Temporary Revisions (TRs) apply to this MMEL, which have been placed at the front of the document for convenience. All TRs overwrite and supersede the corresponding entry in the MMEL, and therefore must be incorporated in the document.

Please follow the instructions on each TR carefully, ensuring that the TR pages are inserted facing the effective page(s) in the MMEL.

The TRs should be incorporated in the order in which they were issued, as it is possible that a TR may be superseded by a later one.

Additionally please incorporate/amend the temporary revision record page and amend the list of effective pages accordingly.

29 October 2001

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

APPLICABLE TO CAA MMEL FOR THE FOLLOWING AIRCRAFT TYPES:

AIRCRAFT TYPE:	MMEL NORMAL REVISION No:
Airbus Industrie A300-600	2
Airbus Industrie A319/A320/A321	2
ATR 42	4
ATR 72	Initial issue
BAC 1-11	2
BAe (HS) 125 series B up to 800B	Initial issue
BAe (HS) 748	Initial issue
Beech F90/200/B200/B200C series	1
Beech B90/C90/C90A/E90	Initial issue
Beech 100/A100	Initial issue
Beechjet 400/400A and MU300	3
Boeing 707-300 series	Initial issue
Boeing 727-100 and 200 series	1
Boeing 737-100/200/300/400/500 series	3
Boeing 747-100/200 series	2
Boeing 747-400	3
Boeing 757	12
Boeing 767	Initial issue
Canadair Challenger	2
Cessna Citation CE-500 series	Initial issue
Cessna CE-525	Initial issue
Cessna Citation CE-650	Initial issue
Cessna CE-208/208A/208B	1
Cessna 401/402/404/411	Initial issue
Reims / Cessna 406/F406	Initial issue
Cessna 414/421	Initial issue
Cessna 425/441	Initial issue
Dassault Aviation Fan Jet (Falcon 20)	1
Dassault Aviation Mystere Falcon 900	Initial issue
Dassault Aviation Falcon 900EX	Initial issue
De Havilland DHC-6	3

Cont...

29 October 2001

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

APPLICABLE TO CAA MMEL FOR THE FOLLOWING AIRCRAFT TYPES:

AIRCRAFT TYPE:	MMEL NORMAL REVISION No:
De Havilland DHC-7	3
De Havilland DHC-8	1
Dornier 228	1
Embraer EMB-110	2
Embraer EMB-120	2
Fokker F27	1
Fokker F100/F70	2
Gulfstream Aerospace Gulfstream IV	3
Islander BN-2A/BN-2B	1
Learjet 35/36/55	Initial issue
Lockheed L-188 Electra	2
Lockheed L-1011 Tristar	1
MCDonnell Douglas DC-10 (Models 10 and 30)	Initial issue
McDonnell Douglas DC-3	Initial issue
Piper PA31	3
Saab SF340A and 340B	1

Page 3 of 10 pages MMEL (TR-G4)

CIVIL AVIATION AUTHORITY

29 October 2001

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

ACTION:	Insert pages 1, 2 and 3 of this TR after the TR Record page. Insert page 4 of this TR at the front of the Preamble section. Insert page 5 of this TR at the front of the Definitions section. Insert page 6 of this TR immediately before and facing page 23-1. Insert page 7 of this TR immediately before and facing page 25-1. Insert page 8 of this TR immediately before and facing page 31-1. Insert page 9 of this TR immediately before and facing page 34-1. Insert page 10 of this TR immediately before and facing page 34-1. Record the incorporation on the temporary revision record page and amend the list of effective pages accordingly.
REASON FOR ISSUE:	The TR reflects current CAA MMEL Policy for Cockpit Voice Recorders, Emergency Locator Transmitters, Flight Data Recorders, ACAS II and GPWS.
	The Definitions and Preamble sections have also been updated to reflect current CAA MMEL Policy.
	NOTES
	 This TR replaces any existing alleviation given in the MMEL normal revision and/or any previous TR on the same subject.
	2. The existing MMEL numbering should be retained where

2. The existing MMEL numbering should be retained where applicable. In the absence of an applicable MMEL entry, the alleviation given in this TR should be added at the end of the relevant ATA chapter in the MMEL.

29 October 2001

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

PREAMBLE

Insert this page facing at the front of the Preamble section in the MMEL.

The CAA MMELs and Supplements are produced in conjunction with a base document, generally either the MMEL issued/approved by a Foreign Airworthiness Authority or the aircraft manufacturer at a specific quoted revision number and date. There may be occasions whereby the CAA MMEL or Supplement has not been updated to consider later revisions of the base document. This could lead to instances where there are alleviations in the base MMEL which have either been revised or deleted and are now more restrictive than the corresponding CAA MMEL or Supplement entry. Operators are invited to review all new base document MMEL revisions and where necessary advise the CAA MMEL section of any significantly more restrictive alleviations introduced by the revision. The CAA will then expedite review of these variations and, where required, issue amendments to the CAA MMEL or Supplement.

New or amended alleviations given in later issues of the base document shall not be used until the CAA MMEL or Supplement has been updated to confirm that issue of the base document is acceptable.

29 October 2001

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

DEFINITIONS

Insert this page facing at the front of the Definitions section in the MMEL.

<u>"As required by Air Navigation Legislation / Operating Requirements"</u>: The associated item must comply with legal provisions such as the Air Navigation Order or any other legislation (JAR-OPS 1) in force during the flight.

Operators should refer to the JAR-OPS 1 MEL Policy document (Temporary Guidance Leaflet number 26) for suitable alleviations based upon the required equipment identified within JAR-OPS 1, subparts K and L (published in the JAA Administrative and Guidance, section four, Operations, part three).

<u>"It is not reasonably practicable for repairs or replacements to be made"</u>: This statement is intended to cover situations whereby there is a lack of a replacement part(s), inadequate engineering resources or manpower to enable the defect to be rectified.

<u>Flight</u>: For the purpose of a MEL, a flight is the period of time between the moment when an aeroplane begins to move by its own means, for the purpose of preparing for take-off, until the moment the aeroplane comes to a complete stop on its parking area, after the subsequent landing (and no subsequent take-off).

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

ATA 23 - COMMUNICATIONS

Insert this page facing page 23-1 of the MMEL.

Cockpit Voice Recorder (CVR)

- - - As required by Operating Requirements.

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

ATA 25 - EQUIPMENT / FURNISHINGS

Insert this page facing page 25-1 of the MMEL.

Emergency Locator Transmitter (ELT) (If installed)	A	_	_	May be inoperative provided repairs or replacements are made within 6 further flights or 25 flying hours, whichever occurs first.
	D	-	-	Any in excess of those required may be inoperative.

Page 8 of 10 pages MMEL (TR-G4)

CIVIL AVIATION AUTHORITY

29 October 2001

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

ATA 31 - INDICATING / RECORDING SYSTEMS

Insert this page facing page 31-1 of the MMEL.

Flight Data Recorder (FDR)

- - - As required by Operating Requirements.

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

ATA 34 - NAVIGATION					
Insert this page fac	ing p	age 3	4-1 c	of the MMEL.	
Airborne Collision and Avoidance System (ACAS II) (If installed) (1) ACAS II System	A	-	0	(O) (M) As required by Air Navigation Legislation.May be inoperative provided the system	
				 is deactivated and secured, and (a) The aircraft may continue the flight or series of flights but shall not depart an airport where it is reasonably practicable for repairs or replacements to be made, and (b) Repairs or replacements must be carried out within 10 calendar days. <u>Note</u>: Local airspace requirements may require a permission to proceed or impose a more restrictive rectification interval. 	
(2) Combined Traffic Alert (TA) Resolution Advisory (RA) Dual Displays	С	-	1	(O) May be inoperative on the non- flying pilot side provided TA and RA elements and audio functions are operative on the flying pilot side.(Cont)	

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

ATA 34 - NAVIGATION

Insert this page facing page 34-1 of the MMEL.

Airborne Collision and Avoidance System (ACAS II) (If installed) (Cont.)				
(3) Resolution Advisory (RA) Display System(s)	C	-	1	(O) One may be inoperative on the non-flying pilot side .
				OR
	С	-	0	(O) May be inoperative provided:
				(a) All Traffic Alert (TA) display elements and voice command audio functions are operative, and
				(b) TA only mode is selected by the crew.
(4) Traffic Alert (TA) Display System(s)	С	-	0	(O) May be inoperative provided all installed RA display and audio functions are operative.
Ground Proximity Warning System (GPWS) (including TAWS)	-	-	-	As required by Operating Requirements.

20 March 2002

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

TR-G6 APPLICABLE TO CAA MMEL FOR THE FOLLOWING AIRCRAFT TYPES:

AIRCRAFT TYPE:	G1	G2	G3	G4	G5	G6
Airbus Industrie A300-600				\checkmark	\checkmark	\checkmark
Airbus Industrie A319/A320/A321 Supplement ATR 42				\checkmark	\checkmark	
ATR 72				\checkmark	\checkmark	
BAC 1-11		\checkmark		\checkmark		\checkmark
BAe (HS) 125 series B up to 800B				1		V
BAe (HS) 748		\checkmark		\checkmark		V
Beech F90/200/B200/B200C series	\checkmark			\checkmark		\checkmark
Beech B90/C90/C90A/E90	\checkmark			\checkmark		\checkmark
Beech 100/A100	\checkmark			\checkmark		\checkmark
Beechjet 400/400A and MU300				\checkmark		\checkmark
Boeing 707-300 series				\checkmark		\checkmark
Boeing 727-100 and 200 series				\checkmark		
Boeing 737-100/200/300/400/500 series Supplement Boeing 747-100/200 series						
Boeing 747-400 Supplement						
Boeing 757 Supplement						
Boeing 767 Supplement				\checkmark	\checkmark	\checkmark
Canadair Challenger				\checkmark		\checkmark
Cessna Citation CE-500 series Supplement				\checkmark		
Cessna CE-525 Supplement				\checkmark		
Cessna Citation CE-650 Supplement				\checkmark		
Cessna CE-208/208A/208B	\checkmark			\checkmark		\checkmark
Cessna 401/402/404/411	√.			√.		√
Reims / Cessna 406/F406	√.			√.		\checkmark
Cessna 414/421	√.			√.		√.
Cessna 425/441	\checkmark			\checkmark		\checkmark

GLOBAL TEMPORARY REVISION INDEX

20 March 2002

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

GLOBAL TEMPORARY REVISION INDEX (Cont.)						
AIRCRAFT TYPE:	G1	G2	G3	G4	G5	(
Dassault Aviation Fan Jet (Falcon 20)				\checkmark		
Dassault Aviation Mystere Falcon 900		\checkmark		√		
Dassault Aviation Falcon 900EX				\checkmark		
De Havilland DHC-6	\checkmark			\checkmark		
De Havilland DHC-7	\checkmark	\checkmark		\checkmark		
De Havilland DHC-8				\checkmark	\checkmark	
Dornier 228	\checkmark			\checkmark		
Embraer EMB-110	\checkmark			\checkmark		
Embraer EMB-120				\checkmark		
Fokker F27	\checkmark	\checkmark		\checkmark	\checkmark	
Fokker F100/F70 Supplement				\checkmark	\checkmark	
Gulfstream Aerospace				\checkmark		
Gulfstream IV Islander BN-2A/BN-2B	\checkmark			1		
Learjet 35/36/55	v			1		
Lockheed L-188 Electra				1		
Lockheed L-1011 Tristar				1		
MCDonnell Douglas DC-10				1	\checkmark	
(Models 10 and 30) McDonnell Douglas DC-3				v √	v	
Piper PA31	\checkmark			√		
Saab SF340A and 340B Supplement	,			\checkmark	\checkmark	

<u>Note</u>: The TR-G prefix designates a global Temporary Revision which is a policy change applicable to several aircraft types. Please note that revisions of the MMEL may have incorporated (and superseded) the Temporary Revisions previously issued.

Page 3 of 3 pages MMEL (TR-G6)

CIVIL AVIATION AUTHORITY

20 March 2002

MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

	Insert pages 1 and 2 of this TR immediately after the TR record page.				
	Insert page 3 of this TR immediately before and facing page 34-1 of the MMEL (or S34-1 for MMEL Supplements).				
	Record the incorporation on the temporary revision record page and amend the list of effective pages accordingly.				
REASON FOR ISSUE:	Update MMELs to include current CAA MMEL Policy on Radio Altimeters. Two notes have been introduced in order to ensure that the applicable dispatch deviations are used if the GPWS/TAWS and ACAS systems are also inoperative.				
	If either of these notes already exists in the current MMEL entry (as a note or as part of the alleviation), the existing wording in the MMEL should remain. These notes should be incorporated only if the current MMEL entry does not refer to these systems. If the MMEL entry refers to GPWS but not ACAS, then only the note for ACAS need be incorporated.				

ATA 34 – NAVIGATION

Insert this page facing page 34-1 of the MMEL.

The following notes should be added to the entry for Radio Altimeters:

- Note 1: If the loss of the radio altimeter prohibits normal operation of the GPWS/TAWS, the dispatch deviation and rectification interval for an inoperative GPWS/TAWS must be observed.
- Note 2: If the loss of the radio altimeter prohibits normal operation of the ACAS, the dispatch deviation and rectification interval for an inoperative ACAS must be observed.

MASTER MINIMUM EQUIPMENT LIST

LOCKHEED L-1011 TRISTAR

This document may not be reproduced in whole or in part without prior permission of the CAA.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

This Master Minimum Equipment List (MMEL) is issued by the Civil Aviation Authority at the above revision and is approved as the basis for the preparation and approval of individual operator's Minimum Equipment Lists (MELs) for aircraft of this Type.

Correspondence concerning this document should be addressed to the office listed below:-

Civil Aviation Authority Safety Regulations Group Aviation House South Area Gatwick Airport Gatwick West Sussex RH6 0YR

Attention:

Aircraft Projects MMEL Section

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

INTENTIONALLY LEFT BLANK

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

REVISION RECORD

REVISION No.	ISSUE DATE	INCORPORATED BY	DATE
Original	10 March 1993		
1	15 April 1994		

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

INTENTIONALLY LEFT BLANK

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

TEMPORARY REVISION RECORD

TR No.	Date	Page Affected	Incorporated By	Date Incorporation	Superseded By
G4	29/10/01	TR Record Page Preamble Definitions 23-1 25-1 31-1 34-1			
G6	20/03/02	34-1			

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

INTENTIONALLY LEFT BLANK

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

TABLE OF CONTENTS

LIST OF EFFECTIVE PAGES PREAMBLE

- NOTES AND DEFINITIONS
- 21 AIR CONDITIONING
- 22 AUTOMATIC FLIGHT CONTROL
- 23 COMMUNICATIONS
- 24 ELECTRICAL POWER
- 25 EQUIPMENT/FURNISHINGS
- 26 FIRE PROTECTION
- 27 FLIGHT CONTROLS
- 28 FUEL
- 29 HYDRAULIC POWER
- 30 ICE AND RAIN PROTECTION
- 31 INSTRUMENTS
- 32 LANDING GEAR
- 33 LIGHTS
- 34 NAVIGATION
- 35 OXYGEN
- 36 PNEUMATIC
- 49 AIRBORNE AUXILIARY POWER
- 52 DOORS
- 56 WINDOWS
- 73 ENGINE FUEL AND CONTROL
- 74 IGNITION SYSTEMS
- 75 ENGINE BLEED AIR
- 77 ENGINE INDICATING
- 78 EXHAUST
- 79 OIL
- 80 STARTING

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

INTENTIONALLY LEFT BLANK

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

LIST OF EFFECTIVE PAGES

	Page	Revision	Date
(i)	Approval Sheet	Revision 1	15 April 1994
(iii)	Revision Record	Revision 1	15 April 1994
(iii) (v)	Temporary Revision Record	Revision 1	15 April 1994
(vii)	Contents	Revision 1	15 April 1994
(ix)	List of Effective Pages	Revision 1	15 April 1994
(x)	List of Effective Pages (Cont)	Revision 1	15 April 1994
(xi)	List of Effective Pages (Cont)	Revision 1	15 April 1994
(xiii)	Preamble	Revision 1	15 April 1994
(xiv)	Preamble (Cont)	Revision 1	15 April 1994
(xv)	Definitions	Revision 1	15 April 1994
(xvi)	Definitions (Cont)	Revision 1	15 April 1994
(xvii)	Definitions (Cont)	Revision 1	15 April 1994
(xviii)	Definitions (Cont)	Revision 1	15 April 1994
(xix)	Highlights to Revision 1	Revision 1	15 April 1994
(xx)	Highlights (Cont)	Revision 1	15 April 1994
(xxi)	Highlights (Cont)	Revision 1	15 April 1994
(xxii)	Highlights (Cont)	Revision 1	15 April 1994
	21-1	Revision 1	15 April 1994
	21-2	Revision 1	15 April 1994
	21-3	Revision 1	15 April 1994
	21-4	Revision 1	15 April 1994
	21-5	Revision 1	15 April 1994
	21-6	Revision 1	15 April 1994
	21-7	Revision 1	15 April 1994
	21-8	Revision 1	15 April 1994
	21-9	Revision 1	15 April 1994
	21-10	Revision 1	15 April 1994
	21-11	Revision 1	15 April 1994
	21-12	Revision 1	15 April 1994
	21-13	Revision 1	15 April 1994
	21-14	Revision 1	15 April 1994
	22-1	Revision 1	15 April 1994
	22-2	Revision 1	15 April 1994
	22-3	Revision 1	15 April 1994
	22-4	Revision 1	15 April 1994
	22-5	Revision 1	15 April 1994
	22-6	Revision 1	15 April 1994
	22-7	Revision 1	15 April 1994
	22-8	Revision 1	15 April 1994
	22-9	Revision 1	15 April 1994
	22-10	Revision 1	15 April 1994
	22-11	Revision 1	15 April 1994
	22-12	Revision 1	15 April 1994
	22-13	Revision 1	15 April 1994

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

LIST OF EFFECTIVE PAGES (Cont...)

Page	Revision	Date
23-1	Revision 1	15 April 1994
23-2	Revision 1	15 April 1994
23-3	Revision 1	15 April 1994
23-4	Revision 1	15 April 1994
24-1	Revision 1	15 April 1994
24-2	Revision 1	15 April 1994
24-3	Revision 1	15 April 1994
24-4	Revision 1	15 April 1994
24-5	Revision 1	15 April 1994
24-6	Revision 1	15 April 1994
25-1	Revision 1	15 April 1994
25-2	Revision 1	15 April 1994
25-2	Revision 1	15 April 1994
25-3	Revision 1	15 April 1994
25-5	Revision 1	15 April 1994
25-6	Revision 1	15 April 1994
26-1	Revision 1	15 April 1994
	Revision 1	15 April 1994
26-2	Revision 1	1
26-3		15 April 1994
26-4	Revision 1	15 April 1994
26-5	Revision 1	15 April 1994
26-6	Revision 1	15 April 1994
27-1	Revision 1	15 April 1994
27-2	Revision 1	15 April 1994
27-3	Revision 1	15 April 1994
27-4	Revision 1	15 April 1994
28-1	Revision 1	15 April 1994
28-2	Revision 1	15 April 1994
28-3	Revision 1	15 April 1994
28-4	Revision 1	15 April 1994
28-5	Revision 1	15 April 1994
28-6	Revision 1	15 April 1994
28-7	Revision 1	15 April 1994
28-8	Revision 1	15 April 1994
28-9	Revision 1	15 April 1994
29-1	Revision 1	15 April 1994
29-2	Revision 1	15 April 1994
29-3	Revision 1	15 April 1994
29-4	Revision 1	15 April 1994
30-1	Revision 1	15 April 1994
30-2	Revision 1	15 April 1994
30-3	Revision 1	15 April 1994
30-4	Revision 1	15 April 1994
31-1	Revision 1	15 April 1994
31-2	Revision 1	15 April 1994

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

LIST OF EFFECTIVE PAGES (Cont...)

Page	Revision	Date
32-1	Revision 1	15 April 1994
32-2	Revision 1	15 April 1994
32-3	Revision 1	15 April 1994
32-4	Revision 1	15 April 1994
33-1	Revision 1	15 April 1994
33-2	Revision 1	15 April 1994
33-3	Revision 1	15 April 1994
33-4	Revision 1	15 April 1994
33-5	Revision 1	15 April 1994
33-6	Revision 1	15 April 1994
33-7	Revision 1	15 April 1994
34-1	Revision 1	15 April 1994
34-2	Revision 1	15 April 1994
34-3	Revision 1	15 April 1994
34-4	Revision 1	15 April 1994
34-5	Revision 1	15 April 1994
34-6	Revision 1	15 April 1994
34-7	Revision 1	15 April 1994
35-1	Revision 1	15 April 1994
35-2	Revision 1	15 April 1994
35-3	Revision 1	15 April 1994
36-1	Revision 1	15 April 1994
36-2	Revision 1	15 April 1994
36-3	Revision 1	15 April 1994
36-4	Revision 1	15 April 1994
49-1	Revision 1	15 April 1994
49-2	Revision 1	15 April 1994
52-1	Revision 1	15 April 1994
52-2	Revision 1	15 April 1994
52-3	Revision 1	15 April 1994
52-4	Revision 1	15 April 1994
52-5	Revision 1	15 April 1994
52-6	Revision 1	15 April 1994
56-1	Revision 1	15 April 1994
73-1	Revision 1	15 April 1994
73-2	Revision 1	15 April 1994
74-1	Revision 1	15 April 1994
75-1	Revision 1	15 April 1994
77-1	Revision 1	15 April 1994
77-2	Revision 1	15 April 1994
77-3	Revision 1	15 April 1994
78-1	Revision 1	15 April 1994
79-1	Revision 1	15 April 1994
79-2	Revision 1	15 April 1994
80-1	Revision 1	15 April 1994

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

INTENTIONALLY LEFT BLANK

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

PREAMBLE

- 1. The CAA approved Master Minimum Equipment List (MMEL) provides owners/operators of United Kingdom registered aircraft, of the relevant type, with the basis for the preparation of their individual Minimum Equipment List (MELs). In the case of holders of Air Operators Certificates the MEL will be included in that Company's Operations Manual.
- 2. The approved MMEL represents a list of items of equipment which, under particular circumstances, can, to the satisfaction of the CAA, be unserviceable when the aircraft is despatched, while still retaining the required level of safety.
- 3. The CAA recognises that in some respects the standard and scale of equipment provided in the aircraft may exceed the minimum required to satisfy airworthiness or Air Navigation Legislation requirements. Where necessary to achieve a satisfactory level of safety with an inoperative item, appropriate limitations are imposed or the function transferred to another component.
- 4. The MMEL does not include items such as wings, engines and landing gear that are always required, nor is reference made to equipment such as passenger convenience and entertainment items which when inoperative obviously do not affect airworthiness. It is important to note therefore that ANY ITEM WHICH IS RELATED TO THE AIRWORTHINESS OF THE AIRCRAFT AND WHICH IS <u>NOT</u> INCLUDED IN THE MMEL IS ALWAYS REQUIRED TO BE OPERATIVE BEFORE A FLIGHT IS DESPATCHED. Likewise items required by Air Navigation Legislation. Additional Certification Requirements as appropriate, which are not listed must be operative.
- 5. The MMEL may not waive a limitation or an emergency procedure which is given in the Flight Manual (FM) or override an Airworthiness Directive (AD) /Mandatory Inspection unless the FM/AD provides otherwise. Similarly any Additional Certification Requirements, or other special provisions, as appropriate which have been determined as necessary by the CAA shall not be waived unless otherwise agreed or varied by the CAA.
- 6. An Owner/Operators MEL must receive CAA approval which thereby conveys the permission, required by the UK Air Navigation Order, to the Commander, for operation of the aircraft with specified items of equipment unserviceable.
- 7. The MEL may not be less restrictive than the MMEL therefore the number of items required for despatch shall not be less than the corresponding number in column 3 of the MMEL and any associated conditions shall be at least as severe as those specified in column 4.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

PREAMBLE (Cont...)

- 8. The MMEL does not anticipate the effects of combinations of apparently unrelated unserviceabilities or allow for situations where systems are made inoperative for special purposes such as demonstration, test or crew training. Other provisions may apply to positioning or ferrying flights but these may not necessarily be included in the MMEL.
- 9. The MEL should indicate that a decision to operate the aircraft with multiple unserviceabilities should only be made after due consideration of possible interrelated or additive effects and, if necessary, following consultation with appropriate engineering specialists.
- 10. It is not the purpose of the MMEL to allow defects of other than optional items to remain unrectified indefinitely. The operational flexibility provided under the MMEL policy is justified only within a framework of controlled and sound programmes of repairs, replacement and servicing. Defects should be rectified expeditiously thus retaining the intended overall level of safety and reducing the possibility of a subsequent failure necessitating the removal of the aircraft from service. Some particular items in the MMEL may be subject to a limitation of flight hours, number of flights or consecutive calendar days, and these must be transferred into the MEL. A limit of three calendar days for completion of repairs or replacements has been applied to some items. Other time limits for rectification, such as those specified by the ANO, may also be applied as appropriate. Operators with established routes shall specify in the MEL at which stations, in addition to the main maintenance base, repair facilities exist.
- 11. This MMEL is based upon UK legislation and some of the alleviations it provides may not therefore necessarily comply with foreign legislation.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

DEFINITIONS

- 1. In this list, the items of equipment are classified in systems according to the ATA 100 specification. Individual items within a given ATA classification are numbered sequentially.
- 2. <u>"Item"</u> (Column 1): The equipment, system, components or function as listed in Column 1.

NOTE: Items annotated in UPPER CASE letters indicates the precise flight deck legend used.

- 3. <u>"Number Installed"</u> (Column 2): The number of the specified items normally installed in the aircraft. This number identifies the aircraft configuration considered in developing the MMEL.
 - NOTE: The operator's MEL should list the number installed in a particular aircraft.
- 4. <u>"Number Required for Despatch"</u> (Column 3): The minimum number of the specified items required for operation provided the conditions defined in Column 4 are met.
- 5. <u>"Remarks or Exceptions"</u> (Column 4): This column includes a statement prohibiting operation or permitting operation with a specific number of items inoperative, provisos (conditions and limitations) for such operation and appropriate notes.
- 6. <u>Dash (-)</u>: This symbol indicates a variable quantity when used in Columns 2 or 3.

NOTE: The operator's MEL should list the numbers appropriate to his particular aircraft in Columns 2 and 3.

- 7. Each inoperative item must be placarded to inform and remind the crew members and maintenance personnel of the equipment condition. To the extent practicable, placards should be located adjacent to the control or indicator for the item affected such that it is clear to the operating crew that it or its associated system is inoperative.
- 8. <u>"Inoperative"</u>: A system or item of equipment is deemed inoperative if it malfunctions such that it does not accomplish its intended purpose and/or is not consistently functioning within it's designed operating limit(s) or tolerance(s).
- 9. <u>"(0)"</u>: The use of this symbol in Column 4 indicates that an appropriate operating procedure (or change to an existing procedure) must be established, published and utilised to maintain the required level of safety while operating under the terms of the (M)MEL.

Normally, these procedures are accomplished by the flight crew. However, other personnel may be qualified and authorised to perform certain functions.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

DEFINITIONS (Cont...)

10. "(<u>M</u>)": The use of this symbol in Column 4 indicates that an appropriate maintenance procedure must be established, published and utilised prior to the first flight undertaken following discovery of the defect and, if necessary, repeated at specified intervals during operation under the terms of the (M)MEL to maintain the required level of safety.

Normally, these procedures are accomplished by maintenance personnel. However, other personnel may be qualified and authorised to perform certain functions.

- 11. <u>"As required by Air Navigation Legislation"</u>: The associated item must comply with legal provisions such as the Air Navigation Order or any other legislation in force during the flight.
- 12. <u>"VMC" and "IMC"</u>: The definitions of these terms are those used in Section 2 of the Air Navigation Order - Rules of the air.
- 13. <u>"Icing Conditions"</u>: An atmospheric condition that may cause ice to form on the aircraft or in the engines.
- 14. <u>"Visible Moisture"</u>: An atmospheric environment containing water in any form that can be seen in natural or artificial light, i.e. clouds, fog, rain, sleet, hail, snow.
- 15. <u>"Flight Hour"</u>: The time from the moment an aircraft leaves the surface of the earth until it touches it at the next point of landing.

NOTE: The definition differs from that given in the Air Navigation Order.

16. <u>"ETOPS"</u>: Refers to "extended range" operations which may be defined as "operation of a two-engined aeroplane over a route that contains a point farther than one hour flying time at the normal one-engined inoperative cruise speed (in still air) from an adequate airport".

In the MEL, for an operator who has received approval to extend maximum diversion time from 120 minutes to 138 minutes, unless otherwise stated, "120 minutes" may be interpreted as "138 minutes".

- 17. <u>"Flight day"</u>: A 24 hour period (from midnight to midnight) during which at least one flight is scheduled for the affected aircraft.
- 18. <u>"Authority"</u>: The competent regulatory authority according to the country of registry; for aircraft registered in the U.K. this is the Civil Aviation Authority.

NOTE: Where an item is annotated (0)/(M), the "/" is defined as "and/or", which shows that there may be different options available in respect of the MEL procedures.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

DEFINITIONS (Cont...)

- 19. <u>"Deleted"</u>: When applied to an item number, indicates that the item was previously listed but is now required to be operative.
- 20. "<u>Combustible (Material)</u>": is defined as material which is capable of catching fire and burning.

When an MMEL item specifies the condition that only non-combustible materials are to be carried, it is the operator's responsibility to determine that all material (including containers, packing material and palletts etc) in the associated compartments is of a non-combustible nature.

If it cannot be determined whether any proposed cargo is non-combustible, it must not be loaded in compartments where combustible materials are prohibited.

- 21. <u>"System"</u>: System means the group of directly related components which together performs a specified function, for example 'RPM indication system' would include the RPM indicator, tachometer generator, circuit breaker and associated circuitry.
- 22. <u>"Extended Overwater Flight"</u>: Refers to an operation overwater at a horizontal distance of more than 50 nautical miles from the nearest shoreline.
- 23. <u>Repair Intervals</u>
 - Calendar Day

A period of 24 hours elapsed time, commencing at midnight on the day of discovery and recording of a malfunction in the aircraft's maintenance/logbook and ending at midnight on the next day. For example, if it were recorded at 10 am on January 26th that a malfunction had occurred, and the MMEL allowed three calendar days for completion of repairs or replacements, the three day interval would commence at midnight on 26th January and end at midnight on 29th January.

24. <u>"Despatch"</u>: The point at which an aircraft first moves under its own power for the purpose of commencing a flight.

<u>NOTE</u>: The definition above is in accordance with that given in Article 106(2)(a) of the ANO and it is at the point of despatch that the provisions of the MMEL cease to apply. They come into effect again when the aircraft next comes to rest at the end of its flight. In the case of a helicopter which comes to rest without stopping rotors, it is deemed to have ended its flight and the provisions of the MMEL then apply until it is next despatched.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

DEFINITIONS (Cont...)

25. Aircraft Model Designations and Equipment Configurations:

Model	Common Reference	MMEL Designation
L-1011-385-1	Dash 1 and Dash 50	-1
L-1011-385-1-14	Dash 100 or 200	-14
L-1011-385-1-15	Dash 100 or 200	-15
L-1011-385-3 (ACS)	Dash 500	-3

Each listed item of equipment in this MMEL is applicable to all of the above models unless otherwise specified. For example, (-1, -14, -15) in Column 1 indicates that the item is applicable to those models only. If a listed item of equipment has alternate configurations, these will be specified, usually in Column 1.

- 26. Base Documents used for the preparation of this MMEL are:
 - (a) FAA Lockheed L-1011 MMEL Revision 20D dated 6 May 1993.
 - (b) CAA Policy Statements, as effective at 31 March 1994.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

HIGHLIGHTS TO REVISION 1

General

1.	In response to recent FAA policy, the * has been deleted - see Definitions Item 7.
2.	A three day limit for repair or replacement of inoperative items has been introduced - see Preamble item 10.

ATA 21 AIR CONDITIONING

21-25-03	FESC Exhaust Fans	3 day repair policy applied.
21-25-21	Instrument Cooling Fan	3 day repair policy applied.

ATA 22 AUTO FLIGHT

22-00-03(7)	Course Set Knobs	3 day repair policy applied.
22-10-02	Nav Mode Select Panels	3 day repair policy applied.

ATA 23 COMMUNICATIONS

23-71-00	CVR	Latest CAA Policy applied -
		48 hours becomes 24 hours.

ATA 24 ELECTRICAL POWER

24-21-01	IDG	3 day repair policy applied.
24-21-05	IDG Generator Controller Units	3 day repair policy applied.
24-21-07	IDG Generator Breakers	3 day repair policy applied.
24-31-01	Transformer Rectifiers	3 day repair policy applied.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

HIGHLIGHTS TO REVISION 1

ATA 25 - EQUIPMENT/FURNISHINGS

25-11-01	Flight Deck Crew Seats	3 day repair policy applied.
25-11-08	Flight Crew Shoulder Harness	3 day repair policy applied.
25-32-00	Lower Galley Lift Systems	3 day repair policy applied.

ATA 263 FIRE PROTECTION

26-15-10	Cargo Compartment Smoke Detection Systems (2) & (5)	Reference to Definition 20 added.
26-23-00	Cargo Compartment Fire Extinguisher Systems	Proviso revised and reference to Definition 20 added.
26-25-00	Toilet Compartment Smoke Detection Systems	3 day repair policy applied.

ATA 27 FLIGHT CONTROLS

27-21-02	Rudder Pedal Adjustment Systems	3 day repair policy applied.
27-21-18	Rudder Mechanical Limiter System	3 day repair policy applied.

ATA 28 FUEL

28-27-01	Fuel Transfer Valves	3 day repair policy applied.
28-21-07	Fuel Level Control Switches	Additional relief item (4).

ATA 30 ICE AND RAIN PROTECTION

30-31-00	Air Data Sensor Heat Systems	3 day repair policy applied.
26-23-02	< <disch>>> Light</disch>	New / replacement entry for 26-16-05.

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

HIGHLIGHTS TO REVISION 1

ATA 31 INDICATING/RECORDING SYSTEMS

31-31-01	FDR	Latest CAA policy applied -
		48 hours becomes 24 hours

|--|

33-10-00	Flight Compartment and Instrument Lighting System	Latest CAA policy applied.
33-29-12	Passenger Notice System	Third alleviation added
33-51-08	Exterior Emergency Light System	3 day repair policy applied and proviso (c) added.
33-52-00	Floor Proximity Lights	Remarks revised.

ATA 34 NAVIGATION

34-22-00	Magnetic Heading Reference Systems	In accordance with FAA MMEL alleviation removed.
34-22-07	Standby Compass	3 day repair policy applied.
34-45-00	Weather Radar	NOTE expanded.
34-61-02	TCAS	6 sectors/48 hours becomes 10 calendar days.

ATA 35 OXYGEN

35-21-00	Passenger Oxygen System	Revised to reflect latest CAA policy.
35-31-07	Lower Galley oxygen Cylinder	3 day repair policy applied.
Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

Revision 1 15 April 1994

LOCKHEED L-1011 TRISTAR

HIGHLIGHTS TO REVISION 1

ATA 52 DOORS

52-11-00	Emergency Exits	3 day repair policy applied.
52-51-02	Lockable Flight Deck Door	3 day repair policy applied.

ATA 73 ENGINE FUEL AND CONTROL

73-31-00	Engine FUEL PRESSURE Light Systems	3 day repair policy applied.
73-34-00	Engine Fuel Flow and Fuel Used Indicating Systems	3 day repair policy applied.

ATA 77 ENGINE INDICATING

77-12-04	NI RPM Indicating Systems	3 day repair policy applied.
77-12-06	N2 RPM Indicators	3 day repair policy applied.
77-12-07	N3 RPM Indicators	3 day repair policy applied.

ATA 79 ENGINE OIL

79-31-03	ENG OIL PRESS lights	3 day repair policy applied.
79-34-00	Oil Temperature Indicating Systems	3 day repair policy applied.
79-37-00	Oil Quantity Indicating Systems	3 day repair policy applied.

	RAFT:	TAD		REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	MAK		DATE: 15 APRIL 1994	21-1
(1) Syste	em & Sequence Numbers	(2) Num	per Install	ed	1
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
21	AIR CONDITIONING				
21-01	Pack Flow Control Valves	3	2	(M) (O) One may be inoperative provided a is secured CLOSED.	associated valve
21-21	Compressor Overheat Trip Systems	3	2	(O) One may be inoperative provided a Temperature Indicating Systems for CPRS ACM DISCH are operative.	
				NOTE: For inoperative compressor o switch, limit the associated C temperature to +200oC maximum.	
	Pack Discharge Overheat Trip Systems	3	2	(O) One may be inoperative provided assoc Temperature Indicating Systems for CPRS ACM DISCH are operative.	
				NOTE: For inoperative pack discharge o switch, limit the associated temperature to +80oC maximum.	
21-37	Ozone Converters (If Installed)	3	0	All may be inoperative.	
	Cabin Overhead Exhaust Flow Control Valve (-3)	1	0	(M) May be inoperative provided:	
				(a) Associated valve is secured CLOSED.	and
				(b) Cabin Overhead Exhaust Fan System	is deactivated.
				OR	
				(c) Associated valve is secured OPEN, an	d
				(d) Cabin Galley Exhaust Flow Cor	
				operative or secured CLOSED.	
	Cabin Overhead Exhaust Fan System (If Installed)	1	0	May be inoperative.	
23-18	CABIN OVHD EXHAUST FAN Annunciator Light System (If Installed)	1	0	May be inoperative.	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	AK		DATE: 15 APRIL 1994	21-2
(1) Syst	tem & Sequence Numbers	(2) Num	ber Installe	ed	
	Item		(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
21					
<u>21</u>	AIR CONDITIONING (Cont)				
24-02	Galley Exhaust Flow Control Valves				
	(1) Lower Galley (-1, -14, -15)	1	0	(M) May be inoperative provided:	
				(a) Associated valve is secured CLOSED,	and
				(b) Galley ovens not used.	
				OR	
		1	0	May be inoperative provided:	
				(a) Associated valve is OPEN, and	
				(b) Extended overwater flight is prohibited	1.
	(2) Cabin Galley (If Installed)	1	0	(M) May be inoperative provided:	
				(a) Associated valve is secured CLOSED,	and
				(b) Cabin Galley Exhaust Fan is deactivate	ed.
				OR	
				(c) Associated valve is OPEN, and	
				(d) Cabin Overhead Exhaust Flow Co operative or secured CLOSED.	ntrol Valve
24-06	Exhaust Fan				
	(1) Lower Galley (-1, -14, -15)	1	0	(M) May be inoperative provided:	
				(a) Lower Galley Exhaust Flow Con operative, and	trol Valve
				(b) Mid Electrical Service Centre (M Fan is operative during ground operation	
	(2) Cabin Galley (If Installed)	1	0	May be inoperative.	
	(3) Cabin Circuit Breaker Panel(-3)	1	0	May be inoperative.	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	21-3
(1) Sys	tem & Sequence Numbers	(2) Numb	per Install		<u>.</u>
	Item	[(3) Nu	mber required for despatch	
		1	(0) 140		
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
25-01	Forward Electronic Service Centre (FESC) AVIONIC AIR-FWD-LO	1	0	(M) May be inoperative provided:	
	FLO Light System			(a) FESC Exhaust Fans are operative,	
				(b) FESC Exhaust Fan Differential Pressu operative, and	re Switch is
				(c) FESC Exhaust Air Flow Control Valve i	s operative.
25-02	Mid Electrical Service Centre (MESC) AVIONIC AIR-MID-LO	1	0	(M) May be inoperative provided:	
	FLO Light System	1	0	(a) MESC Exhaust Fan is operative,	
				(b) MESC Exhaust Fan Differential Press operative, and	are Switch is
				(c) MESC Exhaust Air Flow Control Valve	is operative.
25-03	Forward Electronic Service Centre (FESC) Exhaust Fans	2	1	(O) One may be inoperative.	
		2	0	(M) (O) One or both may be inoperative provi	ded:
				(a) Associated fan is deactivated and is free	to windmill,
				(b) FESC AVIONIC AIR-FWD-LO FLO is operative,	Light System
				(c) During maintenance/passenger loadin theelectrical system is in the Ground Service	
				 (d) Within 15 minutes of switching from Gr mode to main busses, the aircraft is p obtain a cabin altitude 250-300 feet elevation, and 	pressurised to
				(e) Repairs or replacements are carried out calendar days.	within three
				NOTE 1: Above procedures are required in provide adequate FESC equipment	
				(Cont)	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	21-4
(1) System & Sequence Numbers (2) Nun			Install	ed	1
	Item		3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
25-03	Forward Electronic Service Centre			NOTE 2: DO NOT EXCEED A CABIN DIFFERENTIAL PRESSURE OI DURING GROUND PRESSURI	
25-04	Mid Electrical Service Centre (MESC) Exhaust Fan	1	0	(M) (O) May be inoperative provided:	
	(INESC) Exhlust I un			(a) Battery Charger is operative but is deac cabin differential pressure is less than 1.0	
				(b) Unattended on-ground use of lower ga prohibited, and	lley ovens is
				(c) Lower galley modules are not serviced w	ith dry ice.
				NOTE 1:InoperativeMESCExhaustLowerGalley or LoungeSmoSystemIneffective on the	ke Detection
				NOTE 2: Refer to Flight Manual Limitation occupancy on ground.	ns for galley
25-05	Forward Electronic Service Centre (FESC) Exhaust Fan Differential	1	0	(M) (O) May be inoperative provided:	
	Pressure Switch			(a) FESC Fan Differential Pressure Sensir placed in the NO PRESSURE position,	
				(b) FESC Exhaust Air Flow Control Valve and	is operative,
				(c) FESC Exhaust Fan is operative.	
				NOTE: The FESC Exhaust Air Flow Contro remain open in flight and on the grou AVIONIC AIR-FWD-OVBD Light illuminated. Valve can be unlatching COOL AIF switchlight.	nd, and will remain closed by
25-06	Mid Electrical Service Centre (MESC) Exhaust Fan Differential Pressure Switch	1	0	(M) (O) May be inoperative provided	
				 (a) MESC fan differential pressure sensir placed in the NORMAL PRESSURE pos (Cont) 	
				l	

	LOCK HEED L-1011 TRIS				PAGE:
LOCKHEED L-1011 TRISTA				DATE: 15 APRIL 1994	21-5
(1) Syst	em & Sequence Numbers	(2) Numbe	er Instal	led	1
	Item	∣ г	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING				
	<u>(Cont)</u>				
25-06	Mid Electrical Service Centre (MESC) Exhaust Fan Differential Pressure Switch (Cont)			(b) MESC Exhaust Air Flow Control Valve held OPEN, and can be CLOSED with th AIR OVBD switchlight.	
				(c) MESC Exhaust Fan is operative, and	
				(d) MESC AVIONIC AIR-MIDLO FLO is operative.	Light System
				NOTE: MESC Exhaust Air Flow Control V operative in order to allow it to be clo ditching and for pressurisation control	osed for
25-09	Forward Electronic Service Centre (FESC) Exhaust Air Flow Control	1	0	(M) (O) May be inoperative OPEN provided:	
	Valve			(a) All Pack Air Cycle Machines (ACM) a and	are operative,
				(b) MESC Exhaust Air Flow Control Valve	is operative.
				NOTE: With the FESC Exhaust Air Flow C open the AVIONIC AIR-FWD-OVE remain illuminated in flight.	
25-10	Mid Electrical Service Centre (MESC) Exhaust Air Flow Control Valve	1	0	(M) (O) Exhaust for extended overwater operation inoperative OPEN provided:	ntion, may be
				(a) All Pack Air Cycle Machines (ACM) are	operative,
				(b) FESC Exhaust Air Flow Control Valve and	is operative,
				(c) Extended overwater flight is prohibited.	
				NOTE: With the MESC Exhaust Air Flow C open, the AVIONIC AIR-MID-OVE remain illuminated in flight.	
25-17	Inertial Navigation System Exhaust Fan	1	0	May be inoperative provided FESC Exhaust F operative.	an is

AIR	CRAFT:			REVISION NO: REVISION 1 PAGE:
	LOCKHEED L-1011 TR	ISTAR		DATE: 15 APRIL 1994 21-6
(1) Sys	tem & Sequence Numbers	(2) Numbe	er Install	ed
	Item	Г	(3) Nu	mber required for despatch
			()	(4) Remarks or Exceptions
<u>21</u>	AIR CONDITIONING (Cont)			
25-20	Instrument Cooling Annunciator Light System			
	(1) PILOT INSTR COOL SYS	1	0	(M) May be inoperative provided:
				(a) Instrument Cooling System Diverter Valve operative.
				OR
				(b) Instrument Cooling System Diverter Valve is secure in the NORMAL (cold air plenum) position.
	(2) PILOT INSTR COOL FAN	1	0	(M) May be inoperative provided Instrument Cooling Fa is operative.
				NOTE: Fan is audible in the flight station.
25-21	Instrument Cooling Fan			
	(1) SB 093-21-121 Not Incorporated	1	0	(O) May be inoperative provided:
				(a) Electrical system is maintained in GND SERVIC mode while loading and unloading passengers, and
				(b) Repairs or replacements are carried out within three calendar days.
	(2) SB 093-21-121 or Production Equivalent Incorporated	1	0	May be inoperative.
25-22	Battery Cooling System	1	0	May be inoperative.

	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	DIAK		DATE: 15 APRIL 1994	21-7
(1) Syst	tem & Sequence Numbers	(2) Numl	ber Instal	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
25-34	Instrument Cooling System Diverter Valve	1	0	(M) May be inoperative provided:	
				(a) Instrument Cooling Fan is operative.	
				OR	
				(b) Instrument Cooling System Diverter Va in the Normal (cold air plenum) position	
25-35	Instrument Cooling System Differential Pressure Switch	1	0	(M) May be inoperative provided the Instru Annunciator Light System is operative.	iment Cooling
25-40	Instrument Cooling System Moisture Control Valve	1	0	(M) May be inoperative:	
				(a) Instrument Cooling System Divert operative.	er Valve is
				OR	
				(b) Instrument Cooling System Diverter Va OPEN (FESC air), and	alve is secured
				(c) The Instrument Cooling Fan is operativ	e.
27-00	Aft Cargo Compartment Ventilation System	1	0	(M) (O) May be inoperative provided:	
				 (a) Associated ventilation system airflow for Inlet Shutoff, Overboard Shutoff, a Bypass are secured CLOSED, and 	
				(b) Live animals are not carried in Compartment.	Aft Cargo
31-00	Cabin Pressure Control System				
	 Normal and Standby Outflow Valve Control and Actuation (AC Powered) 	-	_	(O) May be inoperative for either the Forwar Outflow Valve provided Manual Control and operative for both the Forward and Aft Cargo Compartment.	Actuation is
				(Cont)	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	21-8
(1) Syst	em & Sequence Numbers	(2) Num	ber Install	ed	
Item			(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
31-00	Cabin Pressure Control System (Cont.	.)			
	(2) Manual Outflow Valve Control and Actuation (DC Powered)	-	_	(O) May be inoperative for the Forward or Af Valve provided both Normal and Standby Con Actuation is operative for both the Forw Outflow Valves.	ntrol and
	(3) Normal, Standby and Manual Outflow Valve Control and Actuation	-	-	(M) (O) May be inoperative for either the For outflow Valve provided:	ward or Aft
	(AC and DC Powered)			(a) Associated valve is secured CLOSED.	
				(b) Normal, Standby and Manual Control a is operative for unaffected valve,	nd Actuation
				(c) Both Cabin Safety Valves are operative,	and
				(d) If Forward Outflow Valve is inoperativ Differential PRESSURE Sensing Syster the NO PRESSURE position.	
		-	-	(M) (O) Except for extended overwater operation inoperative for both the Forward and Aft Ou provided:	
				 (a) Both the Forward and Aft Outflow positioned OPEN to 12 o'clock as ind flight station indicator, 	
				(b) FESC Fan Differential Pressure Sensi placed in the NO PRESSURE position, a	
				(c) The aircraft is operated unpressurised.	
				NOTE: Refer to Flight Manual Limitations.	
32-01	Cabin Safety Valves	2	1	(M) One may be inoperative provided:	
				(a) Associated valve is secured CLOSED, as	nd
				(b) Cabin Pressure Control System Normal, Manual Control and Actuation is opera the Forward and Aft Outflow Valves.	

AIR	CRAFT: LOCKHEED L-1011 TR	ISTAR		REVISION NO: REVISION 1	PAGE:
		-		DATE: 15 APRIL 1994	21-9
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
21	AIR CONDITIONING (Cont)				
32-05	Cabin Safety Valve OPEN Lights	2	0	One or both may be inoperative.	
33-01	Cabin Altitude and Differential Pressure Indicator	1	0	(M) May be inoperative provided	
				(a) Flight is conducted unpressurised, and	
				(b) The Cabin Outflow Valve is secured O	OPEN.
	(1) ALTITUDE Indication	1	0	(O) May be inoperative provided:	
				(a) Cabin DIFFERENTIAL PRESSURE indicator is operative, and	portion of
				(b) A chart is provided to the crew to differential pressure to cabin altitude.	o convert ca
	(2) DIFFERENTIAL PRESSURE Indication	1	0	(O) May be inoperative provided:	
				(a) Cabin ALTITUDE portion of th operative, and	e indicator
				(b) A chart is provided to the crew to altitude to cabin differential pressure.	convert ca
33-02	Cabin Rate-of-Climb Indicator	1	0	May be inoperative provided:	
				(a) Cabin Pressure Control Systems Norm Control and Actuation is operative for and Aft Outflow Valves, and	
				(b) Cabin Altitude and Differential Press are operative.	sure Indicatio
41-02	Hot Air Manifold Temperature Control Valves	2	0	(M) (O) One or both may be inoperative pro	ovided:
				(a) Associated valve is secured CLOSED.	
				OR	
				(b) Associated Hot Air Manifold Isola secured CLOSED.	ation Valve

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:	
	LOCKHEED L-1011 IKI	ISTAK		DATE: 15 APRIL 1994	21-10
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
41-05	Hot Air Manifold Temperature Control Sensors	2	0	(M) (O) One or both may be inoperative pr	ovided:
				(a) Associated Hot Air Manifold Temp Valve is secured CLOSED.	erature Control
				OR	
				(b) Associated Hot Air Manifold Isol secured CLOSED.	ation Valve is
41-17	Hot Air Manifold Isolation Valves	2	1	(M) (O) One may be inoperative provided is determined to be either OPEN or CLOSE	
		2	0	(M) (O) One or both may be inoperative pr	ovided:
				(a) Associated valves are secured CLOSE	D, and
				(b) Associated ECS Temperature Indica HOT MANF is operative.	ting System for
41-19	Hot Air Manifold Duct Overtemperature Switch	1	0	(M) May be inoperative provided both Hot Temperature Control Valves are secured Cl	
43-00	Floor Heat System	1	0	(M) May be inoperative provided ass breakers are OPEN and COLLARED.	sociated circuit
44-00	Cargo Heating Systems				
	(1) Fans	3	0	(M) All may be inoperative provided:	
				(a) Associated Fan is deactivated, and	
				(b) Live animals are not carried in a compartment.	ssociated cargo
	(2) Cycling Switches	3	0	(M) All may be inoperative provided asso OPEN.	ciated switch is
	(3) Overtemperature Switches	3	0	(M) All may be inoperative provided assoc breaker is OPEN and COLLARED.	iated fan circuit
				(Cont)	

LOCKHEED L-1011 TRISTAR DATE: 15 APRIL 1994 21-11 (1) System & Sequence Numbers Item (2) Number required for despatch (3) Number required for despatch 21 AIR CONDITIONING (Cont) (3) Number required for despatch (4) Remarks or Exceptions 44-00 Cargo Heating Systems (Cont) (4) Cold Indication Switches 3 0 All may be inoperative provided live animals are carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated Prefow Control Valve is secured CLOSED. 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided the associated Prefow Control Valve is operative a is OPEN only in flight. (1) Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: (2) Associated Pack Torbine Bypass Valve is deactive operative. (c) Associated Pack Ram Air Exhaust System operative. (1) (1) (1) (1) (2) (2) (3) 1 (M) (O) Two may be inoperative provided: (a) Associated Pack Ram Air Exhaust System operative. (4) Associated Pack Ram Air Exhaust System operative. (b) Associated Pack Ram Air Exhaust System oper	AIR	CRAFT:	стар		REVISION NO: REVISION 1	PAGE:
Item (3) Number required for despatch 21 AIR CONDITIONING (Cont) (4) Remarks or Exceptions 44-00 Cargo Heating Systems (Cont) (4) Cold Indication Switches 3 0 All may be inoperative provided live animals are carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated Provided Interaction of the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 0 (M) All may be inoperative provided the associated Provided Interaction of the ground. 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: (a) Associated Pack Flow Control Valve is operative as is OPEN only in flight. (b) Associated Pack Ram Air Exhaust System operative, (c) Air Cycle Machines (ACM) 3 2 (M) (O) Two may be inoperative provided: (a) Associated Pack Ram Air Exhaust System operative, (c) Associated Pack Ram Air Exhaust System ACM DISCH is operative. (b) Associated Pack Ram Air Exhaust System and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust System and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust System operative,		LUCKHEED L-1011 IKI	SIAK		DATE: 15 APRIL 1994	21-11
(3) Number required for despatch 21 AIR CONDITIONING (Cont) (4) Cargo Heating Systems (Cont) (4) Cold Indication Switches 3 3 0 All may be inoperative provided live animals are carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated P. Flow Control Valve is secured CLOSED. 51-04 Ram Cooling Header and Check Valves 3 0 (M) (O) One may be inoperative provided the associated P. Flow Control Valve is secured CLOSED. 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: (a) Associated Pack Ram Air Exhaust System is OPEN wing pack MNL control operative. (c) Air Cycle Machines (ACM) 3 2 (f) (O) Two may be inoperative provided: (a) Associated Pack Ram Air Exhaust System operative. (c) Associated ECS Temperature Indicating System ACM DISCH is operative. 3 1 (M) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative. (b) Associated Pack Ram Ai	(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	led	
21 AIR CONDITIONING (Cont) (4) Remarks or Exceptions 44-00 Cargo Heating Systems (Cont) (4) Cold Indication Switches 3 0 All may be inoperative provided live animals are carried in the AR Cargo area when the AR Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 0 All may be inoperative provided live animals are carried in the AR Cargo area when the AR Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated Perflow Control Valve is secured CLOSED. 51-04 Ram Cooling Header and Check Valves 3 0 (M) All may be inoperative provided: 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 61 Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 61 Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative as is OPEN only in flight, (b) Associated Pack Tav 4 4 4 4 4 (c) Associated Pack Ram Air Exhaust System operative, 4 4		Item		(3) Nu	mber required for despatch	
21 AIR CONDITIONING (Cont) AII may be inoperative provided live animals are carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 44-00 Cargo Heating Systems (Cont) AII may be inoperative provided live animals are carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated Particle Provided the associated Particle Provided the associated Particle Provided in the ground. 51-04 Ram Cooling Header and Check Valves 3 0 (M) All may be inoperative provided the associated Particle Provided in the ground. 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 61-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 61-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 61-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: 61-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: (a) Associated Pack Tarbine Bypass Valve is deactive OPEN or remains OPEN using pack MNL control and (D) Associated Pack Turbine Bypass Valve is deactive OPEN or remai						
Image: Imade: Image: Image: Imade: Image: Image: Image: Image: Image: Image:						
 (4) Cold Indication Switches 3 0 All may be inoperative provided live animals are carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated Pactor CLOSED. 51-04 Ram Cooling Header and Check Valves 3 0 (M) All may be inoperative provided the associated Pactor CLOSED. 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: (a) Associated Pack Flow Control Valve is operative at is OPEN only in flight. (b) Associated Pack Ram Air Exhaust System operative. (c) Associated Pack Turbine Bypass Valve is deactive operative. (d) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative. (b) Associated Pack Flow Control Valves are operative. (c) Associated Pack Flow Control Valves are operative. (d) Associated Pack Flow Control Valves are operative. (e) Associated Pack Flow Control Valves are operative. (f) (f) (f) Two may be inoperative provided: (a) The operative ACM Pack Ram Air Exhaust System and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative. 	<u>21</u>					
 carried in the Aft Cargo area when the Aft Cargo Heat System is operative. 51-01 Pack Heat Exchangers 3 2 (M) One may be inoperative provided the associated Perflow Control Valve is secured CLOSED. 51-04 Ram Cooling Header and Check Valves 3 0 (M) All may be inoperative provided the associated Perflow Control Valve is secured CLOSED. 51-07 Pack Air Cycle Machines (ACM) 3 2 (M) (O) One may be inoperative provided: (a) Associated Pack Flow Control Valve is operative associated Pack Flow Control Valve is operative associated Pack Flow Control Valve is operative associated Pack Ram Air Exhaust System operative, (c) Associated Pack Ram Air Exhaust System ACM DISCH is operative. (a) Associated ECS Temperature Indicating System ACM DISCH is operative. (b) Associated Pack Flow Control Valves are operative. (c) Associated Pack Flow Control Valves are operative. (d) Associated Pack Flow Control Valves are operative. (e) Associated Pack Flow Control Valves are operative. (b) Associated Pack Flow Control Valves are operative. (c) Associated Pack Ram Air Exhaust System operative. (d) Associated Pack Flow Control Valves are operative. (e) Associated Pack Ram Air Exhaust Systems operative. 	44-00	Cargo Heating Systems (Cont)				
 Flow Control Valve is secured CLOSED. 51-04 Ram Cooling Header and Check Valves 3 (M) All may be inoperative provided the associated PACM is not operated on the ground. 51-07 Pack Air Cycle Machines (ACM) 2 (M) (O) One may be inoperative provided: (a) Associated Pack Flow Control Valve is operative a is OPEN only in flight, (b) Associated Pack Ram Air Exhaust System operative, (c) Associated Pack Turbine Bypass Valve is deactiva OPEN or remains OPEN using pack MNL contrand (d) Associated ECS Temperature Indicating System ACM DISCH is operative. (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operatiand are OPEN only in flight, 		(4) Cold Indication Switches	3	0	carried in the Aft Cargo area when the Aft Ca	
 ACM is not operated on the ground. 51-07 Pack Air Cycle Machines (ACM) 2 (M) (O) One may be inoperative provided: (a) Associated Pack Flow Control Valve is operative a is OPEN only in flight, (b) Associated Pack Ram Air Exhaust System operative, (c) Associated Pack Turbine Bypass Valve is deactive operative. (c) Associated ECS Temperature Indicating System ACM DISCH is operative. (d) Associated ECS Temperature Indicating System ACM DISCH is operative. (e) Associated Pack Turbine Bypass Valve is deactive. (f) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative. (b) Associated Pack Flow Control Valves are operative. (c) Associated Pack Ram Air Exhaust Systems operative, 	51-01	Pack Heat Exchangers	3	2		ociated Pack
 (a) Associated Pack Flow Control Valve is operative a is OPEN only in flight, (b) Associated Pack Ram Air Exhaust System operative, (c) Associated Pack Turbine Bypass Valve is deactiva OPEN or remains OPEN using pack MNL contrand (d) Associated ECS Temperature Indicating System ACM DISCH is operative. 3 I (M) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operat and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 	51-04	Ram Cooling Header and Check Valv	es 3	0		ociated Pack
 is OPEN only in flight, (b) Associated Pack Ram Air Exhaust System operative, (c) Associated Pack Turbine Bypass Valve is deactive OPEN or remains OPEN using pack MNL contrand (d) Associated ECS Temperature Indicating System ACM DISCH is operative. 3 1 (M) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operat and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 	51-07	Pack Air Cycle Machines (ACM)	3	2	(M) (O) One may be inoperative provided:	
 operative, (c) Associated Pack Turbine Bypass Valve is deactiva OPEN or remains OPEN using pack MNL contr and d) Associated ECS Temperature Indicating System ACM DISCH is operative. 3 1 (M) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operat and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 						operative and
 OPEN or remains OPEN using pack MNL contand (d) Associated ECS Temperature Indicating System ACM DISCH is operative. 3 1 (M) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operat and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 						System is
 ACM DISCH is operative. (M) (O) Two may be inoperative provided: (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operational and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 					OPEN or remains OPEN using pack M	
 (a) The operative ACM Pack Turbine Bypass Valve operative, (b) Associated Pack Flow Control Valves are operationand are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 	(g System for
 operative, (b) Associated Pack Flow Control Valves are operationand are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative, 			3	1	(M) (O) Two may be inoperative provided:	
and are OPEN only in flight, (c) Associated Pack Ram Air Exhaust Systems operative,						ass Valve is
operative,						are operative
(Cont)						Systems are
					(Cont)	

(1) System & Sequence Numbers Item (2) Number Installed (3) Number required for despatch (3) Number required for despatch (4) Remarks or Exceptions (5) Pack Air Cycle Machines (ACM) (Cont) (1) Pack Air Cycle Machines (ACM) (Cont) (2) Number Installed (3) Number required for despatch (4) Remarks or Exceptions (4) Remarks or Exceptions (5) Pack Air Cycle Machines (ACM) (Cont) (6) Associated Pack Turbine Bypass Valves are deactivated OPEN or remain OPEN using pack 1 Control (6) Associated ECS Temperature Indicating System ACM DISCH is operative, and (1) Aircraft is not operated more than 400 nautical 1 from a suitable airport. NOTE: A pack is considered to be operative even th the following are inoperative: PACK INLET, CMPR DISCH, TURB INLET indications, ar AUTO temperature control. (5) -22 Pack Water Separators 3 0 (O) All may be inoperative provided the associated P. TEMPERATURE CONTROL is operated in manual 1 on the ground. (6) Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Control Valve is CLOSEE OR OR	AIR	CRAFT:	CT A D		REVISION NO: REVISION 1	PAGE:
Item (3) Number required for despatch 21 AIR CONDITIONING (Cont) (4) Remarks or Exceptions 51-07 Pack Air Cycle Machines (ACM) (Cont) (d) Associated Pack Turbine Bypass Valves are deactivated OPEN or remain OPEN using pack I Control 51-07 Pack Air Cycle Machines (ACM) (Cont) (e) Associated FCS Temperature Indicating System ACM DISCH is operative, and (f) Aircraft is not operated more than 400 nautical I from a suitable airport. NOTE: A pack is considered to be operative even tha the following are inoperative: PACK INLET CMPR DISCH, TURB INLET indications, are AUTO temperature control. 51-22 Pack Water Separators 3 0 (0) All may be inoperative provided the associated P. TEMPERATURE CONTROL is operated in manual r on the ground. 61-00 Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, an - 0 (M) (O) May be inoperative provided:		LUCKHEED L-1011 IKI	SIAK		DATE: 15 APRIL 1994	21-12
21 AIR CONDITIONING (Cont) (3) Number required for despatch 51-07 Pack Air Cycle Machines (ACM) (Cont) (4) Remarks or Exceptions 51-07 Pack Air Cycle Machines (ACM) (Cont) (4) Associated Pack Turbine Bypass Valves are deactivated OPEN or remain OPEN using pack 7 Control 51-07 Pack Air Cycle Machines (ACM) (Cont) (4) Associated FCS Temperature Indicating System ACM DISCH is operative, and 51-07 Pack Water Separators 3 0 51-22 Pack Water Separators 3 0 51-22 Pack Water Separators 3 0 51-22 Pack Water Separators 3 0 61-00 Zone Trim Control Systems - 0 61-01 Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Control Valve is CLOSEE OR (b) Both Hot Air Manifold Isolation Valves CLOSED. 61-27 Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and	(1) Sys	tem & Sequence Numbers	(2) Numl	ber Install	ed	ł
21 AIR CONDITIONING (Cont) Image: Content of the second s		ltem		(3) Nu	mber required for despatch	
21 AIR CONDITIONING (Cont) Image: Content of the second s					(4) Remarks or Exceptions	
Image:						
ICont) Image: State of the state o	21					
(Cont) deactivated OPEN or remain OPEN using pack 1 (Control Associated ECS Temperature Indicating System ACM DISCH is operative, and (1) Aircraft is not operated more than 400 nautical 1 from a suitable airport. NOTE: A pack is considered to be operative even th the following are inoperative: PACK INLET CMPR DISCH, TURB INLET indications, an AUTO temperature control. 51-22 Pack Water Separators 3 0 (O) All may be inoperative provided the associated P. TEMPERATURE CONTROL is operated in manual 1 on the ground. 61-00 Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Control Valve is CLOSEE OR OR (c) Zone Trim Pressure Regulator and Shutoff Valve 61-27 Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and the operative provided is determined to be OPEN or CLOSED, and the operative provided is determined to be OPEN or CLOSED, and the operative provided is determined to be ope	<u> </u>					
(Cont) deactivated OPEN or remain OPEN using pack 1 (Control Associated ECS Temperature Indicating System ACM DISCH is operative, and (1) Aircraft is not operated more than 400 nautical 1 from a suitable airport. NOTE: A pack is considered to be operative even th the following are inoperative: PACK INLET CMPR DISCH, TURB INLET indications, an AUTO temperature control. 51-22 Pack Water Separators 3 0 (O) All may be inoperative provided the associated P. TEMPERATURE CONTROL is operated in manual 1 on the ground. 61-00 Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Control Valve is CLOSEE OR OR (c) Zone Trim Pressure Regulator and Shutoff Valve 61-27 Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and the operative provided is determined to be OPEN or CLOSED, and the operative provided is determined to be OPEN or CLOSED, and the operative provided is determined to be ope						
61-27 Zone Trim Pressure Regulator and 1 0 (M) (O) May be inoperative provided: (A) More is determined to be OPEN or CLOSED, and 61-27 Zone Trim Pressure Regulator and 1 0 (M) (O) May be inoperative provided: (A) May be inoperative provided: (A) May be inoperative provided: (A) Associated Zone Trim Pressure Regulator and	51-07				deactivated OPEN or remain OPEN u	
61-27 Zone Trim Pressure Regulator and 1 0 (M) (O) May be inoperative provided: (A) (M) (O) May be inoperative provided: (A) Valve is determined to be OPEN or CLOSED, an						ting System fo
51-22 Pack Water Separators 3 0 (O) All may be inoperative provided the associated P. TEMPERATURE CONTROL is operated in manual r on the ground. 61-00 Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Control Valve is CLOSED. (b) Both Hot Air Manifold Isolation Valves CLOSED. (c) Zone Trim Pressure Regulator and Shutoff Valve 61-27 Zone Trim Pressure Regulator and Shutoff Valve (a) Valve is determined to be OPEN or CLOSED, and Valve is determined to be OPEN or CLOSED, and Valve is determined to be OPEN or CLOSED.						00 nautical mile
61-00 Zone Trim Control Systems - 0 (M) (O) May be inoperative provided: (a) Associated Zone Trim Control Valve is CLOSED OR (b) Both Hot Air Manifold Isolation Valves CLOSED. OR (c) Zone Trim Pressure Regulator and Shutoff Valve 61-27 Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and the open of t					the following are inoperative: PA CMPR DISCH, TURB INLET ind	CK INLET,
 (a) Associated Zone Trim Control Valve is CLOSED OR (b) Both Hot Air Manifold Isolation Valves CLOSED. OR (c) Zone Trim Pressure Regulator and Shutoff Valve (d) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and 	51-22	Pack Water Separators	3	0	TEMPERATURE CONTROL is operated	
 61-27 Zone Trim Pressure Regulator and Shutoff Valve 61-27 Zone Trim Pressure Regulator and 1 61 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and CLOSED. 	61-00	Zone Trim Control Systems	-	0	(M) (O) May be inoperative provided:	
 61-27 Zone Trim Pressure Regulator and Shutoff Valve 61 - 27 Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and CLOSED, and CLOSED. 					(a) Associated Zone Trim Control Valve	is CLOSED.
 61-27 Zone Trim Pressure Regulator and Shutoff Valve 61-27 Market Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and 					OR	
 61-27 Zone Trim Pressure Regulator and Shutoff Value 61-27 Zone Trim Pressure Regulator and Shutoff Value 1 0 (M) (O) May be inoperative provided: (a) Value is determined to be OPEN or CLOSED, and 						on Valves ar
 61-27 Zone Trim Pressure Regulator and Shutoff Value 61-27 Zone Trim Pressure Regulator and Shutoff Value 1 0 (M) (O) May be inoperative provided: (a) Value is determined to be OPEN or CLOSED, and 					OR	
 61-27 Zone Trim Pressure Regulator and Shutoff Valve 1 0 (M) (O) May be inoperative provided: (a) Valve is determined to be OPEN or CLOSED, and 						1. 4. 60 17 1
Shutoff Valve (a) Valve is determined to be OPEN or CLOSED, and						Shutoff Valve 1
	61-27		1	0	(M) (O) May be inoperative provided:	
(b) Valve position is noted on placard.					(a) Valve is determined to be OPEN or C	LOSED, and
					(b) Valve position is noted on placard.	
NOTE: When valve is CLOSED all trim air is shut of					NOTE: When valve is CLOSED all trim a	ir is shut off.

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:	
	LUCKHEED L-1011 1	KISTAK		DATE: 15 APRIL 1994	21-13
(1) Sys	tem & Sequence Numbers	(2) Numb	per Install	ed	1
	Item		(3) Nu	mber required for despatch	
			()	(4) Remarks or Exceptions	
21					
<u>21</u>	<u>AIR CONDITIONING</u> (Cont)				
	<u></u>				
62-01	Pack Temperature Controllers	3	0	(O) All may be inoperative provided:	
				(a) Associated ECS Temperature Indicati CPRSR DISCH and ACM DISCH are	
				(b) Associated Pack Manual Control Sys operative.	stem is verified
62-04	Pack Ram Air Exhaust Systems (Actuator and Louvers)	3	2	(M) One may be inoperative provided asso System is deactivated.	ociated Exhaus
		3	1	(M) Two may be inoperative provided:	
				(a) One associated system is secured position, and	in the MID
				(b) Other associated system is CLOSED.	
62-16	Pack Turbine Bypass Valves	3	1	(M) (O) Two may be inoperative provided:	
				(a) All three Pack ACM's and associated operative,	components are
				(b) Associated valve is secured OPEN,	
				(c) Associated Pack Ram Air Exhau operative,	ist System is
				(d) Associated Turbine Bypass Posit System is operative, and	ion Indicating
				(e) Associated ACM DISCH temperature	is monitored.
62-19	Pack Ice Sensors	3	0	(O) All may be inoperative provided a Temperature Indicating System for AC operative.	
62-22	Auto Control Pack Discharge	3	0	(O) All may be inoperative provided a Temperature Controller is considered inoper	

AIR	CRAFT: LOCKHEED L-1011 TRI			REVISION NO: REVISION 1	PAGE:		
	LOCKITEED L-TOTT TR	ISTAK		DATE: 15 APRIL 1994	21-14		
(1) Sys	tem & Sequence Numbers	(2) Number Installed					
	Item		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>21</u>	AIR CONDITIONING (Cont)						
	<u>(••••••••</u>						
62-28	Valve Position Indicating Systems						
	(1) RAM AIR	3	1	Two may be inoperative provided association indicator is operative if only one Pack Ra System is operative.			
	(2) TURB BYP	3	1	Two may be inoperative provided associat indicator is operative if only one Pack T Valve is operative.			
62-31	Humidity Control System (Dehumidification)	1	0	May be inoperative			
63-03	Pack Flow Indicating Systems	3	0	All may be inoperative.			
63-09	Environmental Control System (ECS) Temperature Indicating Systems	15	0	All may be inoperative.			
63-27	Cabin Temperature Indicating	1	0	May be inoperative provided associated EC Indicating System for ACM DISCH is operative			
70-00	Humidity Regulation System	1	0	May be inoperative.			

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:				
	LOCKHEED L-1011 IKI	SIAK		DATE: 15 APRIL 1994	22-1			
(1) Sys	tem & Sequence Numbers	(2) Numb	(2) Number Installed					
	Item		(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>22</u>	AUTO FLIGHT							
00-01	Flight Control Electronics System (FCES) Computers (Digital AFCS)	2	1	(O) May be inoperative provided:				
				(a) A YAW SAS Channel is operative, and				
				(b) Approach minima do not require dual a	utopilot use.			
00-03	Glareshield Mode Control Panel Functions (Digital AFCS)							
	(1) Autothrottle Alpha and Numeric Displays	2	0	(O) One or both may be inoperative provided	l:			
				(a) AT mode is considered inoperative, and				
				(b) Approach minima do not require autothrottle use.				
				NOTE: If TM Mode is available, it may be PMS or FMS CDU.	selected using			
	(2) Pitch Alpha and Numeric	2	0	(O) One or both may be inoperative provided	l:			
	Displays			(a) Glareshield panel switchlight illumina operative pitch mode selected,	tions for each			
				(b) AFCS Mode Annunciators for each Pitare operative on both pilot's panels.	tch mode used			
				(c) Vertical Speed Control Wheel properly flight director pitch command or considered inoperative, and				
				(d) If VNAV Mode is used, PMS or l operative.	FMS CDU is			
	(3) Heading Numeric Display	1	0	(O) May be inoperative provided:				
				(a) Glareshield panel HDG mode switchlig if selected,	ght illuminates			
				(b) AFCS Mode Annunciators for HD operative on both pilot's panels or the considered inoperative, and				
				(c) Heading select knob operates both bugs.	HSI headings			
				(cont)				

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	22-2
(1) Syst	em & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
00-03	Glareshield Mode Control Panel Functions (Digital AFCS) (Cont)				
	(4) Course Numeric Displays	2	0	(O) One or both may be inoperative provided:	
				(a) Glareshield panel switchlight illumina operative Navigation Mode selected,	tes for each
				(b) AFCS Mode Annunciators for each Nav used are operative on both pilot's panels,	
				(c) Each Course-Set Knob operates its re- Course Pointer.	spective HSI
	(5) Select Altitude Numeric Display	1	0	(O) May be inoperative provided FMS or PMS and selected altitude is continuously displayed or PMS CDU.	
	 (6) AFCS Mode Selectors AT TM VNAV VS ALT IAS 	1	0	(O) May be inoperative provided FMS or PMS and selected altitude is continuously displayed or PMS CDU.	
	MACH HDG TURB	-	0	May be inoperative provided approach minima require its use.	a do not
	ILS LOC VOR INS BC			NOTE: Refer to Flight Manual Procedures and landing equipment requirements.	
	(7) Course-Set Knobs (COURSE 1, COURSE 2)	2	1	(O) One may be inoperative provided:	
				(a) Associated knob properly controls ass Course Pointer,	sociated HSI
				(b) RDDMI VOR function is operative for station display on associated pilot's panel	
				(c) Aircraft is operated in VMC only, and	
				(d) Repairs or replacements are carried out calendar days.	within three
				(Cont)	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	22-3
(1) Syst	tem & Sequence Numbers	(2) Numb	er Install	ed	
	Item	ļ	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
00-03	Glareshield Mode Control Panel Functions (Digital AFCS) (Cont)				
	(8) Autopilot Engage Switches (Bat Handles)	2	0	One or both may be inoperative provided:	
				(a) Associated autopilot system is inoperative, and	considered
				(b) Approach minima do not require autopilo	ot use.
00-05	Power Supply Units (Digital AFCS)	2	1	(O) One may be inoperative provided:	
				(a) A YAW SAS Channel is operative,	
				(b) Associated APFDS is considered inopera	tive, and
				(c) Approach minima do not require autopilo	ot use.
10-00	Autopilot and Flight Director Systems (APFDS)				
	(1) Autopilots	2	0	One or both may be inoperative provided appr do not require autopilot use.	oach minima
	(2) Flight Directors	2	0	One or both may be inoperative provided appr do not require flight director use.	oach minima
10-01	Autopilot Engage Switches (Bat Handles) (Analog AFCS)	2	0	One or both may be inoperative provided:	
				(a) Associated autopilot is considered inoper	ative, and
				(b) Approach minima do not require autopilo	ot use.
10-02	Nav Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob	2	1	(O) One may be inoperative provided:	
				(a) Associated knob properly controls ass Course Pointer or glareshield panel course	
				(b) VOR SPLIT-1-2 function is operative,	
				(Cont)	

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRI	ISTAR		DATE: 15 APRIL 1994	22-4
tem & Sequence Numbers	(2) Numbe	er Install	ed	1
ltem	_ r	(3) Nu	mber required for despatch	
			(4) Remarks or Exceptions	
AUTO FLIGHT (Cont)				
Nav Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob (Cont)			(c) RDDMI VOR function is operative for b station display on associated pilot's panel	
			(d) Aircraft is operated in VMC only, and	
			(e) Repairs or replacements are carried out calendar days.	within three
AFCS Mode Selectors (Analog AFCS) TM (THR MGT) VS ALT IAS VNAV or MACH HDGTURB A/L APR LOC NAV GLARESHIELD VERTICAL SPEED INDICATOR	-	0	 (O) May be inoperative provided approach mirequire its use. <u>NOTE:</u> Refer to Flight Manual Procedures for and Landing equipment requirements 	r Approach
AFCS Mode Annunciators	-	0	(O) May be inoperative provided:	
 (1) Analog AFCS HDG SEL V NAV or R NAV VS TURB IAS THR MGT 			 (a) Associated AFCS Mode or engage switch operative, and (b) Approach minima do not require use of a annunciator. 	-
MACH TEST				
(2) Digital AFCS HDG V NAV VS TURB M/IAS THR MGT INS BCK CRS			<u>NOTE:</u> Refer to Flight Manual Procedures fo and landing equipment requirements.	r approach
AFCS Warning Annunciators				
(1) ALERT Lights	2	1	First Officer's may be inoperative provided a AFCS Warning Annunciators on both in operative. (Cont)	
	tem & Sequence Numbers Item AUTO FLIGHT (Cont) AATCS Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob (Cont) AFCS Mode Selectors (Analog AFCS) TM (THR MGT) VS ALT IAS VNAV or MACH HDGTURB A/L APR LOC NAV GLARESHIELD VERTICAL SPEED INDICATOR AFCS Mode Annunciators (1) Analog AFCS HDG SEL V NAV or R NAV VS TURB IAS THR MGT MACH TEST (2) Digital AFCS HDG V NAV VS TURB M/IAS THR MGT INS BCK CRS	ItemAUTO FLIGHT (Cont)Nav Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob (Cont)AFCS Mode Selectors (Analog AFCS) TM (THR MGT) VS ALT IAS VNAV or MACH HDGTURB A/L APR LOC NAV GLARESHIELD VERTICAL SPEED INDICATORAFCS Mode AnnunciatorsAFCS Mode Annunciators(1) Analog AFCS HDG SEL V NAV or R NAV VS TURB IAS THR MGT MACH TEST(2) Digital AFCS HDG V NAV VS TURB M/IAS THR MGT INS BCK CRSAFCS Warning Annunciators	tem & Sequence Numbers (2) Number Install Item (3) Nu AUTO FLIGHT (Cont) (3) Nu Nav Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob (Cont) - AFCS Mode Selectors - (Analog AFCS) TM (THR MGT) VS ALT IAS VNAV or MACH HDGTURB A/L APR LOC NAV GLARESHIELD VERTICAL SPEED INDICATOR - 0 AFCS Mode Annunciators - 0 (1) Analog AFCS HDG SEL V NAV or R NAV VS TURB IAS THR MGT MACH TEST - 0 (2) Digital AFCS HDG V NAV VS TURB M/AS THR MGT INS BCK CRS - 0 AFCS Warning Annunciators - 0	DATE: 15 APRIL 1994 Item (2) Number Installed AUTO FLIGHT (Cont) (3) Number required for despatch AUTO FLIGHT (Cont) (4) Remarks or Exceptions Nav Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob (Cont) (c) RDDMI VOR function is operative for b station display on associated pilot's panel (Cont) AFCS Mode Selectors (Cont) - 0 (d) Aircraft is operated in VMC only, and (e) Repairs or replacements are carried out calendar days. AFCS Mode Selectors (Cont) - 0 (O) May be inoperative provided approach mi require its use. NDGTURB - 0 (O) May be inoperative provided approach mi require its use. NOTE: Refer to Flight Manual Procedures for and Landing equipment requirements AL APR LOC NAV GLARESHIED VERTICAL SPEED INDICATOR - 0 (O) May be inoperative provided: (1) Analog AFCS - 0 (D) May be inoperative provided: (a) Associated AFCS Mode or engage switch operative, and (b) Approach minima do not require use of a annunciator. (2) Digital AFCS 2 1 NOTE: Refer to Flight Manual Procedures fo and landing equipment requirements. (1) ALERT Lights 2 1 First Officer's may be inoperative provided i AFCS Warning Annunciators on both in operative.

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	22-5
(1) Sys	tem & Sequence Numbers	(2) Number	Installe	ed	1
	Item		3) Nur	nber required for despatch	
] [`		(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
10-06	AFCS Warning Annunciators (Cont)				
	(1) ALERT Lights (Cont)	2	0	One or both may be inoperative provided:	
				(a) Both Autopilot Systems are considered and not used,	1 inoperative
				(b) ATS/AT/TM Systems are considered ino	perative, and
				(c) Approach minima do not require use Autothrottle or Speed Control Systems.	of Autopilot,
	(2) AP DISC	2	0	One or both may be inoperative provided:	
				(a) Captain's ALERT light and autopilot dis- warning is operative.	connect aural
				OR	
				(b) Both Autopilot Systems are considered in	operative.
	(3) NO DUAL	2	0	One or both may be inoperative provided appr do not require use of dual autoland.	oach minima
	(4) AP LIMIT	2	0	One or both may be inoperative provided:	
				(a) Associated Auto-Trim Out-of-Trin Indicators are operative.	n Warning
				OR	
				(b) Both Autopilot Systems are considered in	noperative.
	(5) NO ALIGN	2	0	One or both may be inoperative provided appr do not require use of Align mode.	oach minima
	(6) ATS DISC	2	1	One may be inoperative provided both ALER operative.	CT Lights are
		2	0	One or both may be inoperative provided Systems are considered inoperative.	ATS/AT/TM
				(Cont)	

AIR	CRAFT: LOCKHEED L-1011 TR	ISTAR		REVISION NO: REVISION 1	PAGE:				
		-		DATE: 15 APRIL 1994	22-6				
(1) Sys	tem & Sequence Numbers Item	(2) Num	(2) Number Installed						
	Item	_	(3) Nu	mber required for despatch					
				(4) Remarks or Exceptions					
<u>22</u>	AUTO FLIGHT (Cont)								
10-06	AFCS Warning Annunciators (Cont)								
	(7) NO GA	2	1	First Officer's may be inoperative provided Lights are operative.	l both ALER				
		2	0	One or both may be inoperative provided around placarded inoperative and not used.	automatic go				
	(8) SPLIT (Digital AFCS)	2	1	First Officer's may be inoperative provided Lights are operative.	l both ALER				
		2	0	One or both may be inoperative provided a Annunciators are operative.	ll AFCS Mod				
	(9) NO FLARE (Analog AFCS)	2	0	One or both may be inoperative.					
	(10) CMD DISC	2	1	First Officer's may be inoperative provided Lights are operative.	l both ALER				
		2	0	One or both may be inoperative provided Systems are considered inoperative.	both Autopilo				
10-07	Flight Control Electronic Systems (FCES) Panel Switchlights								
	(1) Pitch Trim/Mach Trim/ATS OFF Lights	6	0	Any or all may be inoperative.					
	(2) Pitch Trim/Mach Trim/ATS/MDLC/DLC/ Auto SPLR FAIL Lights	-	0	May be inoperative provided associated FCE considered inoperative and is not engaged.	ES Channel is				
	(3) YAW FIRST FAIL Light (-3)	1	0	May be inoperative provided two YAW SAS operative.	S Channels an				

AIR	CRAFT: LOCKHEED L-1011 TRIS			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 1KI	STAK		DATE: 15 APRIL 1994	22-7
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Install	ed	
	Item	-	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
10-12	Flight Control Auxiliary Unit (FCAU) Switches and Status Flight	15	0	(M) May be inoperative provided:	
	Lights			(a) Surface Position Indicator (SPI) System and	n is operative,
				(b) Associated switch or status/fault light d any other system or equipment inoperat	
10-21	Autopilot Disconnect Switches (Control Wheel)	2	1	One may be inoperative provided:	
				(a) Pilot using Autopilot has an operative disconnect switch, and	erative wheel
				(b) Autopilot is not used below 1,500 feet A	AGL.
10-24	ILS Deviation Lights	2	0	One or both may be inoperative.	
11-00	Autopilot and Flight Director Pitch Systems (Digital AFCS)				
	(1) Pitch Axis Channels	2	0	One or both may be inoperative provid APFDS is considered inoperative.	ed associated
11-01	Pitch AFCS Computers (Analog AFCS)	2	0	One or both may be inoperative provided ass APFDS is considered inoperative.	ociated
11-03	Altitude Alert Systems (Analog and Digital AFCS)				
	(1) NORM and STBY Modes	2	1	(O) One may be inoperative provided:	
				(a) Remaining system is verified operative takeoff, and	e before each
				(b) All altitude alert functions of the operative.	
	(2) Autopilot and Flight Director Altitude Capture Functions	2	0	One or both may be inoperative.	

AIR	CRAFT: LOCKHEED L-1011 TRI	CTAD		REVISION NO: REVISION 1	PAGE:
	LOCKHEED E-1011 IK	STAK		DATE: 15 APRIL 1994	22-8
(1) Sys	tem & Sequence Numbers	(2) Num	ber Insta	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
11-05	Autopilot Pitch Servos (Dual Servo Assembly)	2	0	One or both may be inoperative provid APFDS is considered inoperative.	ed associated
13-00	Autopilot and Flight Director Roll Axis Channels (Digital AFCS)	2	0	One or both may be inoperative provid APFDS is considered inoperative.	ed associated
13-01	Roll AFCS Computers (Analog AFCS)	2	0	One or both may be inoperative association considered inoperative.	ated APFDS is
13-02	Roll Lateral Accelerometers (Triple)	3	0	(M) (O) Any or all may be inoperative minima do not require the use of APF rendered inoperative.	
				NOTE: Modes rendered inoperative: (Analog AFCS) A/L APR	(Digital AFCS) ILS
13-03	Roll AFCS Transducers (Left Inboard Aileron)	2	1	(M) (O) One may be inoperative provide	ded
	hibbard Aneron)			(a) Associated autopilot is considered not used, and	ed inoperative and is
				(b) YAW SAS Channel is operative.	
				NOTE 1: Digital AFCS - Do not p CMPTR circuit breaker, si activate ACS FIRST FAI Associated Altitude Alert Autothrottle System Chan inoperative.	ince that will L annunciator light System and
				NOTE 2: Analog AFCS - Do not p SAS circuit breaker, since ACS FIRST FAIL annunc	that will activate
		I		I	

AIR	CRAFT:			REVISION N	NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	ISTAR		DATE: 15	5 APRIL 1994	22-9
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	led		1
	Item		(3) Nu	mber required for	despatch	
				(4) Remarks or	r Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)					
15-00	YAW SAS Computers (Analog AFCS) or YAW SAS Channels (Digital AFCS)	2	1	(O) May be require its u	inoperative provided approach ise.	minima do not
				NOTE 1:	Digital AFCS - Do not pull a CMPTR circuit breaker, since activate ACS FIRST FAIL ar Associated Altitude Alert Syste Autothrottle System Channel v inoperative.	that will nunciator light em and
				NOTE 2:	Analog AFCS - Do not pull a SAS circuit breaker, since that ACS FIRST FAIL annunciator	will activate
				NOTE 3:	Depending on the failure:	
					(1) Associated APFDS may Despatch in accordance w	
					(2) Some AFCS Mode Annun AFCS Warning Annunciat associated side may be inc Despatch in accordance w	tors on the perative.
				NOTE 4:	Refer to Flight Manual Proced approach and landing equipme requirements.	
15-02	Yaw Rate Gyros	3	2		e inoperative provided approach l autopilot use.	n minima do no
				NOTE 1:	For analog autopilots, the DUA AVAIL light on the Caution/W will be illuminated.	
				NOTE 2:	For digital autopilots, the APF FAIL light on the Caution/Wa be illuminated.	
				NOTE 3:	Refer to Flight Manual Proced approach and landing equipme requirements.	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	22-10
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
15-03	Rudder Position Transducers (Dual)	2	0	One or both may be inoperative provided a do not require the use of ALIGN or ROLLO	
17-00	Spoiler Control Systems				
	(1) Direct Lift Control (DLC) Systems (-1, -14, -15)	2	0	(O) One or both may be inoperative provide	ed:
				(a) Associated Auto Ground Spoile considered inoperative, and	er System is
				(b) Approach minima do not require use o	f autoland.
				NOTE: See Flight Manual Performance with both DLC Systems inoperativ	
	 (2) Direct Lift Control/ Manoeuvring Direct Lift Control (DLC/MDLC) Systems (-3) 			NOT USED	
	(3) Auto Ground Spoiler(AGS) Systems	2	0	(M) (O) One or both may be inoperative pro System is verified operative before each flig	
				NOTE: Refer to Flight Manual Performan with AGS System inoperative and degrees flap.	1
17-01	G-Sensitive Stick Shaker Channels (Activation Circuit) (-3)			NOT USED	
17-02	Primary Flight Control system (PFCS) Monitors				
	(1) Roll Channels	2	1	(O) One may be inoperative provided:	
				(a) Associated channel switchlight remain	s OFF,
				(b) Surface Position Indicating System is	operative, and
				(c) Operative channel switchlight is latch FAIL and OFF lights are operative.	ned IN, and the
				(Cont)	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	22-11
(1) Sys	tem & Sequence Numbers	(2) Numbe	r Installe		
	Item		(0) N		
		-	(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
17-02	Primary Flight Control System (PFCS) Monitors (Cont)				
	(2) Pitch Channels	2	1	(M) (O) One may be inoperative provided:	
				(a) Associated channel switchlight remains (OFF,
				(b) Surface Position Indicating System is op	
				(c) Operative channel switchlight is latched FAIL and OFF Lights are operative, and	
				(d) Jam and Open Cable Detectors of t channel are verified operative before the each day.	
17-16	Stall Warning Systems			NOT USED.	
18-00	Trim Augmentation Systems				
	(1) Proportional/Auto Pitch Trim System Channels	2	1	(O) One may be inoperative provided Auto-Tr monitored during Auto Pilot use.	im is
	(2) Surface Position Indicator Auto-Trim Out-of-Trim Warning Indicators	2	0	(O) One or both may be inoperative provided monitored during Auto Pilot use.	Auto-Trim is
21-01	Mach Trim System Channels	2	1	(O) One may be inoperative provided one operative.	autopilot is
		2	0	(O) One or both may be inoperative pr autopilots are operative.	ovided both
				NOTE: Refer to Flight Manual Limitations with both Mach Trim Systems inoper	

AIR	CRAFT: LOCKHEED L-1011 TRIS			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	SIAK		DATE: 15 APRIL 1994	22-12
(1) Syst	em & Sequence Numbers	(2) Num	ber Install	led	ł
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
21-02	Mach Feel System Channels	2	1	(O) One may be inoperative provided:	
				(a) Operative channel switchlight is latched	ed IN, and
				(b) FAIL and OFF Lights are operative.	
				NOTE: Refer to Flight Manual Limitations information should operative chan- route.	
31-00	Autothrottle System (ATS) Channels	2	0	(M) (O) One or both may be inoperative pro	ovided:
	(Analog AFCS) or Autothrottle and Thrust Management System (AT & TM) Channels (Digital AFCS)			(a) Approach minima do not require use of autothrottle system, and	f associated
				(b) Throttle handling characteristics are affected (binding, creeping, etc) by A TM deactivation.	
				NOTE: With AT & TM Channels inoperat associated Speed Control System S indication will be inoperative.	
31-05	Longitudinal Accelerometers	2	0	(O) One or both may be inoperative provide	ed:
				(a) Associated ATS or AT & TM Chann inoperative,	el is considered
				(b) Associated TO & GA modes inoperative, and	are considered
				(c) Automatic Braking System is consider	ed inoperative.
31-07	Speed Control System (SCS) Computer (Analog AFCS)	1	0	(O) May be inoperative provided:	
				(a) Both Autothrottle System Channels inoperative, and	are considered
				(b) Automatic Braking System is consider	ed inoperative.

AIR	CRAFT: LOCKHEED L-1011 TRIS	STAD		REVISION NO: REVISION 1	PAGE:
				DATE: 15 APRIL 1994	22-13
(1) Syst	tem & Sequence Numbers Item	(2) Num	ber Insta	led	
	item		(3) Ni	umber required for despatch	
				(4) Remarks or Exceptions	
<u>22</u>	AUTO FLIGHT (Cont)				
31-08	ATS DISC Switches (On Throttles)	2	0	(O) One or both may be inoperative provide are controlled using glareshield or FCES corNOTE: ATS or AT & TM may be operated	trol switches.
				DISC Switches inoperative.	with ATS
31-09	Flight Management System Thrust Management Mode	1	0	May be inoperative.	
40-00	Fault Isolation Data Display System (FIDDS) (Digital AFCS) (-3)	1	0	May be inoperative.	
70-00	Active Control System (ACS) Channels (-3)	2	1	(O) One may be inoperative, or an ACS FIR may be illuminated provided operations are accordance with appropriate Flight Manual A	e conducted in
		2	0	(M) (O) One or both may be inoperations and maintenance are conducted with appropriate Flight Manual Appendix.	

Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

INTENTIONALLY LEFT BLANK

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	ISTAR		DATE: 15 APRIL 1994	23-1
(1) Sys	tem & Sequence Numbers	(2) Number	Install	ed	
	Item		(3) Nui	mber required for despatch	
				(4) Remarks or Exceptions	
<u>23</u>	COMMUNICATIONS				
11-00	Communications Systems				
	(1) VHF	-	-	As required by Air Navigation Legislation.	
	(2) HF	-	-	As required by Air Navigation Legislation.	
	(3) UHF	-	-	As required by Air Navigation Legislation.	
22-00	SELCAL	-	0	 (O) May be inoperative provided: (a) Procedures do not require its use. OR (b) Flight Crew continuously monitors apprendiction frequencies. 	propriate radio
31-00	Passenger Address (PA) System	1	0	 (O) As required by Air Navigation Legisla inoperative provided: (a) Cabin Interphone System is operative, a (b) Chime System is operative, and (c) Alternate normal and emergency p established and utilised, and (d) Aircraft may continue the flight or see but shall not depart an airport where made and shall not exceed 25 flight completion of repairs. May be inoperative for all-cargo operations carriage requires persons to be in attendance. 	nd rocedures are rries of flights repairs can be hours prior to s unless cargo

AIR	CRAFT: LOCKHEED L-1011 TRIS	STAD		REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 IKI	JIAK		DATE: 15 APRIL 1994	23-2
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
23	COMMUNICATIONS				
	<u>(Cont)</u>				
41.00					
41-00	Interphone System				
	(1) Cabin	1	0	(O) May be inoperative provided:	
				(a) Alternate, Normal and Emergency established and used, and	procedures an
				(b) The Passenger Address System is ope	rative.
	(2) Lower Galley	1	0	May be inoperative provided:	
				(a) Lower Galley is not occupied during t	axi,
				(b) Cabin Interphone System is operative	, and
				(c) Passenger Address System is operativ	e.
	(3) Lower Passenger Lounge	1	0	(O) May be inoperative provided lounge is	not occupied.
41-04	Flight Attendant Cockpit Call Signal	1	0	(O) May be inoperative provided:	
	System			(a) Alternate, Normal and Emergency established and used,	procedures as
				(b) Passenger Address System is operativ	e, and
				(c) Cabin Interphone System is operative.	
43-00	Ground Service Interphone System	1	0	(O) May be inoperative provided:	
				(a) Procedures are not dependent upon its	use.
				OR	
				(b) Alternate procedures are established a	nd used.
51-00	Flight Interphone System				
	(1) Flight Deck Intercom	1	1	As required by Air Navigation Legislat operative for all crew members on Flight D	
	(2) Flight Deck to Ground	1	0	May be inoperative provided procedures an upon its use.	e not depende

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TF	AISTAR		DATE: 15 APRIL 1994	23-3
(1) Syst	tem & Sequence Numbers	(2) Num	ber Instal	led	I
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>23</u>					
	<u>(Cont)</u>				
51-03	Audio Distribution Unit			NOT USED.	
51-04	Audio Selector Panels	-	-	One required for each crew member on fli	ght deck duty.
51-05	Headsets	-	-	One headset (including boom microp operative for each crew member on flight	
51-07	Hand Held Microphones	-	-	Any or all may be inoperative.	
51-08	Flight Station Oxygen Mask Microphones	-	-	As required by Air Navigation Legislation	
51-11	Flight Deck Speaker System				
	(1) Communications	-	-	May be inoperative for communications p each required crew member has an operati	
	(2) Aural Warning Alerts	-	-	May be inoperative provided all appropriate functions are operating normally and the a warnings are available to the crew, by reloudspeakers.	ssociated audible
71-00	Cockpit Voice Recorder System (CVR)	1	0	As required by Air Navigation Legislation inoperative provided:	. May be
				(a) It is not reasonably practical to r before commencement of the flight.	repair or replace
				(b) The aircraft shall not exceed six flights with the CVR unserviceable the first flight after the CVR wa throughout the flight.	e beginning with
				(c) The aircraft shall not fly for more th the CVR becomes unserviceable.	an 16 hours afte
				(d) Not more than 24 hours have elapse becomes unserviceable.	d since the CVF
				(Cont)	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	23-4
(1) Syst	tem & Sequence Numbers	(2) Number	I Installe		1
	Item		(2) Num	nber required for despatch	
		1 '			
				(4) Remarks or Exceptions	
<u>23</u>	COMMUNICATIONS				
	<u>(Cont)</u>				
71-00	Cockpit Voice Recorder System (CVR) (Cont)			(e) The aircraft must not depart from its ma base with the CVR unserviceable, and(f) The Flight Data Recorder must normally.	
99-00	ARINC	1	0	May be inoperative provided:	
	Communications Addressing and Reporting Systems (ACARS)			(a) Procedures do not require its use.	
				OR	
				(b) Alternate procedures are established and	l used.

AIK	CRAFT: LOCKHEED L-1011 TRIS	STAD		REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TKI	JIAK		DATE: 15 APRIL 1994	25-1
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	ed	-
	Item		(3) Nu	mber required for despatch	
]		(4) Remarks or Exceptions	
24	ELECTRICAL POWER				
11-10	IDG Oil Temperature Indicating Systems	3	2	One may be inoperative provided:	
				(a) Associated IDG Load Indicating System	m is operative
				(b) Associated IDG Oil LOW PRESS L operative, and	ight System
				(c) Associated IDG Oil Overtemperatu operative.	are Switch
				NOTE: Sundstrand Aviation SB 24-1436 in Overtemperature Switch to IDG Oi Light System.	
11-11	IDG Real Load Division Controllers	3	0	(O) All may be inoperative provided e generator and its bus is operated isolated fr Bus.	
14-03	IDG Oil Overtemperature Switches				
	 Sundstrand Aviation SB 24- 1436 or Production Equivalent Incorporated 	3	0	All may be inoperative provided associated associated considered inoperative.	IDG is
14-04	IDG Oil LOW PRESS Light Systems	3	2	One may be inoperative provided associon considered inoperative.	ciated IDG
20-01	Generator Fault Annunciator Panel (Service Centre	1	0	May be inoperative provided maintenance provided ma	rocedures do
21-01	Integrated Driven Generators (IDG)				
	 APU Generator Operative [Lockheed Test Report EL/83-75-072 (British Airways Mod 24C270) Incorporated] 	3	2	 (M) (O) One may be inoperative provided: (a) APU Generator System is placed on the or below 10,000 feet MSL, (b) Auto-Manual Control Functions operative for operative systems, (Cont) 	e tie bus at or are verifi

AIRCRAFT:		REVISION NO: REVISION 1	AGE:
LOCKHEED L-1011 TRIS	STAR	DATE: 15 APRIL 1994	25-2
(1) System & Sequence Numbers	(2) Number	r Installed	
Item		(3) Number required for despatch	
		(4) Remarks or Exceptions	
24 ELECTRICAL POWER (Cont)			
21-01 Integrated Driven Generators (IDG) (Cont)			
 (1) APU Generator Operative [Lockheed Test Report EL/83-75-072 (British Airways Mod 24C270) Incorporated] (Cont) 		 (c) Total electrical load remains below 120 KW APU Generator is not operating, and (d) Repairs or replacements are carried out within three calendar days. NOTE: Refer to Flight Manual for operation with inoperative IDG and for electrical load re- should an additional IDG become inoperation 	in h an eduction
(2) APU Generator Inoperative [Lockheed Test Report EL/83-75-072 (British Airways Mod 24C270) Incorporated]	3	 2 (M) (O) One may be inoperative provided: (a) Aircraft is not operated more than 400 NM fisuitable airport, (b) Auto/Manual Control Functions are verified on operative systems, (c) Bus tie and over load protection systems are operative, (d) Total electrical load remains below 81 K below 10,000 feet MSL, and below 120 K above 10,000 feet MSL, and (e) Repairs or replacements are carried out with calendar days. NOTE: Refer to Flight Manual for operation with inoperative IDG and for electrical load should an additional IDG become inoperation 	operative e verified CW at or CW when thin three h an reduction

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
				DATE: 15 APRIL 1994	25-3
(1) Sys	(1) System & Sequence Numbers (2) Number Ir			led	•
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>24</u>	ELECTRICAL POWER (Cont)				
21-05	IDG Generator Controller Units (GCU) [Lockheed Test Report EL/83-75- 072 (British Airways Mod 24C270) Incorporated]	3	2	 One may be inoperative provided: (a) Associated IDG is considered inoperativ (b) Repairs or replacements are carried out calendar days. 	
21-07	IDG Generator Breakers (GB) [Lockheed Test Report EL/83-75- 072 (British Airways Mod 24C270) Incorporated]	3	2	 (M) (O) One may be inoperative provided: (a) Affected GB is verified OPEN, (b) Associated IDG is considered inoperative (c) Auto/Manual Control Functions are verified operative systems, (d) Bus tie and overload protection system operative, and (e) Repairs or replacements are carried out calendar days. NOTE 1: Refer to Flight Manual Limitation Procedures for operation with a failed open, the and IDG continues to provide essentiation unavailable as a power source. 	fied operative s are verified t within three hs and ailed GB. essociated al AC power.
21-09	IDG Load Indicating Systems (1) KW Indications	3	2	 (O) One may be inoperative provided: (a) Associated IDG Oil Temperature Indicis operative, and (b) Associated Frequency Indicating System (Cont) 	
AIRCRAFT:			REVISION NO: REVISION 1 PAGE :		
-------------------------	---	---------	--	---	
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994 25-4	
(1) Sys	tem & Sequence Numbers	(2) Num	ber Instal	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>24</u>	ELECTRICAL POWER (Cont)				
21-09	IDG Load Indicating Systems (Cont)				
	(2) KVAR Indication and Select Functions	3	0	All may be inoperative.	
21-10	AC Voltage Indicating Systems				
	(1) AC Voltmeter			NOT USED.	
	(2) PMG TEST System	1	0	May be inoperative provided:	
				(a) IDG Load Indicating System is operative f operative IDG,	
				(b) APU Load Indicating System is operative f operative APU generator, and	
				(c) Frequency Indicating System is operative.	
21-11	Frequency Indicating System	1	0	(O) May be inoperative provided:	
				(a) All IDG's are operative and are operated in parallel,	
				(b) APU Generator is not operated in parallel, and	
				(c) All three IDG Load Indicating Systems are operative	
24-01	APU Generator System	1	0	May be inoperative provided:	
				(a) All IDG's are operative.	
				OR	
				(b) MMEL requirements for an inoperative IDG a observed. (Refer to item 24-21-01)	

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:				
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	25-5			
(1) Syst	tem & Sequence Numbers	(2) Num	(2) Number Installed					
	ltem		(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>24</u>	ELECTRICAL POWER							
	<u>(Cont)</u>							
24-02	APU Generator Control Unit (GCU)	1	0	May be inoperative provided APU Generat considered inoperative.	or System is			
24-04	APU Generator Breaker (GB)	1	0	(M) May be inoperative provided:				
				(a) Affected GB is verified OPEN, and				
				(b) APU Generator System is considered	inoperative.			
24-05	Generator Bearing Lights	4	0	All may be inoperative.				
24-06	APU Load Indicating System							
	(1) KW Indication	1	0	May be inoperative provided APU Gene considered inoperative.	erator System is			
	(2) KVAR Indication and Select Function	1	0	May be inoperative.				
31-01	Transformer Rectifiers (TR)							
	(1) No. 1, 2, 3	3	2	One may be inoperative provided:				
				(a) All DC busses and DC bus tie relation operative,	ays are verified			
				(b) Total TR DC electrical load does amps, and	not exceed 145			
				(c) Repairs or replacements are carried calendar days.	out within three			
	(2) Essential			NOT USED.				
31-08	DC Voltage Indicating System			NOT USED.				
32-04	Battery Charger			NOT USED.				

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	25-6
(1) Syst	em & Sequence Numbers	(2) Numb	er Installe		
	Item	Г	(3) Nur	nber required for despatch	
			(0) 110	(4) Remarks or Exceptions	
<u>24</u>	ELECTRICAL POWER (Cont)				
32-20	Main BATTERY CONDITION Light	1	0	(O) May be inoperative provided aircraft is de ONLY to an airport where repair can be made	
32-21	Aux Battery Charger	1	0	(M) May be inoperative provided:	
				(a) Aux Battery Charger is secured, and	
				(b) Main Battery is used for starting APU.	
32-22	Aux BATTERY CONDITION Light	1	0	(M) May be inoperative provided:	
				(a) Aux Battery Charger is secured, and	
				(b) Main Battery is used for starting APU.	
32-23	Battery Charger Alternate Mode System	1	0	May be inoperative provided:	
				(a) The Standby Power System is operative,	and
				(b) The Battery Charger Normal Mode is op	erative.
32-24	Aux Battery	1	0	(M) May be inoperative provided:	
				(a) Aux Battery is appropriately secured, an	d
				(b) Aux Battery Charger is secured.	

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:			
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	25-1		
(1) Sys	tem & Sequence Numbers	(2) Num	2) Number Installed				
	Item		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>25</u>	EQUIPMENT/ FURNISHINGS						
11-01	Flight Deck Crew Seats						
	(1) Electrical Adjustment Systems	3	0	All may be inoperative provided:			
				(a) Electrical connector is disconnected.			
				OR			
				(b) Appropriate circuit breaker is pulled an	d collared.		
	(2) Manual Adjustment System	3	3	Fore and Aft adjustment must operate norma	lly.		
		3	3	(M) Vertical and/or recline adjustments may provided:	be inoperative		
				(a) The seat is secured and locked in a pos individual pilots requirements, and	ition to suit the		
				(b) Repairs or replacements are carried or calendar days.	ut within three		
11-06	Flight Deck Observer Seats and Harnesses	-	0	May be inoperative provided seat is not requ correctly stowed.	ired and is		
11-08	Flight Crew Shoulder Harness	-	-	As required by Air Navigation Legislation.			
	(1) Inertia Reels	-	-	(M) May be inoperative provided:			
				(a) The affected harness is adjusted and approved means to suit the individu member, and	•		
				(b) Repairs or replacements are carried or calendar days.	ut within three		
12-07	Eye Locator System	1	0	May be inoperative.			

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	25-2
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	led	
	Item		(3) Nu	mber required for despatch	
]		(4) Remarks or Exceptions	
<u>25</u>	EQUIPMENT/ FURNISHINGS (Cont)				
21-00	Passenger Seats	-	-	(M) May be inoperative secured in the upr provided:	ight position
		-	0	(M) One or more may be inoperative provided	:
				(a) Affected seat(s) does not block an Emerg	ency Exit,
				(b) Does not restrict any passenger from a aisle, and	access to the
				(c) Affected seat(s) is blocked and placarde OCCUPY".	d "DO NOT
				Note 1: A seat with an inoperative seat belt inoperative.	is considered
				Note 2: A seat with an inoperative recline n considered to be inoperative if the se secured upright.	
				Note 3: Inoperative seats do not affect the nur Cabin Crew required by Air Navigation Legislation.	
21-01	Cabin Attendant Seat Assemblies and Shoulder Harness	-	-	(M) (O) As required by Air Navigation Legisla	ation.
				Any in excess of those required by legisla inoperative (see notes below).	tion may be
				NOTE 1: A folding seat that will not stow a or remain stowed is considered to inoperative and shall be secured in retracted position or removed.	be
				NOTE 2: A seat with a defective harness is to be inoperative and shall be plac prohibit occupancy.	
21-02 Seats	Lower Lounge Flight Attendant			NOT USED.	
21-08	Flight Attendant Shoulder Harness			Refer to item 25-21-01.	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	25-3
(1) Sys	tem & Sequence Numbers	(2) Numbe	er Install	ed	1
	Item	Г	(3) Nu	mber required for despatch	
			()	(4) Remarks or Exceptions	
<u>25</u>	EQUIPMENT/ FURNISHINGS (Cont)				
21-26	Passenger Seat Ashtrays			Refer to item 25-99-06.	
26-30	Cabin Sidewall Articulated Vent Box	-	-	(M) Two in each cabin zone may be inoperati	ve provided:
				(a) Affected vent is secured OPEN, and	
				(b) Seats adjacent to the affected vent as prevent occupancy.	re blocked to
31-03	Lower Galley Flight Attendant Seats (-1, -14, -15)			Refer to item 25-21-01.	
32.00	Lower Galley Flight Attendant Seats (-1, -14, -15)	2	1	(O) One may be inoperative provided:	
				(a) Affected lift is in the full down position	at all times,
				(b) Remaining lift is in the full down potaxy,	osition during
				(c) The number of serving carts that may from galley at any time is limited to t main deck cart tie-downs that are permit for takeoff and landing,	he number of
				 (d) Upper door of inoperative lift is placard stowing of carts on top of the inopera galley is occupied, 	
				(e) Interphone Systems for Cabin and Low operative,	ver Galley are
				(f) Flight Attendant Cockpit Call Signa operative, and	al System is
				(g) Chimes function of the PA System is op	erative.
		2	0	(O) Both may be inoperative provided:	
				(a) Galley is not occupied or used, and	
				(b) Repairs or replacements are carried ou calendar days.	t within three
				(Cont)	

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:	
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	25-4
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	ed	•
	ltem		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
25	EQUIPMENT/				
	FURNISHINGS (Cont)				
32-00	Lower Galley Lift Systems (-1, -14, -15) (Cont)			NOTE 1: When one lift is inoperative, see MANUAL Limitations for galle during taxy.	
				NOTE 2: When both lifts are inoperative, used for cart stowage.	they may be
52-00	Automatic Cargo Handling Systems	2	0	One or both may be inoperative.	
60-00	First Aid Kits	-	-	As required by Air Navigation Legislation.	
61-08	Flight Station Egress Emergency Descent Devices	5	4	(O) One may be inoperative or missing provid takeoff and landing, the flight station is not more than four persons.	
61-10	Cabin Doors and Slide/Slide Rafts				
	(1) Cabin Doors			Refer to item 52-11-00.	
	(2) Emergency Evacuation Devices (Slides/Slide Rafts) Including Inflation Medium	-	-	(M) (O) As required by Air Navigation Legisl device may be inoperative provided all the co associated with an inoperative exit/door are applied (see 52-11-00).	nditions
62-01	Self Powered Portable Megaphone	-	3	As required by Air Navigation Legislation. A of those required by legislation may be in missing provided the inoperative megaphone from the passenger cabin.	noperative or
62-04	Evacuation Signal Systems				
	(1) Cabin	1	0	(O) May be inoperative provided:	
				 (a) Procedures are not dependant upon in primary means of initiating an emergence and (b) Elight Attendants are advised that fill 	cy evacuation,
				(b) Flight Attendants are advised that the inoperative.	ne system 1s
				(Cont)	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	25-5
(1) Syst	tem & Sequence Numbers	(2) Number	r Installe	ed	1
	ltem		(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>25</u>	EQUIPMENT/ FURNISHINGS (Cont)				
62-04	Evacuation Signal Systems (Cont)				
	(2) Lower Galley or Lower Lounge	1	0	(O) May be inoperative provided:	
				(a) Lower Galley is not occupied during taxi	•
				(b) Lower Lounge is not occupied at any tim	e,
				(c) Procedures are not dependant upon its primary means of initiating an emergency and	
				(d) Flight Attendants are advised that the inoperative.	e system is
63-01	Protective Breathing Equipment (PBE)				
	(1) Flight Crew Smoke Protection Equipment (Basic & Portable)	-	-	As required by Air Navigation Legislation. In specified items may be missing or in- accordance with arrangements approved by the	operative in
	(2) Cabin Attendants Portable Smoke Protection Equipment	-	-	As required by Air Navigation Legislation. In specified items may be missing or inaccordance with arrangements approve Authority.	inoperative
66-00	Flotation Devices (Lifejackets & Liferafts)	-	-	As required by Air Navigation Legislation.	
63-19	Cabin Emergency Flashlights/ Holders	-	0	All may be inoperative or missing provided ca crewmember assigned to associated posit operable flashlight readily available.	
99-01	FASTEN SEAT BELT WHILE SEATED Signs Or Placards (Unlit)	-	-	As required by Air Navigation Legislation. Or signs or placards may be illegible or missin legible sign or placard is readable from ea passenger seat.	g provided a
99-02	Emergency Locator Transmitters (ELT)	-	-	As required by Air Navigation Legislation.	

AIRCRAFT:				REVISION NO: REVISION 1 PAGE:			
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	25-6		
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Installe		25 0		
	Item						
			(3) Nur	nber required for despatch			
				(4) Remarks or Exceptions			
<u>25</u>	<u>EQUIPMENT/</u> FURNISHINGS (Cont)						
99-03	Aft Lavatory Door Ashtrays	5	3	Two may be inoperative provided ashtrays adjacent Lavatory Doors.	s are not on		
99-04	Forward Lavatory Ashtrays (Adjacent to Cockpit Door)	2	2	Both must be operative.			
99-05	Underseat Baggage Restraining Bars	-	-	(M) (O) May be inoperative provided:			
				(a) Baggage is not stowed under seat wit restraint bar,	h inoperative		
				(b) Associated seat is placarded "DO I BAGGAGE UNDER THIS SEAT", and	NOT STOW		
				(c) Procedures are established to alert the C inoperative restraining bar.	abin Crew of		
99-06	Passenger Convenience Items			Refer to Preamble item 4.			
99-07	Second Observer Seat			Refer to item 25-11-06.			
99-08	First Observer Seat			Refer to item 25-11-06.			

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:			
				DATE: 15 APRIL 1994	26-1			
(1) Sys	tem & Sequence Numbers	(2) Num	(2) Number Installed					
	Item		(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>26</u>	FIRE PROTECTION							
11-01	Engine Fire Detection System Loops	6	3	One complete loop (A or B) on each inoperative provided detector loop selector the operative loop.				
11-06	APU Fire Detection System Loops	2	1	One complete loop (A or B) may be inop detector loop selector is positioned to the				
		2	0	(M) One or both loops (A and B) ma provided APU is considered inoperative a				
11-09	Fire Alarm Bell			NOT USED.				
11-14	APU Automatic Fire Shutdown System	1	0	(M) May be inoperative provided APU Fit System is monitored during APU ground of				
11-28	Wheel-Well Fire Detection System Loops	2	1	One complete loop (A or B) may be inope detector loop selector is positioned to the				
11-30	Fuel and Ignition Switch Barrier Lights	6	0	(M) All may be inoperative provided:				
				(a) Associated light is not illuminated, a	nd			
				(b) Fault is determined to affect barrier l	ight only.			
15-00	Smoke and Overheat Detection Systems							
	 Lower Galley Overheat Detection System (-1, -14, -15) 	1	0	(M) May be inoperative provided lower ga deactivated and placarded to prevent use.	alley ovens are			
				NOTE: Use of Closed Convection type not connected to the lower galley ex permitted.				
	(2) Lower Galley or Lounge Smoke Detection System			NOT USED				
	(3) Cabin Galley Overheat Detection System (-3)	1	0	May be inoperative.				
				(Cont)				

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:	
	LOCKHEED L-1011 TRI	SIAK		DATE: 15 APRIL 1994	26-2
(1) System & Sequence Numbers		(2) Num	ber Install	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>26</u>	FIRE PROTECTION (Cont)				
15-00	Smoke and Overheat Detection Systems (Cont)				
	(4) FESC and MESC Smoke Detection System	1	0	May be inoperative.	
15-10	Cargo Compartment Smoke Detection Systems				
	 Forward Cargo Compartment Smoke Detectors (Class D Classification) 	2	0	One or both may be inoperative.	
	(2) Forward Cargo Compartment Smoke Detectors (Class C Classification)	4	2	(O) Two may be inoperative provided detect switch is positioned to operative smoke detect	
		4	0	(O) All may be inoperative provided compa empty or contains only non-combustible ma	
				NOTE: See Definitions (Item 20)	
	(3) Centre Cargo Compartment Smoke Detectors	2	0	One or both may be inoperative.	
	(4) Aft Cargo Compartment Smoke Detector Systems (-1, -14, -15)	2	1	(O) One system (A or B) may be inoperative detector selector switch is positioned to detection system.	
				NOTE: When detector selector switch is p the FESC and MESC Smoke Detector Syst inoperative.	
		2	0	(M) (O) One or both A and B systems may provided Aft Cargo Compartment Vent Airflow Control Valves (inlet, shutoff, bypass) are secured CLOSED.	ilation System
	(5) Aft Cargo Compartment Smoke Detectors (-3)	4	2	(O) Two may be inoperative provided detect switch is positioned to an operative sr system.	
				(Cont)	

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:				
	LOCKHEED L-1011 TR	ISTAR		DATE: 15 APRIL 1994	26-3			
(1) Sys	tem & Sequence Numbers	(2) Num	(2) Number Installed					
	Item		(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>26</u>	FIRE PROTECTION (Cont)							
	(5) Aft Cargo Compartment Smoke Detectors (3)			(O) Two may be inoperative provided deters switch is positioned to an operative system.				
		4	0	(O) All may be inoperative provided comparements only non-combustible m				
				NOTE: See Definitions (Item 20)				
21-00	APU Fire Extinguisher Test	1	0	May be inoperative provided APU inoperative and is not used.	is considered			
21-03	Fire Extinguisher Bottle Thermal Discharge Indicators (-1, -14, -15)	6	0	(M) All may be missing provided associate extinguisher bottle pressure is verified flight of each day.				
				NOTE: Indicators are not installed in RI wing engine inlets, or in aircraft w sealed fire extinguisher containers No. 2 engine/APU position.	with hermetically			
21-06	Fire Extinguisher Discharge Indicator Light Systems							
	(1) Engines	6	3	(M) (O) One system (MAIN or ALTN) may be inoperative provided associated ex is verified to be properly charged before t each day.	tinguisher bottle			
	(2) APU	2	1	(M) (O) One system (MAIN or ALTN) ma provided associated extinguisher bottle is properly charged before first flight of each	s verified to be			
		2	0	(M) (O) One or both systems (MAIN or inoperative provided APU is considered not used.				

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:			
LOCKHEED L-1011 TRISTAR			DATE: 15 APRIL 1994	26-4			
(1) Sys	tem & Sequence Numbers	(2) Num	(2) Number Installed				
	Item		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>26</u>	FIRE PROTECTION (Cont)						
21-09	Fire Extinguisher SHORT TEST Systems						
	(1) Engines	6	3	(M) (O) One system (MAIN or ALTN) of may be inoperative provided associated find discharge circuit is determined to be operation flight.	e extinguisher		
	(2) APU	2	1	(M) (O) One system (MAIN or ALTN) may provided associated fire extinguisher disch determined to be operative before each flight	arge circuit is		
		2	0	(M) (O) One or both systems (MAIN or A inoperative provided APU is considered in not used.			
22-01	Portable Fire Extinguishers	-	-	(M) As required by Airworthiness Notice N excess of those required by Legislation may provided:(a) Procedures are established to remov	be inoperative		
				Portable Fire Extinguisher, and(b) Required distribution is maintained.			
23-00	Cargo Compartment Fire Extinguisher Systems (-3)						
	(1) MAIN Bottles (2500 cu. In.)	1	0	(M) (O) May be inoperative provided:			
				(a) Aircraft is operated within 1 hour as from a suitable airport,	nd 40 minutes		
				(b) Cabin Pressure Control System is opera	ative, and		
				(c) Aircraft is operated pressurised.			
				(Cont)			
		I	I	1			

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	26-5
(1) Sys	tem & Sequence Numbers	(2) Numb	per Installe		I
	Item		(3) Nur	nber required for despatch	
			(0) 1101		
				(4) Remarks or Exceptions	
<u>26</u>	FIRE PROTECTION (Cont)				
23-00	Cargo Compartment Fire Extinguisher Systems (-3) (Cont)				
	(2) ALTN Bottle (1400 cu. In.)	1	0	(M) (O) May be inoperative provided:	
				(a) Aircraft is operated within 1 hour a from a suitable airport,	nd 40 minutes
				(b) Cabin Pressure Control System is oper-	ative, and
				(c) Aircraft is operated pressurised.	
	(3) MAIN and ALTN Bottles	2	0	(M) (O) One or both may be inoperative associated cargo compartment remains emp only non-combustible material.	
				NOTE: See Definitions (Item 20)	
	(4) Forward Cargo Compartment Fire Extinguisher Discharge Indicator Light Systems	2	1	(M) (O) One System (MAIN or ALTN) may inoperative provided associated extinguisher pressure is verified before first flight of each	bottle day.
				NOTE: On aircraft with aft cargo compartmentinguisher systems, FWD cargo of Bottle pressure may be verified by associated discharge indicator (Ma for aft cargo compartment.	compartment testing
	(5) Forward Cargo Compartment Fire Extinguisher SHORT TEST Systems	2	1	(M) (O) One system (MAIN or ALTN) may provided associated fire extinguisher bottle circuit is determined to be operative before of	discharge

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	26-6
(1) Sys	tem & Sequence Numbers	(2) Num	ber Installe		I
	Item		(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>26</u>	FIRE PROTECTION (Cont)				
23-00	Cargo Compartment Fire Extinguisher Systems (-3) (Cont)				
	(6) Aft Cargo Compartment Fire Extinguisher Discharge Indicator Light Systems	2	1	(M) (O) One System (MAIN or ALTN) n inoperative provided associated extinguis pressure is verified before first flight of ea	her bottle
				NOTE: On aircraft with forward cargo extinguisher systems, AFT cargo Bottle pressure may be verified b associated discharge indicator (for forward cargo compartment.	o compartment by testing
	(7) Aft Cargo Compartment Fire Extinguisher SHORT TEST Systems	2	1	(M) (O) One system (MAIN or ALTN) m provided associated fire extinguisher bott circuit is determined to be operative befor	le discharge
24-00	Toilet Compartment Fire Extinguisher Systems	-	-	Any or all may be inoperative.	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	ISTAR		DATE: 15 APRIL 1994	26-7
(1) Sys	tem & Sequence Numbers	(2) Numbe	er Installe		
	Item	Г	(2) Ni	a han a sa sina di ƙasada a sa shak	
		-	(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>26</u>	FIRE PROTECTION				
	<u>(Cont)</u>				
25-00	Toilet Compartment Smoke Detection Systems	-	-	(M) May be inoperative. The toilet compare electrically isolated, the waste-bin must be toilet must be locked and appropriately place	emptied and the
				OR	
		-	-	(M) May be inoperative provided:	
				(a) The toilet compartment is checked minute intervals for evidence of fire o	
				(b) Repairs or replacements are carried of calendar days.	out within three
				OR	
				(O) May be inoperative provided:	
				(a) Toilet Compartment fire extinguisher operating normally,	s are fitted and
				(b) The toilet compartment is checked at a for evidence of fire and smoke, and	egular intervals
				(c) Repairs or replacements are carried of calendar days.	out within three

Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

INTENTIONALLY LEFT BLANK

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:			
				DATE: 15 APRIL 1994	27-1			
(1) Sys	stem & Sequence Numbers	(2) Num	2) Number Installed					
	Item	-	(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>27</u>	FLIGHT CONTROLS							
00-01	Surface Position Indicating (SPI) System	1	0	(M) (O) May be inoperative provided proper the associated surface is visually verified flight.				
				NOTE: For Auto-Trim Out-of-Trim Warnin requirements, see limitations in ATA				
11-04	Pitch and Roll Disconnect T-Handle Light Systems	2	0	(O) One or both may be inoperative provided function and control coupled status is verified flight.				
21-02	Rudder Pedal Adjustment Systems	2	1	(M) One may be inoperative provided:				
				(a) Pedals are adjusted and secured in a su for the individual crewmember assigned				
				(b) Crewmember for which pedals are adjuted that seat during takeoff and landing, and				
				(c) Repairs or replacements are carried ou calendar days.	ut within three			
21-09	YAW SAS Engage Valves	2	1	One may be inoperative.				
21-14	Rudder Dampers	4	3	(M) One may be inoperative provided asso Damper is verified not to be jammed or losin				
21-17	Rudder Hydraulic Limiter			NOT USED.				

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1 PAGE	:	
				DATE: 15 APRIL 1994 27-2	,
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Instal	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>27</u>	FLIGHT CONTROLS (Cont)				
21-18	Rudder Mechanical Limiter System				
	(1) Auto Mode (-1, -14, -15)	1	0	(O) May be inoperative provided:	
				(a) System is operated in MNL mode,	
				(b) Mechanical Limiter is positioned in accordance speed schedule, and	with
				(c) Repairs or replacements are carried out within t calendar days.	hree
	(2) Limiter Actuators (-14, -15)	2	0	(M) (O) One or both may be inoperative provided:	
	(-1 with SB 093-27-139 Incorporated)			(a) Mechanical Limiter is verified to be in the +/- position, and	- 30
				(b) Auto-Manual switchlight remains in the M position.	1NL
31-00	Elevator Drive Warning System (Aural Warning and ELEVATOR Annunciator Light)	1	0	(M) (O) May be inoperative provided the control syster check contained in the Maintenance is completed befor each flight.	
41-00	PFCS Panel Stabiliser Control INOP Lights	4	3	(O) One may be inoperative provided proper operation and control of the associated channel is verified be each flight.	
41-02	Stick Shaker Motors			NOT USED.	
42-00	Electrical Pitch Trim Thumbwheel Systems	2	1	(M) First Officer's may be inoperative provided:	
				(a) Associated thumbwheel is suitably covered, and	
				(b) All takeoffs and landings are accomplished from Captain's side.	1 the

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TKIS	STAK		DATE: 15 APRIL 1994	27-3
(1) Sys	tem & Sequence Numbers	(2) Numb	per Install	ed	
	Item		(3) Nu	nber required for despatch	
				(4) Remarks or Exceptions	
<u>27</u>	FLIGHT CONTROLS (Cont)				
51-06	Flap Load Relief System (FLRS)	1	0	(M) (O) May be inoperative provided:	
				(a) Soft-stop and placard is installed on the flag in accordance with Conversion Kit 1604566	
				(b) System is deactivated using FLAP LR switch, and	S OVR
				(c) Repair is accomplished within 25 flight hou	rs.
				NOTE 1: Refer to Flight Manual Procedures inoperative procedures.	for FLI
				NOTE 2: Refer to Flight Manual Performance 33 landing performance.	e for fla
51-67	TE FLAP LOCK Annunciator Light	1	0	(M) May be inoperative provided:	
	(FE Panel) (SB 093-27-214 Not Incorporated)			(a) Flap Position Indicating System is operative	e, and
				(b) LE SLAT LOCK Annunciator Light is oper	ative.
51-70	FLAP/SLAT LOCK Annunciator Light (FE Panel) (SB 093-27-214 or	1	0	(M) May be inoperative provided:	
	Production Equivalent Incorporated)			(a) Flap Position Indicating System is operative	e, and
				(b) All Slat Position Monitoring Systems are op	erative.
52-00	Flap Position Indicating Systems	2	1	(M) (O) One may be inoperative provided:	
				(a) Flap asymmetry system is verified to normally,	operati
				(b) All Slat Position Monitoring Systems are op	erative,
				(c) TE FLAP LOCK Annunciator Light or FL LOCK Annunciator Light is operative,	AP/SLA
				(d) Flap Position is visually verified before e and no asymmetry exists, and	each flig
				(e) Repair is made within 25 flight hours.	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	27-4
(1) Sys	tem & Sequence Numbers	(2) Num	ber Instal	led	1
	Item		(3) Nu	mber required for despatch	
		1		(4) Remarks or Exceptions	
<u>27</u>	FLIGHT CONTROLS (Cont)				
61-08	Spoiler Hydraulic Assist Systems	2	1	(O) One system (A or B) may be inoperative speed brake automatic disable switch on the lever is operative.	
81-46	LE SLAT LOCK Annunciator Light	1	0	(M) May be inoperative provided:	
	(FE Panel) (SB 093-27-214 Not Incorporated)			(a) TE FLAP LOCK Annunciator Light is o	perative,
				(b) All Slat Position Monitoring Systems a and	are operative,
				(c) Slats Degrees Gauge is operative.	
82-00	Slat Position Monitoring Systems				
	(1) Slat Monitor Lights	14	0	All may be inoperative provided:	
				(a) LE SLAT LOCK Annunciator Light or LOCK Annunciator Light is operative, a	
				(b) Both Slat Monitor Lights on TE Flaps operative.	Indicator are
	(2) LE EXT and LE TRANS Lights	2	1	LE EXT light may be inoperative provided:	
				(a) LE TRANS light is operative, and	
				(b) All Slat Monitor Lights are operative.	
	(3) LE EXT and SLAT Lights	2	1	LE EXT light may be inoperative provided:	
				(a) SLAT light is operative, and	
				(b) All Slat Monitor Lights are operative.	
82-02	Slats Degrees Gauge	1	0	May be inoperative.	

AIRCRAFT: LOCKHEED L-1011 TRISTAR			/ISION NO: REVISION 1	PAGE:
			TE: 15 APRIL 1994	28-1
(1) System & Sequence Numbers	(2) Numb	er Installed		
Item		(3) Number r	equired for despatch	
		(4) F	Remarks or Exceptions	
<u>28 FUEL</u>				
11-08 Tanks 1 and 3 Scavenge	e Valves (-3) 2	1 (0) One may be inoperative provided:	
		(a)	Associated valve is OPEN.	
		OI	ł	
		(b)	Associated valve is CLOSED, and	
		(c)	Repair is made within 25 flight how	urs.
			DTE 1: With associated valve OPE	
			rate from associated valve of 1 rate from associated tank 1 impaired. To transfer fuel to use the gravity transfer s	A or 3A is it will be necessary
		N	OTE 2: With associated valve CLO tank 1 or 3 scavenge system	SED, associated
11-13 Tanks 1A and 3A Scave (-3, -15)	enge Pumps -	- (0) One in each tank (1A and 3A) may	be inoperative.
		OI	X	
	-) All in either tank 1A or in tank 3A ovided repair is made within 25 flight	
		OI	ξ	
	-		l in both tanks (1A and 3A) may be in el in tanks 1A and 3A is not required.	noperative provided
11-14 Tanks 1A and 3A Scave	enge Valves 2	1 (0) One may be inoperative provided:	
(-15)		(a)	Associated valve is OPEN.	
		OI	ξ	
		(b)		
	2		ne or both may be inoperative provid d 3A is not required for flight.	ed fuel in tanks IA

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1 PAGE:				
				DATE: 15 APRIL 1994 28-2			
(1) Sys	tem & Sequence Numbers	(2) Numl	(2) Number Installed				
	Item		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>28</u>	FUEL (Cont)						
21-01	Refuelling Adapters	4	1	Three may be inoperative.			
		4	0	(M) All may be inoperative provided:			
				(a) Tanks 2L and 2R Defuel-Jettison Valves are operative, and			
				(b) An approved alternate Refuelling procedure is used.			
21-03	Refuelling Cross-Ship Isolation Valve	1	0	(M) May be inoperative provided:			
				(a) Valve is deactivated OPEN, and			
				(b) The aircraft is not refuelled from both underwing stations simultaneously.			
21-05	Refuel Shutoff Valves						
	(1) Tanks 1, 2L, 2R and 3 (-1, -3, -14, -15)	6	2	(M) One in each tank may be inoperative provided:			
				(a) Inoperative valve is deactivated and verified CLOSED, and			
				(b) An approved alternate Refuelling procedure is used.			
	(2) Tanks 1 and 3 (-3, -15)	4	0	(M) Two in each tank (1 and/or 3) may be inoperative provided:			
				(a) Inoperative valve is deactivated and verified CLOSED,			
				(b) Associated tank 1A and/or 3A Normal Fuel Transfer Valve is operative, and			
				(c) An approved alternate Refuelling procedure is used.			
	(2) Tanks 1A and 3A (-3, -15)	2	0	(M) (O) One or both may be inoperative provided:			
				(a) Inoperative valve is deactivated and verified CLOSED, and			
				(Cont)			

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:			
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	28-3		
(1) Sys	tem & Sequence Numbers	(2) Numb	(2) Number Installed				
	Item		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>28</u>	FUEL (Cont)						
21-05	Refuel Shutoff Valves (Cont)						
	(2) Tanks 1A and 3A (-3, -15) (Cont)			(b) Associated tank fuel is considered UN	USABLE.		
				NOTE: Valve may be considered operative opened and closed using its assoc control switch or fuel level bypass	iated fuel level		
21-07	Fuel Level Control Switches (1) Tanks 1, 2L, 2R and 3	6	2	(M) One in each tank may be inoperativ approved alternate Refuelling procedure is u			
		6	0	(M) All may be inoperative provided:			
				(a) Aircraft is equipped with tanks 1A and	3A.		
				OR			
				(b) Aircraft is equipped with Refuel Bypas	s Switches.		
	(2) Tanks 1A and 3A (-3, -15)	2	0	(M) One or both may be inoperative provid alternate Refuelling procedure is used.	ed an approved		
	(3) Tank 4 (if installed)	1	0	(M) May be inoperative provided an app Refuelling procedure is used.	roved alternate		
22-01	Tanks 1, 2L, 2R and 3 Defuel Jettison Valves	4	0	(M) (O) All may be inoperative provided:			
				(a) Associated valve is deactivated CLOS	ED, and		
				(b) En route engine inoperative perform require fuel jettison system.	ance does not		
				NOTE 1: Refer to Flight Manual Limitat imbalance limits when jettisonin asymmetrical valves inoperative	ng fuel with		
				NOTE 2: Refer to Flight Manual Perform engine inoperative performance			
24-01	Tanks 1, 2L, 2R, and 3 Fuel Boost Pump Systems	8	4	(O) One in each tank may be inoperative.			

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
				DATE: 15 APRIL 1994	28-4
(1) Syst	em & Sequence Numbers Item	(2) Numb	er Instal	led	
		_	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>28</u>	FUEL (Cont)				
24-13	Fuel Flow Equaliser	1	0	(M) (O) May be inoperative provided:	
				(a) Equaliser bypass system is verified op	erative,
				(b) Tanks 2L and 2R Fuel Quantity Ind are operative, and	icating Systems
				(c) All Tanks 2L and 2R Fuel Boost Pu operative.	mp systems are
				NOTE: Refer to Flight Manual Limitations imbalance limits during fuel usage	
24-17	Continuous Scavenge Systems				
	(1) Tanks 1 and 3	2	0	(M) One or both may be inoperative prov tank sump is drained at least once each day.	
	(2) Tanks 2L and 2R	2	0	(M) (O) One or both may be inoperative pro	ovided:
				(a) Associated tank sump is drained at day, and	least once each
				(b) All Fuel Quantity Indicating Systems	are operative.
				NOTE 1: Refer to Flight Manual Procedu fuel weight and alternate fuel lo requirements.	
				NOTE 2: Zero fuel weight is limited to 138,385 kg (305,000 lb) when fuel loading, or 142,920 kg (31 using alternate fuel loading.	using standard
				NOTE 3: Alternate fuel loading is used weights over 191,470 kg (422, takeoff fuel loads less than 34, lb).	000 lb) or
25-01	APU Boost Pump (-1)	1	0	(O) May be inoperative provided APU is engine No.2 tank feed.	operated from
25-04	APU Tank Valve (-1)	1	0	(O) May be inoperative provided APU is engine No.2 tank feed.	operated from

LOCKHEED L-1011 TRISTAR DATE: 15 APRIL 1994 (1) System & Sequence Numbers Item (2) Number Installed (3) Number required for despatch (4) Remarks or Exceptions 28 FUEL (Cont) 26-01 Crossfeed Valves 3 2 (M) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require c 27-01 Tanks 2L and 2R Float Operated Fuel Transfer Valves 2 0 (M) (O) One or both may be inoperative provided (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out wit calendar days. NOTE: Refer to Flight Manual limitations for 1 fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (a) Associated valve is deactivated CLOSED, ar	
Item (3) Number required for despatch 28 FUEL (Cont) 26-01 Crossfeed Valves 3 2 (M) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require c 27-01 Tanks 2L and 2R Float Operated Fuel Transfer Valves 2 0 (M) (O) One or both may be inoperative provided (a) Associated valve is deactivated CLOSED, (b) Fuel Transfer Valves 2 0 (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out wit calendar days. NOTE: Refer to Flight Manual limitations for fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar	28-5
(3) Number required for despatch 28 FUEL (Cont) 26-01 Crossfeed Valves 3 2 (M) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require c 27-01 Tanks 2L and 2R Float Operated Fuel Transfer Valves 2 (b) Fuel in outboard section of associated closeD, (c) Repairs or replacements are carried out wit calendar days. NOTE: Refer to Flight Manual limitations for true fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, and the imbalance limits.	
28 FUEL (Cont) 26-01 Crossfeed Valves 3 2 (M) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require of 27-01 Tanks 2L and 2R Float Operated 2 Fuel Transfer Valves 2 (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require of (a) Associated valve is deactivated CLOSED, (b) Fuel Transfer Valves (c) Repairs or replacements are carried out wite calendar days. NOTE: Refer to Flight Manual limitations for the fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (a) (b) State of the flight for tanks 2L and 2R, and L	
26-01 Crossfeed Valves 3 2 (M) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require of (b) En route fuel management does not require of (c) N(O) One or both may be inoperative provided (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated (c) Repairs or replacements are carried out with calendar days. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (a) Associated valve is deactivated CLOSED,	
26-01 Crossfeed Valves 3 2 (M) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (b) En route fuel management does not require of (b) En route fuel management does not require of (c) N(O) One or both may be inoperative provided (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated (c) Repairs or replacements are carried out with calendar days. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar (a) Associated valve is deactivated CLOSED,	
 27-01 Tanks 2L and 2R Float Operated Fuel Transfer Valves 27-01 Tanks 2L and 2R Float Operated Puel Transfer Valves 2 0 (M) (O) One or both may be inoperative provided (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out with calendar days. NOTE: Refer to Flight Manual limitations for the fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, and CLOSED, (b) Fuel is output to the fuel for flight for tanks 2L and 2R, and L imbalance limits. 	
 27-01 Tanks 2L and 2R Float Operated Fuel Transfer Valves 2 0 (M) (O) One or both may be inoperative provided (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out with calendar days. NOTE: Refer to Flight Manual limitations for a fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, and CLOSED, (b) Fuel in outboard section of associated considered UNUSABLE. 	
 27-01 Tanks 2L and 2R Float Operated Fuel Transfer Valves 2 0 (M) (O) One or both may be inoperative provided. (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out with calendar days. NOTE: Refer to Flight Manual limitations for a fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, and 	ıd
Fuel Transfer Valves (a) Associated valve is deactivated CLOSED, (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out wit calendar days. NOTE: Refer to Flight Manual limitations for infuel for flight for tanks 2L and 2R, and L imbalance limits. NOTE: Refer to Flight Manual limitations for infuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, and (a) Associated valve is deactivated CLOSED, and	rossfeed.
 (b) Fuel in outboard section of associated considered UNUSABLE, and (c) Repairs or replacements are carried out wit calendar days. NOTE: Refer to Flight Manual limitations for fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, are 	:
 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 27-02 Tanks 1A and 3A Normal Fuel Transfer Valves (-3, -15) 2 A considered UNUSABLE, and (c) Repairs or replacements are carried out with calendar days. NOTE: Refer to Flight Manual limitations for a fuel for flight for tanks 2L and 2R, and L imbalance limits. 2 A (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar 	
 calendar days. NOTE: Refer to Flight Manual limitations for a fuel for flight for tanks 2L and 2R, and L imbalance limits. 27-02 Tanks 1A and 3A Normal Fuel 2 1 (M) (O) One may be inoperative provided: Transfer Valves (-3, -15) (a) Associated valve is deactivated CLOSED, are a fuel for flight for tanks 2L and 2R. 	tank is
27-02 Tanks 1A and 3A Normal Fuel 2 1 (M) (O) One may be inoperative provided: Transfer Valves (-3, -15) 2 1 (M) (O) One may be inoperative provided: (a) Associated valve is deactivated CLOSED, ar	thin three
Transfer Valves (-3, -15) (a) Associated valve is deactivated CLOSED, ar	
	ıd
(b) Associated Gravity Fuel Transfer Valve is op	perative.
2 0 (M) (O) One or both may be inoperative provided.	:
(a) Associated valves are deactivated CLOSED,	and
(b) Tanks 1A and 3A fuel is not required for flig	,ht.
27-07Tanks 1A and 3A Gravity Fuel Transfer Valves (-3, -15)21(M) (O) One may be inoperative provided:	
(a) Associated value is deactivated CLOSED, ar	ıd
(b) Associated Normal Fuel Transfer Valve is op	perative.
(Cont)	

AIRCRAFT:				REVISION NO: REVISION 1 PAGE :
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994 28-6
(1) Syst	tem & Sequence Numbers	(2) Num	ber Instal	led
	Item		(3) Nu	imber required for despatch
				(4) Remarks or Exceptions
<u>28</u>	FUEL (Cont)			
27-07	Tanks 1A and 3A Gravity Fuel Transfer Valves (-3, -15) (Cont)	2	0	(M) (O) One or both may be inoperative provided:
				(a) Associated valves are deactivated CLOSED, and
				(b) Tanks 1A and 3A fuel is not required for flight.
31-01	Fuel Jettison Valves	2	0	(M) (O) One or both may be inoperative provided:
				(a) Associated valve is deactivated CLOSED, and
				(b) En-route engine inoperative performance does no require fuel jettison system.
				NOTE 1: Refer to Flight Manual Limitations for latera imbalance limits when jettisoning fuel with asymmetrical valves inoperative.
				NOTE 2: Refer to Flight Manual Performance for engine inoperative performance.
41-00	Flight Station Fuel Quantity Indicating Systems			
	(1) Tank 1, 2L, 2R and 3 Indicating Systems	4	3	(M) (O) One may be inoperative provided:
				(a) Associated Fuel Used and Fuel Flow Indicating Systems are operative,
				(b) Fuel Flow Equaliser is operative if tank 2L or 2F Fuel Quantity Indicating System is affected,
				(c) Fuel quantity in associated tank is determined by an alternate approved method.
				(d) En-route engine inoperative performance does no require fuel jettison, and
				(e) A record of fuel used is kept, and remains in the aircraft until associated tank is refuelled.
				NOTE 1: Refer to Flight Manual Limitations for latera imbalance limits during Refuelling and inflight.
				(Cont)

AIRCRAFT:			REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR			DATE: 15 APRIL 1994	28-7
(1) System & Sequence Numbers	(2) Numb	er Install	ed	•
Item	L r	(3) Nu	mber required for despatch	
			(4) Remarks or Exceptions	
<u>28 FUEL (Cont)</u>				
41-00 Flight Station Fuel Quantity Indicating Systems (Cont)				
(1) Tank 1, 2L, 2R and 3 Indicating Systems (Cont)			NOTE 2: Refer to Flight Manual Perform engine inoperative performance	
			NOTE 3: Fuel used record enables flight accurately calculate fuel remain associated tank at any time.	
(2) Tank 2L and 2R INBD LOW Lights	2	1	(O) One may be inoperative provided:	
			(a) Associated Tank 2L or 2R Fuel Qua System is operative, and	ntity Indicatin
			(b) Associated Float Operated Fuel Tra operative.	insfer Valve
(3) Tank 1A and 3A Indicating Systems (-3, -15)	2	0	(M) (O) One or both may be inoperative pro	ovided:
			(a) Associated tank is empty, and	
			(b) Associated Normal Fuel Transf deactivated CLOSED.	fer Valve
			NOTE: Refer to Flight Manual Limitations imbalance limits.	for lateral
(4) Tank 1A and 3A LOW Lights (-15)	2	0	(M) (O) One or both may be inoperative pro	ovided:
			(a) Associated Tank Fuel Quantity Indic operative.	ating System
			OR	
			(b) Associated tank is empty, and	
			(c) Associated Normal Fuel Transf deactivated CLOSED.	fer Valve
			NOTE: Refer to Flight Manual Limitations imbalance limits.	for lateral
			(Cont)	

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:	
				DATE: 15 APRIL 1994	28-8	
(1) Sys	tem & Sequence Numbers Item	(2) Numb	er Installed			
	liem		(3) Nu	mber required for despatch		
				(4) Remarks or Exceptions		
<u>28</u>	FUEL (Cont)					
41-00	Flight Station Fuel Quantity Indicating Systems (Cont)					
	(5) Tank 4 Auxiliary Fuel Tank Quantity Indicator (-3)	1	0	(M) (O) May be inoperative provided:		
	(If Installed)			(a) Fuel quantity in tank is verified using	Drip Stick,	
				(b) Tank 4 Fuel Quantity Gauge is placat at the flight station,	rded inoperative	
				(c) Tank 1A and 3A Indicating Sys operative,	stems must be	
				(d) A record of fuel used is kept and aircraft until associated tank is refuelled		
				(e) Aircraft is operated in accordance wit Limitations.	h Flight Manua	
41-19	Fuel Totaliser System	1	0	May be inoperative provided procedures do its use.	o not depend or	
41-20	Refuelling Panel Fuel Quantity Indicating Systems	4	0	All may be inoperative provided associated Valve is operative.	Refuel Shutoff	
41-24	Fuel Level Sight Gauges (Drip Sticks)	-	0	(M) All may be inoperative provided:		
				(a) Flight Deck Fuel Quantity Indicat associated tank is operative, and	ing system for	
				(b) There is no evidence of leakage.		
				NOTE: Refer to CDL.		
41-25	Tank 4 Auxiliary Fuel Tank Outlet Valves (-3) (If Installed)	2	0	(M) One or both may be inoperative provid	ed:	
				(a) Auxiliary Fuel Tank System is placar at the flight station,	ded inoperative	
				(b) Auxiliary Fuel Tank is verified empty	, and	
				(c) Inlet and Outlet Valves are verified Cl	LOSED.	

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
				DATE: 15 APRIL 1994	28-9
(1) Sys	(2) Num	ber Instal	led		
	Item	_	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>28</u>	FUEL (Cont)				
41-26	Tank 4 Auxiliary Fuel Tank Inlet Valves (-3) (If Installed)	2	0	(M) One or both may be inoperative provide	ed:
				(a) Auxiliary Fuel Tank System is placar at the flight station,	ded inoperative
				(b) Auxiliary Fuel Tank is verified empty,	and
				(c) Inlet and Outlet Valves are verified CI	LOSED.
41-27	Tank 4 Auxiliary Fuel Tank Boost Pumps (-3) (If Installed)	2	0	(M) One or both may be inoperative provide	ed:
				(a) Auxiliary Fuel Tank System is placar at the flight station,	ded inoperative
				(b) Auxiliary Fuel Tank is verified empty,	and
				(c) Inlet and Outlet Valves are verified CI	LOSED.
44-01	Boost Pump LOW Pressure Indicating Light Systems	8	4	(O) Four may be inoperative provided a ligh for each operative Fuel Boost Pump System	
				1	

Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

INTENTIONALLY LEFT BLANK

AIRCRAFT:				REVISION NO: REVISION 1 PAGE:
LOCKHEED L-1011 TRIS				DATE: 15 APRIL 1994 29-1
(1) Sys	tem & Sequence Numbers	(2) Num	iber Install	ed
	Item		(3) Nu	mber required for despatch
		1		(4) Remarks or Exceptions
<u>29</u>	HYDRAULIC POWER			
11-07	B1 and C1 Engine Driven Hydraulic Pumps	2	1	(M) (O) One may be inoperative provided:
				(a) Engine Driven Pumps A1 and D1 are operative,
				(b) Air Turbine Motor Driven Pumps B2 and C2 a operative, and
				(c) System is repaired within 25 flight hours.
11-08	B3 and C3 AC Motor Driven Hydraulic Pumps	2	0	(O) One or both may be inoperative provided associated Air Turbine Motor (ATM) is used to pressurise brakes a accumulators prior to engine start.
11-32	Shutoff Valves (Suction Shutoff	2	1	(M) (O) One may be inoperative provided:
	Valves)			(a) Associated valve is secured CLOSED, and
				(b) Associated Engine Driven Hydraulic Pump deactivated in accordance with approved maintenan procedures.
11-33	Power Transfer Units (PTU)	2	0	One or both may be inoperative provided:
				 (a) If B-A PTU is inoperative, Engine Driven Pumps A B1 and Air Turbine Motor Driven Pump B2 must operative, and
				(b) If C-D PTU is inoperative, Engine Driven Pumps C D1 and Air Turbine Motor Driven Pump C2 must operative.
11-40	Air Turbine Motor (ATM) Control Systems			
	(1) Automatic (AUTO) Control Functions	2	1	(M) (O) One may be inoperative provided:
	Functions			(a) Associated Manual (ON-OFF) Control Function operative, and
				(b) If C2 system is affected, C2 ATM is ON for taken and landing.
				(Cont)

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	29-2
(1) Sys	tem & Sequence Numbers	(2) Numb	per Install	ed	1
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>29</u>	HYDRAULIC POWER (Cont)				
11-40	Air Turbine Motor (ATM) Control System (Cont)				
	(2) Manual (ON-OFF) Control Functions	2	1	(O) One may be inoperative provided:	
				(a) Associated ATM Driven Pump is inoperative, and	considered
				(b) System is repaired within 25 flight hours	
11-51	Engine Driven Pump S/P Switches	4	3	One may be inoperative provided associ Driven Pump is considered inoperative and is	
11-71	B2 and C2 Air Turbine Motor (ATM) Driven Pumps	2	1	(M) (O) One may be inoperative provided:	
				(a) All Engine Driven Pumps are operative,	
				(b) If C1 pump is inoperative, the performant Flight Manual Appendix titled: L Extended is used, and	nce criteria in anding gear
				(c) System is repaired within 25 flight hours	
21-01	Ram Air Turbine (RAT) Deployment Systems (Auto,	2	0	(M) (O) One or both may be inoperative provi	ded:
	Manual)			(a) RAT is extended,	
				(b) Operations are conducted in accordance Manual Appendix titled: RAT Extended	-
				(c) The aircraft is not operated from sl runways, and	ush covered
				(d) The aircraft may continue the flight flights not to exceed 40 flight hours completion of replacements or repairs.	
31-04	Flight Station Hydraulic Fluid Temperature Indicator	1	0	May be inoperative.	

AIRCRAFT: LOCKHEED L-1011 TRIS				REVISION NO: REVISION 1	PAGE:	
	SIAK		DATE: 15 APRIL 1994	29-3		
(1) Sys	(2) Number Installed					
	Item		(3) Nu	mber required for despatch		
				(4) Remarks or Exceptions		
<u>29</u>	HYDRAULIC POWER (Cont)					
31-06	Service Centre Hydraulic Quantity Indicator	1	0	May be inoperative.		
31-07	Service Centre Hydraulic Fluid Temperature Indicator	1	0	May be inoperative.		
31-08	Flight Station Hydraulic Pressure Indicating Systems	4	3	(O) One may be inoperative provided associ PR Caution Light System is operative.	iated Pump LO	
31-10	Flight Station Hydraulic Fluid Quantity Indicating Systems	4	3	(M) One may be inoperative provided:		
				(a) Associated Reservoir quantity is ve before each flight, and	rified adequate	
				(b) Associated Reservoir LO QTY Cautio is operative.	n Light System	
31-14	Service Centre Hydraulic Reservoir Pressure Indicating Systems	4	0	(M) May be inoperative provided reservoir is to be pressurised.	is determined	
31-15	Service Centre Hydraulic Pressure Indicating Systems					
	(1) Single Needle Gauges	2	1	One may be inoperative.		
	(2) Dual Needle Gauges	2	1	One may be inoperative.		
32-00	Hydraulic Reservoir LO QTY Caution Light Systems	4	0	All may be inoperative provided associated Fluid Quantity Indicating System is operative		
32-01	Pump LO PR Caution Light Systems	6	4	Two may be inoperative provided associ Pressure Indicating System is operative.	ated Hydraulic	
32-02	Pump HI TEM Caution Light Systems	6	2	Four may be inoperative provided associated Reservoir HI TEM Caution Light System is		

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	29-4
(1) Syst	tem & Sequence Numbers	(2) Numbe	er Install	ed	I
	Item	Г	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>29</u>	HYDRAULIC POWER (Cont)				
32-03	Hydraulic Reservoir HI TEM Caution Light Systems	4	0	All may be inoperative provided:	
				(a) Associated Pump HI TEM Caution Lig operative.	ht System is
				OR	
				(b) Associated Hydraulic Fluid Temperatu System is operative.	re Indicating
33-00	Air Turbine Motor (ATM) RPM Indicating Systems (Includes Lights)	2	0	(M) (O) One or both may be inoperative provi associated ATM Driven Pump and assoc Control System are verified operative before e	ciated ATM

(1) Systen	LOCKHEED L-1011 TRI n & Sequence Numbers Item	(2) Num		DATE: 15 APRIL 1994	30-1			
(1) Systen		(2) Num			50-1			
	Item		ber Install	led				
			(3) Number required for despatch					
				(4) Remarks or Exceptions				
	ICE AND RAIN							
<u>-</u>	PROTECTION							
13-00	Wing Anti-Ice System	1	0	May be inoperative provided flight is not m or forecast icing conditions.	ade in known			
	Wing Anti-Ice System Modes (AUTO, MANUAL)	2	1	(O) One mode may be inoperative provided a check verifies that the Wing Anti-Ice System				
		2	0	One or both modes may be inoperative pr Anti-Ice System is considered inoperative.	rovided Wing			
	Wing Anti-Ice System Regulating and Shutoff Valves	2	0	(M) One or both may be inoperative provided	:			
C				(a) Associated valve is verified CLOSED, a	nd			
				(b) Wing Anti-Ice System is considered inop	perative.			
	Wing Anti-Ice System Dual Temperature Sensors	2	0	One or both may be inoperative provided Wir system is considered inoperative.	ng Anti-Ice			
	Wing Anti-Ice System DUCT FAIL Detection Systems	2	1	One may be inoperative.				
21-01 H	Engine Anti-Ice Control Valves	3	2	(M) One may be inoperative provided:				
				(a) Associated valve is secured CLOSED, a	nd			
				(b) Flight is not made in known or f conditions.	orecast icing			
		3	0	(M) All may be inoperative provided:				
				(a) Associated valve is secured OPEN,				
				(b) Associated pressure relief valve is verif and	ied operative,			
				(c) An overboard vent duct system is ins associated engine.	stalled on the			
				(Cont)				
AIRCRAFT:				REVISION NO: REVISION 1 PAGE:				
-----------	---	------------	---------	---	---------------	--	--	
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	30-2			
(1) Syst	em & Sequence Numbers	(2) Number	Install					
	Item		3) Nu	mber required for despatch				
			0) 110					
				(4) Remarks or Exceptions				
<u>30</u>	ICE AND RAIN PROTECTION (Cont)							
21-01	Engine Anti-Ice Control Valves (Cont)			NOTE 1: Refer to Flight Manual Performation with anti-ice on.	nce for			
				NOTE 2: Rolls Royce SB RB.211-30-2178 overboard vent duct system for the relief valve.				
21-13	Engine Anti-Ice Indicating Systems	3	0	All may be inoperative provided Associated Ice Control Valve is considered inoperative OPEN.				
	(1) HI PR Light Systems	3	2	One may be inoperative provided:				
				(a) An overboard vent duct system is ins associated engine.	talled on the			
				OR				
				(b) Associated Engine Anti-Ice System in inoperative and not used, and	s considered			
				(c) Flight is not made in known or free conditions.	orecast icing			
				NOTE: Rolls Royce SB RB.211-30-2178 ins overboard vent duct for the pressure				
	(2) HEAT Light Systems	3	2	One may be inoperative provided Flight is known or forecast icing conditions.	not made in			
31-00	Air Data Sensor Heat Systems							
	(1) Pitot Heater and Switchlight OFF Systems	4	3	One may be inoperative provided:				
				(a) Flight is not made in visible moisture w Temperature (SAT) below +4oC, and forecast icing conditions, and				
				(b) Repairs or replacements are carried out calendar days.	within three			
				(Cont)				
				1				

AIR	CRAFT:	CTAD		REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	_		DATE: 15 APRIL 1994	30-3
(1) Sys	tem & Sequence Numbers	(2) Numb	ber Instal	led	
	Item		(3) Nu	imber required for despatch	
				(4) Remarks or Exceptions	
<u>30</u>	ICE AND RAIN				
	PROTECTION (Cont)				
31-00	Air Data Sensor Heat Systems (Cont)				
	(2) Pitot Mast Heater Systems	4	2	Two may be inoperative.	
	(3) Alpha Heater and Switchlight OFF Systems			NOT USED	
	(4) Air Temp Probe Heater and Switchlight OFF Systems	2	1	One may be inoperative provided associated Temperature Probe is considered inoperative.	
41-01	Windshield Heat Systems	2	1	(M) (O) One may be inoperative provided:	
				(a) Windshield Defogging Fan is operative	,
				(b) Flight is not made in known or conditions, and	forecast icing
				(c) Temperature at arrival airport is +10oC	or warmer.
41-03	Forward and Aft Side Window Heat Systems	4	1	Three may be inoperative provided Left Forw Window Heat System is operative.	vard Side
41-07	Windshield Defogging Fan	1	0	May be inoperative provided both Wir Systems are operative.	ıdshield Heat
42-00	Windshield Rain Repellent System	1	0	May be inoperative provided both Wind Systems are operative.	lshield Wiper

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	SIAK		DATE: 15 APRIL 1994	30-4
(1) Syst	tem & Sequence Numbers	(2) Numl	per Installe	ed	
	Item		(3) Nur	nber required for despatch	
			(0) Nu		
				(4) Remarks or Exceptions	
<u>30</u>					
	PROTECTION (Cont)				
43-00	Windshield Washer System	1	0	May be inoperative provided:	
				(a) Both windshields are fitted with 0.03 thick outer glass.	85" or 0.105"
				OR	
				(b) If either windshield is fitted with 0.05 glass, aircraft is not operated in areas forecast thunderstorm activity.	
44-00	Windshield Wiper Systems	2	1	One may be inoperative provided the a operated in precipitation within arrival and de	
51-00	VHF Antenna Anti-Ice Systems	2	0	(M) One or both may be inoperative associated system is deactivated.	provided the
51-28	APU Load Compressor Inlet Duct Anti-Icing System	1	0	May be inoperative.	
71-00	Potable Water Drain Mast Heaters	4	2	Two may be inoperative provided at least each mast is operative.	one heater in
81-00	Ice Detection System	1	0	May be inoperative.	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR			DATE: 15 APRIL 1994	31-1	
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed	l
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
31	INDICATING/RECORDING				
	<u>SYSTEMS</u>				
21-01	Pilot/Co-Pilot Electric Clocks	2	1	One may be inoperative.	
		2	0	One or both may be inoperative provid timepiece is available on the flight deck de minutes and seconds.	
21-02	Clock Time Base	1	0	May be inoperative provided an accurat available on the flight deck displaying hou seconds.	
21-07	FE Panel Electric Clock	1	0	May be inoperative.	
22-03	Aural Warning System				
	(1) Flap LRS Aural (Buzzer)	1	0	May be inoperative provided FLAP LRS Caution/Warning Annunciator panel is oper	INOP Light on rative.
	(2) Unsafe Landing Aural Signal			NOT USED.	
	(3) Steady Horn			NOT USED.	
	(4) Gear Warning Horn Airspeed/ Altitude Inhibit Function	1	0	May be inoperative provided gear horn cuto verified operative.	out function is
	(5) Unsafe Takeoff Signal			NOT USED.	
	(6) Elevator Drive Aural Signal			Moved to ATA 27.	
	(7) Altitude Alert Aural Signal			Moved to ATA 27.	
31-00	Quick Access Recorder System	1	0	May be inoperative.	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	31-2
(1) Syst	tem & Sequence Numbers	(2) Numbe	er Installe		
	Item	Г	(2) Nur	nber required for despatch	
		1	(3) Nul		
				(4) Remarks or Exceptions	
<u>31</u>	INDICATING/RECORDING				
	SYSTEMS (Cont)				
31-01	Flight Data Recorder (FDR)	1	1	As required by Air Navigation Legislation inoperative provided:	on. May be
				(a) It is not reasonably practical to repair before commencement of flight.	r or replace
				(b) The aircraft shall not exceed six (6) flights with the FDR unserviceable be the first flight after the FDR was la throughout the flight.	ginning with
				(c) The aircraft shall not fly for more than 1 the FDR becomes unserviceable.	6 hours after
				(d) Not more than 24 hours have elapsed si became unserviceable.	nce the FDR
				(e) The aircraft may not depart from its mair with the FDR unserviceable.	itenance base
				(f) The Cockpit Voice Recorder must l normally.	be operating
31-02	Flight Data Entry Panel	1	0	May be inoperative.	
32-00	Electronic Flight Data Acquisition Recording System (EFDARS)	1	0	May be inoperative.	
32-02	Aircraft Integrated Data System (AIDS)	1	0	May be inoperative.	
41-00	On-Board Weight and Balance system	1	0	May be inoperative.	
				•	

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:	
				DATE: 15 APRIL 1994	32-1
(1) Syst	em & Sequence Numbers	(2) Numb	er Instal	led	
	Item	ļ	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
32	LANDING GEAR				
31-02	Landing Gear Normal Extension and Retraction System	1	0	(M) (O) Except for extended overwater operative provided:	ation may be
				(a) Aircraft is operated in accordance with Appendix Titled: Landing Gear Extended	
				(b) Associated deactivation of the gear co system does not adversely affect othe the C hydraulic system.	
36-00	Landing Gear Alternate Hydraulic Extension System	1	0	(M) (O) Except for extended overwater operative provided:	ation, may be
				(a) Operation is in accordance with F Appendix Titled: Landing Gear Extend	
				(b) All other C hydraulic system functions	are operative
37-00	Landing Gear Uplock Mechanical Release Systems	3	0	(M) (O) All except for extended overwater of be inoperative provided operation is in ac Flight Manual Appendix Titled: Landing Ge	cordance wi
43-00	Brake Assembly	8	7	One may be inoperative provided:	
				(a) All remaining retardation devices opera	te normally,
				(b) The brake is hydraulically disconnected utilising an approved maintenance proce	
				(c) Flight Manual procedures and decrements are applied, and	performant
				(d) Remaining brake units are verified to normally.) be operatir

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:			
	LOCKIELD L-1011 IK			DATE: 15 APRIL 1994	32-2		
(1) Sys	tem & Sequence Numbers	(2) Numb	(2) Number Installed				
	Item	[(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>32</u>	LANDING GEAR (Cont)						
43-01	Brake Adjuster Assembly Systems						
	(1) Brake Temperature Indicating System Installed and Operative	48	40	(M) One for each wheel brake may be inoperated provided pressure plate is verified to retract supervent dragging brakes.			
		48	32	(M) Two for each wheel brake assemb inoperative provided:	oly may be		
				(a) Affected adjusters are not adjacent,			
				(b) Pressure plate is verified to retract su prevent dragging brakes, and	afficiently to		
				(c) Associated system is repaired within ten	landings.		
	(2) Brake Temperature Indication System Inoperative or not Installed	48	40	(M) One for each wheel brake may be inoperated provided prior to each departure pressure plated verified to retract sufficiently to prevent dragg	e is		
		48	32	(M) Two for each wheel brake assemb inoperative provided:	oly may be		
				(a) Affected adjusters are not adjacent,			
				(b) Prior to each departure pressure plate is retract sufficiently to prevent dragging by			
				(c) Associated system is repaired within ten	landings.		
43-13	Service Centre Brake Accumulator Air Charges Gauges	2	0	(M) (O) One or both may be inoperative provide	ded:		
				(a) Accumulator air charge is verified to approved limits, and	o be within		
				(b) A minimum of 4 full brake applications system accumulator, and 8 from the accumulator are verified to be available.			

	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994 32-3
		(2) Numl		
	Item		ber Install	ed
			(3) Nu	mber required for despatch
				(4) Remarks or Exceptions
<u>32 L</u>	ANDING GEAR (Cont)			
44-00 A	Anti-Skid Systems (NORM, ALT)	2	1	(O) One may be inoperative provided alternate Anti-Skid System is verified to be functioning properly.
		2	0	(O) One or both systems may be inoperative provided:
				(a) All Reverser Systems are operative, and
				(b) Operations are in accordance with Flight Manual Appendix Titled: Anti-Skid Inoperative.
	Flight Station Anti-Skid Norm and Alt TEST Systems	2	0	(M) (O) One or both may be inoperative provided:
				 (a) Associated Anti-Skid System is verified operative before the first flight of each day, using the Electronic Control Unit in the MESC, OR
				(b) Associated Anti-Skid System is considered inoperative.
	Brake Temperature Indicating System	1	0	May be inoperative.
	Pilots Panel Brake Pressure Norm/ Alt Indication Systems	2	1	(M) (O) One may be inoperative provided:
				(a) Associated Brake Accumulator LOW PRESS Light is operative,
				(b) Associated Hydraulic Pressure Indicating System is operative, and
				(c) A minimum of 4 full brake applications from the B system accumulator, and 8 from the C system accumulator or are verified to be available.
	Brake Accumulator Norm and Alt LOW PRESS lights	2	1	One may be inoperative provided associated Brake Pressure Indication system is operative.
47-00 A	Automatic Braking System	1	0	May be inoperative.

AIR	CRAFT: LOCKHEED L-1011 TRIS	STAR		REVISION NO: REVISION 1	PAGE:
				DATE: 15 APRIL 1994	32-4
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Install	ed	·
	Item		(3) Nu	mber required for despatch	
		1		(4) Remarks or Exceptions	
<u>32</u>	LANDING GEAR (Cont)				
48-01	Parking Brake Indicator Lights	2	0	(O) One or both may be inoperative monitors parking brakes when chocks are n	
51-03	Rudder Pedal Steering System	1	0	(M) (O) May be inoperative provided system for nose wheel steering is verified to	
61-00	Gear Position and Warning Systems				
	(1) Pilots Panel GEAR and INTRANS Annunciator Lights	4	0	(M) (O) All may be inoperative provided:	
				(a) Operation is in accordance with Flight Landing Gear Extended, and	t Manual Title
				(b) With the landing gear handle b installed, alternate means are used to locked down before each landing.	
	(2) Pilots Panel TRUCK Annunciator Light	1	0	(M) (O) May be inoperative provided:	
				(a) Operation is in accordance with Appendix Titled: Landing Gear Exter	
				(b) All Landing Gear downlock pins are i	nstalled, and
				(c) Tyre inflation pressure is verified before	ore each flight
	(3) Pilots Panel DOOR Annunciator light	1	0	May be inoperative provided three GEAR O Annunciator lights on FE panel are operative	
	(4) FE Panel GEAR OR DOOR Annunciator Lights	3	0	All may be inoperative provided all GEAR, and DOOR Annunciator Lights on Pi operative.	
61-12	Tail Skid Light (-1, -14, -15)	1	0	May be inoperative.	
71-00	Tail Skid Control System (-1, -14, -15)	1	0	(M) May be inoperative provided tail skid i	s extended.
				NOTE: Observe additional fuel burn penalt	у.

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:	
				DATE: 15 APRIL 1994	33-1
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
33	LIGHTS				
10-00	Flight Compartment and Instrument Lighting System	-	0	As required by Air Navigation Legislation. N inoperative for daylight operations only.	May be
				OR	
		-	-	As required by Air Navigation Legislati lights may be inoperative provided:	on. Individua
				(a) Sufficient lighting is operative to make instrument, control and other device is provided easily readable.	
				(b) Sufficient flight deck emergency light operative.	ting is verified
				(c) Lighting configuration at dispatch is ac flight crew.	ceptable to the
12-00	Thunderstorm Lighting System	1	0	May be inoperative provided despatch is with Flight Station and Instrument Lighting	
17-00	Caution/Warning (CW) Annunciator Panel Flasher Unit	1	0	May be inoperative provided individual light not affected.	t operation is
17-99	CW Annunciator Panel Lights			NOTE: A maximum of three of the fol (ITEMS 1 through 7) may be inoperative	
	(1) ANTI-SKID or ANTI SKID/ABS	1	0	May be inoperative provided:	
				(a) All lights on Anti-Skid System panel and	are operative
				(b) All lights on Automatic Braking Sysoperative.	stem panel ar
	(2) ECS	1	0	May be inoperative.	
				(Cont)	

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:	
				DATE: 15 APRIL 1994	33-2
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Insta	alled	
	Item	_	(3) N	umber required for despatch	
				(4) Remarks or Exceptions	
<u>33</u>	LIGHTS (Cont)				
17-99	CW Annunciator Panel Lights (Cont)				
	(3) ELECTRICAL SYSTEM	1	0	(O) May be inoperative provided:	
				(a) Three IDG systems are operative,	
				(b) Three IDG Oil LOW PRESS Light S operative, and	ystems are
				 (c) All associated electrical system warning, advisory lights on FE Panel are verified before each flight. 	
	(4) FUEL SYSTEM	1	0	May be inoperative.	
	(5) LOW BRAKE PRESSURE	1	0	May be inoperative provided:	
				(a) Both Brake Pressure Indicating Sy operative, and	stems are
				(b) Both Brake Accumulator LOW PRESS operative.	Lights are
	(6) OIL Press Eng			(Moved to ATA 79).	
	(7) RUDDER HYDR LMTR	1	0	May be inoperative.	
				NOTE: All of the following Lights (items 8 t may be inoperative.	hrough 18)
	(8) AUTO GND SPLRS INOP (-1, -14, -15)	1	0	May be inoperative provided both Spoiler Contrare considered inoperative and are deactivated.	ol Systems
	(9) AUTOMATIC BRAKING	1	0	May be inoperative provided:	
				(a) All lights on Automatic Braking System operative.	n panel are
				OR	
				(Cont)	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR		ISTAK		DATE: 15 APRIL 1994	33-3
(1) Syst	tem & Sequence Numbers	(2) Numb	per Install	led	•
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>33</u>	LIGHTS (Cont)				
17-99	CW Annunciator Panel Lights (Cont)				
	(9) AUTOMATIC BRAKING (Cont)			(b) Automatic Braking system is con inoperative.	nsidered to be
	(10) BRAKE TEMP	1	0	May be inoperative.	
	(11) DUAL A/L NOT AVAIL or APFDS FIRST FAIL (Whichever is installed)	1	0	One may be inoperative OFF.	
		1	0	One may be inoperative ON provided appr not require use of dual Autoload.	oach minima do
	(12) FIRE DET LOOP	1	0	(O) May be inoperative provided:	
				(a) Fire Detection System is verified of each flight, and	perative before
				(b) Loop selectors remain in the A or B p	osition.
	(13) FLAP LRS INOP	1	0	May be inoperative provided FLAP LRS operative.	Aural Signal is
	(14) FLAP LRS LIMITING	1	0	May be inoperative provided Flap Post System is operative.	ition Indicating
	(15) ICING	1	0	May be inoperative.	
	(16) NAV POSITION	1	0	May be inoperative.	
	(17) RUDDER MECH LIMITER	1	0	May be inoperative.	
	(18) Vertical GYRO 3 or ATT 3	1	0	May be inoperative provided associated Gyro or Inertial Navigation System inoperative.	
21-00	Aisle and Ceiling Lighting	-	-	May be inoperative provided:	
				(a) Cabin Emergency Lighting is operativ	re,
				(b) Sufficient lighting is operative for c required duties, and	rew to perform
				(Cont)	

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	33-4
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>33</u>	LIGHTS (Cont)				
21-00	Aisle and Ceiling Lighting (Cont)			(c) Lighting configuration at despatch is the flight crew.	acceptable to
25-01	Galley Lighting Systems				
	(1) Lower Galley	-	0	May be inoperative provided lower galley is	not occupied.
	(2) Cabin Galley	-	0	May be inoperative.	
29-02	Lavatory RETURN TO CABIN Signs			Refer to Item33-29-12.	
29-12	Passenger Notice System ("NO SMOKING/FASTEN SEAT BELTS/RETURN TO CABIN") Signs		-	(M) (O) As required by Air Navigation Legis passenger seat, cabin attendant seat or lavato be occupied from which a "No Smoking/Fast Belt/Return to Cabin" sign is not readily legi or lavatory must be blocked and placarded OCCUPY"	ry may en Seat ble or that seat
				OR	
		-	-	(O) No Smoking/Fasten Seat Belt/Return t may be inoperative and the affected pass cabin attendant seat(s) or lavatories may provided:	senger seat(s),
				(a) The PA system operates normally and heard throughout the cabin during fligh	
				(b) An acceptable procedure is used to not when seat belts must be fastened prohibited and (if applicable) when pas- return to cabin from toilet compartment	smoking is sengers should
				OR	
				(c) Passengers are not carried.	
31-00	Cargo Compartment Lighting Systems	-	0	May be inoperative.	

LOCKHEED L-1011 IKK				
	LOCKHEED L-1011 TRISTAR		DATE: 15 APRIL 1994	33-5
em & Sequence Numbers	(2) Num	ber Install	led	
Item		(3) Nu	mber required for despatch	
			(4) Remarks or Exceptions	
LIGHTS (Cont)				
Wheel Well Lighting Systems				
(1) Main Lights	6	0	Any or all may be inoperative.	
(2) Nose	1	0	May be inoperative provided aircraft is night.	not operated a
Anti-Collision Lights (Red)	4	2	Two may be inoperative provided one upper Anti-Collision Light is operative.	er and one lowe
(1) Daylight Operations	-	0		
(2) Night Operations	-	1		
			-	1
High Intensity Strobe Light Systems	4	0	All may be inoperative.	
Wing and Nose Landing Lights	4	2	Two may be inoperative for night operatio is operative on each side.	ns provided or
	4	0	All may be inoperative provided aircraft is night.	not operated
Nose Gear Taxi Lights	2	0	One or both may be inoperative.	
Runway Turnoff Lights	2	0	One or both may be inoperative.	
	Wheel Well Lighting Systems (1) Main Lights (2) Nose Anti-Collision Lights (Red) (1) Daylight Operations (2) Night Operations High Intensity Strobe Light Systems Wing and Nose Landing Lights Nose Gear Taxi Lights	Wheel Well Lighting Systems6(1) Main Lights6(2) Nose1Anti-Collision Lights (Red)4(1) Daylight Operations-(2) Night Operations-High Intensity Strobe Light Systems4Wing and Nose Landing Lights4Nose Gear Taxi Lights2	LIGHTS (Cont) Wheel Well Lighting Systems (1) Main Lights (2) Nose Anti-Collision Lights (Red) (1) Daylight Operations (2) Night Operations (2) Night Operations (3) Anti-Collision Lights (Red) (4) A (5) Anti-Collision Lights (5) Anti-Collision Lights (6) A (7) A (7	LIGHTS (Cont) (4) Remarks or Exceptions Wheel Well Lighting Systems - (1) Main Lights 6 0 (2) Nose 1 0 Anti-Collision Lights (Red) 4 2 (1) Daylight Operations - 0 (2) Night Operations - 0 (2) Night Operations - 0 As required by Air Navigation Legislation. be inoperative provided one upperative provided the light(s) is carliest practicable opportunity. (2) Night Operations - (2) Night Operations - (3) Night Operations - (4) Remarks or Exceptions - (5) Night Operations - (2) Night Operations - (3) Night Operations - (4) Remarks or Exceptions - (5) Night Operations - (6) Night Strobe Light Systems - (7) High Intensity Strobe Light Systems - (4) Remarks or Exceptions - (5) Note 2: For operative concilision Lights are limited to fli (7) Wing and Nose Landing Lights - (4) 0 <

AIRCRAFT: LOCKHEED L-1011 TRIST				REVISION NO: REVISION 1	PAGE:
	LUCKHEED L-1011 TKK	STAK		DATE: 15 APRIL 1994	33-6
(1) Syst	tem & Sequence Numbers	(2) Num	ber Instal	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>33</u>	LIGHTS (Cont)				
44-00	Navigational Position Light Systems	-	-	One light bulb in each light assembly may for night operations.	be inoperative
		-	0	All may be inoperative provided aircraft is night.	not operated at
45-00	Wing Flood Lights	2	0	One or both may be inoperative for daylight	operations.
		2	1	One may be inoperative for night operations	
		2	0	(O) Both may be inoperative for night opera an alternate means is available and utilised illuminate ice accretion on another outside from the flight deck.	to adequately
51-02	Interior Emergency Lighting Systems				
	(1) Flight Station			NOT USED.	
	(2) Cabin Emergency Exit, Evacuation and Aisle Lights	-	-	Up to 13 (11 in -3 aircraft) may be inoperati	ve provided:
				(a) Inoperative lights are not adjacent or op	pposite, and
				(b) Two of three lights at each entry door a	are operative.
	(3) Cabin EXIT Locator Signs (-1, -3, -14, -15)	-	-	One may be inoperative provided adjacent C EXIT Sign is operative.	Cabin Door
	(4) Cabin Door Exit Signs			NOT USED.	
				(Cont)	
			I	I	

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
		SIAK		DATE: 15 APRIL 1994	33-7
(1) Syst	em & Sequence Numbers	(2) Num	per Installe	ed	
	Item		(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>33</u>	LIGHTS (Cont)				
51-02	Interior Emergency Lighting Systems (Cont)				
	(5) Lower Passenger Lounge Lights (-1, -14)	30	17	Up to 13 may be inoperative provided:	
				(a) One door EXIT or EXIT Locator Sig each exit, cabin stairway and lounge p	
				(b) One ceiling mounted light is operat cross aisle, and at two locations in the	
				(c) One stairway lower tread light, and the landing light is operative,	ne stairway mid-
				(d) Six airstair tread lights are operative adjacent lights are inoperative, and (and base [deboarding] lights), and	
				(e) One bulb in the exterior RH slide ligh	t is operative.
	(6) Lower Galley Lights (-1, -14, -15)	6	3	Three may be inoperative provided galley i during taxi operations.	s not occupied
51-08	Exterior Emergency Lighting System	1	0	May be inoperative provided:	
				(a) The aircraft is not operated at night, a	nd
				(b) Repairs or replacements are carried calendar days.	out within three
				OR	
				(c) Passengers are not carried.	
52-00	Floor Proximity Emergency Escape Path Marking System	1	1	As required by Air Navigation Legislation. lights may be inoperative in accordance wi approved by the Authority for a par configuration.	th arrangements
				If the equipment becomes unserviceable continue the flight or series of flights but an airport where repairs or replacements ca	shall not depart
99-01	Logo Light System	1	0	May be inoperative.	

Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

INTENTIONALLY LEFT BLANK

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	SIAK		DATE: 15 APRIL 1994	34-1
(1) Syst	tem & Sequence Numbers	(2) Num	ber Install	led	I
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>34</u>	NAVIGATION				
00-01	Instrument Source Select Switches	-	0	(O) May be inoperative provided:	
				(a) Associated instruments function p independent sources, and	properly from
				(b) Inoperative switches are not reposi flight.	tioned during
13-03	Standby Airspeed Indicator			NOT USED.	
13-04	Standby Altimeter			NOT USED.	
14-01	Air Data Computer			NOT USED.	
14-03	Servoed Altimeter Systems	-	2	May be inoperative provided one remains op pilot's panel.	erative in each
14-04	Speed Indicating and Warning Systems				
	(1) Airspeed Indicating	-	-	As required by Air Navigation Legislation.	
	(2) Mach Indicating	2	1	One may be inoperative.	
	(3) Airspeed/Mach Aura Overspeed Warning	2	1	One may be inoperative.	
14-05	Vertical Speed Indicating Systems	-	-	As required by Air Navigation Legislation.	
14-06	Air Temp Probes				
	(1) -3 aircraft or -1, -14, -15	2	1	One may be inoperative.	
	Aircraft With SB 093-34-054 or Production Equivalent Incorporated				
				(Cont)	

	AIRCRAFT: LOCKHEED L-1011 TRISTA			REVISION NO: REVISION 1	PAGE:
	LUCKHEED L-IVII IKI	JIAK		DATE: 15 APRIL 1994	34-2
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed	·
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>34</u>	NAVIGATION (Cont)				
14-06	Air Temp Probes (Cont)				
	(2) -1, -14, -15 Aircraft Without SB 093-34-054 Incorporated	2	1	The left probe may be inoperative provide APFD-A system considered inoperative, a NOTE: On -3 aircraft on -1, -14, -15 airc 34-054 or production equivalent	and is not used. craft with SB 093 incorporated,
				TAT is from the left probe, and right probe. On -1, -14, -15 airc 093-34-054 incorporated, both 7 from the right probe.	raft without SB
14-08	True Airspeed (TAS) Indicating System	1	0	May be inoperative.	
				NOTE: Other systems such as Omega . APFMS may be affected.	AHRS, FMS, an
15-01	Static Air Temperature (SAT) Indicating System	1	0	May be inoperative provided:	
				(a) TAT Indicating System is operative	, and
				(b) Associated TAT Air Temp Probe is	operative.
15-02	Total Air Temperature (TAT) Indicating System	1	0	May be inoperative provided:	
				(a) SAT Indicating System is operative,	, and
				(b) Associated SAT Air Temp Probe is	operative.
16-01	Instrument Comparator Monitor and Warning System	1	0	May be inoperative provided Attitude He System (AHRS) is not installed.	ading Reference
16-02	Altitude Alerting System	-	0	As required by Air Navigation Legi inoperative. The aircraft may continue to of flights but shall not depart an air reasonably practicable for repairs or re- made.	he flight or serie port where it

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	ISTAR		DATE: 15 APRIL 1994	34-3
(1) Sys	tem & Sequence Numbers	(2) Num	ber Installe	ed	I
	Item		(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
<u>34</u>	NAVIGATION (Cont)				
21-04	Vertical Gyros	2	1	As required by Air Navigation Legislation. inoperative provided:	One may be
				(a) Approach minima do not require their us	e, and
				(b) Both ADI's are operating normally f sources.	rom separate
21-07	Attitude Director Indicators	2	1	As required by Air Navigation Legislation. inoperative provided:	One may be
				(a) Flight is conducted in day VMC, and	
				(b) Standby attitude indicator is operative.	
21-08	Standby Horizon Indicator	1	0	May be inoperative provided the aircraft is op VMC only.	perated in day
22-00	Magnetic Heading Reference Systems	2	2	Both must be operative.	
22-07	Non-Stabilised Magnetic (Standby) Compass	1	0	(O) Except for extended overwater operations inoperative provided:	, may be
				(a) At least two independent magnetic stabil systems are installed and operative, and	ised compass
				(b) Repairs or replacements are carried out calendar days.	within three

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:			
(1) System & Sequence Numbers (2) Nur		(2) Num	DATE: 15 APRIL 1994 34-4					
	Item							
		-	(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>34</u>	NAVIGATION (Cont)							
32-00	Radio Altimeter Systems	2	0	Both may be inoperative provided approx operational procedures do not require its use				
				NOTE 1: GPWS may be affected.				
				NOTE 2: One operative Radio Altimeter 3 required to conduct CAT II ILS using APFDS.				
33-00	Instrument Landing Systems (ILS)	2	-	As required by Air Navigation Legislation.				
35-00	Marker Beacon System	1	0	As required by Air Navigation Legislation inoperative provided approach minima do use.				
	(1) ADI Repeater Lights	6	0	All may be inoperative.				
42-00	Area Navigation Systems	-	-	As required by Air Navigation Legislation.				
43-00	Inertial Navigation Systems (INS)	-	-	May be inoperative provided:				
				(a) Associated system is not required for heading information,	or attitude an			
				(b) Associated system is not required for a conducted, and	operation bein			
				(c) Approach minima do not require its use	е.			
				NOTE: Other systems such as FMS may be	affected.			

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	SIAK		DATE: 15 APRIL 1994	34-5
(1) Syst	tem & Sequence Numbers Item	(2) Numl			1
			(3) Nu	umber required for despatch	
				(4) Remarks or Exceptions	
<u>34</u>	NAVIGATION (Cont)				
44-00	Weather Radar Systems			 (O) As required by Air Navigation Legislat when flying for the purposes of public trat that a flight may commence if the system is such that: (a) The weather radar display is provide pilot, so long as the aircraft is flying of at which it first becomes reasonably the system to be repaired; or (b) When the weather report or forecasts a commander of the aircraft indicate nimbus clouds or other potentially haz conditions, which can be detected when in working order, are unlikely to b on the intended route or any planned diversor the commander has satisfied himsel weather conditions will be encounter and can be seen and avoided, and the either case operated throughout accordance with any relevant instruction operations manual. 	ansport, except s unserviceable ed to only one nly to the place practicable for available to the that cumulo- ardous weather by the system be encountered rsion therefrom f that any such red in daylight e aircraft is in the flight in
45-00	Ground Proximity Warning System (GPWS)	-	_	 As required by Air Navigation Legislation. inoperative. The aircraft may continue the of flights but shall not depart an airpor reasonably practicable for repairs or repla- made. NOTE: Particular circumstances may require additional or alternate procedures. The alternate procedures would req operator to consider the routes over flying and ensure that the pilot adop path which would give him the pr would otherwise be afforded. 	flight or series rt where it is incements to be re the use of uire the which he is bed a flight
51-00	Distance Measuring Equipment (DME) Systems	-	-	As required by Air Navigation Legislation.	
53-00	ATC Transponder Systems	-	-	As required by Air Navigation Legislation.	

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1 DATE: 15 APRIL 1994	PAGE: 34-6
(1) Sys	tem & Sequence Numbers	(2) Num	l ber Instal		510
	Item		(3) Nu	imber required for despatch	
				(4) Remarks or Exceptions	
<u>34</u>	NAVIGATION (Cont)				
55-00	VHF Navigation Systems (VOR/ILS)	-	-	As required by Air Navigation Legislation.	
55-03	VOR Preamplifiers	2	0	(M) One or both may be inoperative provi VOR preamplifier is deactivated.	ded associated
55-04	Horizontal Situation Indicators	2	1	(O) One may be inoperative provided:	
				(a) At least one independent compass head is available on each pilots instrument pa	
				(b) Approach minima do not require their u	ise.
				NOTE: Particular circumstances may requir additional or alternate procedures.	e the use of
57-00	Automatic Direction Finding (ADF) Systems	-	-	As required by Air Navigation Legislation.	
57-08	Radio Magnetic Indicator (RMI/RDDMI) Systems	-	-	May be inoperative provided associated syster required by operation conducted.	em is not
58-00	OMEGA Systems	-	-	As required by Air Navigation Legislation.	
61-00	Performance Management System (PMS)	1	0	May be inoperative.	
61-01	Flight Management Systems (FMS)	-	0	May be inoperative provided:	
				(a) Associated system is not required on aircraft to support inoperative Glan Alpha Displays, and	
				(b) Associated System is not required for c conducted.	peration being

				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	ISTAK		DATE: 15 APRIL 1994	34-7
(1) Syst	tem & Sequence Numbers	(2) Numl	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>34</u>	NAVIGATION (Cont)				
61-02	Traffic Alert Collision Avoidance System (TCAS)				
	(1) TCAS System	-	0	May be inoperative provided the system is a secured.	leactivated and
				If the aircraft is intended to be flown in air TCAS operation is required, it may fly for 10 calendar days with the equipmen unserviceable, but shall not depart from where it is reasonably practical for the ec- repaired or replaced.	not more than nt completely an aerodrome
	(2) Combined TA and RA Dual Displays	2	1	(O) May be inoperative on the non-flying pit provided:	lot side
				(a) TA and RA elements and audio operative on flying pilot side, and	functions are
				(b) TA and RA display indications are visi flying pilot.	ible to the non-
	(3) Resolution Advisory (RA) Display System(s)	2	1	(O) One may be inoperative on non-flying p	ilot side.
		-	0	(O) May be inoperative provided:	
				(a) All Traffic Alert (TA) display eleme command audio functions are operative	
				(b) TA only mode is selected by the crew.	
	(4) TA Displays System(s)	-	0	(O) May be inoperative provided all install and audio functions are operative.	ed RA display
62-00	Windshear System	1	0	May be inoperative.	

Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

INTENTIONALLY LEFT BLANK

AIR	CRAFT:			REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 T	RISTAR		DATE: 15 APRIL 1994	35-1
(1) Sys	tem & Sequence Numbers	(2) Numb	er Installe		I
	Item	Г	(3) Nur	nber required for despatch	
			(0) 1101		
				(4) Remarks or Exceptions	
05	0)//OEN				
<u>35</u>	OXYGEN				
10-00	Flight Station Oxygen System	1	-	As required by Air Navigation Legislation.	
21-00	Passenger Oxygen Systems	1	0	(M)(O) As required by Air Navigation L automtic presentation system may provided:-	
				(a) The manual deployment system opera	tes normally.
				(b) The flight is limited to FL 300 or belo	w.
		-	-	(M)(O) One or more passenger service un be inoperative without flight altitude restric	
				(a) Affected seats are blocked and placa occupancy, and	rded to prevent
				(b) Units operate normally for all usable toilet compartments and flight attenda	
				OR	
(Cont	.)				

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1 DATE: 15 APRIL 1994	PAGE: 35-2
(1) System & Sequence Numbers (2) Number In				33-2
Item	[(2) Nu	mber required for despatch	
		(3) Nu		
			(4) Remarks or Exceptions	
35 OXYGEN (Cont)				
21-00 Passenger Oxygen Systems (cont)	1	0	(O) May be inoperative provided:	
			(a) Flight is not conducted where the mir altitude is above 12,000 feet MSL.	imum en rout
			(b) Both air conditioning packs operate no	rmally.
			(c) All other components of the pressur operate normally.	risation systen
			(d) Maximum flight altitude does not exce	ed FL 250.
			(e) Portable oxygen units containing surfor 30 minutes endurance are provided passengers.	
			(f) Passengers are appropriately briefed, a	nd
			(g) Repair or replacement is carried ou calendar days.	t within thre
			NOTE: The ANO oxygen requirements are Schedule 4 Scales L1 and L2. The depends upon date of first issue of airworthiness. Therefore a given may have examples subject to eithe scales of requirements.	effectivity a certificate of type of aircra
			The amount of oxygen required varies between L1 and L2, particularly for op FL250/300. Provided the operator suppli- amount of oxygen, despatch is considered ac	erations aboves the require
(Cont)				
(Cont)				

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:			
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	35-3			
(1) System & Sequence Numbers (2) Number In		per Install		I				
	Item		(3) Nu) Number required for despatch				
				(4) Remarks or Exceptions				
<u>35</u>	OXYGEN (Cont)							
21-00	Passenger Oxygen Systems (cont)							
				Since there are a large number of permu proposed to refer to Air Navigation Legisla the operator to adapt the MEL as necessar constraints applicable. The main constraints a	tion to allow ry within the			
				(a) The date of first issue of a C Airworthiness for individual aircraft.	ertificate of			
				(b) The aircraft altitude and cabin altitude flown, and	de on routes			
				(c) The numbers of passengers and crew car	ried.			
31-00	Portable Oxygen Dispensing Units (Bottle & Mask) (Therapeutic)	-	-	As required by Air Navigation Legislation. A of those required by Air Navigation Legislation unserviceable.				
				Note: The portable oxygen supplies require L1 and L2 are totally separate from the requirements of Scale R2.				
31-07	Lower Galley Portable Gaseous Oxygen Cylinder with Demand	2	0	(O) Both may be inoperative provided:				
	Regulator and Full-Face Smoke Mask			(a) Lower galley is not occupied, and				
				(b) Repairs or replacements are carried out calendar days.	t within three			
31-08	Protective Breathing Equipment (PBE)	-	-	As required by Air Navigation Legislation. (Refer to 25-63-01)				

Civil Aviation Authority

MASTER MINIMUM EQUIPMENT LIST

INTENTIONALLY LEFT BLANK

	LOCVIEED L 1011 TD	ICTAD		REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	36-1
(1) Syst	tem & Sequence Numbers	(2) Num	ber Instal	led	I
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>36</u>	PNEUMATIC				
11-00	Engine Bleed Minimum Pressure Control System (MPCS)	2	1	(O) One may be inoperative provided takeous is accomplished with either all packs OFF pack ON.	
	(1) (524) Series Wing Engines	2	0	(O) One or both may be inoperative provide	d:
	Only With SB 093-36-044 or Production Equivalent Incorporated			(a) Ambient temperature at both departure airports is at or below +30oC.	and arrival
				OR	
				(b) Ambient temperature at departure or a above +30oC, and	urrival airport is
				(c) APU air is available to the B2 and C takeoff and landing.	22 ATM during
11-01	High Pressure (HP) Bleed Valve	3	2	(M) (O) One may be inoperative provided:	
				(a) HP Bleed Valves and Engine Is associated with the remaining two ble operative, and	
				(b) If affected valve is associated with a 5 mounted engine, associated Engine B considered to be inoperative.	
				NOTE 1: If valve has failed CLOSED, or CLOSED using the HI PRESS NO maintenance action is requi	switchlight,
				NOTE 2: Do not open associated HP value breaker, unless value is mecha CLOSED.	
11-04	High Pressure (HP) Bleed Valve Controllers	3	2	(M) One may be inoperative provided assoc Valve is secured CLOSED.	iated HP Bleed

AIR	CRAFT:	STAD		REVISION NO: REVISION 1	PAGE:		
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	36-2		
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Insta	illed			
	Item	(3) Number required for despatch					
				(4) Remarks or Exceptions			
<u>36</u>	PNEUMATIC (Cont)						
11-08	Bleed Air Ejectors	3	2	(M) (O) One may be inoperative provided:			
				(a) Ejector is secured CLOSED.			
				OR			
				(b) Associated HP Bleed Valve is secured remains CLOSED using the HI PRESS			
11-11	Bleed Air Temperature Sensors	3	2	(M) (O) One may be inoperative provided Bleed Valve is secured CLOSED or rema using the HI PRESS switchlight.			
11-14	Bleed Air Temp Limiting System Sequencing and Overtemp Switches	6	4	(M) (O) Both switches in any one bleed air sy inoperative provided:	ystem may be		
				(a) Associated HP Bleed Valve is secured C	CLOSED.		
				OR			
				(b) Associated HP Bleed Valve remains C the HI PRESS switchlight.	LOSED using		
		6	3	(M) One switch in each bleed air sys inoperative.	tem may be		
11-18	Engine Isolation Valves	3	2	(M) (O) One may be inoperative provided:			
				(a) HP Bleed Valve and Engine Isolation remaining two bleed channels are opera			
				(b) Affected valve is verified CLOSED afte	er engine start,		
				(c) Both Crossbleed Valves are operative, a	und		
				(d) Opposite side Pack Flow Control Valve either No. 1 or No. 3 Engine Isola inoperative.			
				NOTE 1: Starter assist relight will not be a engine with an inoperative CLO Isolation Valve.			
				(Cont)			
				I			

AIRCRAFT:		Ιςτλρ		REVISION NO: REVISION 1 PAGE:				
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994 36-3				
(1) Sys	stem & Sequence Numbers (2) Num) Number Installed				
	Item		(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>36</u>	PNEUMATICS (Cont)							
11-18	Engine Isolation Valves (Cont)			 NOTE 2: One Engine Isolation Valve may be considered operative with the reverse flow feature inoperative. NOTE 3: Refer to Flight Manual Limitations for 				
				operation with Engine Isolation Valve and A Control Valve (slugger) inoperative.				
11-41	Over-Pressure Shutoff Valves	3	2	(O) One may be inoperative provided:				
				(a) Associated HP Bleed Valve is operative,				
				(b) Associated HP Over-Pressure Switch is operative and				
				(c) Associated Engine Isolation Valve is operative.				
11-44	High Pressure (HP) Over-Pressure Switches	3	2	One may be inoperative provided:				
				(a) Associated Engine Isolation Valve is operative, and				
				(b) Associated Over-Pressure Shutoff Valve is operativ				
				OR				
				(c) Associated HP Bleed Valve is secured CLOSED remains CLOSED using the HI PRESS switchlight.				
12-02	APU Bleed Air Shutoff Valve	1	0	(M) May be inoperative provided value is secur CLOSED for flight.				
				NOTE 1: Valve may be manually opened to provide APU air for ground use.				
				NOTE 2: APU air will not be available for inflight use				
				1				

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	36-4
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
36	PNEUMATICS (Cont)				
14-01	Aft Fuselage Isolation Valve	1	0	(M) (O) May be inoperative provided:	
				(a) Associated valve is secured OPEN, and	
				(b) All Engine Isolation Valves and both Valves are operative.	h Crossblee
				OR	
				(c) Associated valve is secured CLOSED,	
				(d) All Engine Isolation Valves and bo Valves are operative, and	th Crossfee
				(e) Both A and B Area Overheat Detection for areas H and J are operative.	System loop
14-02	Crossbleed Valves	2	1	(M) One may be inoperative provided:	
				(a) Associated valve is secured OPEN, and	
				 (b) Opposite (No. 1 or 3) HP Bleed V Isolation Valve, Bleed Air Ejector and P operative. 	
21-00	Bleed Air Pressure Indicating Systems	3	2	One may be inoperative provided both Crossfe are operative.	eed Valves
22-00	A and B Area Overheat Detection Systems	2	1	(O) One System (A or B) may be inoperative p Loop Selector is positioned to the operative Lo	
22-99	Overheat Detection Systems				
	(1) Detection Loops Nacelle/ Pylon	6	3	(O) One complete Loop (A or B) for each en inoperative provided Loop Selector is position operative Loop.	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994	49-1
(1) System & Sequence Numbers (2) Number Ir			er Install	ed	<u> </u>
	Item	Г	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>49</u>	AIRBORNE AUXILIARY POWER				
00-01	Auxiliary Power Unit (APU)	1	0	(M) May be inoperative provided:	
				(a) APU Bleed Air Shutoff Valve is secured	CLOSED,
				(b) APU is not required for Electrical Pneumatic Air, and	Power or
				(c) Procedures do not require its use.	
00-03	APU Fault Flag Reset	1	0	May be inoperative.	
11-05	APU Air Inlet Door Actuator	1	0	(M) May be inoperative provided door is se when APU is operated.	cured OPEN
11-15	VENT CLOSED Light	1	0	(M) (O) May be inoperative provided ven OPEN.	t is secured.
11-16	DOORS IN TRANSIT Light	1	0	May be inoperative.	
31-14	FUEL FILTER Light or IGV OPEN Light	1	0	May be inoperative.	
31-15	LOW FUEL PRESS Light	1	0	May be inoperative.	
31-16	APU Primary and Secondary Emergency Fuel Shutoff Valves	2	0	(M) One or both may be inoperative provided:	
				(a) Associated valve is secured CLOSED, ar	ıd
				(b) APU is considered inoperative and not us	sed.
51-18	DON'T LOAD Light	1	0	(O) May be inoperative provided APU generation is verified within limits before loading generation	
51-21	APU Differential Pressure Switch	1	0	May be inoperative.	
		i 1		1	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRIS	STAR		DATE: 15 APRIL 1994	49-2
(1) Sys	tem & Sequence Numbers	(2) Numb	ber Installe		
	Item		(2) Nu	mber required for deepetab	
			(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
<u>49</u>	AIRBORNE AUXILIARY				
	POWER (Cont)				
51-22	APU Manual Mode Select Functions (MIN MODE, NORM, MAX MODE)	3	0	(O) All may be inoperative provided:	
				(a) APU operates properly, and	
				(b) Automatic mode change function (MIN operative.	to MAX) is
71-03	OVER TEMP TGT Fault Flap	1	0	(M) May be inoperative provided it is veri auto-shutdown function is operative.	fied that the
75-03	OVER SPEED N2 Fault Flat	1	0	(M) May be inoperative provided it is veri auto-shutdown function is operative.	fied that the
91-05	HIGH TEMP OIL Fault Flag	1	0	(M) May be inoperative provided it is veri auto-shutdown function is operative.	fied that the
91-06	LOW PRESS OIL Fault Flag	1	0	(M) May be inoperative provided it is veri auto-shutdown function is operative.	fied that the
91-07	LOW OIL QUANTITY Light	1	0	May be inoperative provided oil tank quanti adequate for operation being conducted.	ty is verified

AIRCRAFT:	REVISI	ION NO: REVISION 1	PAGE:		
LOCKHEED	DATE:	15 APRIL 1994	52-1		
(1) System & Sequence Numbers	(2) Number	Installed		1	
ltem		(3) Number requi	red for despatch		
		(4) Rema	arks or Exceptions		
52 DOORS					
11-00 Emergency Exits (Includi Doors, Galley Service Do			O) As required by Air Navigationary be inoperative provided:	on Legislation. One	
		a	The exit is secured closed prior and is not used for any purpose on board.		
		(b) A	All other exits and escape slides	are fully operative,	
		t	The number of passengers carri the seats which they occupy is arrangements approved by the A the particular aircraft configurat	s in accordance with Authority in relation to	
		a	All the emergency exit and/or and lights associated with the obscured,		
		Ċ	The exit is marked by a red of diameter with a horizontal whit the work "NO EXIT" in red lett	e bar across it bearing	
			Passengers are not seated near the subject to aircraft centre of grav		
		a t r r a t	The pre-take-off briefing the accurately represent the current the aircraft's escape facilities. It is a briefing using a means, or a briefing by referent must be immediately qua announcement to draw the attent the fact that a particular exist displays a red "NO EXIT" disc,	state and condition of An oral briefing by automatic audio-visual ace to a briefing card, lified by an oral ntion of passengers to	
		s	Where the evacuation drill call seated by the inoperative exit direct passengers to a serviceable	, they are briefed to	
			Repairs or replacements are ca calendar days.	rried out within three	
AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1 DATE: 15 APRIL 1994	PAGE: 52-2
--------------------------------------	--	---------	------------	---	-------------------
(1) System & Sequence Numbers		(2) Num	ber Instal		
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>52</u>	DOORS (Cont)				
12-00	Cabin Door Actuation Systems				
	(1) Emergency Open Actuation Systems	-	-	One may be inoperative provided associa considered inoperative.	ted Cabin Door
	(2) Electrical Actuation Systems	-	-	(M) (O) Two may be inoperative provide	d:
				(a) Emergency Open Actuation is opera	ative, and
				(b) Mechanical Actuation is verified op	erative.
				OR	
				(c) Associated Cabin Door is considere	d inoperative.
				NOTE: Some aircraft have electrical act installed on all eight doors.	uation systems
	(3) Mechanical Actuation System Handcrank	-	-	(M) Two may be inoperative provided:	
				(a) Emergency Open Actuation is opera	ative, and
				(b) Electrical Actuation is verified oper	ative.
				OR	
				(c) Associated Cabin Door is considere	d inoperative.

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:		
				DATE: 15 APRIL 1994	52-3		
(1) Sys	tem & Sequence Numbers	(2) Numb	(2) Number Installed				
	ltem		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>52</u>	DOORS (Cont)						
34-00	Lower Cargo Door Normal and Manual Actuation Systems (C1, C2, C3 DOORS)	6	3	(M) One Normal or Manual System on each d inoperative provided associated door is verifie and LOCKED.			
				NOTE 1: Cargo Door Lock Actuator Indica (External Green Light) and centre port cannot be used to verify that CLOSED and LOCKED.	viewing		
				NOTE 2: Cargo Door Direct View System 105 or production equivalent) ca verify that door is CLOSED and I	in be used		
				NOTE 3: Refer to Maintenance Manual or I MMEL Procedures Manual.	Lockheed		
	Lower Cargo Door Guides (C1, C2, C3)	6	5	(M) One lower corner fitting on each door may inoperative or missing provided:	y be		
				(a) Associated door is manually CLOSED, a	nd		
				(b) Door is verified CLOSED and L accordance with approved procedures.	OCKED		
				NOTE 1: Refer to Maintenance Manual or MMEL Procedures Manual.	Lockheed		
				NOTE 2: Any damage to the fuselage/door must be repaired in accordance w procedures contained in the struct manual before flight.	ith approv		
36-00	Lower Cargo Door Normal and Manual Actuation System (C-1A Door)	2	1	(M) One Normal or Manual System may be in provided door is verified CLOSED and LOCK			
				NOTE: Refer to Maintenance Manual or Loc MMEL Procedures Manual.	kheed		

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
(1) System & Sequence Numbers (2) Number In		her Install	DATE: 15 APRIL 1994	52-4	
(1) Oys	Item		r		
			(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>52</u>	DOORS (Cont)				
42-00	Lower Galley Door Retractors (-1, -14, -15)	2	0	(M) (O) Both may be inoperative provided:	
				(a) Cabin crew is briefed accordingly, and	
				(b) Placards are provided both in the flight the galley door.	station, and
51-02	Lockable Flight Deck Door				
	(1) Door Lock	1	0	As required by Air Navigation Legislation. may be inoperative provided:	The door lo
				(a) The latch is operative and the door can the appropriate position, either closed of	
				(b) Repairs or replacements are carried or calendar days.	ut within thr
	(2) Door and Door Latch	1	0	(M) As required by Air Navigation Legisla or door latch may be inoperative provided:	tion. The do
				(a) If the door cannot be secured in the position, either closed or open, it shall and	
				(b) Repairs or replacements are carried or calendar days.	ut within thr

AIRCRAFT: LOCKHEED L-1011 TRIS		STAR		REVISION NO: REVISION 1	PAGE:		
		DATE: 15 APRIL 1994 52-5					
(1) Sys	tem & Sequence Numbers	(2) Number Installed					
	Item		(3) Nur	nber required for despatch			
				(4) Remarks or Exceptions			
52	DOORS (Cont)						
64-00	Lower Lounge Air Stair System						
	(1) Manual Actuation	1	0	May be inoperative provided lower lounge	is not occupie		
	(2) Electrical Actuation	1	0	(M) May be inoperative provided:			
				(a) Manual Actuation is operative, and			
				(b) After each use, the air stair is che security when CLOSED.	ecked for proj		
71-00	Door Warning Light Systems						
	(1) DOOR OPEN Annunciator Light			NOT USED.			
	(2) Cabin Door, Service Door, Duct Door, Galley Door and Escape Hatch Annunciator Lights (FE Annunciator Panel)	-	-	 (M/O) Six may be inoperative provided: (a) All doors and hatches are confirmed inspection to be closed and locked in to each departure and, (b) Fasten seat belt sign remains on, an verbally briefed prior to departure with their seat belts fastened through NOTE: Refer to Maintenance Manual or MMEL Procedures Manual. 	d passengers to remain sea but the flight.		
	(3) C1, C2, C3 Cargo Lock Actuator Indicating Lights (External Green Light)	3	0	All may be inoperative.			

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:
			DATE: 15 APRIL 1994	52-6
(1) System & Sequence Numbers	(2) Num	ber Insta	alled	•
Item		(3) N	umber required for despatch	
			(4) Remarks or Exceptions	
52 DOORS (Cont)				
(4) C1, C2, C3 Cargo Door Annunciator Light (FE Annunciator Panel)	3	0	(M) All may be inoperative provided:	
			(a) Associated door is verified CLOSED in accordance with approved procedur	
			(b) Associated door actuator circuit break COLLARED.	er is OPEN and
			NOTE 1: Refer to Maintenance Manual of MMEL Procedures Manual.	or Lockheed
			NOTE 2: Cargo Door Lock Actuator Ind (External Green Light) and cen port cannot be used to determ CLOSED and LOCKED.	tre viewing
			NOTE 3: Cargo Door Direct View Syste 105) or production equivalent) determine that door is CLOSEI LOCKED.	can be used to
(5) C1A Cargo Door Annunciator Lights			NOT USED.	
	I	I	1	

AIRCRAFT:		REVISION NO: REVISION 1	PAGE:
LOCKHEED L-1011	TRISTAR	DATE: 15 APRIL 1994	56-1
(1) System & Sequence Numbers	(2) Number		
Item			
	(3	 Number required for despatch 	
		(4) Remarks or Exceptions	
56 WINDOWS			
10-01 Windshield		Refer to Maintenance Manual.	
		I	

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:			
				DATE: 15 APRIL 1994	73-1		
(1) Sys	tem & Sequence Numbers	(2) Number Installed					
	Item		(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>73</u>	ENGINE FUEL AND CONTROL						
21-00	Engine Overtemp/Overspeed Control Systems	3	0	(M) (O) All may be inoperative provided:			
				(a) Associated N1, N2, N3 and TGT Indiare operative,	icating Systems		
				(b) Engine parameters are manually ma operating limits,	intained within		
				 (c) Associated Fuel Control Amplifier ov in OVRD, or the electrical connector trim orifice (engine fuel pump disconnected, and 	on the variable		
				(d) System is repaired within 25 flight hou	ırs.		
21-01	Fuel Flow Regulator Ground Idle Control Systems	3	2	(O) One may be inoperative provided associ Reverser System is operative.	iated Thrust		
21-23	Air Control Valve (Altitude Slugger Valve) (-3, -13, -14)	3	0	(O) All may be inoperative provided bleed a associated engine is maintained for flights a			
				NOTE: Refer to Flight Manual Limitation with both the Engine Isolation Valu Control (Slugger) inoperative.			
31-00	Engine FUEL PRESSURE Light Systems (FE Panel)	3	2	(M) One may be inoperative provided:			
				(a) Fuel filter is replaced,			
				(b) Associated engine fuel pump is ver and	ified operative		
				 (c) Repairs or replacements are carried or calendar days. 	out within three		
				NOTE: It may be necessary to install a k fuel low pressure switch in order t fuel pump operation.			

AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:	
	LOCKHEED L-1011 IR	ISTAR		DATE: 15 APRIL 1994	73-2
(1) Sys	tem & Sequence Numbers	(2) Numb	er Installe	ed	-1
	Item	l r	(3) Nur	mber required for despatch	
		\neg		(4) Remarks or Exceptions	
70					
<u>73</u>	ENGINE FUEL AND CONTROL (Cont)				
34-00	Engine Fuel Flow and Fuel Used Indicating Systems	3	2	(O) One may be inoperative provided:	
				(a) Associated Fuel Quantity Indicating operative, and	g system is
				(b) Repairs or replacements are carried ou calendar days.	t within three
37-00	Fuel Temperature Indicating Systems				
	(1) TANK	1	0	May be inoperative.	
	(2) ENG 1, 2, 3	3	0	All may be inoperative provided as Temperature Indicating System is operative.	sociated Oil

AIR	AIRCRAFT: LOCKHEED L-1011 TRISTAR			REVISION NO: REVISION 1	PAGE:			
(1) 0:			bor Install	DATE: 15 APRIL 1994	74-1			
(1) Sys	stem & Sequence Numbers Item	(2) Num	(2) Number Installed					
		_	(3) Nu	mber required for despatch				
				(4) Remarks or Exceptions				
<u>74</u>	IGNITION							
11-01	High Energy Ignition Systems	6	3	(M) (O) One system (A or B) for each inoperative provided not more than o inoperative.				
11-02	Continuous Ignition Systems	6	3	(M) One system (A or B) for each inoperative.	engine may be			

MASTER MINIMUM EQUIPMENT LIST

TRISTAR (2) Numb		DATE:	15 APRI	L 1994	75-1	
(2) Numb	oor Inotolle				, 2 1	
1	Jer mstalle	ed			· · · ·	
	(3) Number required for despatch					
		(4) Remar	ks or Except	tions		
3	0	(M) Al OPEN d	l may be i or CLOSEI	noperative provide D.	d associated valve:	
	3	3 0	3 0 (M) A1	3 0 (M) All may be i	3 0 (M) All may be inoperative provide OPEN or CLOSED. 3 0 (M) All may be inoperative provide OPEN or CLOSED.	

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:		
				DATE: 15 APRIL 1994	77-1		
(1) Sys	tem & Sequence Numbers Item	(2) Numb	(2) Number Installed				
	item	[(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
77	ENGINE INDICATING						
11-00	EPR Indicating Systems	3	2	(O) One may be inoperative provided:			
				(a) An intermix of engines is not installed,			
				(b) All other engine parameters are normal			
				(c) Associated N1, N2, N3 and Fuel Fl	-		
				Systems are operative,	iow maleating		
				(d) Appropriate N1 thrust setting data is av	ailable,		
				(e) Limited gross weights contained in the for takeoff and or climb are reduced (6,000 lb),			
				(f) Reduced thrust operation is not used, an	nd		
				(g) System is repaired within 25 flight hour	rs.		
	(1) Digital Indicators	3	0	All may be inoperative.			
12-00	Instrument Limit Lights (N1, N2, TGT)	12	0	All may be inoperative.			
12-04	N1 RPM Indicating Systems	3	2	(O) One may be inoperative provided:			
				(a) Associated EPR, N2, N3 and Fuel F Systems are operative, and	low Indicating		
				(b) Repairs or replacements are carried or calendar days.	ut within three		
	(1) Digital Indicators	3	0	All may be inoperative.			
12-06	N2 RPM Indicators	3	2	(M) One may be inoperative provided:			
				(a) Associated EPR, N1, N3, TGT and operative,	Fuel Flow are		
				(b) Associated Engine Overtemp/Overs System is verified operative before each			
				(Cont)			

AIRCRAFT:			REVISION NO: REVISION 1 PAGE:				
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994 77-2			
(1) Sys	tem & Sequence Numbers	(2) Numb	(2) Number Installed				
	Item	[(3) Nu	mber required for despatch			
				(4) Remarks or Exceptions			
<u>77</u>	ENGINE INDICATING (Cont)						
12-06	N2 RPM Indicators (Cont)			 (c) If Engine 2 N2 RPM Indicator is inoperative, Engine 2 FAIL LIGHT is considered inoperative, and (d) Repairs or replacements are carried out within three calendar days. NOTE 1: Components of the N2 RPM Indicating System other than the Indicator are required to support the Engine Overtemp/Overspeed Control System. NOTE 2: With Engine 2 N2 RPM Indicator inoperative, 			
12-07	N3 RPM Indicating Systems	3	2	 Refer to Flight Manual Performance for inoperative Engine 2 Fail Light. (M) (O) One may be inoperative provided: (a) Associated EPR, N1, N2 and Fuel Flow Indicating Systems are operative, and (b) Repairs or replacements are carried out within three calendar days. 			
	(1) Auto-cutoff Engine Starting Functions	3	0	(O) May be inoperative provided engine start switches manually disengage starter.			
	(2) Digital Indicators	3	0	All may be inoperative.			
				NOTE: For starting procedure when operating with an N3 indicating system inoperative, see Lockheed MMEL Procedures Manual or Operating Manual.			
13-00	Rated EPR Computer System	1	0	May be inoperative.			
14-00	ENG 2 FAIL Indicating Light System	1	0	May be inoperative provided aircraft is operated in accordance with Flight Manual for performance penalty.			

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:			
LOCKHEED L-1011 TRISTAR				DATE: 15 APRIL 1994 77-3				
(1) Sys	tem & Sequence Numbers	(2) Numb	per Installe	ed				
	ltem		(3) Nur	nber required for despatch				
				(4) Remarks or Exceptions				
<u>77</u>	ENGINE INDICATING (Cont)							
21-00	TGT Indicating Systems							
	(1) Needle Indications			NOT USED.				
	(2) Digital Indications	3	0	All may be inoperative.				
22-00	Channels A & B Turbine Cooling Air Overheat Detection Systems	6	3	 (M) (O) One Channel (A or B) for each enginoperative provided: (a) Circuit breaker for affected channel COLLARED, and (b) Remaining channel is verified operatideparture. 	is OPEN and			
31-00	Channels A and B-Airborne Vibration Monitor (AVM) Systems	6	3	 (M) (O) One Channel (A or B) for each enginoperative provided: (a) Operator has established flight crew monitoring the AVM level for all recording them for succeeding flights, (b) OIL FILTER PRESSURE Light associated engine is operative, (c) OIL PRESS ENG Light System for assis operative, and (d) Aircraft is operated in accordance with limitations. 	procedures for engines, and system for sociated engine			

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:		
			bor lost-	DATE: 15 APRIL 1994	78-1		
(1) System & Sequence Numbers Item			(2) Number Installed				
		-	(3) Nu	mber required for despatch	r despatch		
				(4) Remarks or Exceptions			
<u>78</u>	ENGINE EXHAUST						
31-00	Reverser Systems	3	2	(M) (O) One may be inoperative provided:			
				(a) Associated reverser is deactivated and forward thrust position, and	secured in the		
				(b) Operations are conducted in accorda Flight Manual.	ance with the		
31-33	Reverser Indicating Light Systems						
	(1) UNLOCK, or TRANSIT, or REVERSER UNLOCK (Pilot Panel)	3	2	(M) (O) One may be inoperative provided:			
				(a) All other reverser indicating lights are o	operative,		
				(b) Associated reverser is verified S LOCKED after each actuation, and	TOWED an		
				(c) Associated light is either OFF or is cov	ered.		
	(2) REVERSE, or OPERATING, or FULL REVERSE, or REVERSER IN TRANSIT (Pilot Panel)	3	2	(M) (O) One may be inoperative provided:			
				(a) All other reverser indicating lights are of	perative,		
				(b) Associated reverser is verified S' LOCKED after each actuation, and	TOWED at		
				(c) Light is either OFF or is covered.			
	(3) Reverser Pressure or Reversers Operating			NOT USED.			

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TRI	STAR		DATE: 15 APRIL 1994	79-1
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install		
	Item		(3) Nu	mber required for despatch	
		1			
				(4) Remarks or Exceptions	
<u>79</u>	ENGINE OIL				
31-02	OIL Filter Pressure Lights			NOT USED.	
31-03	ENG OIL PRESS Lights (Pilot Annunciator Panel)	3	2	(O) One may be inoperative provided:	
				(a) Both AVM Channels A and B for the engine are operative,	e associated
				(b) Associated Oil Temperature Indicating operative,	System is
				(c) Associated Oil Quantity Indicating operative, and	System is
				(d) Repairs or replacements are carried out calendar days.	within three
34-00	Oil Temperature Indicating Systems	3	2	(O) One may be inoperative provided:	
				(a) Oil Quantity Indicating Systems for assoc is operative,	iated engine
				(b) Fuel Temperature Indicating System for engine is operative, and	r associated
				(c) Repairs or replacements are carried out calendar days.	within three
				NOTE 1: Approximate oil temperature of an 22B series engines can be obtaine 15øC to associated engine fuel tem indicator.	d by adding
				NOTE 2: Approximate oil temperature of an 524B Series engine can be obtaine the following appropriate value to engine fuel temperature indicator:	d by adding
				Takeoff: +85øC Climb +70øC Cruise +50øC	

AIRCRAFT:				REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	AISTAR		DATE: 15 APRIL 1994	79-2
(1) Sys	tem & Sequence Numbers	(2) Numbe	er Installe		
	Item	Г	(0) N		
		-	(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>79</u>	ENGINE OIL (Cont)				
37-00	Oil Quantity Indicating Systems	3	2	(M) (O) One may be inoperative provided	
				(a) Associated oil tank is filled to the maximum recommended quantity in the manufacturers servicing instruction departure, and	accordance with
				(b) Repairs or replacements are carried calendar days.	out within three

AIRCRAFT: LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:			
(1) Svs	tem & Sequence Numbers	(2) Num	DATE: 15 APRIL 1994 80-1 (2) Number Installed (2) Number Installed					
Item								
		_	(3) Nu 	mber required for despatch				
				(4) Remarks or Exceptions				
<u>80</u>	STARTING							
11-02	Starter VALVE OPEN Light Systems	3	2	(M) (O) One may be inoperative provided Starter Control Valve is verified CLOS start.	associated ED after engine			
11-08	Starter Control Valve Systems	3	2	(M) (O) One may be inoperative provided associated is manually CLOSED after engine start.				

MASTER MINIMUM EQUIPMENT LIST