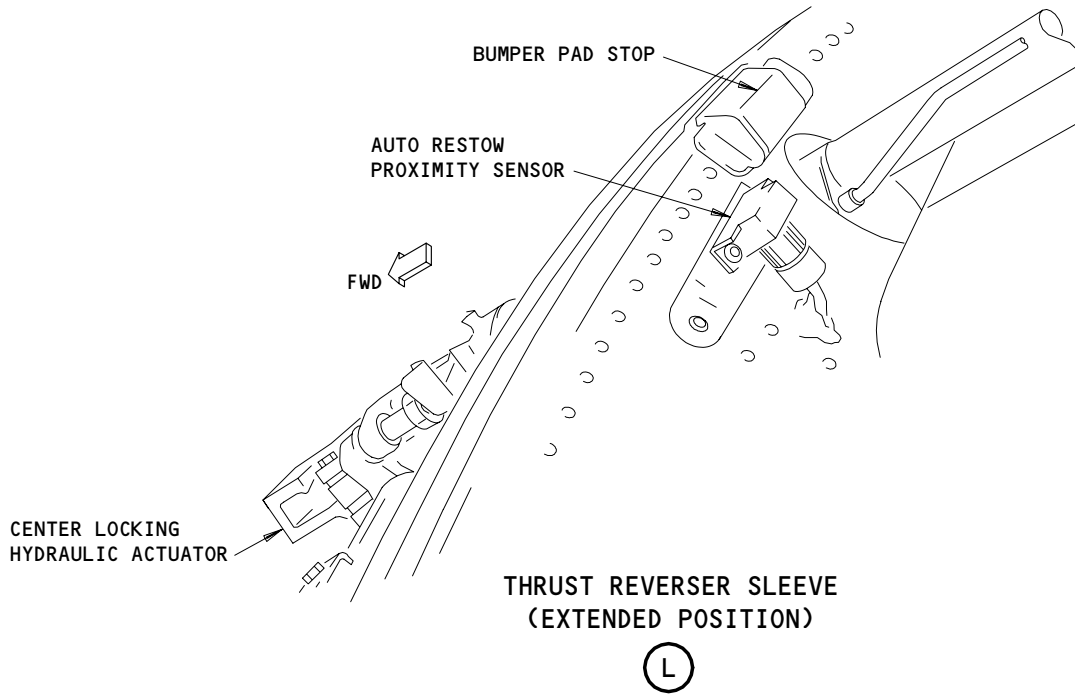
N02A

Page 108  
Feb 10/94

D21586



THRUST REVERSER SLEEVE  
SEE (L)



THRUST REVERSER SLEEVE  
(EXTENDED POSITION)

(L)

Thrust Reverser Control System - Component Location  
Figure 102 (Sheet 7)

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

78-34-00

N02A

Page 109  
Feb 10/94

D211593

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
(LEFT ENGINE) 11D13, 11D14, 11D18  
(RIGHT ENGINE) 11C21, 11D21, 11D32, 11D33, 11L32, 11L33, 11M30

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

THE THRUST REVERSER IS COMMANDED TO STOW AND DOES NOT STOW.



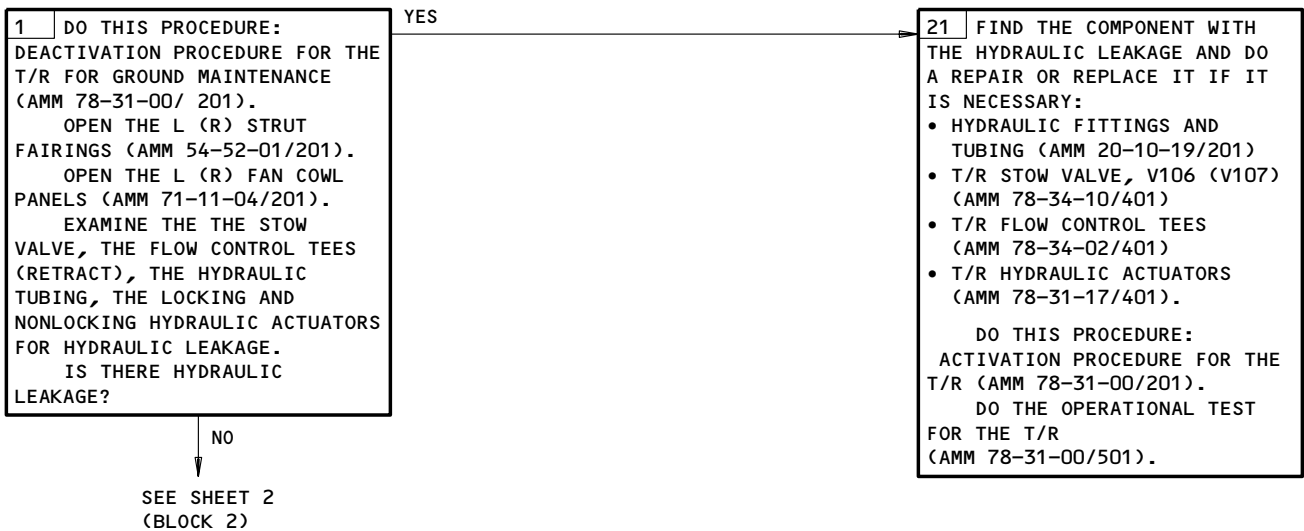
**DESCRIPTION:**

FWD THRUST SELECTED. "REV" GREEN SHOWN. "REV ISLN" LGT/ "L (R) REV ISLN VAL" EICAS MSG SHOWN.

**POSSIBLE CAUSES:**

1. HYDRAULIC FLUID LEAK FROM HYDRAULIC FITTINGS AND TUBING (AMM 20-10-19/201), T/R STOW VALVE (AMM 78-34-10/401), T/R FLOW CONTROL TEES (AMM 78-34-02/401), T/R HYDRAULIC ACTUATORS (AMM 78-31-17/401)
2. RETRACT FLOW CONTROL TEE IS DEFECTIVE (AMM 78-34-02/401)
3. SOLENOID VALVE ON THE T/R STOW VALVE IS DEFECTIVE (AMM 78-34-12/401)
4. ENG T/R DEPLOY RELAY IS DEFECTIVE (WDM 78-34-11, -21)
5. CIRCUIT BETWEEN CONNECTOR D20102 (D20104) AND ENG T/R STOW VLV IS DEFECTIVE (WDM 78-34-11, -21)
6. CIRCUIT FOR THE ENG T/R STOW RELAY IS DEFECTIVE (WDM 78-34-11, -21)
7. ENG T/R STOW RELAY IS DEFECTIVE (WDM 78-34-11, -21)
8. M162, PSEU IS DEFECTIVE (AMM 32-09-04/401)
9. ISOLATION DIODE OR RELATED CIRCUIT IS DEFECTIVE (WDM 78-34-11, -21)
10. CIRCUIT BETWEEN TB76, PIN Z10 (TB84, PIN Z3) AND CONNECTOR D3492 (D3670) IS DEFECTIVE (WDM 78-31-11, -12).

**FAULT ISOLATION:**



The Thrust Reverser is Commaned to Stow and Does not Stow.  
Figure 103 (Sheet 1)

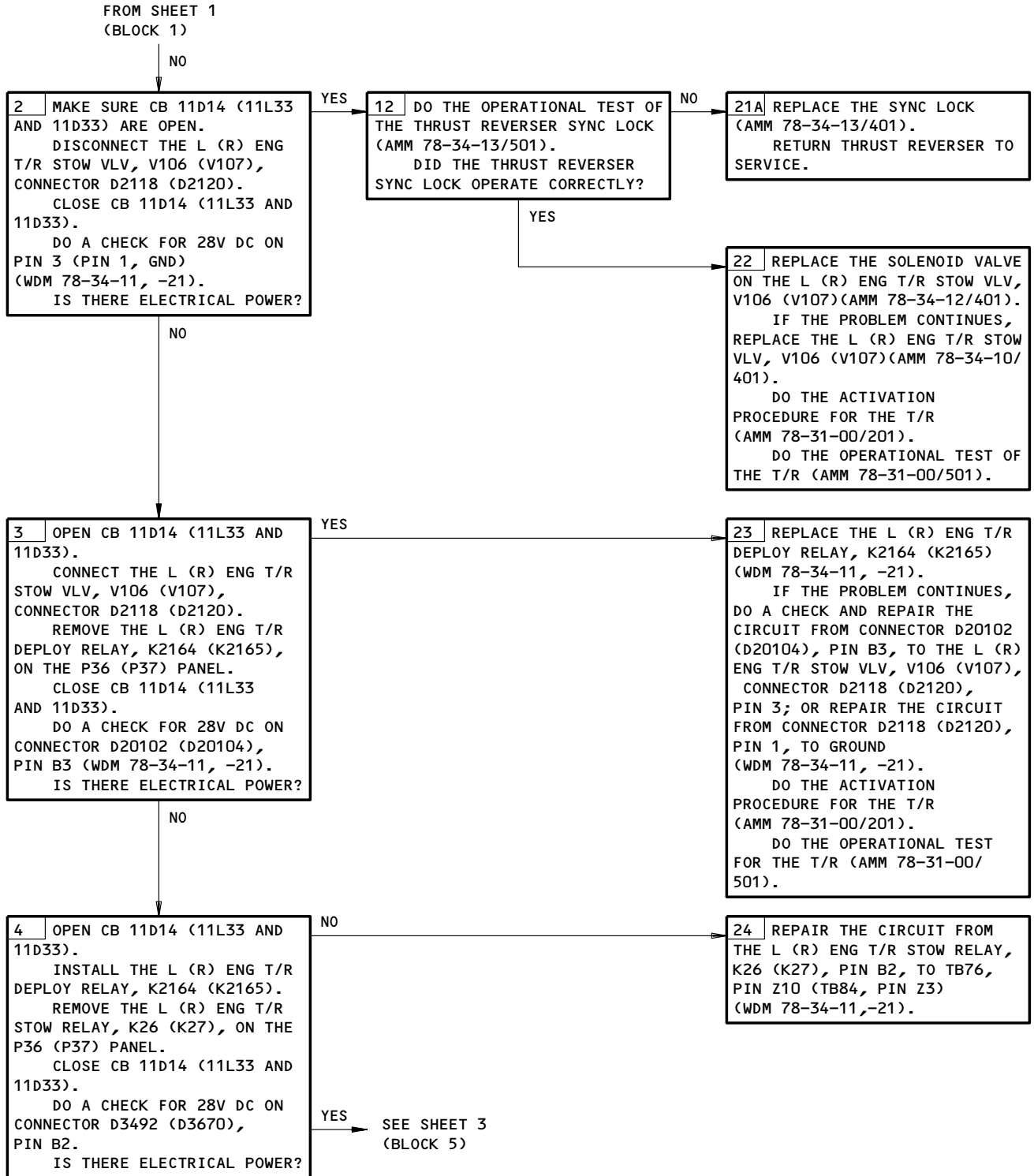
EFFECTIVITY

ALL

**78-34-00**

NO2A

Page 110  
Aug 22/99



The Thrust Reverser is Commanded to Stow and Does not Stow.  
Figure 103 (Sheet 2)

EFFECTIVITY

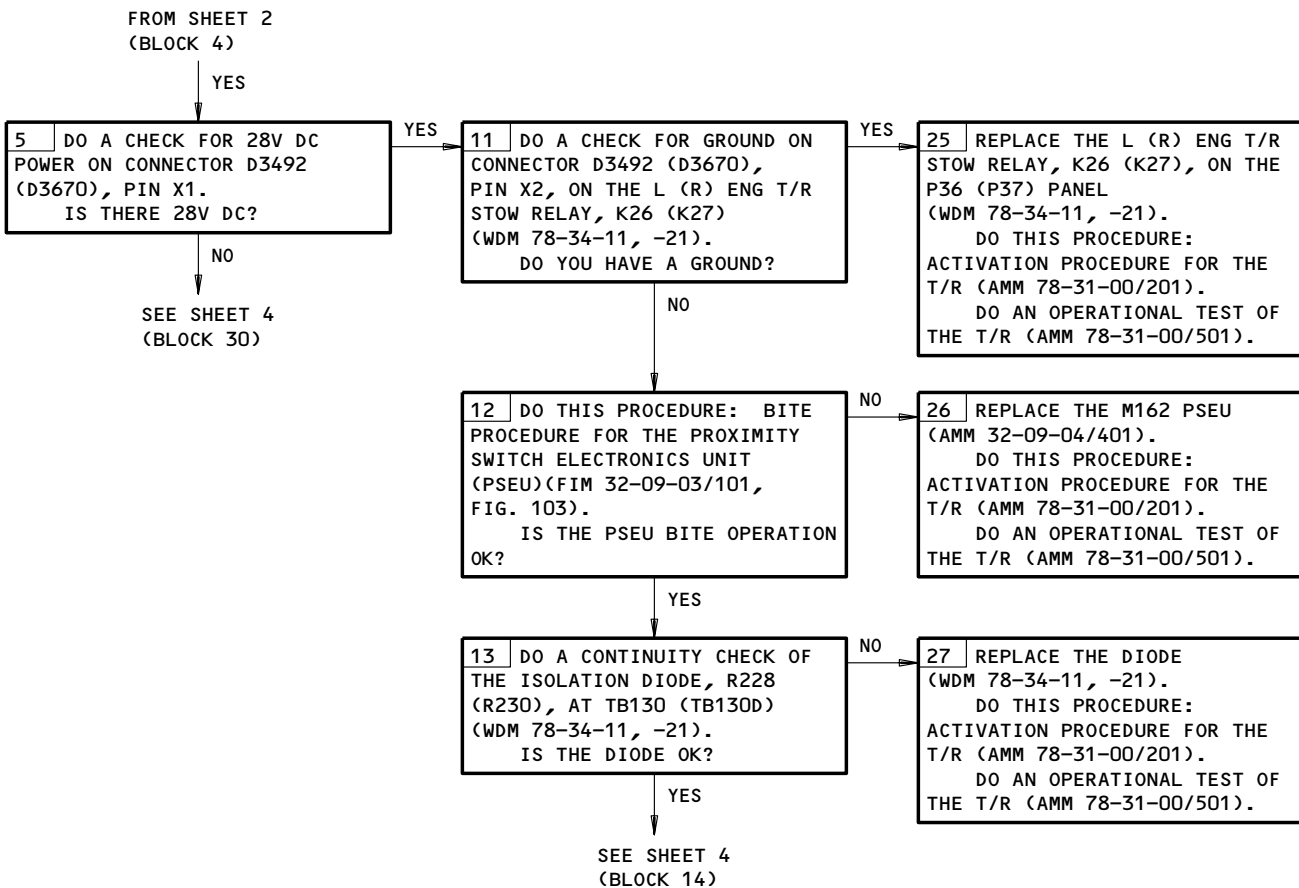
ALL

**78-34-00**

NO2A

Page 111  
Aug 22/99





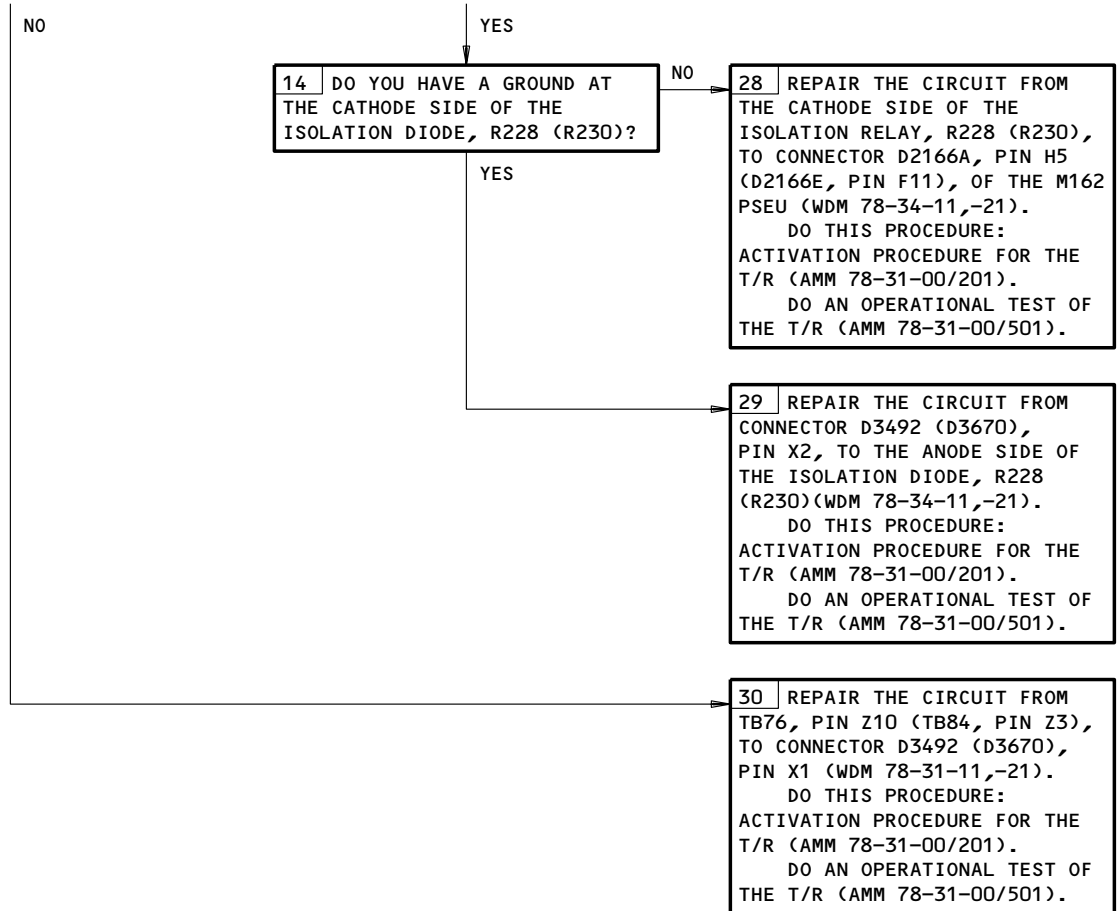
The Thrust Reverser is Commanded to Stow and Does not Stow.  
Figure 103 (Sheet 3)

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

**78-34-00**

FROM SHEET 3  
(BLOCK 5)

FROM SHEET 3  
(BLOCK 13)



The Thrust Reverser is Commanded to Stow and Does not Stow.  
Figure 103 (Sheet 4)

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

**78-34-00**

NO2A

Page 113  
Aug 22/99

D19192

SLOW TO DEPLOY.  
THRUST REVERSER IS  
COMMANDED TO DEPLOY.  
TIME TO DEPLOY IS  
MORE THAN 3 SECONDS  
(NO EICAS MESSAGE)



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE OPEN AND ATTACH  
DO-NOT-CLOSE TAGS:

- (LEFT ENGINE) 11D13, 11D14, 11D18
- (RIGHT ENGINE) 11C21, 11D32, 11D33, 11L32,  
11L33, 11M30

NOTE: IN USUAL OPERATION WITH HYDRAULIC POWER, THE  
THRUST REVERSER WILL FULLY EXTEND IN 3 SECONDS.

DESCRIPTION:

REVERSE THRUST SELECTED. "REV" AMBER AND GREEN SHOWN. NO "REV ISLN" LGT/L (R) REV ISLN VAL EICAS  
MESSAGE SHOWN. REVERSE THRUST LEVERS COULD BE ADVANCED. TIME TO REVERSE TOO SLOW.

POSSIBLE CAUSES:

1. HYDRAULIC FLUID LEAK FROM COWL OPENING POWER UNIT (AMM 78-31-05/401), COWL OPENING FLEX HOSES  
(AMM 78-31-08/401), COWL OPENING ACTUATORS (AMM 78-31-06/401), HYDRAULIC FITTINGS AND TUBING  
(AMM 20-10-19/201), MOTORIZED ISOLATION VALVE (AMM 78-34-05/401), T/R STOW VALVE (AMM 78-34-10/401),  
T/R FLOW CONTROL TEES (AMM 78-34-02/401), T/R HYDRAULIC ACTUATORS (AMM 78-31-17/401)
2. T/R TRACK SLIDERS ARE BLOCKED OR DAMAGED (AMM 78-31-13/601)
3. T/R TRACK LINERS ARE BLOCKED OR DAMAGED (AMM 78-31-11/601)
4. T/R LOCKING OR NON-LOCKING HYDRAULIC ACTUATOR IS INCORRECTLY INSTALLED OR DAMAGED (AMM 78-31-17/401)
5. FLEXSHAFT IS NOT INSTALLED OR DEFECTIVE (AMM 78-31-18/401)
6. FLOW CONTROL TEES ARE DEFECTIVE (AMM 78-34-02/401)
7. T/R SLEEVE IS DAMAGED (AMM 78-31-10/401).

FAULT ISOLATION:



Slow To Deploy. Thrust Reverser is CommanDED to Deploy.  
Time To Deploy Is More Than 3 Seconds (No EICAS Message)  
Figure 104 (Sheet 1)

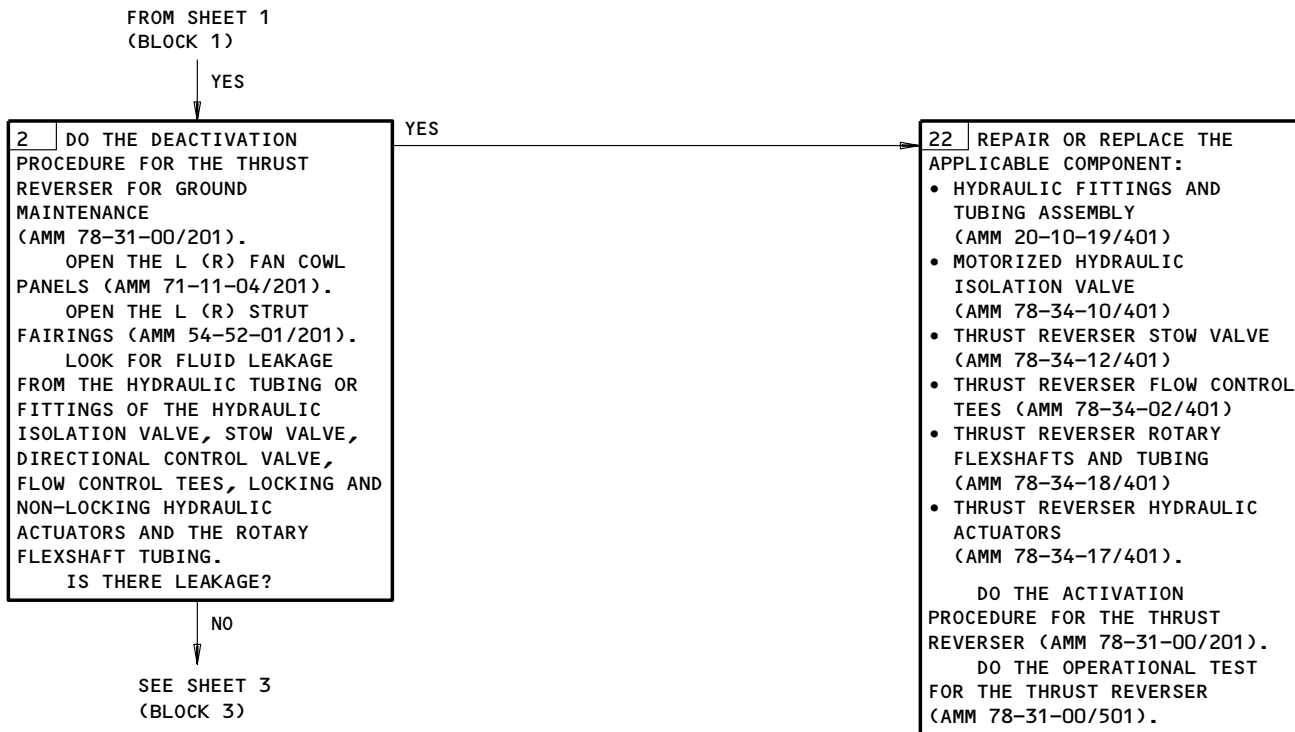
EFFECTIVITY

ALL

**78-34-00**

NO2A

Page 114  
Apr 22/99

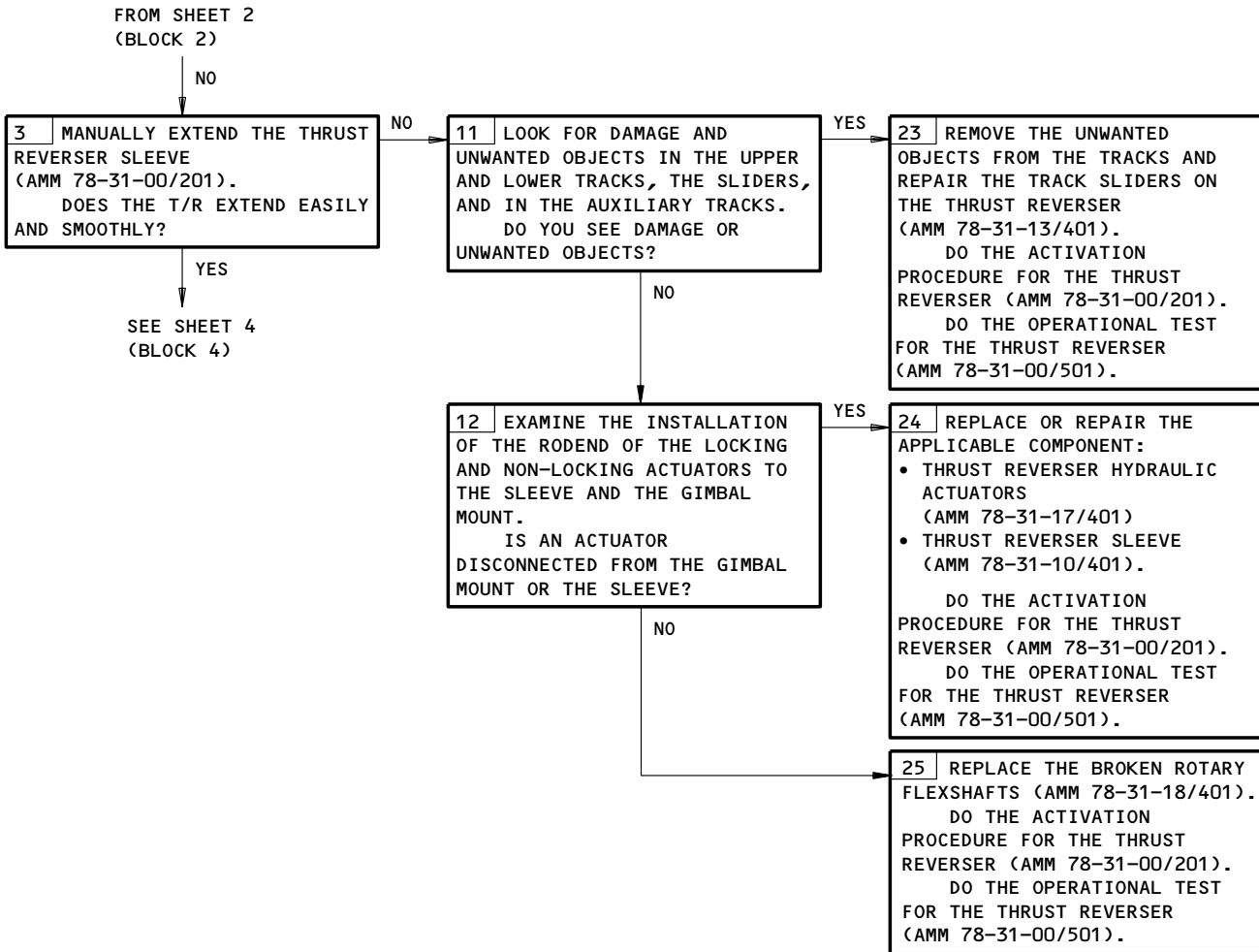


Slow To Deploy. Thrust Reverser is Commanded to Deploy.  
 Time To Deploy Is More Than 3 Seconds (No EICAS Message)  
 Figure 104 (Sheet 2)

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

78-34-00

C10130



Slow To Deploy. Thrust Reverser is Commanded to Deploy.  
Time To Deploy Is More Than 3 Seconds (No EICAS Message)  
Figure 104 (Sheet 3)

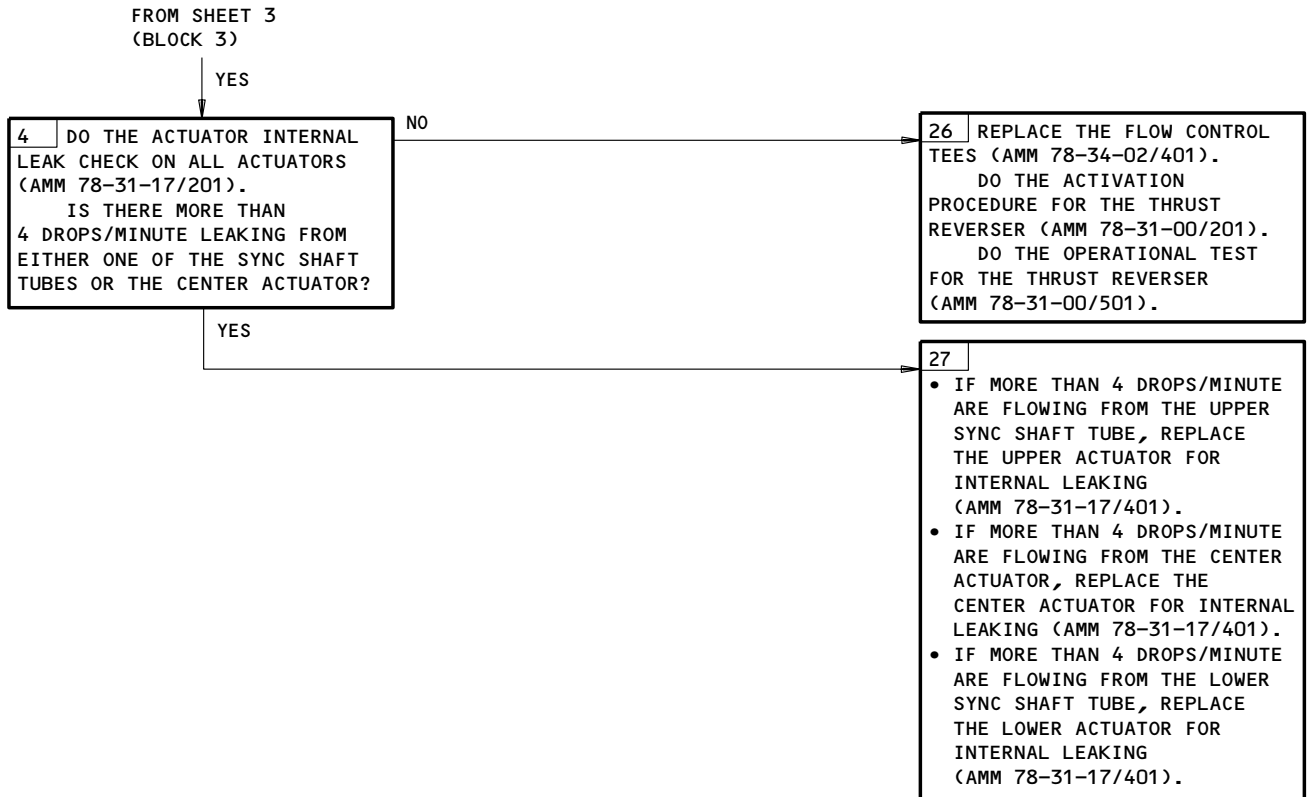
EFFECTIVITY

ALL

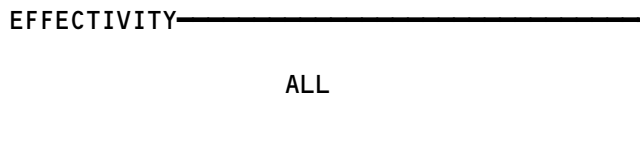
**78-34-00**

NO2A

Page 116  
Apr 22/99



Slow To Deploy. Thrust Reverser is Commanded to Deploy.  
Time To Deploy Is More Than 3 Seconds (No EICAS Message)  
Figure 104 (Sheet 4)



**78-34-00**

NO2A

Page 117  
Apr 22/99

K15521

**THRUST REVERSER  
COMMANDED TO DEPLOY.  
ONE OR BOTH SLEEVES  
DO NOT DEPLOY.**

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE OPEN AND ATTACH DO-NOT-CLOSE TAGS:  
(LEFT ENGINE) 11D13, 11D14, 11D18  
(RIGHT ENGINE) 11C21, 11D32, 11D33, 11L32, 11L33, 11M30



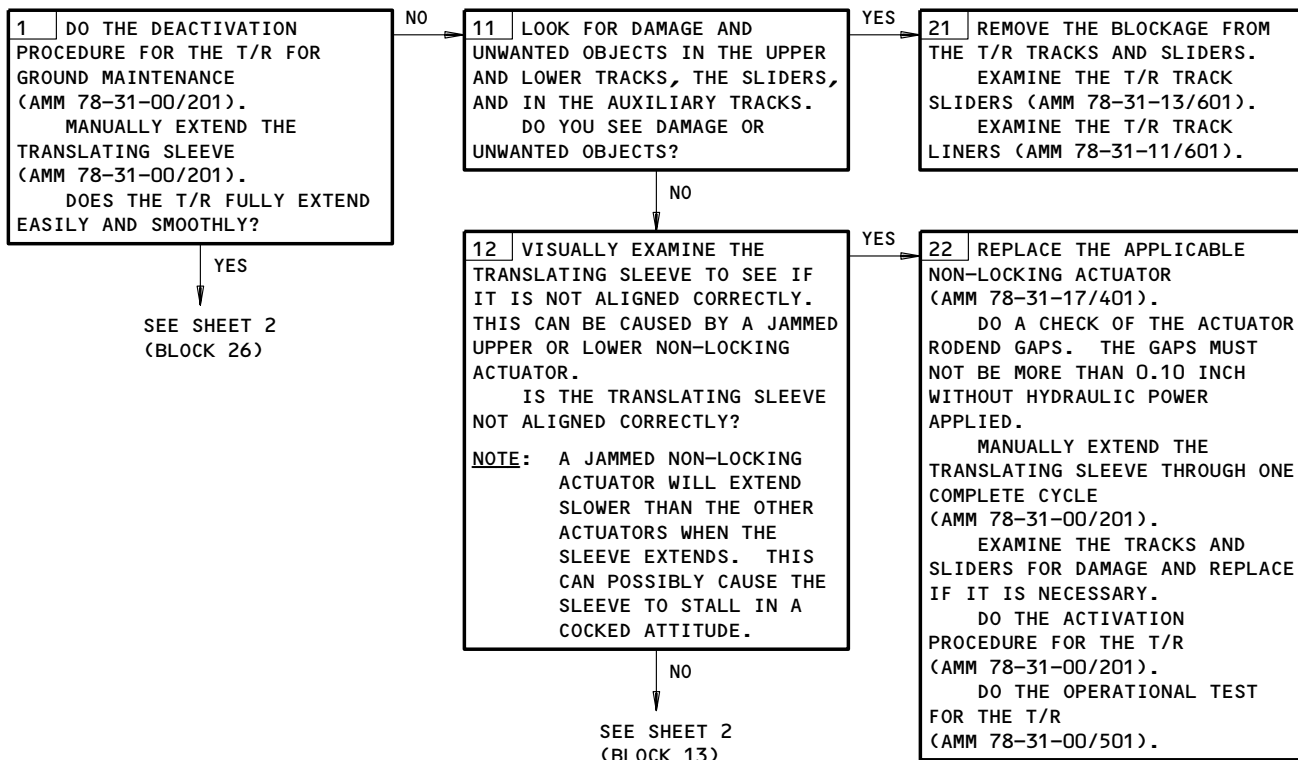
**DESCRIPTION:**

THE THRUST REVERSER HAS BEEN COMMANDED TO DEPLOY AND HAS NOT MOVED OR STOPPED DURING OPERATION. REVERSE THRUST LEVER CANNOT BE MOVED TO THE FULL DEPLOY POSITION (NO EICAS MESSAGE).

**POSSIBLE CAUSES:**

1. T/R TRACK SLIDERS ARE BLOCKED OR DAMAGED (AMM 78-31-13/601)
2. T/R TRACK LINERS ARE BLOCKED OR DAMAGED (AMM 78-31-11/601)
3. T/R LOCKING OR NON-LOCKING HYDRAULIC ACTUATOR IS INCORRECTLY INSTALLED OR DAMAGED (AMM 78-31-17/401)
4. FLOW CONTROL TEES ARE DEFECTIVE (AMM 78-34-02/401).

**FAULT ISOLATION:**



Thrust Reverser Comanded to Deploy. One or Both Sleeves Do Not Deploy.  
Figure 105 (Sheet 1)

EFFECTIVITY

ALL

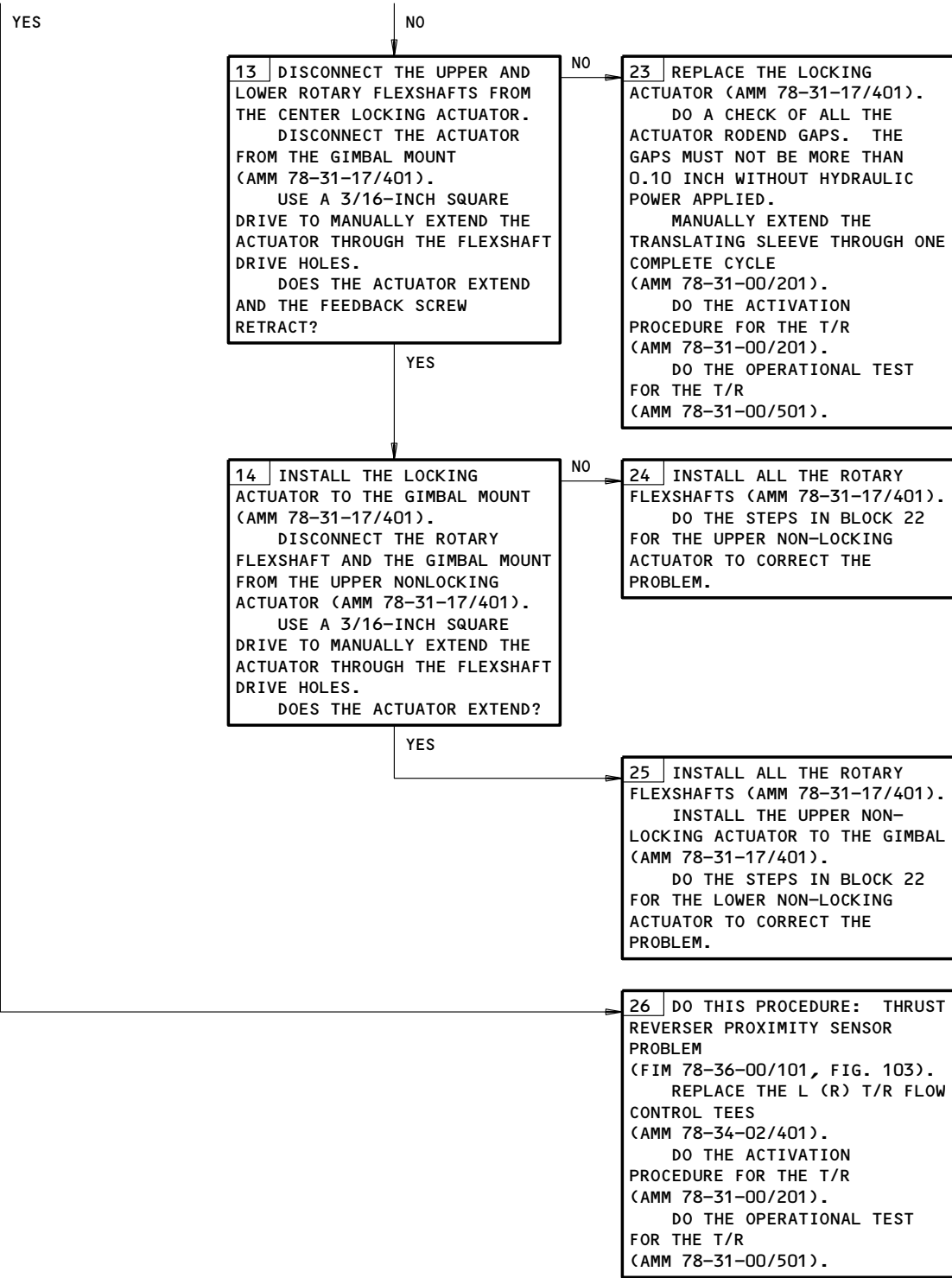
**78-34-00**

NO2A

Page 118  
Dec 22/99

FROM SHEET 1  
(BLOCK 1)

FROM SHEET 1  
(BLOCK 12)



Thrust Reverser Commanded to Deploy. One or Both Sleeves Do Not Deploy.  
Figure 105 (Sheet 2)

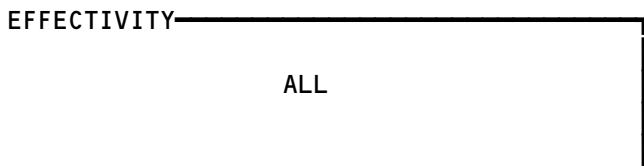
EFFECTIVITY	ALL
-------------	-----

78-34-00

C10134



Not Used  
Figure 106



**78-34-00**

NO2A

Page 120  
Dec 22/99

C10137

THRUST REVERSER  
WILL NOT GO TO  
REVERSE THRUST.  
THRUST LEVERS  
CANNOT MOVE TO  
FULL DEPLOY  
(EICAS MESSAGE  
SHOWN).



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:

- (LEFT ENGINE) 11D13, 11D14, 11D18
- (RIGHT ENGINE) 11C21, 11D32, 11D33,  
11L32, 11L33, 11M30

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:

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

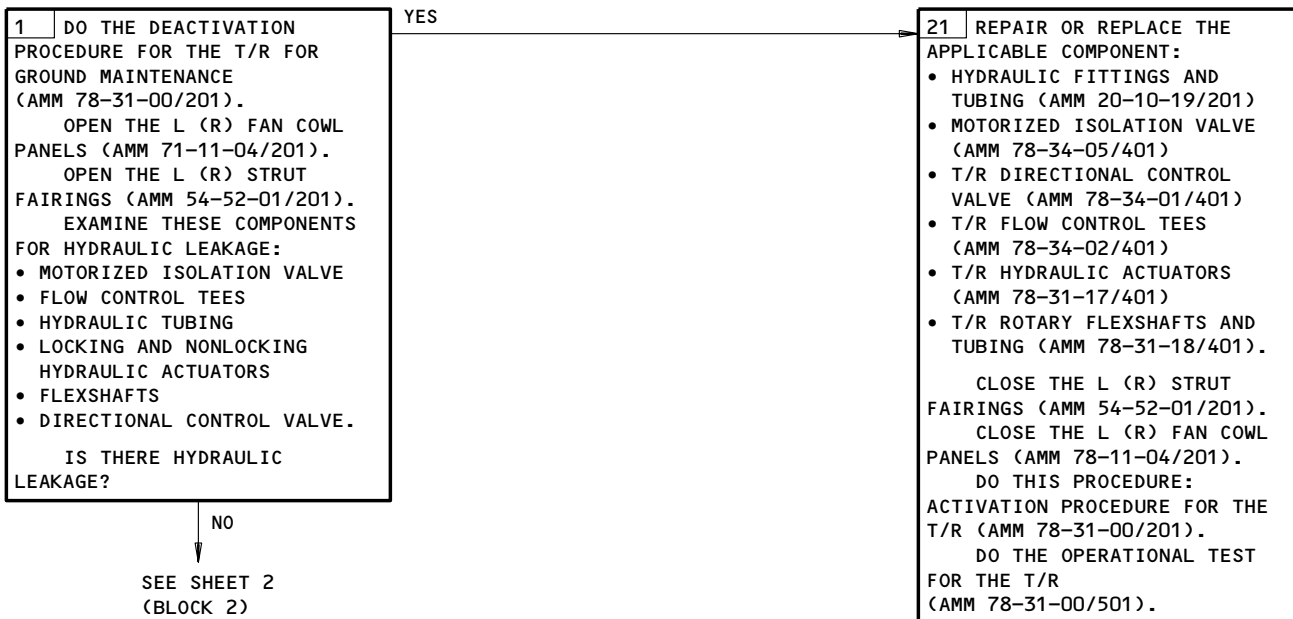
**DESCRIPTION:**

REVERSE THRUST SELECTED. NO "REV" AMBER OR GREEN. "REV ISLN" LGT/"L (R) REV ISLN VAL" EICAS MSG SHOWN. REVERSE THRUST LEVER COULD NOT BE ADVANCED.

**POSSIBLE CAUSES:**

1. HYDRAULIC FLUID LEAK FROM HYDRAULIC FITTINGS AND TUBING (AMM 20-10-19/201), MOTORIZED ISOLATION VALVE (AMM 78-34-05/401), T/R STOW VALVE (AMM 78-34-10/401), T/R FLOW CONTROL TEES (AMM 78-34-02/401), T/R HYDRAULIC ACTUATORS (AMM 78-31-17/401), T/R ROTARY FLEXSHAFT (AMM 78-31-18/401)
2. MOTORIZED ISOLATION VALVE IS DEFECTIVE (AMM 78-34-05/401)
3. ENG T/R DEPLOY RELAY IS DEFECTIVE (WDM 78-34-11, -21)
4. CIRCUIT BETWEEN CONNECTOR D20102 (D20104) AND TB OR GROUND IS DEFECTIVE (WDM 78-34-11, -21).

**FAULT ISOLATION:**



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (EICAS Message Shown).  
Figure 107 (Sheet 1)

EFFECTIVITY

ALL

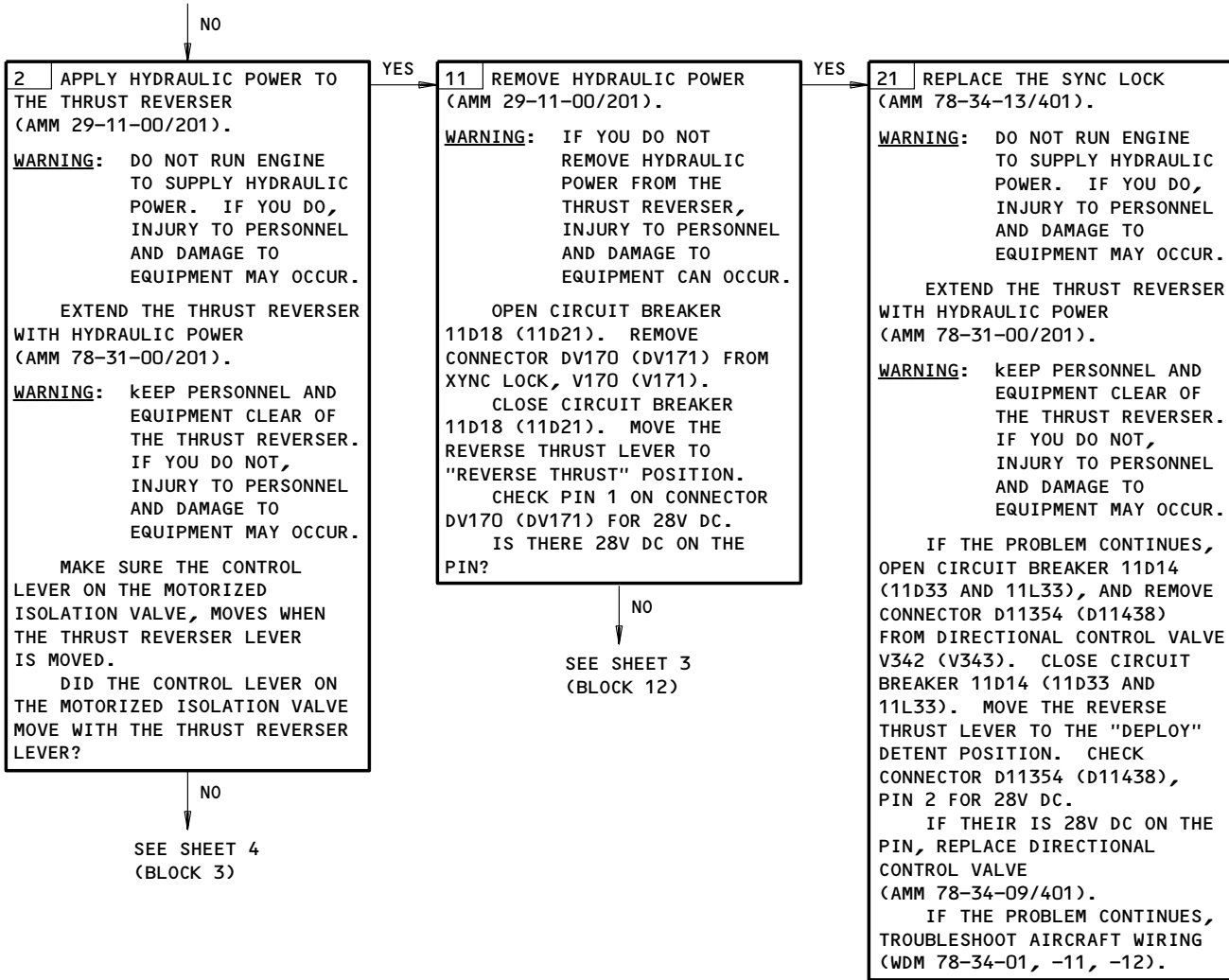
**78-34-00**

NO2A

Page 121  
Aug 22/00

C10140

FROM SHEET 1  
(BLOCK 1)



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (EICAS Message Shown).  
Figure 107 (Sheet 2)

EFFECTIVITY

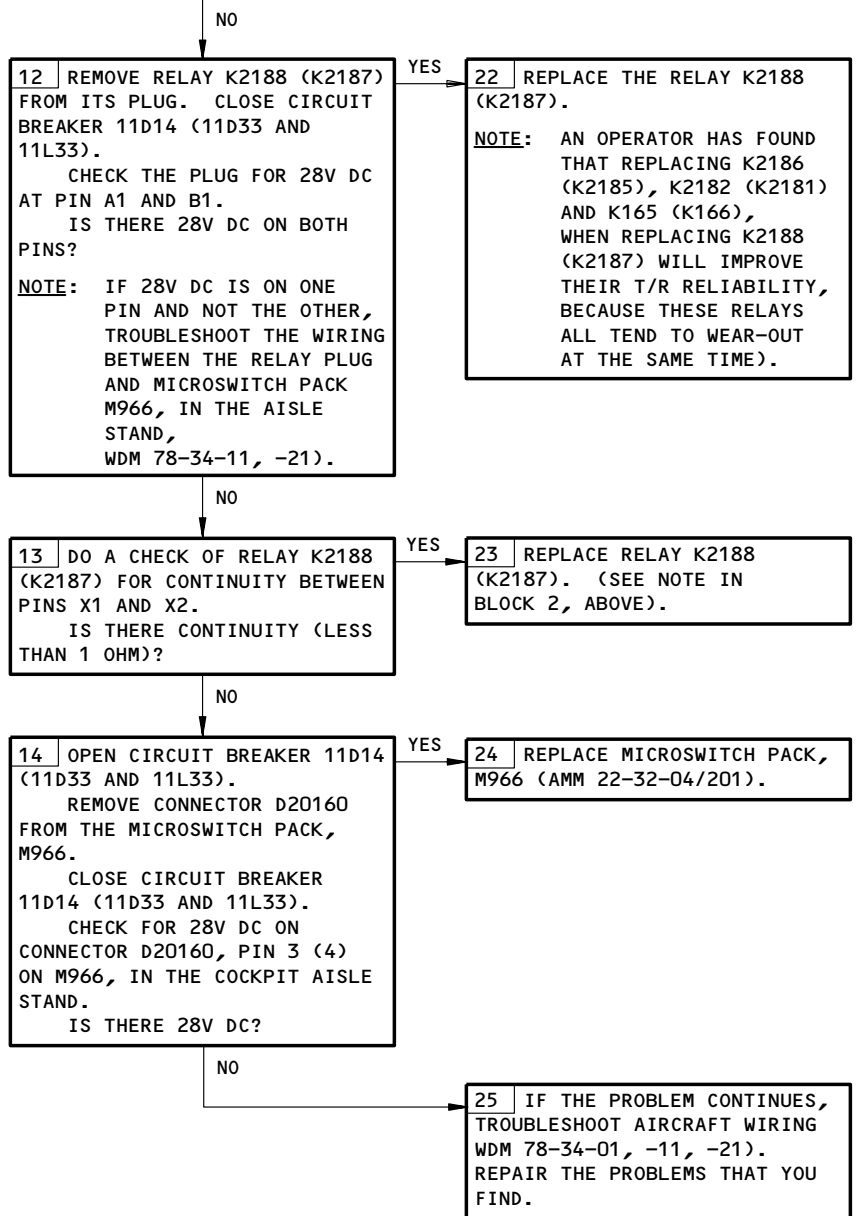
ALL

**78-34-00**

NO2A

Page 122  
Aug 22/00

FROM SHEET 2  
(BLOCK 11)



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers  
Cannot Move To Full Deploy (EICAS Message Shown).  
Figure 107 (Sheet 3)

EFFECTIVITY

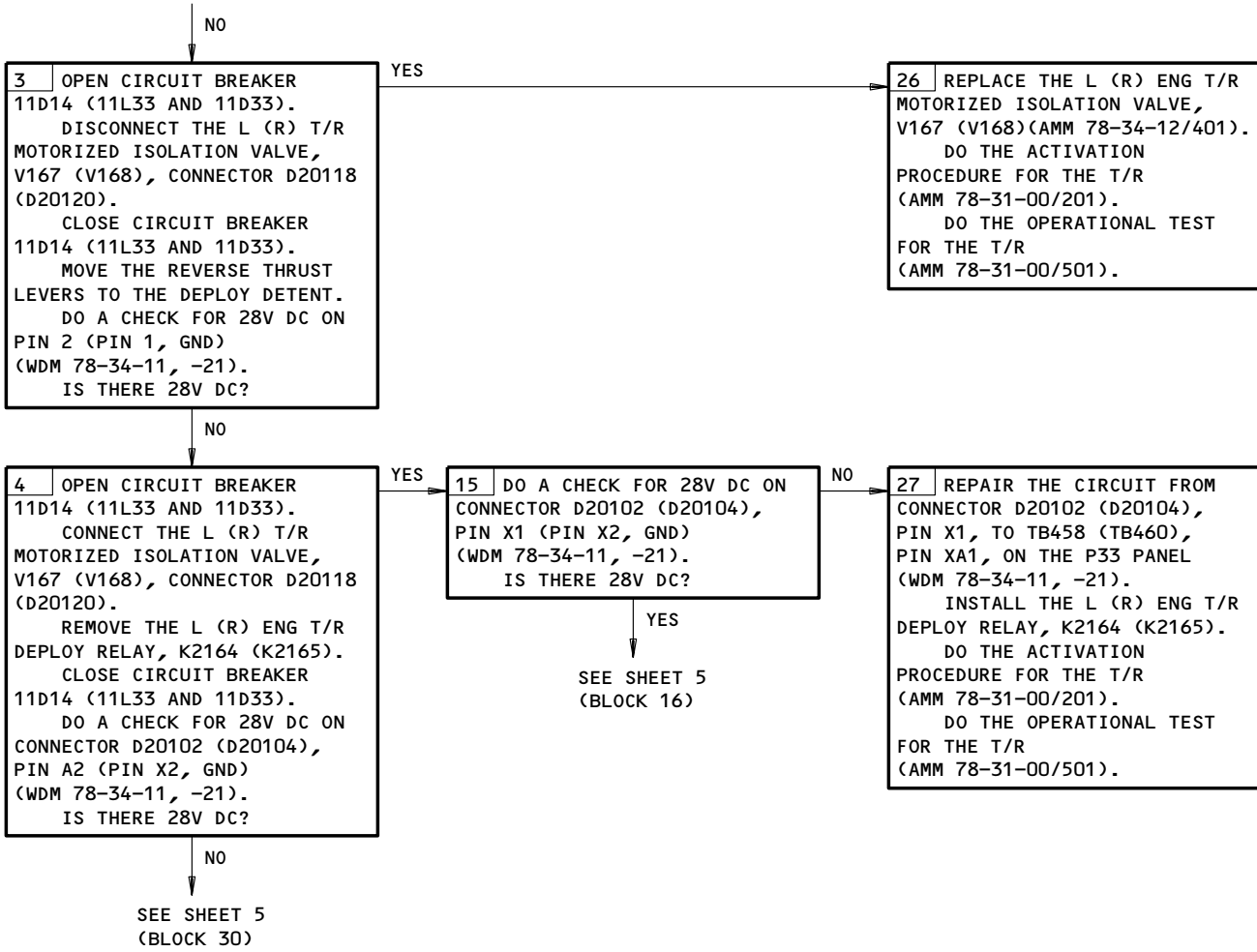
ALL

**78-34-00**

NO2A

Page 123  
Aug 22/00

FROM SHEET 2  
(BLOCK 2)



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (EICAS Message Shown).  
Figure 107 (Sheet 4)

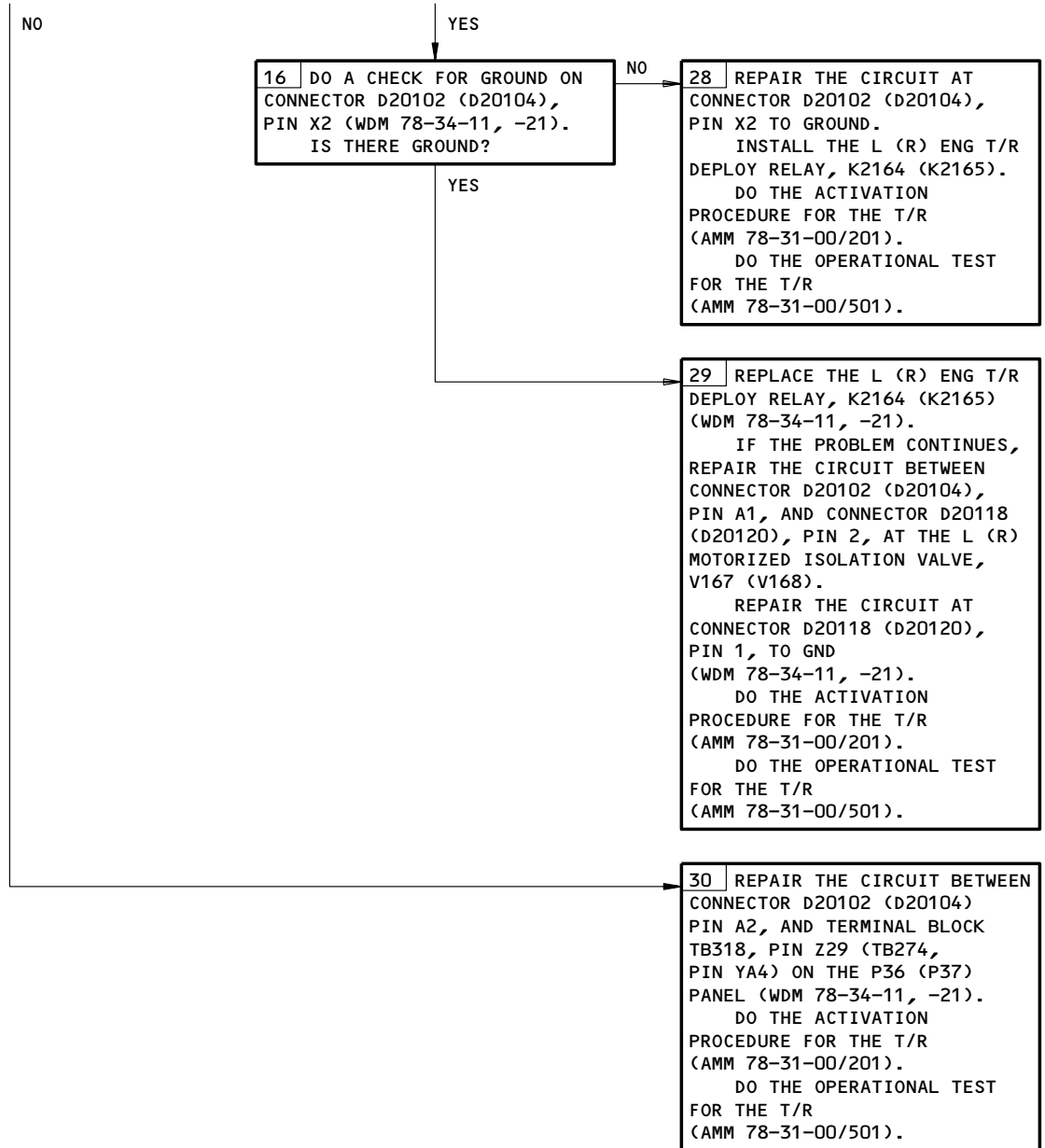
EFFECTIVITY	ALL
-------------	-----

78-34-00

C10141

FROM SHEET 4  
(BLOCK 4)

FROM SHEET 4  
(BLOCK 15)



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers  
Cannot Move To Full Deploy (EICAS Message Shown).  
Figure 107 (Sheet 5)

EFFECTIVITY

ALL

**78-34-00**

NO2A

Page 125  
Aug 22/00

C10142

THRUST REVERSER  
WILL NOT GO TO  
REVERSE TRUST.  
THRUST LEVERS  
CANNOT MOVE TO  
FULL DEPLOY  
(NO EICAS MESSAGE  
SHOWN).

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
(LEFT ENGINE) 11D13, 11D14, 11D18  
(RIGHT ENGINE) 11C21, 11D32, 11D33,  
11L32, 11L33, 11M30

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
FIRE SWITCH S37 (S38) AT NORM



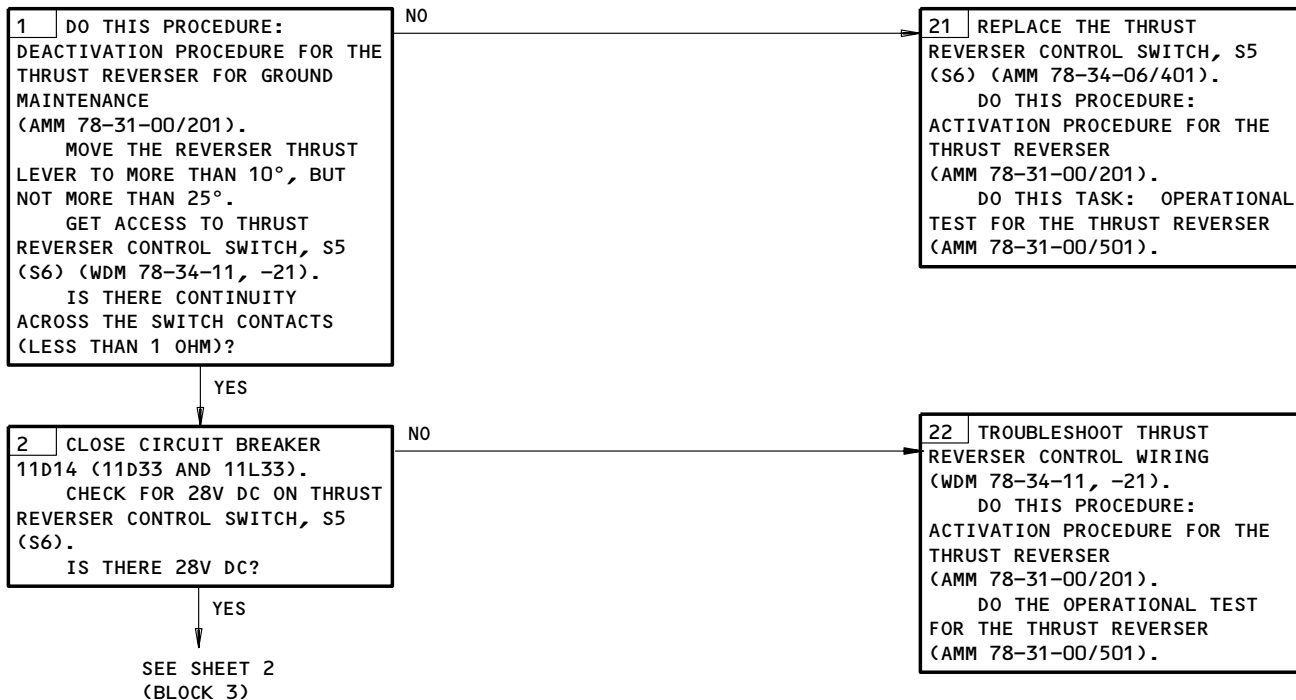
**DESCRIPTION:**

REVERSE THRUST SELECTED. NO "REV" AMBER OR GREEN. NO "REV ISLN" LGT/"L (R) REV ISLN VAL" NO EICAS MSG SHOWN. REVERSE THRUST LEVER COULD NOT BE ADVANCED.

**POSSIBLE CAUSES:**

1. T/R CONTROL SWITCH IN THE THRUST LEVER IS DEFECTIVE (AMM 78-34-06/401)
2. AIR/GND RELAY IS DEFECTIVE (WDM 78-34-11, -21)
3. ENGINE FIRE SWITCH IS NOT AT NORM OR IS DEFECTIVE (AMM 26-21-01/401)
4. DIRECTIONAL CONTROL VALVE IS DEFECTIVE (AMM 78-34-01/401)
5. DIRECTIONAL CONTROL VALVE SWITCH OR CIRCUIT IS DEFECTIVE (AMM 22-32-04/201)
6. CIRCUIT BETWEEN THE TERMINAL BOARD AND CIRCUIT BREAKER 11D14 (11D33) IS DEFECTIVE (WDM 78-34-11, -21).

**FAULT ISOLATION:**



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers  
Cannot Move To Full Deploy (No EICAS Message Shown).  
Figure 108 (Sheet 1)

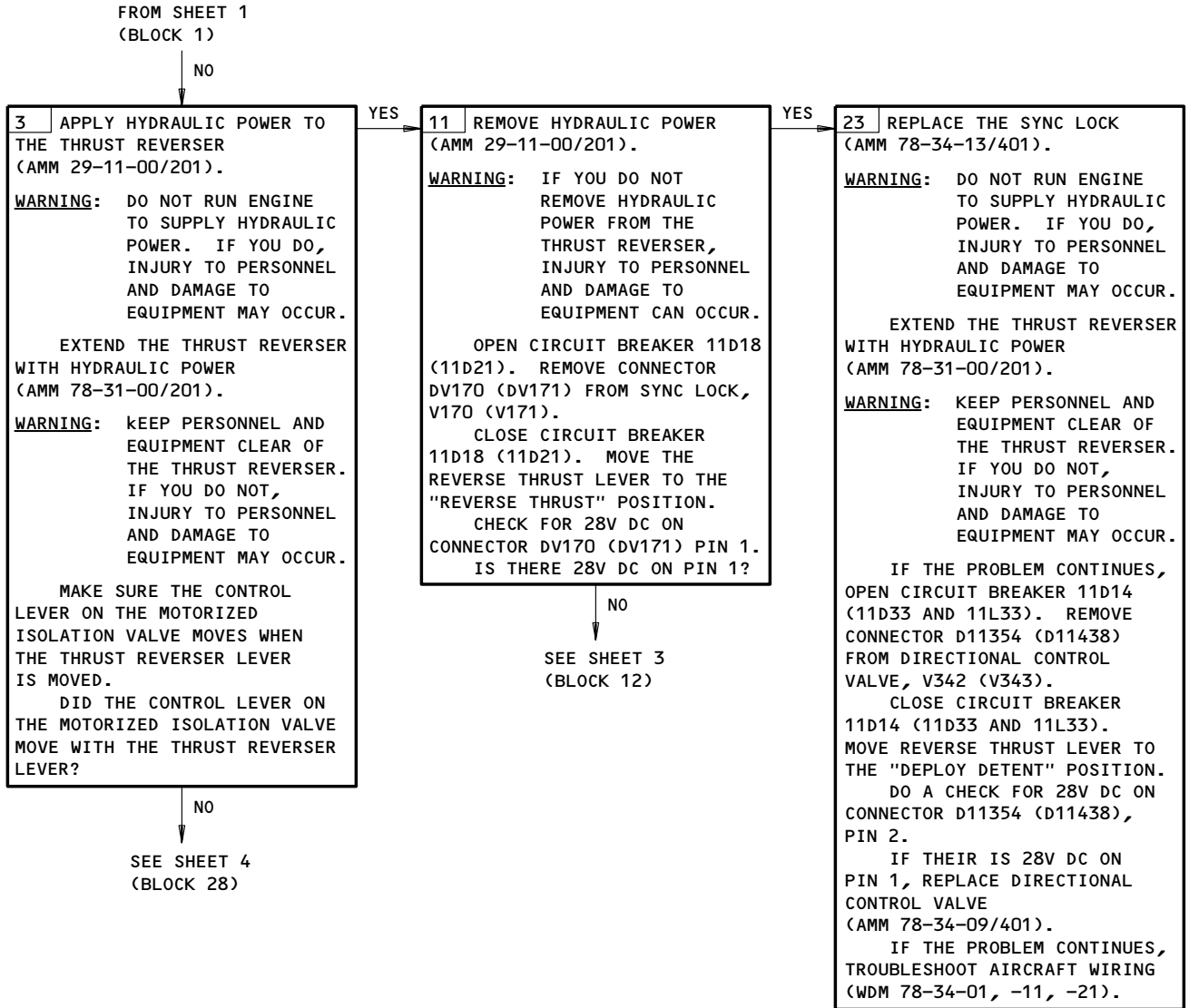
EFFECTIVITY

ALL

**78-34-00**

NO2A

Page 126  
Aug 22/00



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (No EICAS Message Shown).  
Figure 108 (Sheet 2)

EFFECTIVITY

ALL

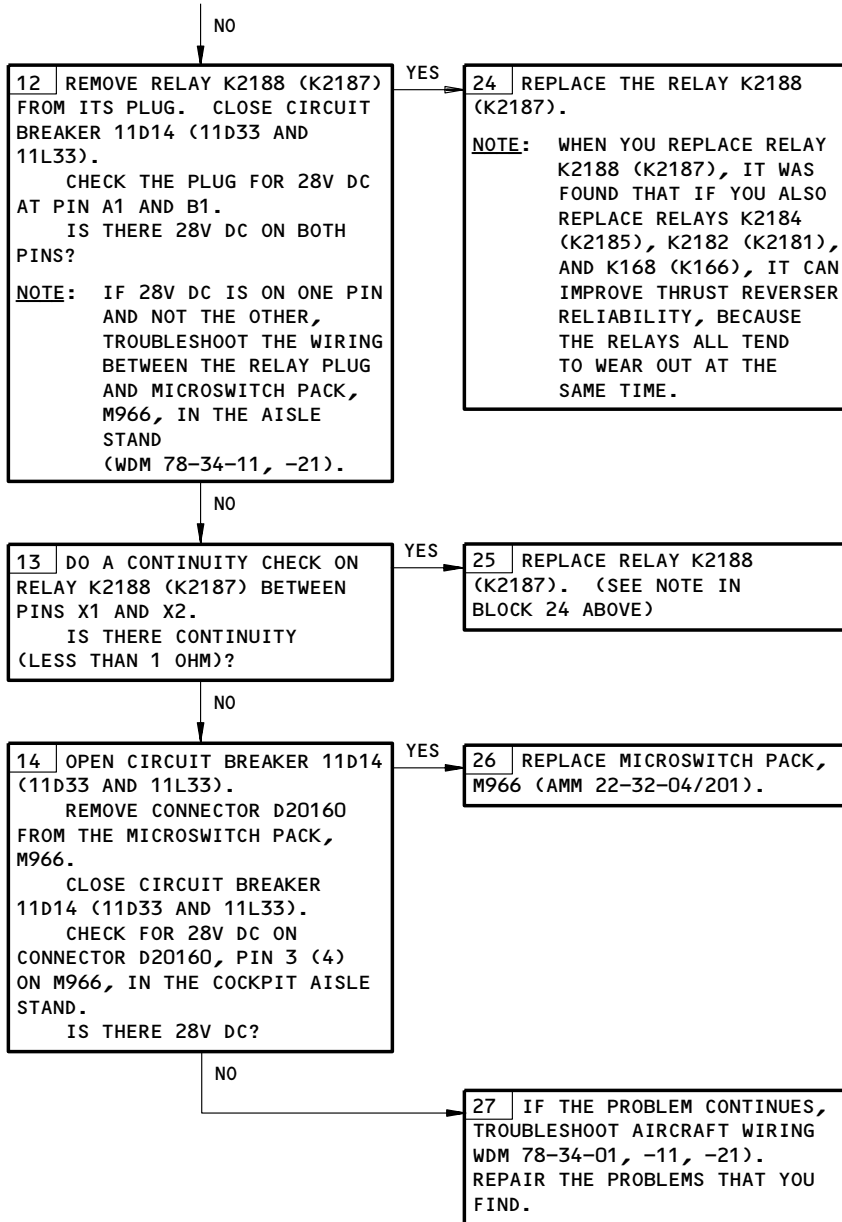
**78-34-00**

NO2A

Page 127  
Aug 22/00



FROM SHEET 2  
(BLOCK 11)



Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (No EICAS Message Shown).  
Figure 108 (Sheet 3)

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

**78-34-00**

FROM SHEET 2  
(BLOCK 3)

NO

28 REPLACE THE MOTORIZED ISOLATION VALVE (AMM 78-34-05/401).  
IF THE PROBLEM CONTINUES, OPEN CIRCUIT BREAKER 11D14 (11D33 AND 11L33).  
REMOVE CONNECTOR D11354 (D11438) FROM DIRECTIONAL CONTROL VALVE, V342 (V343).  
CLOSE CIRCUIT BREAKER 11D14 (11D33 AND 11L33).  
MOVE THE REVERSE THRUST LEVER TO THE DEPLOY DETENT POSITION.  
DO A CHECK FOR 28V DC ON CONNECTOR D11354 (D11438), PIN 2.  
IF THERE IS 28V DC ON PIN 2, REPLACE DIRECTIONAL CONTROL VALVE, V342 (V343) (AMM 78-34-09/401).  
IF THE PROBLEM CONTINUES, TROUBLESHOOT AIRCRAFT WIRING (WDM 78-34-01, -11, -21).  
REPAIR THE PROBLEMS THAT YOU FIND.

Thrust Reverser Will Not Go To Reverse Thrust. Thrust Levers Cannot Move To Full Deploy (No EICAS Message Shown).  
Figure 108 (Sheet 4)

EFFECTIVITY

ALL

**78-34-00**

NO2A

Page 129  
Aug 22/00

C10200

SLOW TO STOW FWD THRUST SELECTED. NO "REV" AMBER AND GREEN SHOWN. NO "REV ISLN" LIGHT/ "L (R) REV ISLN VAL" EICAS MESSAGE SHOWN.



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE OPEN AND ATTACH DO-NOT-CLOSE TAGS:

- (LEFT ENGINE) 11D13,11D14,11D18
- (RIGHT ENGINE) 11C21,11D32,11D33,11L32,11L33,11M30

**NOTE:** IN USUAL OPERATION WITH HYDRAULIC POWER, THE THRUST REVERSER WILL FULLY EXTEND IN 3 SECONDS.

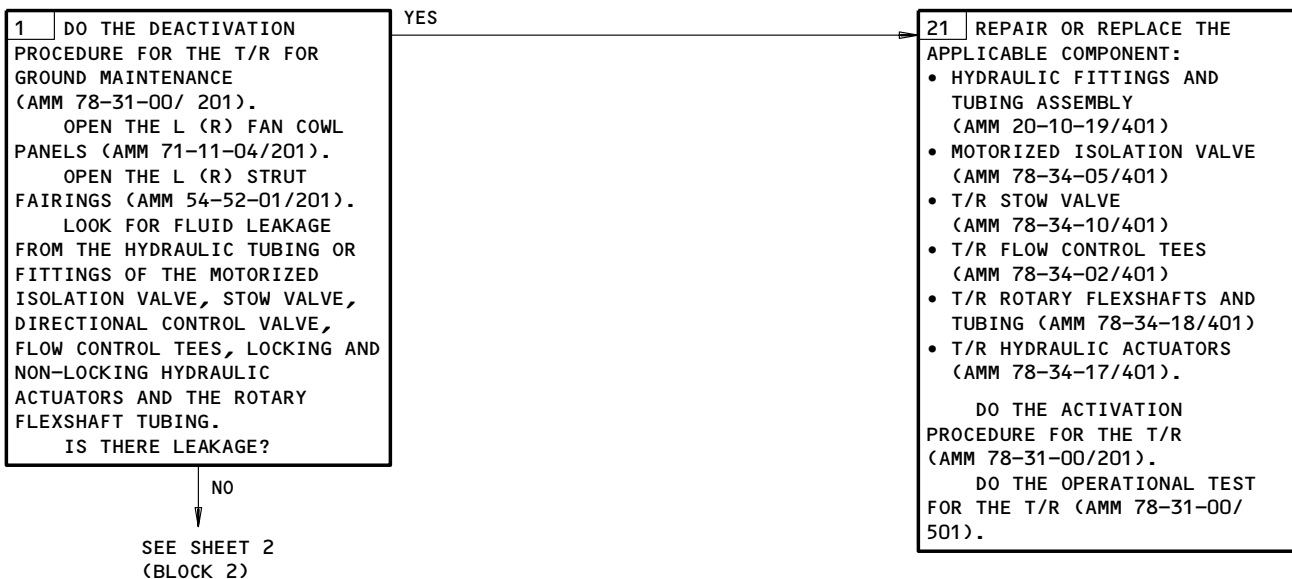
**DESCRIPTION:**

THE THRUST REVERSER HAS BEEN COMMANDED TO STOW. TIME TO STOW IS MORE THAN 3 SECONDS.

**POSSIBLE CAUSES:**

1. HYDRAULIC FLUID LEAK FROM COWL OPENING POWER UNIT (AMM 78-31-05/401), COWL OPENING FLEX HOSES (AMM 78-31-08/401), COWL OPENING ACTUATORS (AMM 78-31-06/401), HYDRAULIC FITTINGS AND TUBING (AMM 20-10-19/201), MOTORIZED ISOLATION VALVE (AMM 78-34-05/401), T/R STOW VALVE (AMM 78-34-10/401), T/R FLOW CONTROL TEES (AMM 78-34-02/401), T/R HYDRAULIC ACTUATORS (AMM 78-31-17/401)
2. T/R TRACK SLIDERS ARE BLOCKED OR DAMAGED (AMM 78-31-13/601)
3. T/R TRACK LINERS ARE BLOCKED OR DAMAGED (AMM 78-31-11/601)
4. T/R LOCKING OR NON-LOCKING HYDRAULIC ACTUATOR IS INCORRECTLY INSTALLED OR DAMAGED (AMM 78-31-17/401)
5. FLOW CONTROL TEES ARE DEFECTIVE (AMM 78-34-02/401)
6. FLEXSHAFT IS NOT INSTALLED OR DEFECTIVE (AMM 78-31-18/401)
7. T/R SLEEVE IS DAMAGED (AMM 78-31-10/401).

**FAULT ISOLATION:**



Slow to Stow Fwd Thrust Selected. No REV Amber and Green Shown.  
No REV ISLN Light/L (R) REV ISLN VAL EICAS Message Shown.  
Figure 109 (Sheet 1)

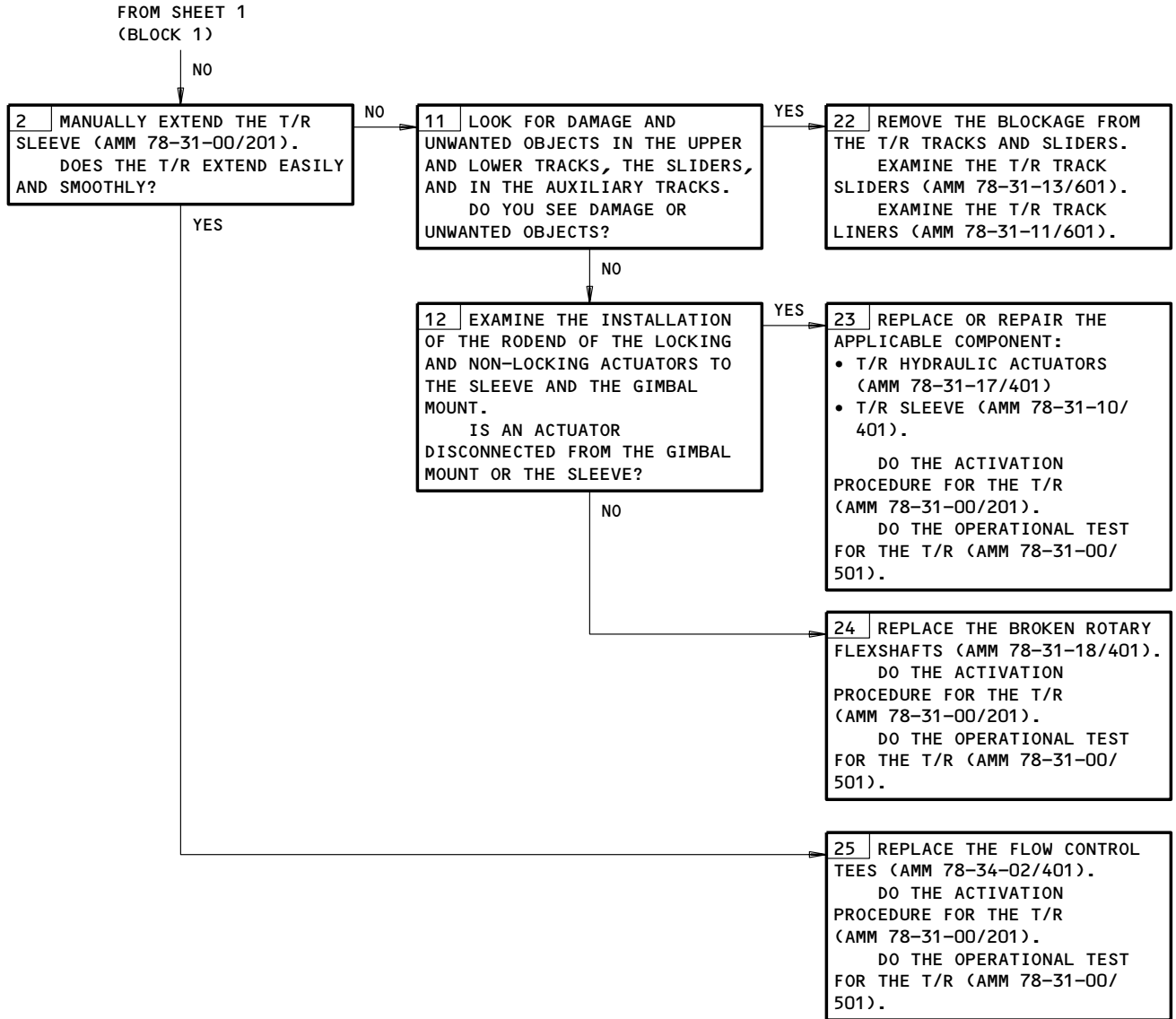
EFFECTIVITY

ALL

**78-34-00**

NO2A

Page 130  
Aug 22/00



Slow to Stow Fwd Thrust Selected. No REV Amber and Green Shown.  
No REV ISLN Light/L (R) REV ISLN VAL EICAS Message Shown.  
Figure 109 (Sheet 2)

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

**78-34-00**

NO2A

Page 131  
Aug 22/00

"REV ISLN" LGT/  
"L (R) REV ISLN  
VAL" EICAS MSG  
SHOWN AFTER  
TAKE-OFF



**PREREQUISITES**

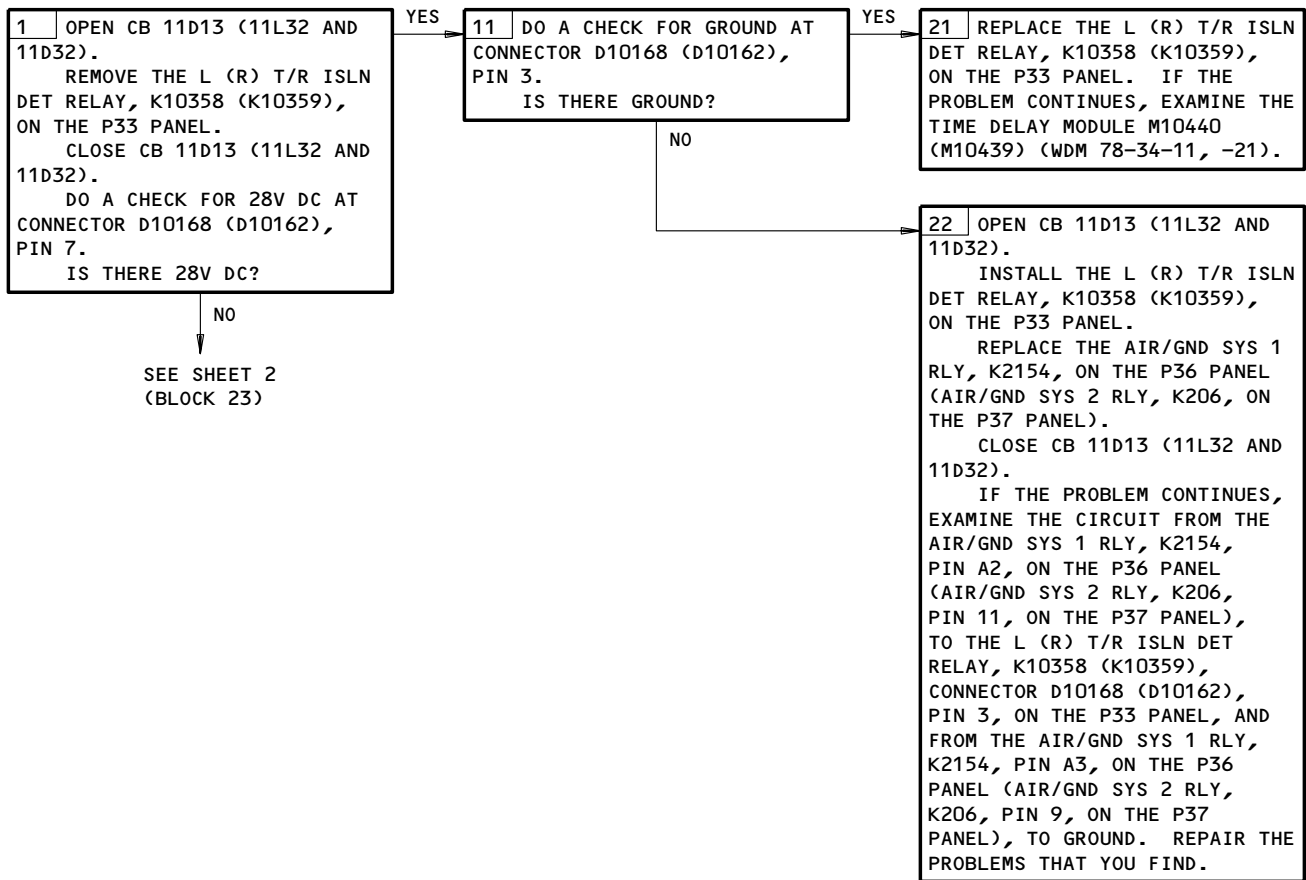
MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
(LEFT ENGINE) 11D13,11D14,11D18  
(RIGHT ENGINE) 11C21,11D32,11D33,11L32,11L33,11M30

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
AIR/GROUND SYSTEM IN FLIGHT MODE (AMM 32-09-00/201)  
DO THE DEACTIVATION PROCEDURE FOR THE T/R TRANS-  
LATING SLEEVES ONLY FOR GROUND MAINTENANCE  
(AMM 78-31-00/201)

**POSSIBLE CAUSES:**

1. T/R ISLN DET RELAY OR CIRCUIT IS DEFECTIVE
2. AIR/GND RELAY OR CIRCUIT IS DEFECTIVE (WDM 78-34-11, -21).

**FAULT ISOLATION:**



REV ISLN Lgt/L (R) REV ISLN VAL EICAS Msg Shown After Takeoff  
Figure 110 (Sheet 1)

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

78-34-00

C10209

FROM SHEET 1  
(BLOCK 1)

NO

23 EXAMINE THE CIRCUIT FROM THE L (R) T/R ISLN DET RELAY, K10358 (K10359), CONNECTOR D10168 (D10162), PIN 7, THROUGH TB458, PIN Z8 (TB460, PIN Z7), ON THE P33 PANEL, THROUGH TB98, PIN YA28 (TB102, PIN 20), ON THE P61 PANEL, TO CB 11D13 (11L32 AND 11D32).  
REPAIR THE PROBLEMS THAT YOU FIND.

REV ISLN Lgt/L (R) REV ISLN VAL EICAS Msg Shown After Takeoff  
Figure 110 (Sheet 2)

EFFECTIVITY

ALL

78-34-00

N02A

Page 133  
Aug 22/00

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
(LEFT ENGINE) 11D13, 11D14, 11D18  
(RIGHT ENGINE) 11C21, 11D32, 11D33, 11L32,  
11L33, 11M30

MAKE SURE THE AIRPLANE IS IN THIS CONFIGURATION:  
ELECTRICAL POWER IS ON (AMM 24-22-00/201)  
HYDRAULIC POWER IS ON (AMM 29-11-00/201)  
EICAS ON (AMM 31-41-00/201)

REV ISLN LT/EICAS  
MESSAGE SHOWN  
THRUST REVERSER  
OPERATION NORMAL

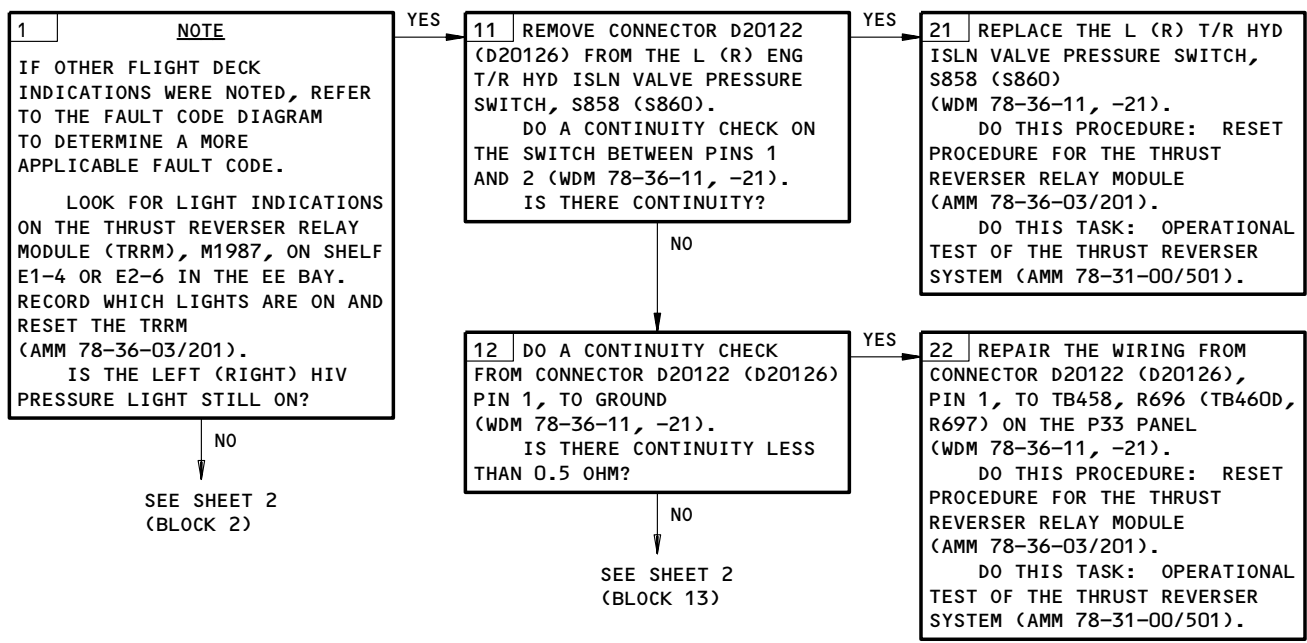
**WARNING:** MAKE SURE THE AREA AROUND THE THRUST REVERSER IS CLEAR OF PERSONS AND EQUIPMENT. IF THE AREA IS NOT CLEAR, INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR WHEN YOU EXTEND THE THRUST REVERSER.



**POSSIBLE CAUSES:**

1. T/R HYD ISLN VALVE PRESSURE SWITCH OR CIRCUIT IS BAD (WDM 78-36-11, -21)
2. T/R RELAY MODULE OR CIRCUIT IS BAD (WDM 78-36-11, -21)
3. T/R HYDRAULIC PRESSURE SWITCH OR CIRCUIT IS BAD (WDM 78-36-11, -21)
4. T/R STOW RELAY OR CIRCUIT IS BAD (WDM 78-36-11, -21).

**FAULT ISOLATION:**



Rev Isln Lt/EICAS Message Shown Thrust Reverser Operation Normal  
Figure 111 (Sheet 1)

EFFECTIVITY

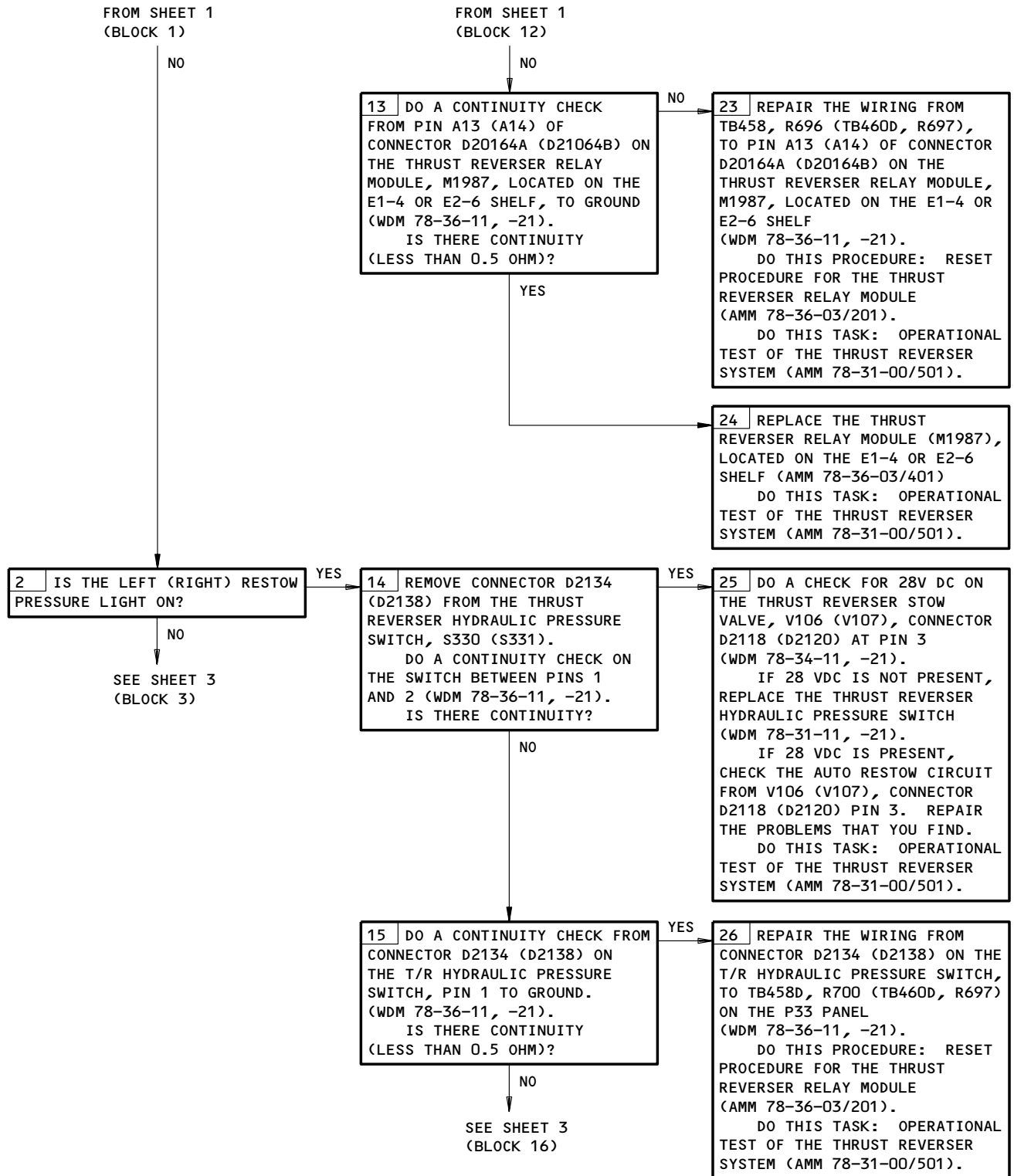
ALL

**78-34-00**

NO2A

Page 134  
Aug 22/00

C10214



Rev Isln Lt/EICAS Message Shown Thrust Reverser Operation Normal  
Figure 111 (Sheet 2)

EFFECTIVITY

ALL

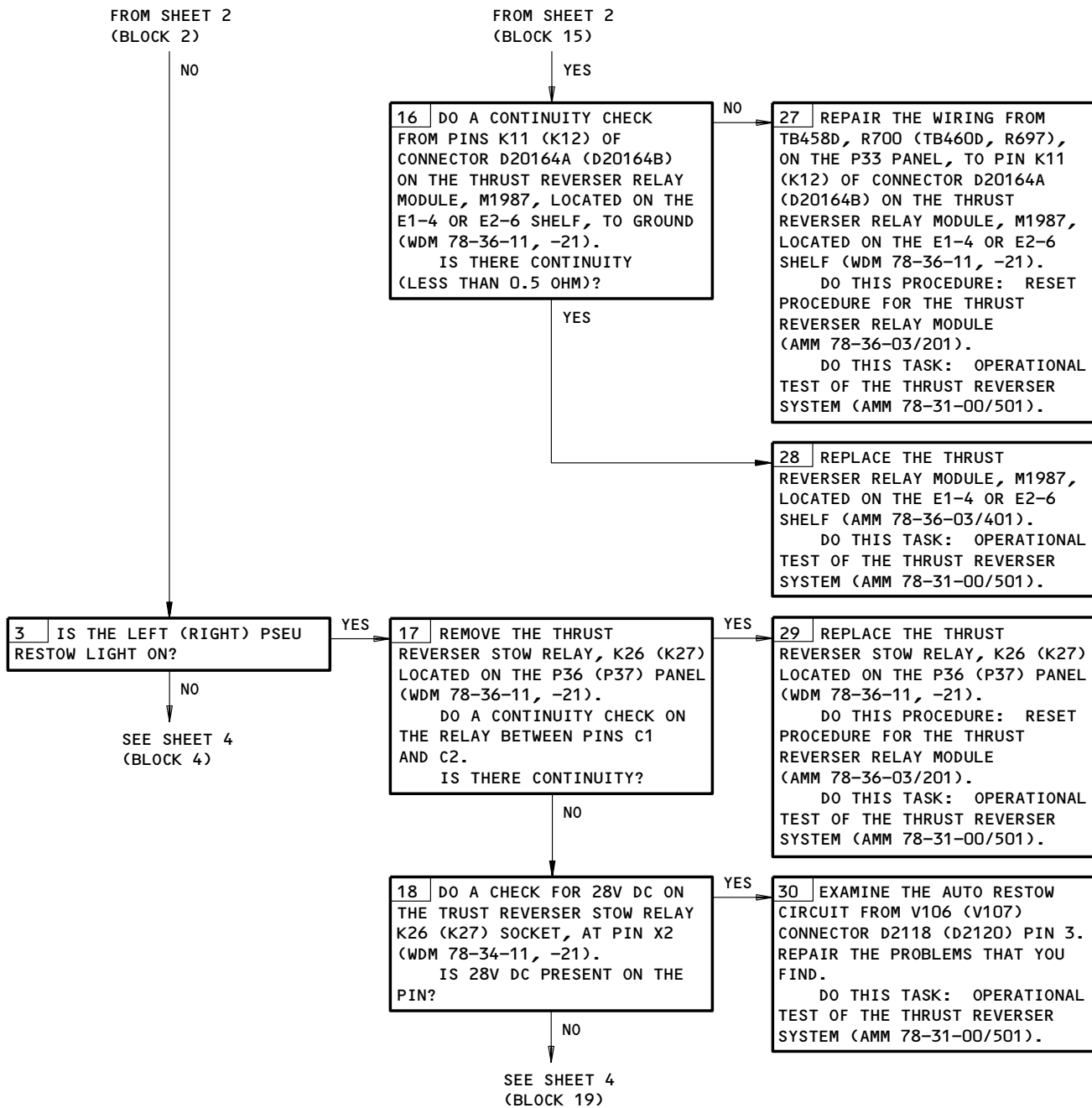
**78-34-00**

NO2A

Page 135  
Aug 22/00

C10216





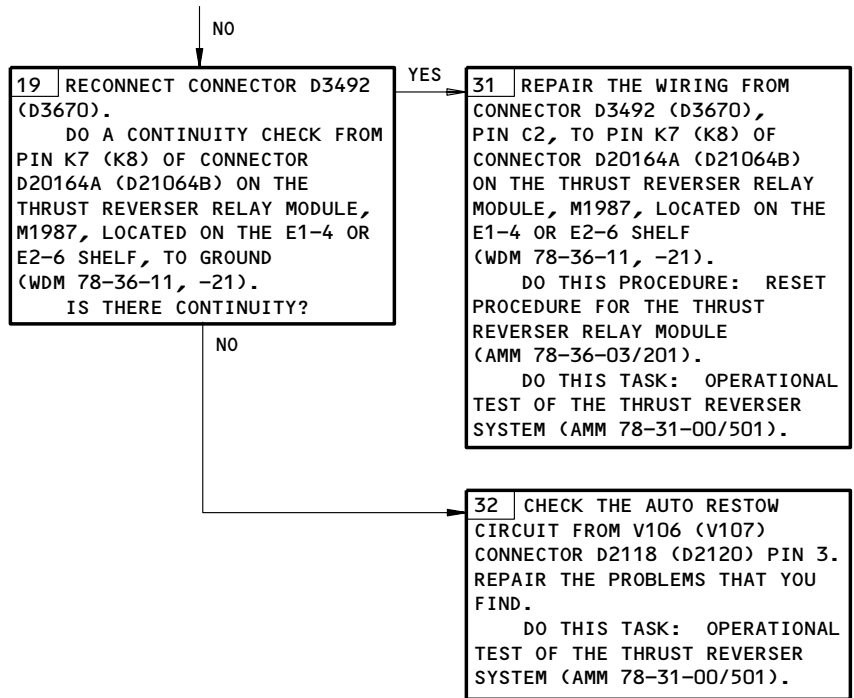
Rev Isln Lt/EICAS Message Shown Thrust Reverser Operation Normal  
Figure 111 (Sheet 3)

EFFECTIVITY

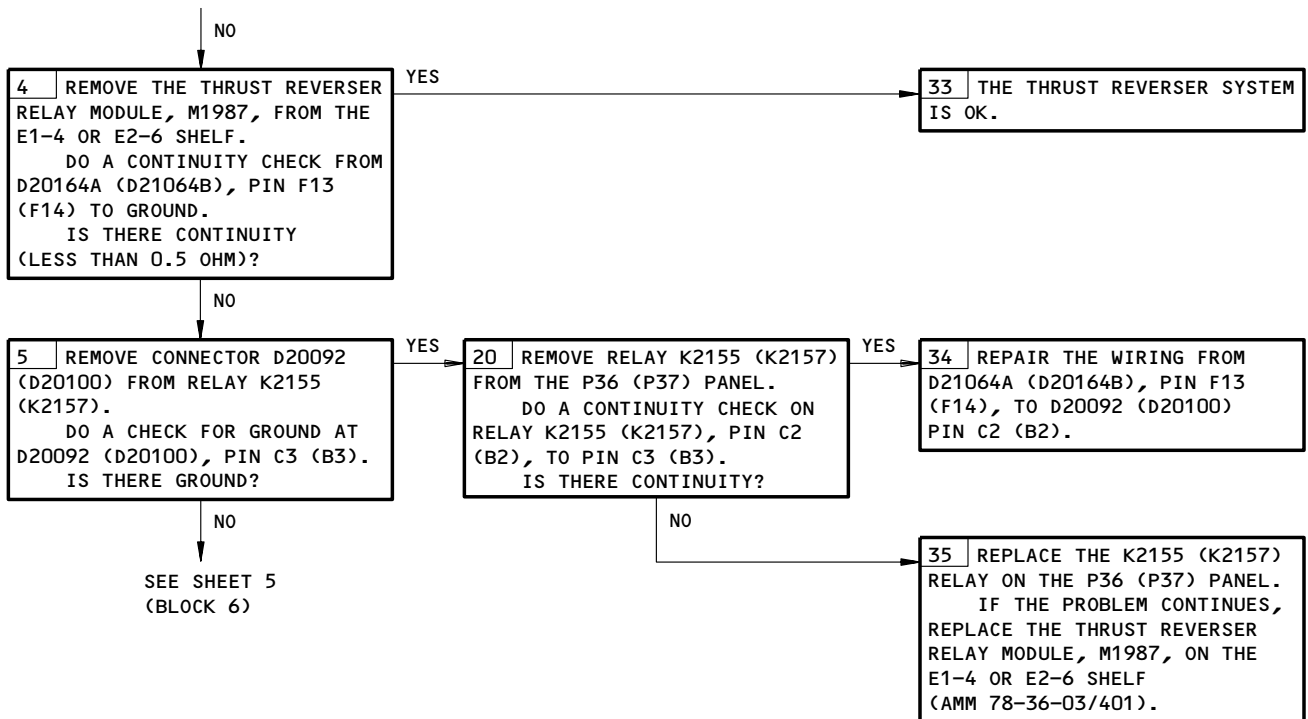
ALL
-----

**78-34-00**

FROM SHEET 3  
(BLOCK 18)



FROM SHEET 3  
(BLOCK 3)



Rev Isln Lt/EICAS Message Shown Thrust Reverser Operation Normal  
Figure 111 (Sheet 4)

EFFECTIVITY

ALL

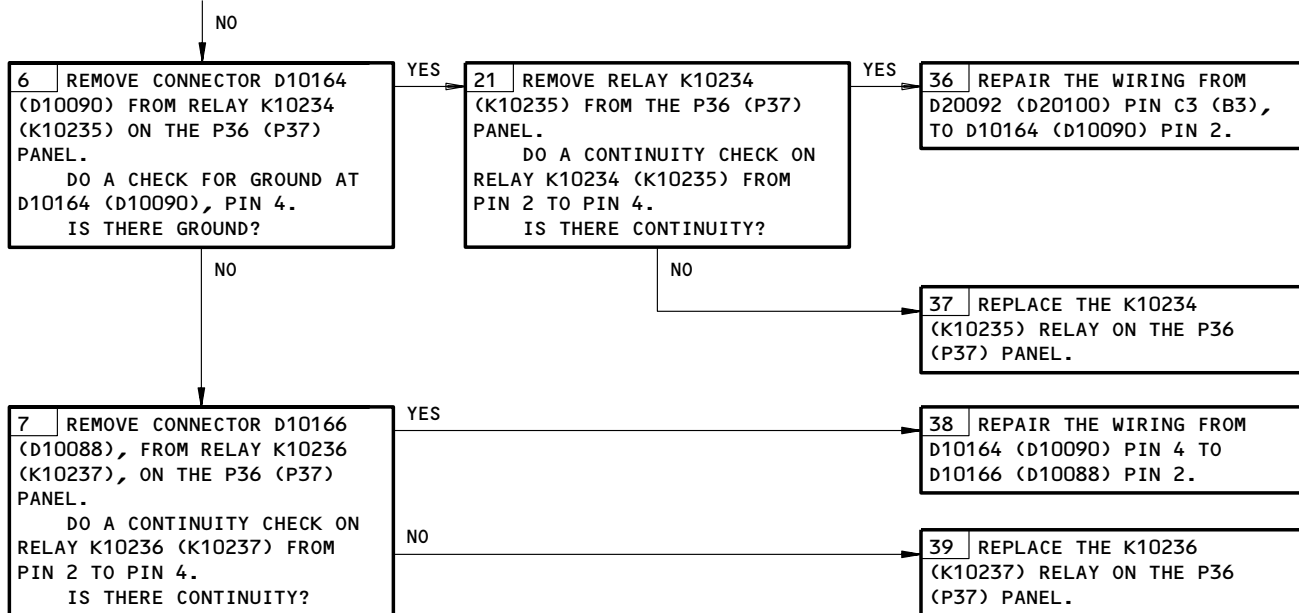
**78-34-00**

NO2A

Page 137  
Aug 22/00

E77386

FROM SHEET 4  
(BLOCK 5)



Rev Isln Lt/EICAS Message Shown Thrust Reverser Operation Normal  
Figure 111 (Sheet 5)

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

**78-34-00**

THRUST REVERSER INDICATION SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
ACTUATOR - L T/R LVR INTERLOCK, M1441	4	1	113AL, FWD EQUIP COMPT	78-34-02
ACTUATOR - R T/R LVR INTERLOCK, M1440	4	1	113AL, FWD EQUIP COMPT	78-34-02
CIRCUIT BREAKER -	1		FLT COMPT, P11	
R ENG T/L INTLK, C1495		1	11L29	*
R ENG T/L INTLK ALTN, C1494		1	11C36	*
L ENG T/R IND, C1480		1	11D13	*
R ENG T/R IND, C1481		1	11L32	*
R ENG T/R IND ALTN, C1478		1	11D32	*
L ENG T/R INTLK, C1493		1	11C35	*
COMPUTER - (FIM 31-41-00/101)				
L EICAS, M10181				
R EICAS, M10182				
CONTROL - (FIM 73-21-00/101)				
ELECTRONIC ENGINE, M7198				
DIODE - (FIM 31-01-33/101)				
L ENG HIV PRESS, R696				
R ENG HIV PRESS, R697				
L ENG RESTOW PRESS, R700				
R ENG RESTOW PRESS, R701				
DIODE - (FIM 31-01-37/101)				
L T/R INDICATION, R10117				
R T/R INDICATION, R10118				
LIGHT - THRUST REVERSER ISOLATION, L5	1	1	FLT COMPT, P10 FUEL CONT PNL M73	*
PANEL - (FIM 76-11-00/101)				
FUEL CONTROL, M73				
RELAY - (FIM 31-01-33/101)				
L ENG AUTO - RESTOW PRESS, K2160				
R ENG AUTO - RESTOW PRESS, K2161				
L T/R ISLN DET, K10358				
R T/R ISLN DET, K10359				
RELAY - (FIM 31-01-36/101)				
L T/R DISAGREE, K10234				
L T/R HYD ISLN VLV RELAY, K10236				
L T/R STOW, K26				
L T/R UNLOCK, K165				
SYS NO. 1 AIR/GND, K2154				
SYS NO. 1 AIR/GND, K2155				
RELAY - (FIM 31-01-37/101)				
R T/R DISAGREE, K10235				
R T/R HYD ISLN VLV RELAY, K10237				
R T/R STOW, K27				
R T/R UNLOCK, K166				
SYS NO. 2 AIR/GND, K206				
SYS NO. 2 AIR/GND, K721				
SYS NO. 2 AIR/GND, K2157				
RELAY MODULE - THRUST REVERSER, M1987	4	1	MAIN EQUIPMENT CENTER, E2-6 OR E1-4	78-36-03

\* SEE THE WDM EQUIPMENT LIST

Thrust Reverser Indication System - Component Index  
Figure 101 (Sheet 1)

EFFECTIVITY

ALL

**78-36-00**

N01A

Page 101  
Dec 22/99

C12470

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	AMM REFERENCE
SENSOR - L ENGINE, L T/R ACTUATOR DEPLOY, S1609	2	1	413AL, LH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - R ENGINE, L T/R ACTUATOR DEPLOY, S1609	2	1	423AL, LH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - L ENGINE, L T/R ACTUATOR LOCK PROXIMITY, S1604	2	1	413AL, LH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - R ENGINE, L T/R ACTUATOR LOCK PROXIMITY, S1604	2	1	423AL, LH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - L ENGINE, R T/R ACTUATOR DEPLOY, S1610	2	1	414AR, RH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - R ENGINE, R T/R ACTUATOR DEPLOY, S1610	2	1	424AR, RH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - L ENGINE, R T/R ACTUATOR LOCK PROXIMITY, S1605	2	1	414AR, RH THRUST REVERSER LOCKING ACTUATOR	78-36-01
SENSOR - R ENGINE, R T/R ACTUATOR LOCK PROXIMITY, S1605	2	1	424AR, RH THRUST REVERSER LOCKING ACTUATOR	*
SWITCH - (FIM 78-34-00/101) L T/R CONT, YBNS5 R T/R CONT, YBNS6				
SWITCH - L T/R HYD PRESS, S330	3	1	437BL, ISOLATION VALVE, V106	78-34-07
SWITCH - R T/R HYD PRESS, S331	3	1	447BL, ISOLATION VALVE, V107	78-34-07
SWITCH - L ENG T/R MOTORIZED PRESS, S858	3	1	437BR, ISOLATION VALVE, V167	78-34-11
SWITCH - R ENG T/R MOTORIZED PRESS, S860	3	1	447BR, ISOLATION VALVE, V168	78-34-11
TIME DELAY - L T/R ISLN VLV, M10440	3	1	119AL, MAIN EQUIP CTR, P36	*
TIME DELAY - R T/R ISLN VLV, M10439	3	1	119AL, MAIN EQUIP CTR, P33	*
TRANSDUCER - L ENGINE, L T/R SLEEVE LINEAR VARIABLE DIFFERENTIAL, T10033	2	1	413AL, LH T/R LOCKING ACTUATOR	*
TRANSDUCER - R ENGINE, L T/R SLEEVE LINEAR VARIABLE DIFFERENTIAL, T10033	2	1	423AL, LH T/R LOCKING ACTUATOR	*
TRANSDUCER - L ENGINE, R T/R SLEEVE LINEAR VARIABLE DIFFERENTIAL, T10035	2	1	414AR, RH T/R LOCKING ACTUATOR	*
TRANSDUCER - R ENGINE, R T/R SLEEVE LINEAR VARIABLE DIFFERENTIAL, T10035	2	1	424AR, RH T/R LOCKING ACTUATOR	*
UNIT - (FIM 32-09-00/101) PROX SW ELEX, M162				

\* SEE THE WDM EQUIPMENT LIST

Thrust Reverser Indication System - Component Index  
Figure 101 (Sheet 2)

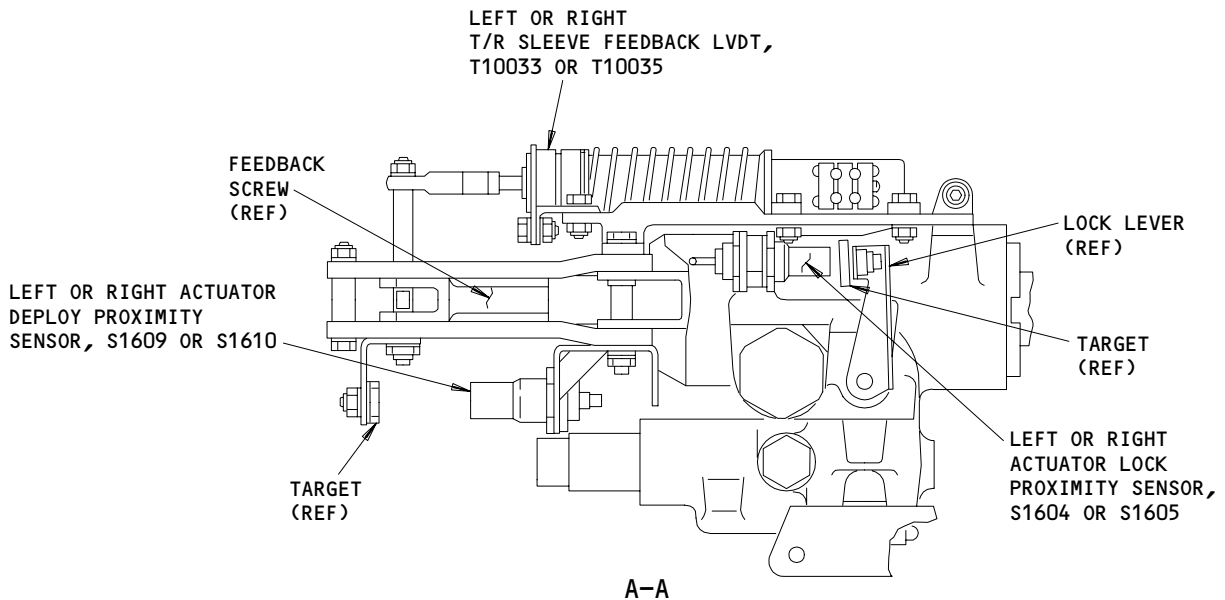
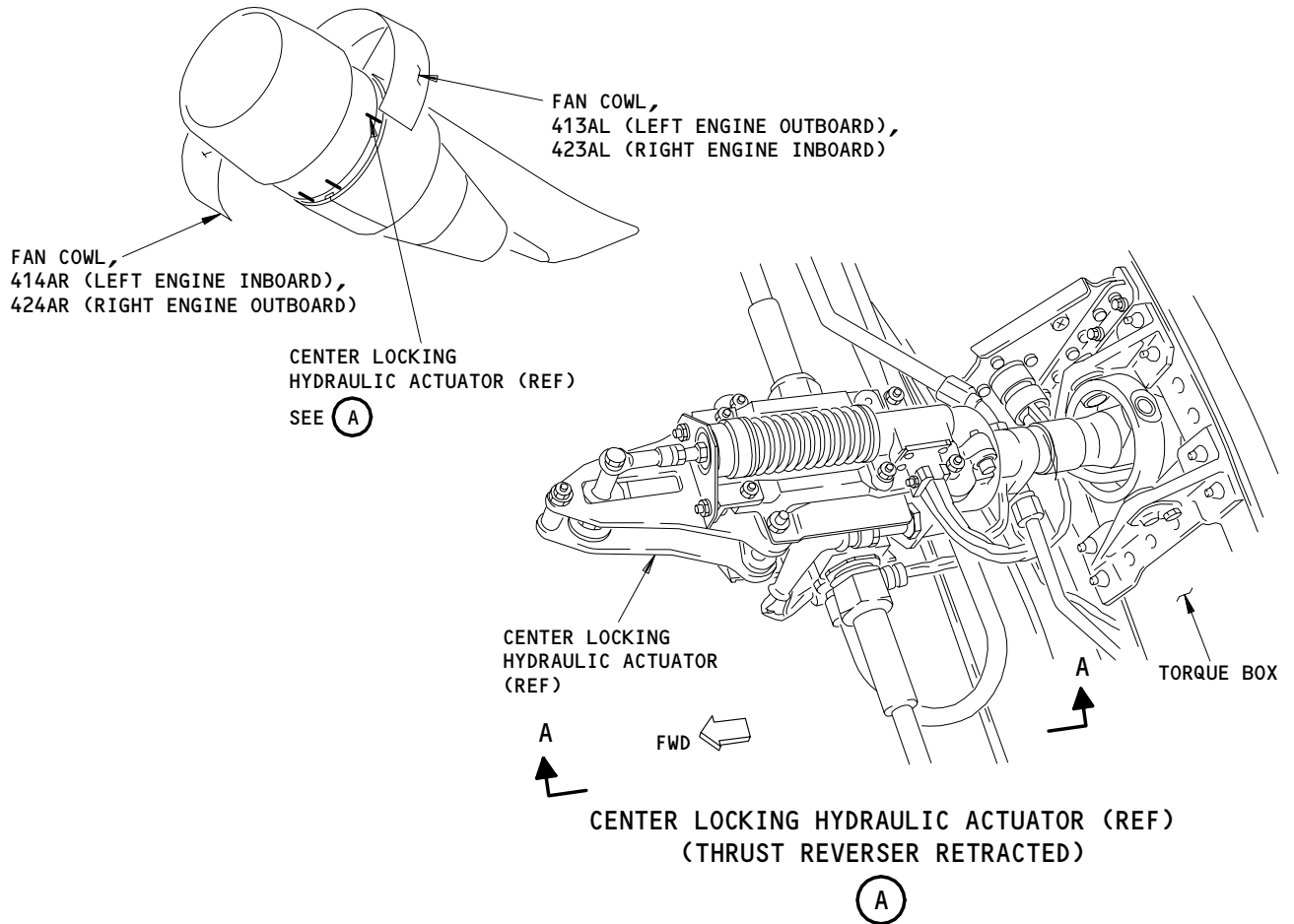
EFFECTIVITY

ALL

**78-36-00**

N01A

Page 102  
May 10/97



Thrust Reverser Indication System - Component Location  
Figure 102 (Sheet 1)

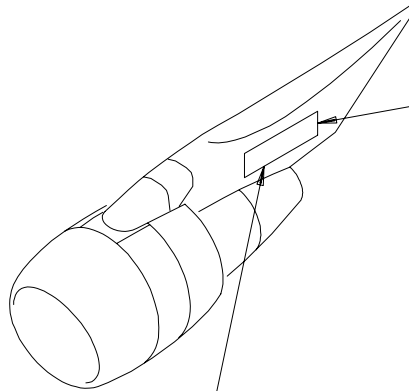
EFFECTIVITY

ALL

78-36-00

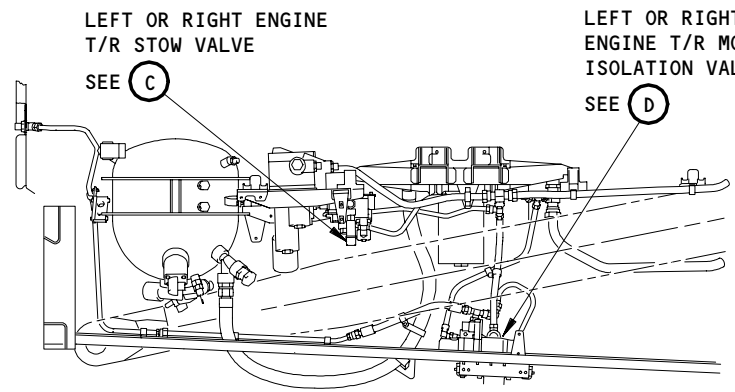
N01A

Page 103  
May 10/93



ENGINE STRUT HYDRAULIC BAY ACCESS DOOR,  
437BL (LEFT ENGINE OUTBOARD),  
437BR (LEFT ENGINE INBOARD),  
447BR (RIGHT ENGINE OUTBOARD),  
447BL (RIGHT ENGINE INBOARD)

ENGINE STRUT HYDRAULIC BAY  
SEE (B)



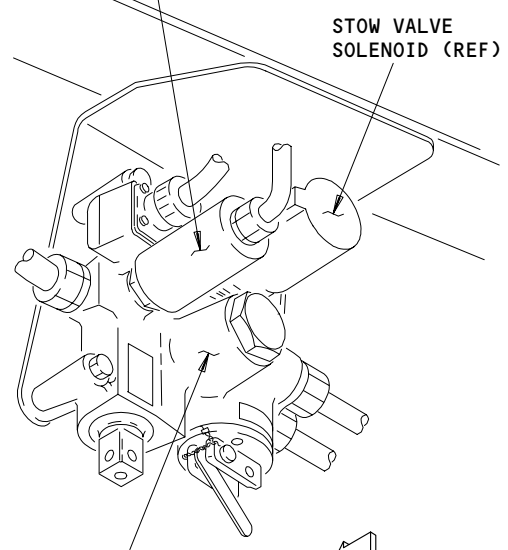
LEFT OR RIGHT ENGINE T/R STOW VALVE  
SEE (C)

LEFT OR RIGHT ENGINE T/R MOTORIZED ISOLATION VALVE  
SEE (D)

ENGINE STRUT HYDRAULIC BAY

(B)

LEFT OR RIGHT T/R HYDRAULIC (STOW VALVE) PRESSURE SWITCH, S330 OR S331 (REF)



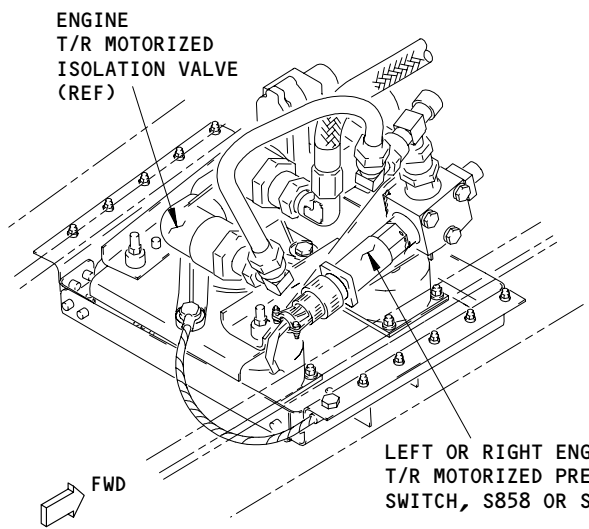
STOW VALVE SOLENOID (REF)

THRUST REVERSER STOW VALVE

FWD

LEFT OR RIGHT ENGINE T/R STOW VALVE

(C)



ENGINE T/R MOTORIZED ISOLATION VALVE (REF)

LEFT OR RIGHT ENGINE T/R MOTORIZED PRESSURE SWITCH, S858 OR S860

FWD

LEFT OR RIGHT ENGINE T/R MOTORIZED ISOLATION VALVE

(D)

Thrust Reverser Indication System - Component Location  
Figure 102 (Sheet 2)

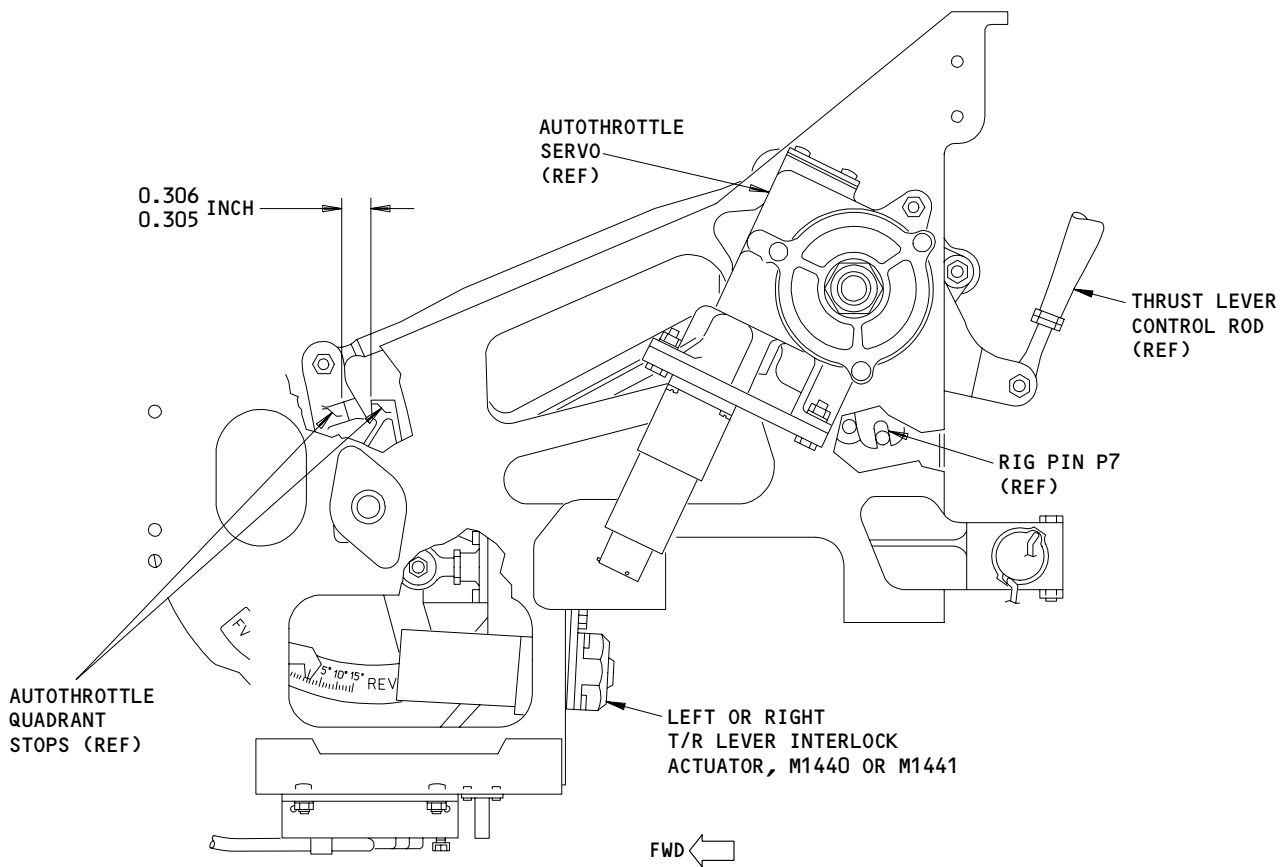
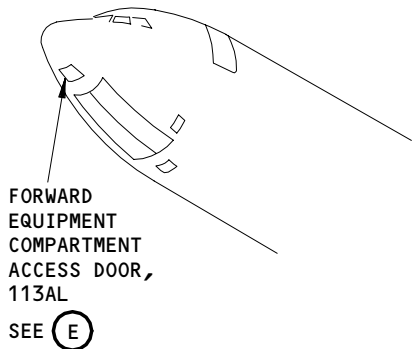
EFFECTIVITY	
	ALL

78-36-00

N02A

Page 104  
Nov 10/93

C05652



LEFT OR RIGHT T/R LEVER INTERLOCK ACTUATOR

(E)

Thrust Reverser Indication System - Component Location  
Figure 102 (Sheet 3)

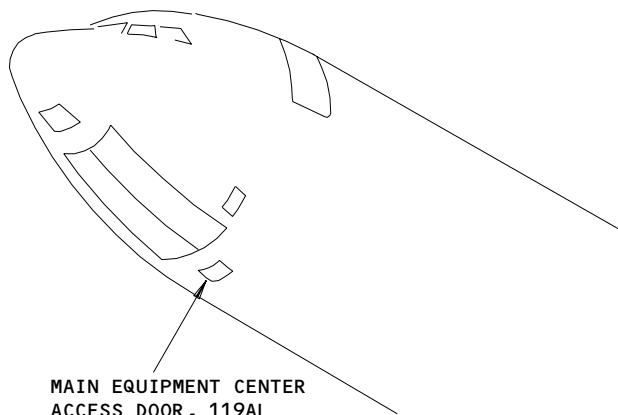
EFFECTIVITY	
	ALL

78-36-00

N01A

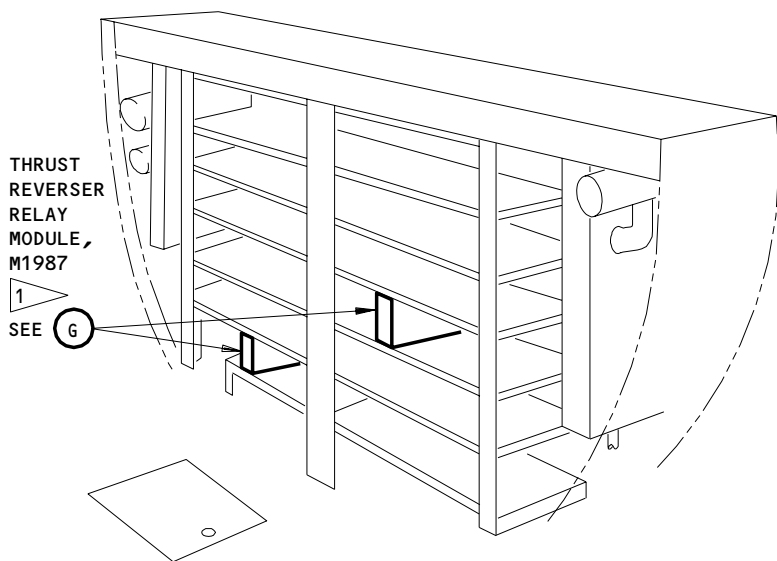
Page 105  
May 10/93





MAIN EQUIPMENT CENTER  
ACCESS DOOR, 119AL

SEE (F)



THRUST  
REVERSER  
RELAY  
MODULE,  
M1987

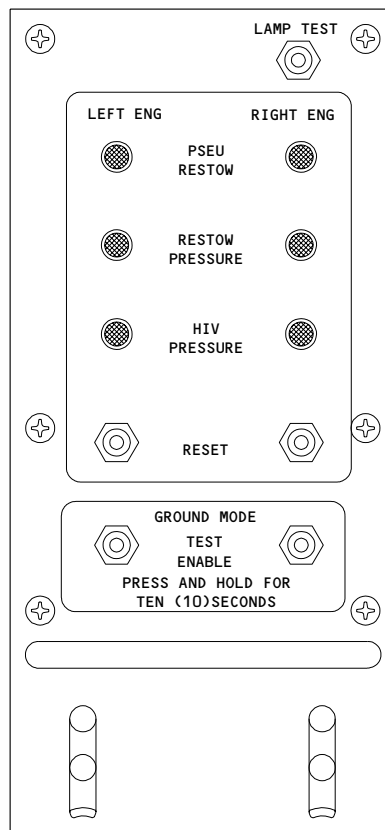
1  
SEE (G)

MAIN EQUIPMENT CENTER

(F)



FWD



THRUST REVERSER RELAY MODULE

(G)

1 THE THRUST REVERSER RELAY MODULE IS INSTALLED  
ON THE E1-4 OR THE E2-6 SHELF.

Thrust Reverser Indication System - Component Location  
Figure 102 (Sheet 4)

EFFECTIVITY

ALL

78-36-00

N01A

Page 106  
Feb 10/94

005665

**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
11D13, 11D14, 11D32, 11D33, 11L32, 11L33

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

EQUIPMENT: A32102-1 PROXIMITY SENSOR ACTUATOR TEST SET

**THRUST REVERSER  
PROXIMITY SENSOR  
PROBLEM INDICATED BY  
AMBER OR GREEN L(R)  
REV EICAS MESSAGE**

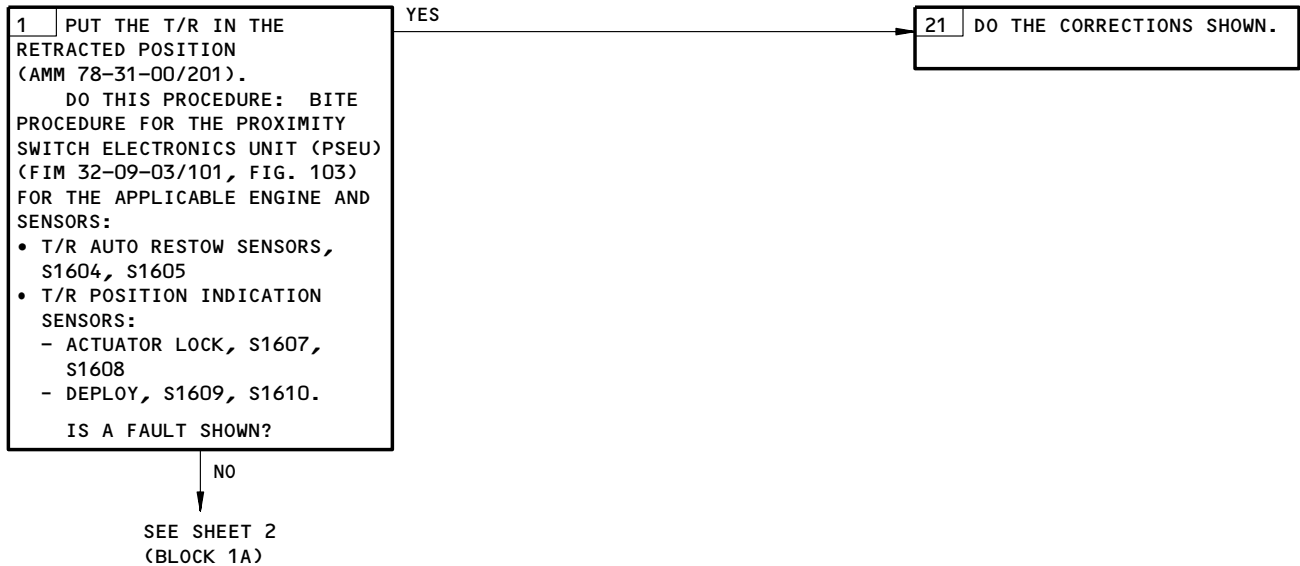


**WARNING:** DO THE THRUST REVERSER DEACTIVATION PROCEDURE TO PREVENT THE OPERATION OF THE THRUST REVERSER. THE ACCIDENTAL OPERATION OF THE THRUST REVERSER CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

**POSSIBLE CAUSES:**

1. T/R AUTO RESTOW SENSOR IS DEFECTIVE
2. T/R POSITION INDICATION SENSOR IS DEFECTIVE (AMM 78-36-00/501)
3. T/R POSITION INDICATION PROXIMITY SENSOR OR TARGET NEEDS ADJUSTMENT (AMM 78-36-00/501)
4. T/R AUTO-RESTOW PROXIMITY SENSOR OR TARGET NEEDS ADJUSTMENT (AMM 78-36-00/501)
5. T/R POSITION INDICATION PROXIMITY SENSOR IS DEFECTIVE (AMM 78-36-01/401)
6. T/R AUTO-RESTOW PROXIMITY SENSOR IS DEFECTIVE (AMM 78-36-01/401)
7. SHORT CIRCUIT IN THE SEAT ELECTRONICS BOX CABLE.

**FAULT ISOLATION:**



Thrust Reverser Proximity Sensor Problem Indicated by Amber or Green L(R) Rev EICAS Message  
Figure 103 (Sheet 1)

EFFECTIVITY

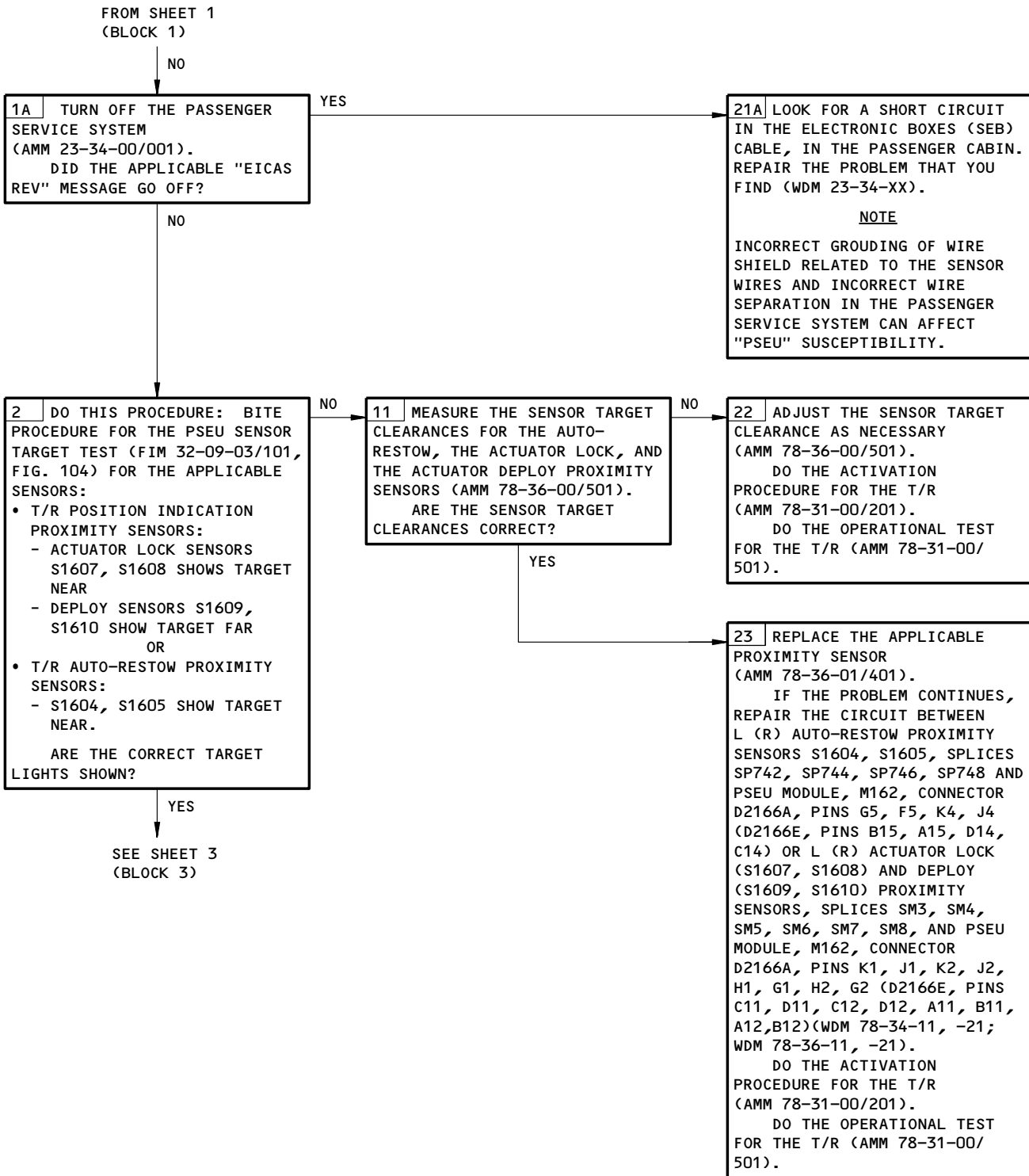
ALL

**78-36-00**

N01A

Page 107  
Aug 22/00

C12484

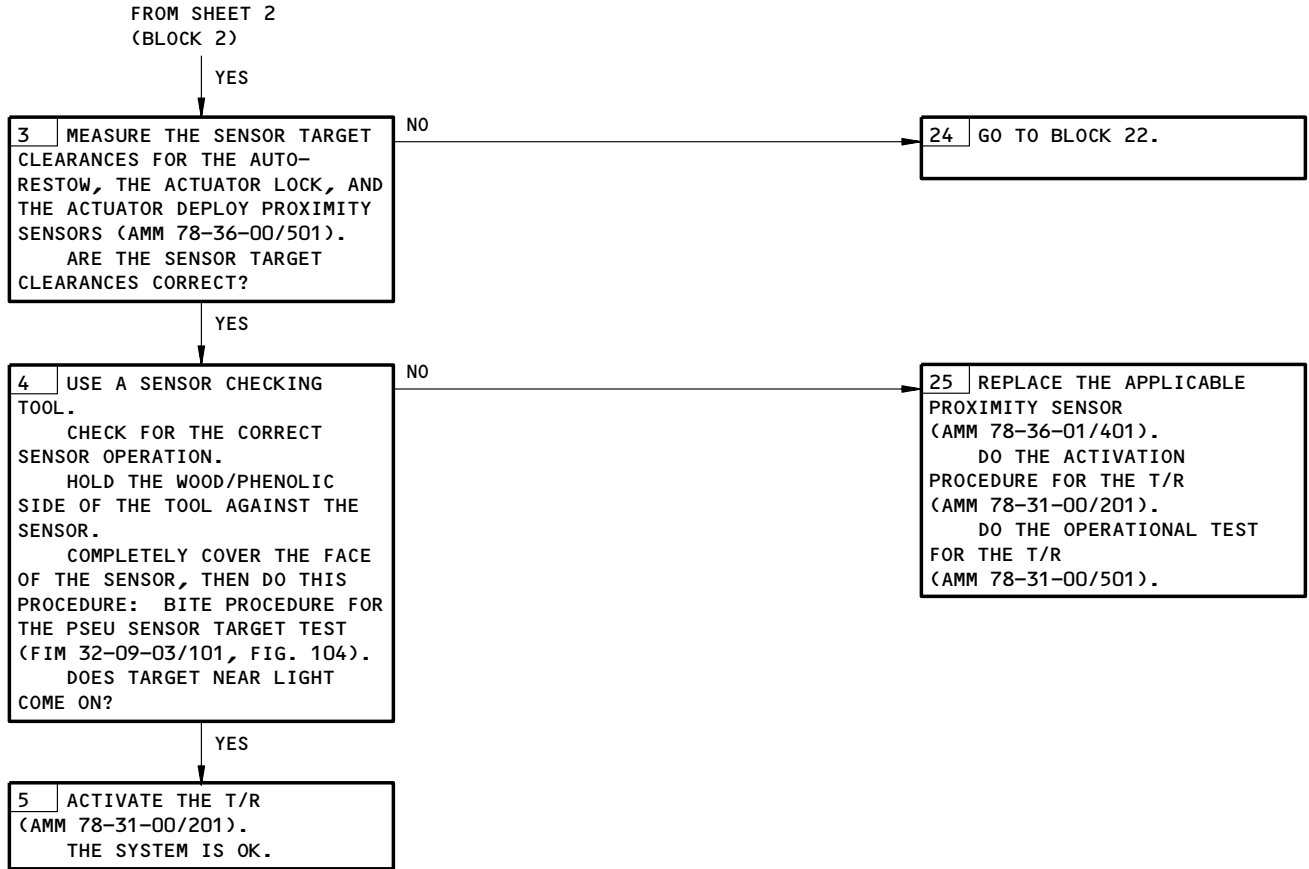


Thrust Reverser Proximity Sensor Problem Indicated by Amber or Green L(R) Rev  
EICAS Message  
Figure 103 (Sheet 2)

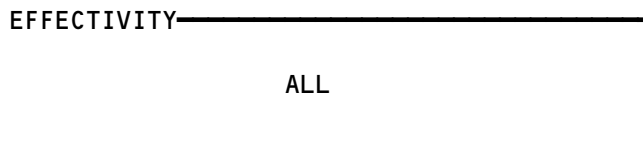
EFFECTIVITY	ALL
-------------	-----

78-36-00

C12490



Thrust Reverser Proximity Sensor Problem Indicated by Amber or Green L(R) Rev  
EICAS Message  
Figure 103 (Sheet 3)



**78-36-00**

N01A

Page 109  
Aug 22/05

**EICAS L (R) INTERLOCK  
DISPLAYED**



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 11C35, 11C36, 11D13, 11D14, 11D32, 11D33, 11L29,  
 11L32, 11L33

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

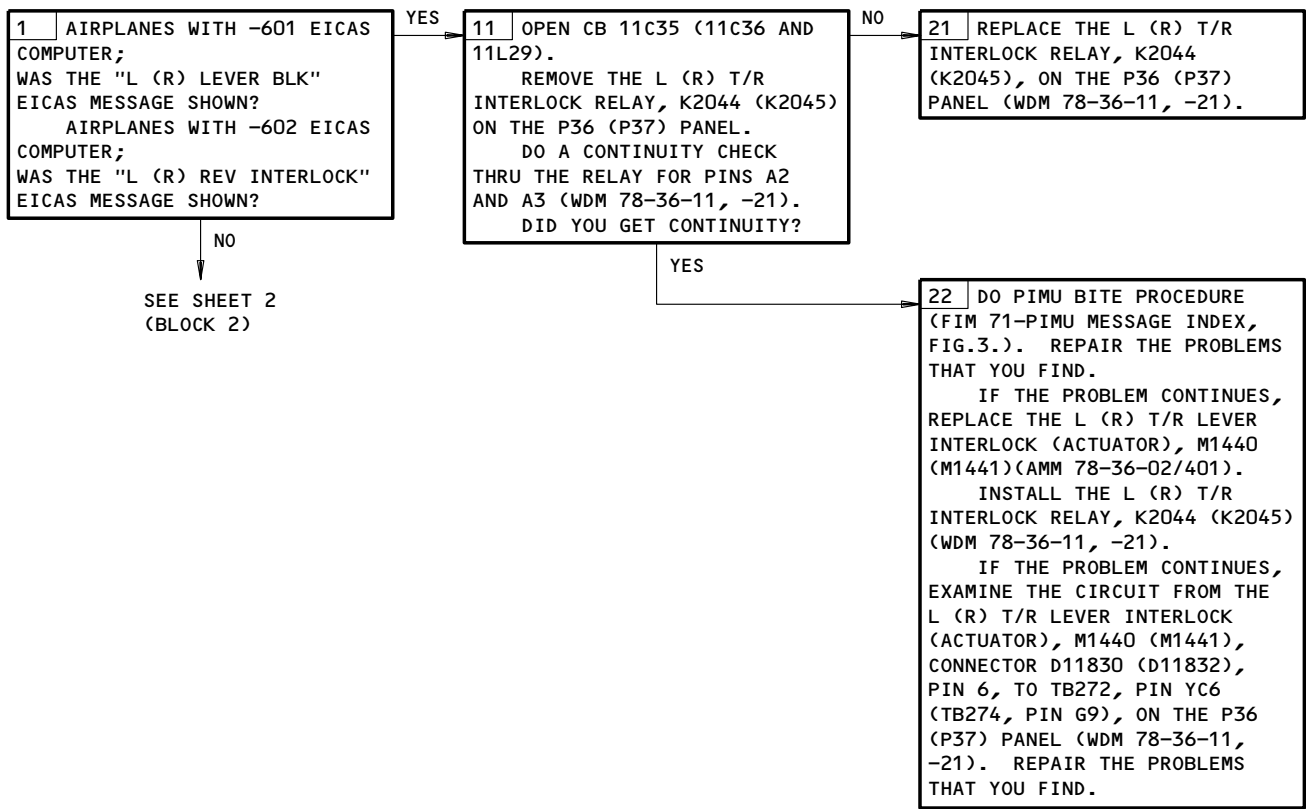
**DESCRIPTION:**

REVERSE THRUST LEVER INTERLOCK PROBLEM,  
 THRUST REVERSER OPERATION NORMAL

**POSSIBLE CAUSES:**

1. T/R INTERLOCK RELAY IS DEFECTIVE (WDM 78-36-11, -21)
2. T/R INTERLOCK (ACTUATOR) IS DEFECTIVE (AMM 78-36-02/401)
3. T/R INTERLOCK CIRCUIT IS DEFECTIVE (WDM 78-36-11, -21)
4. L (R) ENGINE EEC, M7198, IS DEFECTIVE (AMM 73-21-04/401)

**FAULT ISOLATION:**

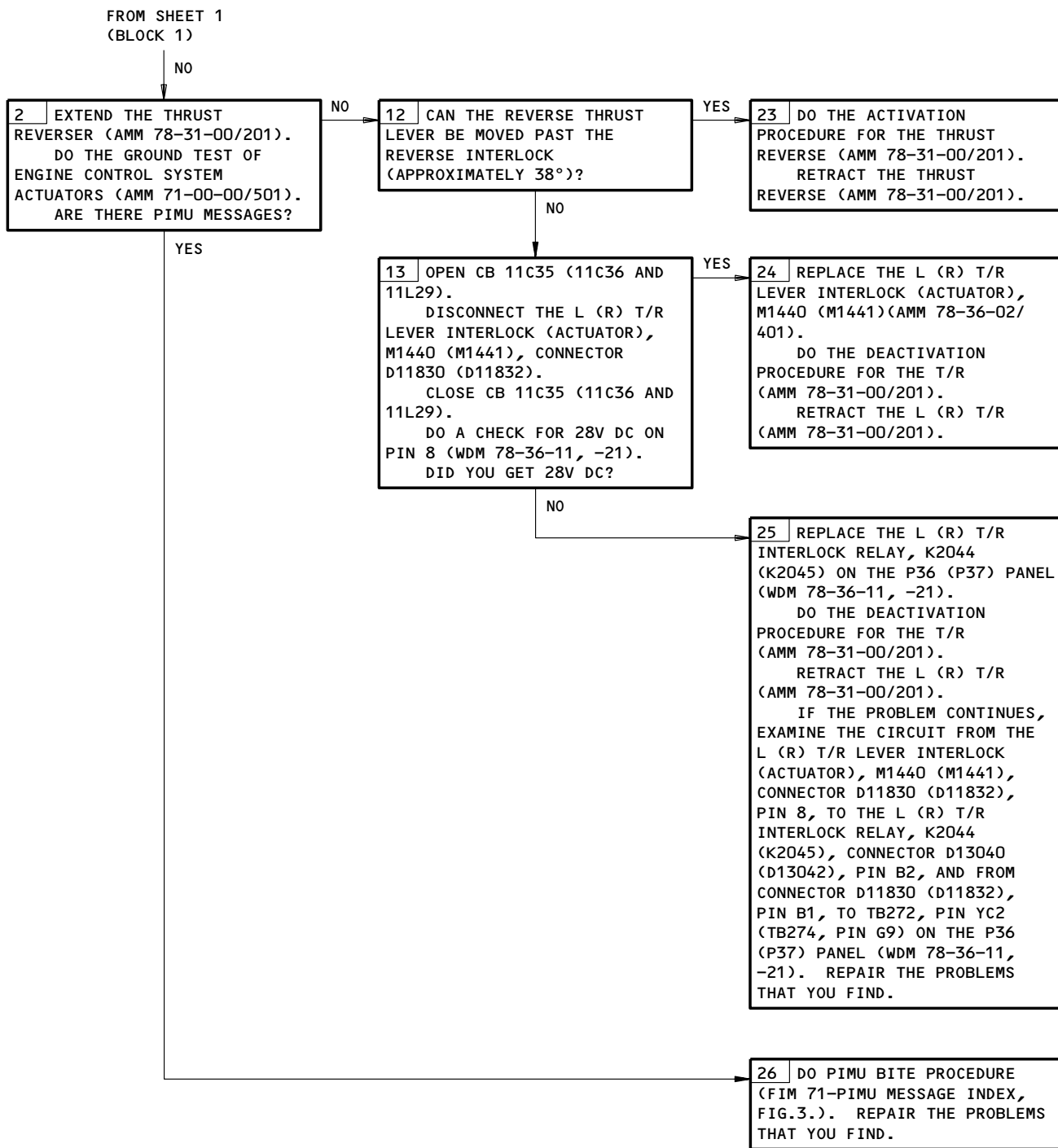


EICAS L (R) Interlock Displayed  
Figure 104 (Sheet 1)

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

**78-36-00**

D19548



EICAS L (R) Interlock Displayed  
Figure 104 (Sheet 2)

EFFECTIVITY

ALL

**78-36-00**

N01A

Page 111  
Aug 22/00

C12505

**THE L (R) ENGINE  
PSEU RESTOW LED  
LIGHT ON THE T/R  
RELAY MODULE IS ON**



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
(LEFT ENGINE) 11D13,11D14,11D18  
(RIGHT ENGINE) 11C21,11D32,11D33,11L32,11L33,11M30

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

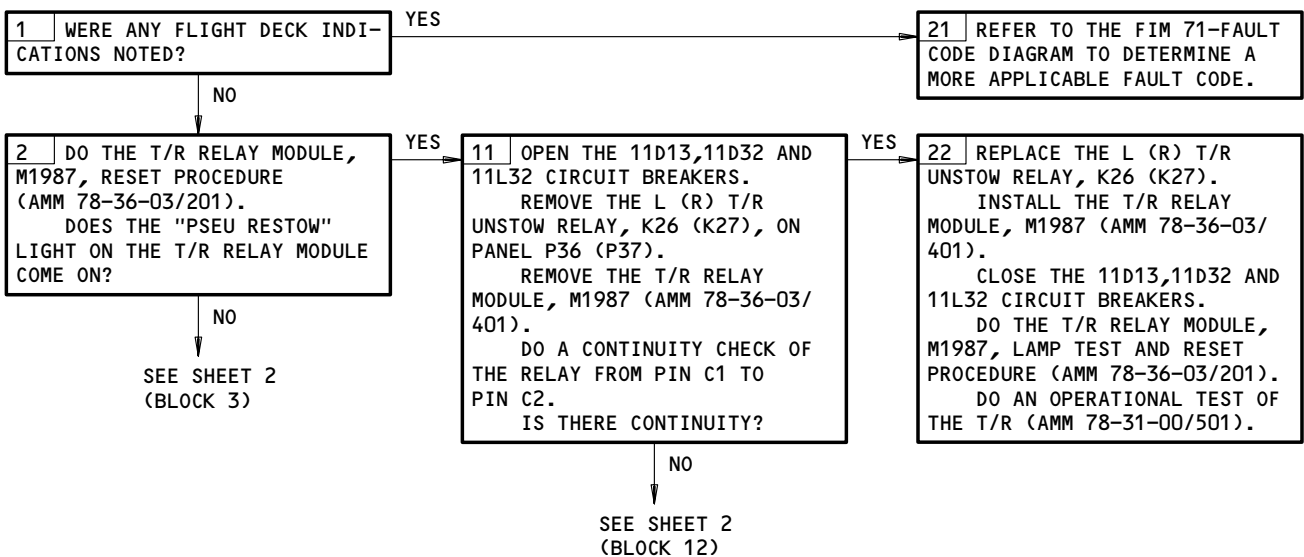
**DESCRIPTION:**

PSEU RESTOW LED LIGHT ON THE T/R RELAY MODULE IS ON (NO EICAS MESSAGE).

**POSSIBLE CAUSES:**

1. T/R UNSTOW RELAY IS DEFECTIVE
2. WIRING FROM THE T/R UNSTOW RELAY (P36 PANEL) TO THE T/R RELAY MODULE IS DEFECTIVE (WDM 78-36-11,-12)
3. T/R RELAY MODULE IS DEFECTIVE (AMM 78-36-03/401).

**FAULT ISOLATION:**

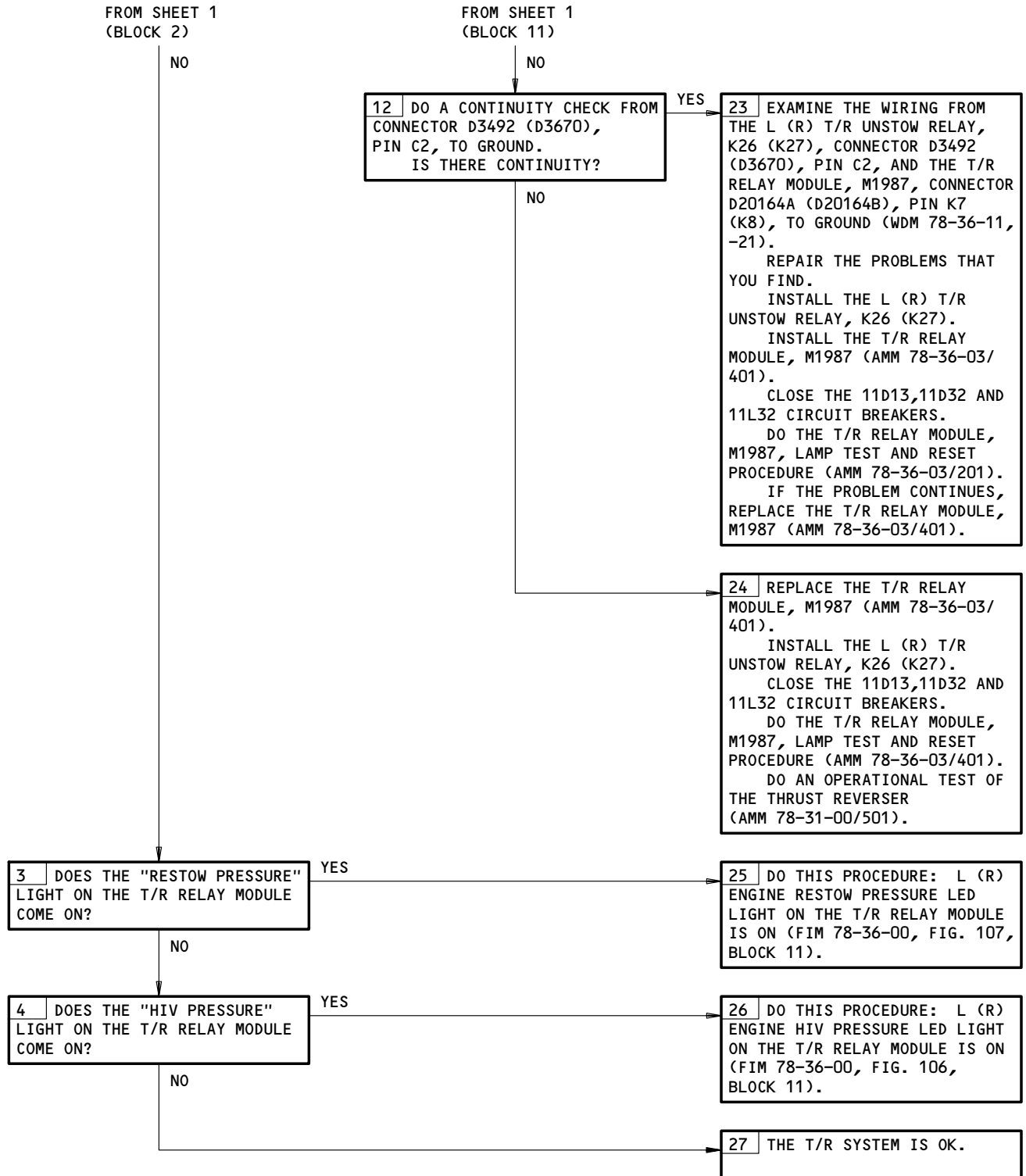


The L (R) Engine PSEU Restow LED Light on the T/R Relay Module Is On  
Figure 105 (Sheet 1)

<b>EFFECTIVITY</b>	ALL
--------------------	-----

78-36-00

C12410



The L (R) Engine PSEU Restow LED Light on the T/R Relay Module Is On  
Figure 105 (Sheet 2)

EFFECTIVITY

ALL

**78-36-00**

N01A

Page 113  
Aug 22/00



THE L (R) ENGINE  
HIV PRESSURE LED  
LIGHT ON THE T/R  
RELAY MODULE IS ON



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
 (LEFT ENGINE) 11D13,11D14,11D18  
 (RIGHT ENGINE) 11C21,11D32,11D33,11L32,11L33,11M30

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

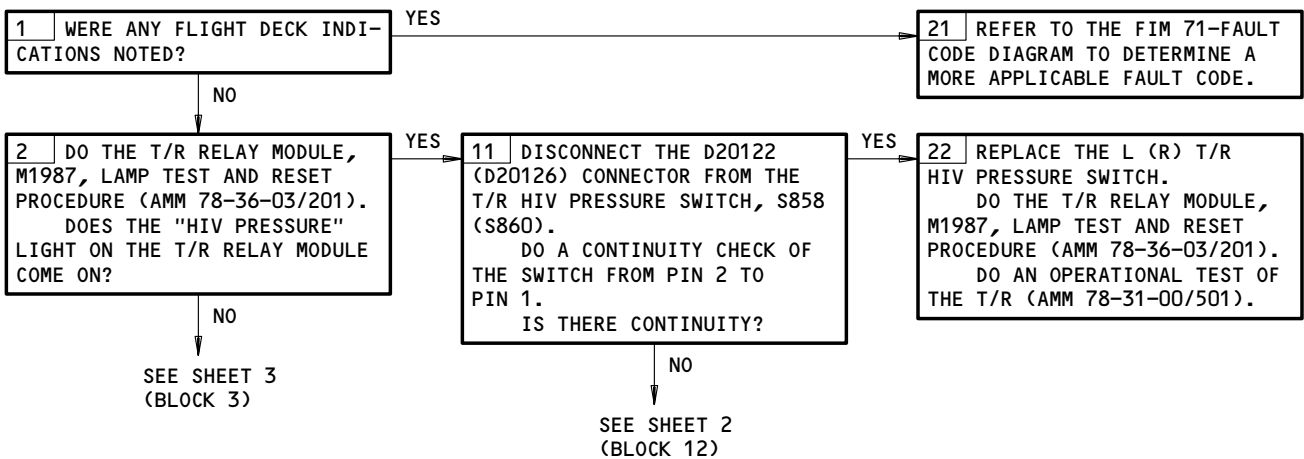
**DESCRIPTION:**

HIV PRESSURE LED LIGHT ON THE T/R RELAY MODULE IS ON (NO EICAS MESSAGE).

**POSSIBLE CAUSES:**

1. T/R MOTORIZED ISOLATION VALVE PRESSURE SWITCH IS DEFECTIVE (AMM 78-34-07/401)
2. WIRING FROM THE P33 PANEL TO THE T/R RELAY MODULE IS DEFECTIVE (WDM 78-36-11,-12)
3. T/R RELAY MODULE IS DEFECTIVE (AMM 78-36-03/401).

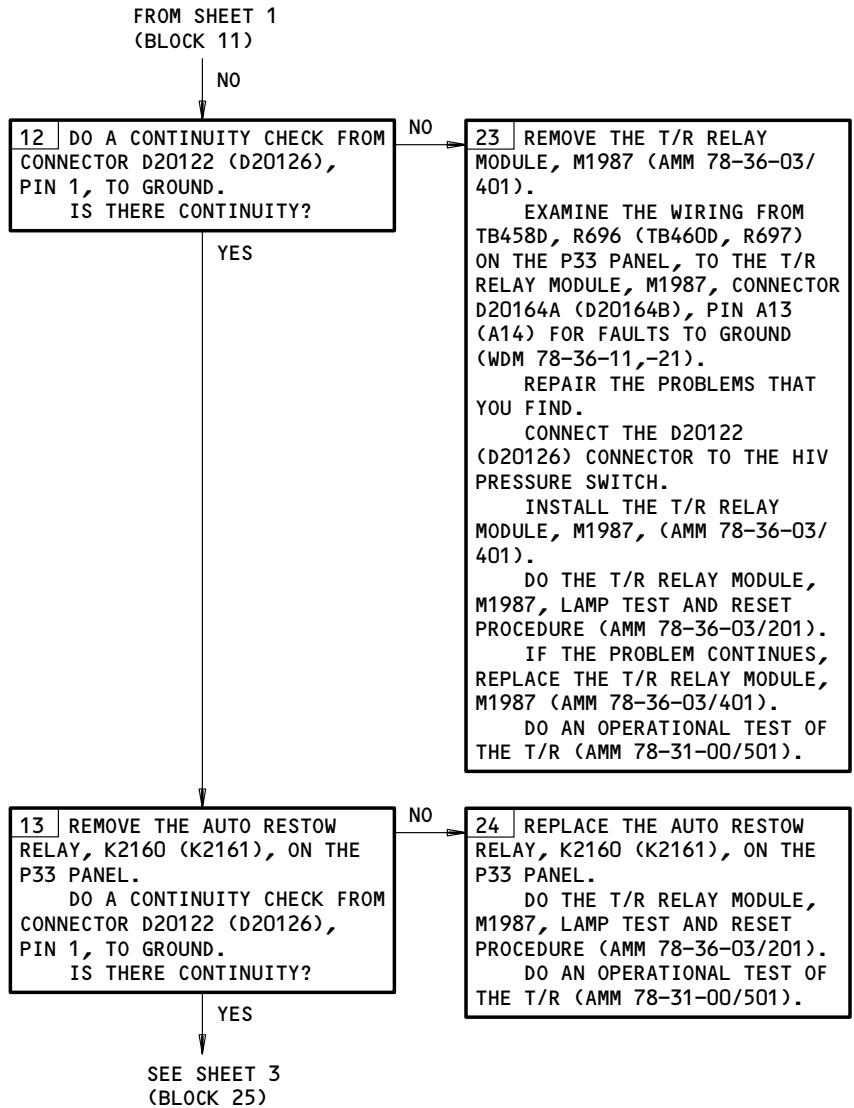
**FAULT ISOLATION:**



The L (R) Engine HIV Pressure LED Light on the T/R Relay Module Is On  
Figure 106 (Sheet 1)

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

**78-36-00**



The L (R) Engine HIV Pressure LED Light on the T/R Relay Module Is On  
Figure 106 (Sheet 2)

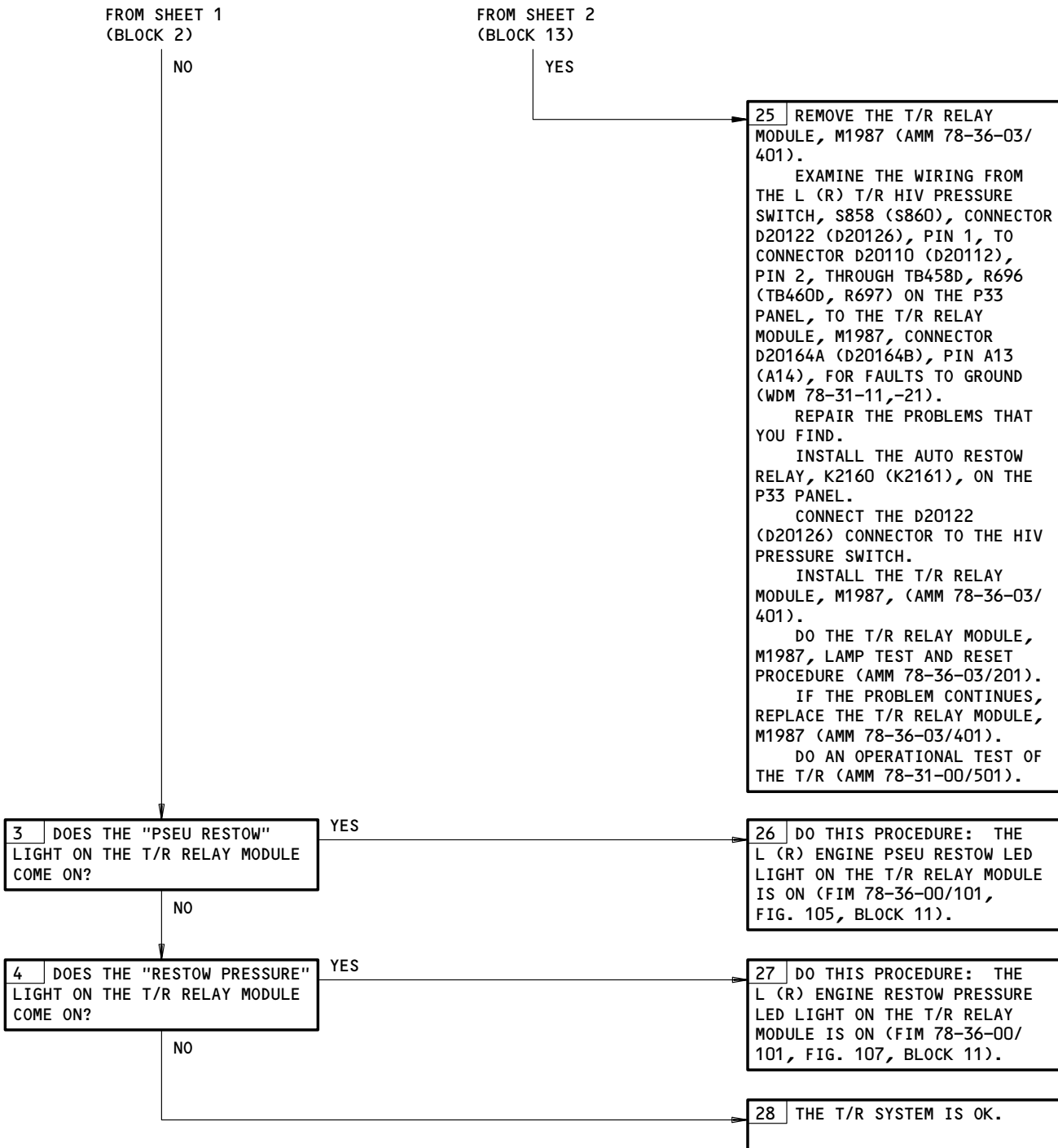
EFFECTIVITY	ALL
-------------	-----

**78-36-00**

N01A

Page 115  
Aug 22/00

C15310



The L (R) Engine HIV Pressure LED Light on the T/R Relay Module Is On  
Figure 106 (Sheet 3)

EFFECTIVITY

ALL
-----

**78-36-00**

C15311

THE L (R) ENGINE  
RESTOW PRESSURE LED  
LIGHT ON THE T/R  
RELAY MODULE IS ON



**PREREQUISITES**

MAKE SURE THESE CIRCUIT BREAKERS ARE CLOSED:  
(LEFT ENGINE) 11D13,11D14,11D18  
(RIGHT ENGINE) 11C21,11D32,11D33,11L32,11L33,11M30

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

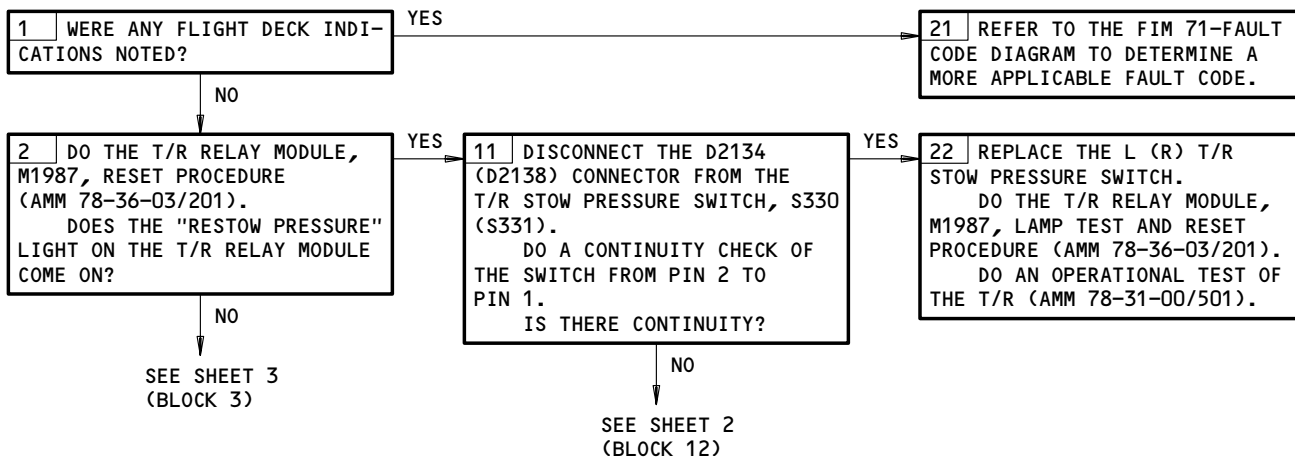
**DESCRIPTION:**

RESTOW PRESSURE LED LIGHT ON THE T/R RELAY MODULE IS ON (NO EICAS MESSAGE).

**POSSIBLE CAUSES:**

1. T/R STOW VALVE PRESSURE SWITCH IS DEFECTIVE (AMM 78-34-11/401)
2. WIRING FROM THE P33 PANEL TO THE T/R RELAY MODULE IS DEFECTIVE (WDM 78-36-11,-21)
3. T/R RELAY MODULE IS DEFECTIVE (AMM 78-36-03/401).

**FAULT ISOLATION:**



The L (R) Engine Restow Pressure LED Light on the T/R Relay Module Is On  
Figure 107 (Sheet 1)

EFFECTIVITY

ALL

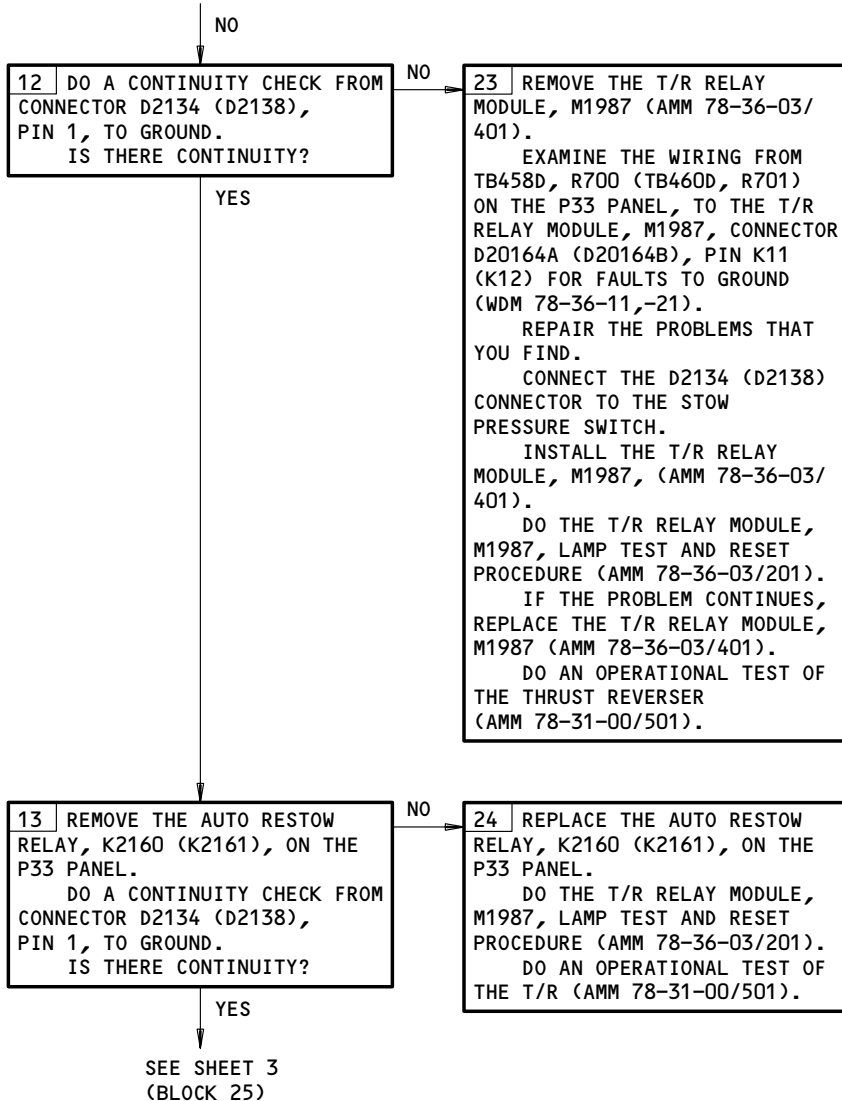
**78-36-00**

N01A

Page 117  
Aug 22/00

C15312

FROM SHEET 1  
(BLOCK 11)



The L (R) Engine Restow Pressure LED Light on the T/R Relay Module Is On  
Figure 107 (Sheet 2)

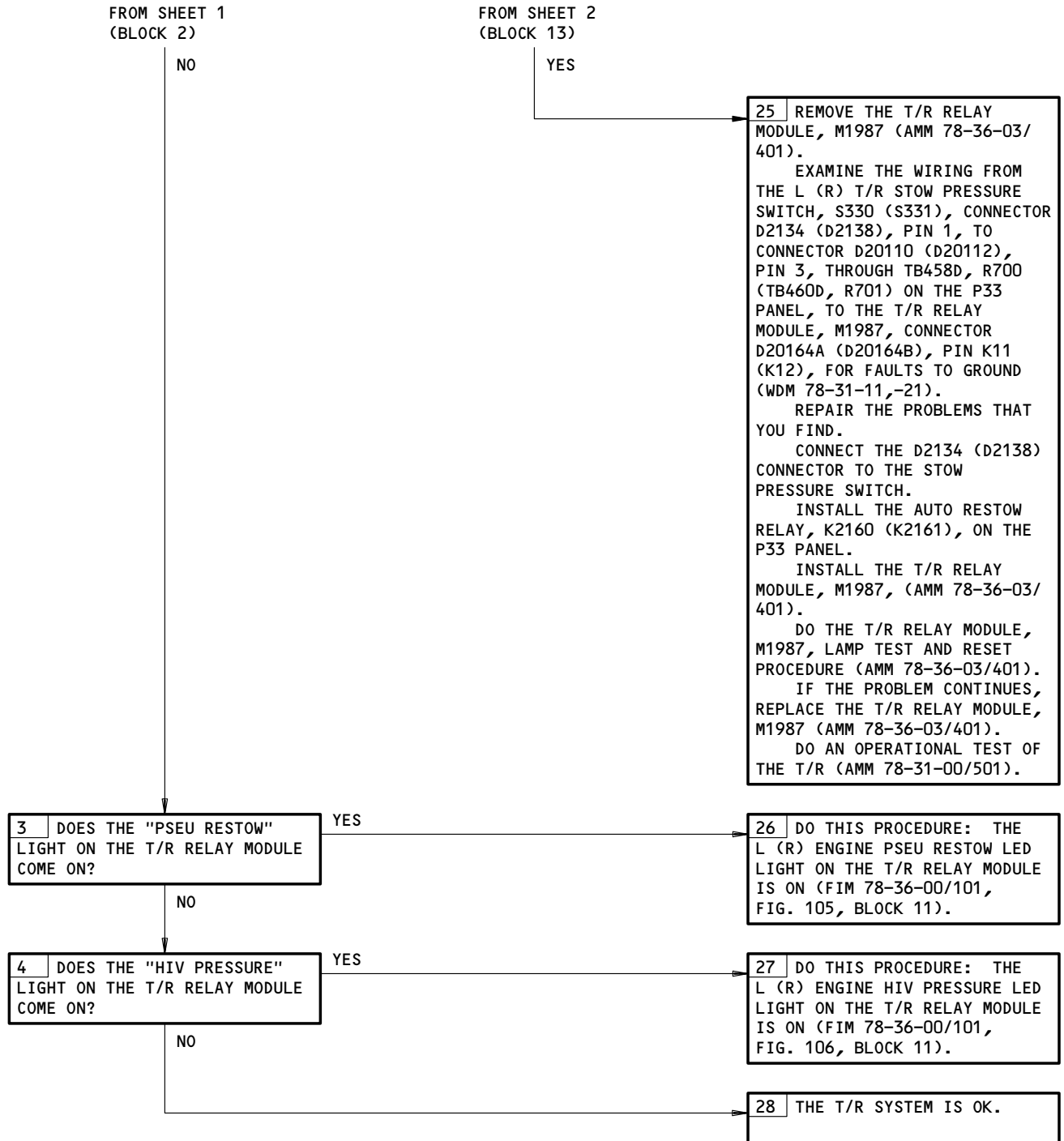
EFFECTIVITY	ALL
-------------	-----

**78-36-00**

N01A

Page 118  
Aug 22/00

C15313



The L (R) Engine Restow Pressure LED Light on the T/R Relay Module Is On  
Figure 107 (Sheet 3)

EFFECTIVITY

ALL
-----

78-36-00

NO1A

Page 119  
Aug 22/00

C15314