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The TRs should be incorporated in the order in which they were issued, as it is possible that a TR may be superseded by a later one.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

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**

- 1. 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 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.

"As required by Air Navigation Legislation / Operating Requirements": 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).

29 October 2001

# 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.

29 October 2001

# 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.

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.

29 October 2001

# 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)				
(1) ACAS II System	A		0	<ul> <li>(O) (M) As required by Air Navigation Legislation.</li> <li>May be inoperative provided the system is deactivated and secured, and</li> <li>(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</li> <li>(b) Repairs or replacements must be carried out within 10 calendar days.</li> <li>Note: Local airspace requirements may require a permission to proceed or impose a more restrictive rectification interval.</li> </ul>
(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)

29 October 2001

# 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)	С	-	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:

#### **GLOBAL TEMPORARY REVISION INDEX**

AIRCRAFT TYPE:	G1	G2	G3	G4	G5	G6
Airbus Industrie A300-600				<b>√</b>	1	<b>√</b>
Airbus Industrie A319/A320/A321 Supplement ATR 42				√ √	√	
ATR 72				N al	V	
BAC 1-11		<b>√</b>		1	V	.1
		V		<b>1</b>		Ŋ
BAe (HS) 125 series B up to 800B				V		٧
BAe (HS) 748		<b>V</b>		√		√
Beech F90/200/B200/B200C	$\checkmark$			√		$\checkmark$
series Beech B90/C90/C90A/E90	<b>√</b>			<b>√</b>		<b>√</b>
Beech 100/A100	<b>√</b>			<b>√</b>		<b>V</b>
Beechjet 400/400A and MU300				√		<b>V</b>
Boeing 707-300 series				√		<b>V</b>
Boeing 727-100 and 200 series				√		
Boeing 737-100/200/300/400/500 series Supplement				√	<b>√</b>	
Boeing 747-100/200 series				٧	٧	
Boeing 747-400 Supplement				<b>V</b>	٧	
Boeing 757 Supplement				٧,	√,	,
Boeing 767 Supplement				٧,	√	٧,
Canadair Challenger				<b>√</b>		٧
Cessna Citation CE-500 series Supplement				<b>V</b>		
Cessna CE-525 Supplement				√		
Cessna Citation CE-650 Supplement				√		
Cessna CE-208/208A/208B	√			√		√
Cessna 401/402/404/411	√			√		√
Reims / Cessna 406/F406	√			<b>√</b>		√
Cessna 414/421	√			√		√
Cessna 425/441	$\checkmark$			√		√

20 March 2002

# MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

## **GLOBAL TEMPORARY REVISION INDEX (Cont.)**

AIRCRAFT TYPE:	G1	G2	G3	G4	G5	G6
Dassault Aviation Fan Jet				1		<b>√</b>
(Falcon 20) Dassault Aviation Mystere Falcon 900		1		√		√
Dassault Aviation Falcon 900EX				$\checkmark$		
De Havilland DHC-6	√			√		$\checkmark$
De Havilland DHC-7	√	√		√		$\checkmark$
De Havilland DHC-8				√	√	
Dornier 228	√			√		$\checkmark$
Embraer EMB-110	√			√		$\checkmark$
Embraer EMB-120				√		
Fokker F27	√	√		√	√	$\checkmark$
Fokker F100/F70 Supplement				<b>√</b>	<b>√</b>	
Gulfstream Aerospace				√		√
Gulfstream IV Islander BN-2A/BN-2B	ا			ا		اء
	V			N al		V N
Learjet 35/36/55				ν,		ν,
Lockheed L-188 Electra				√		٧
Lockheed L-1011 Tristar				√		√
MCDonnell Douglas DC-10				√	√	$\checkmark$
(Models 10 and 30) McDonnell Douglas DC-3				1		
Piper PA31	√			√		√
Saab SF340A and 340B Supplement				√	1	

<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.

20 March 2002

# MASTER MINIMUM EQUIPMENT LIST TEMPORARY REVISION

**ACTION**: 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

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#### 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

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## MASTER MINIMUM EQUIPMENT LIST

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## REVISION RECORD

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

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## MASTER MINIMUM EQUIPMENT LIST

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## 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		nicorporation	
G6	20/03/02	34-1			

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#### MASTER MINIMUM EQUIPMENT LIST

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#### **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 NOT 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

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#### 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. "Item" (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. "Number Installed" (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. "(0)": 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.

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#### **DEFINITIONS (Cont...)**

10. "(M)": 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.

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.

- 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.

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#### 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. "Combustible (Material)": 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 (<u>including containers</u>, <u>packing material and palletts etc</u>) 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. "Extended Overwater Flight": Refers to an operation overwater at a horizontal distance of more than 50 nautical miles from the nearest shoreline.

#### 23. Repair Intervals

#### 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. "Despatch": The point at which an aircraft first moves under its own power for the purpose of commencing a flight.

NOTE: 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.

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#### **DEFINITIONS (Cont...)**

25. Aircraft Model Designations and Equipment Configurations:

<u>Model</u>	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.

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#### 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.
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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.

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#### HIGHLIGHTS TO REVISION 1

ATA 25 - EQUII	PMENT/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 FIR	<u>LE PROTECTION</u>	
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 FLI	GHT CONTROLS	
<u>27-21-02</u>	Rudder Pedal Adjustment Systems	3 day repair policy applied.
27-21-18	Rudder Mechanical Limiter System	3 day repair policy applied.
ATA 28 FU	<u>EL</u>	
28-27-01	Fuel Transfer Valves	3 day repair policy applied.
28-21-07	Fuel Level Control Switches	Additional relief item (4).
ATA 30 IC	E AND RAIN PROTECTION	
30-31-00	Air Data Sensor Heat Systems	3 day repair policy applied.
26-23-02	< <disch>&gt; Light</disch>	New / replacement entry for 26-16-05.

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#### HIGHLIGHTS TO REVISION 1

ATA 31 INDICATING/RECORDING SYSTEMS		
31-31-01	FDR	Latest CAA policy applied - 48 hours becomes 24 hours
ATA 33	<u>LIGHTS</u>	
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**

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#### 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.
<u>ATA 79</u>	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.

AIRCRAFT:  LOCKHEED L-1011 TRISTAR				REVISION NO: REVISION 1	PAGE:
				<b>DATE:</b> 15 APRIL 1994	21-1
(1) Sys	tem & Sequence Numbers  Item	(2) Num	ber Install	ed	
	пеш	1	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING				
21-01	Pack Flow Control Valves	3	2	(M) (O) One may be inoperative provided assists is secured CLOSED.	ociated valve
21-21	Compressor Overheat Trip Systems	3	2	(O) One may be inoperative provided ass Temperature Indicating Systems for CPRSR ACM DISCH are operative.	
				NOTE: For inoperative compressor over switch, limit the associated CPR temperature to +200oC maximum.	
21-24	Pack Discharge Overheat Trip Systems	3	2	(O) One may be inoperative provided associated Temperature Indicating Systems for CPRSR ACM DISCH are operative.	
				NOTE: For inoperative pack discharge over switch, limit the associated AC temperature to +80oC maximum.	
21-37	Ozone Converters (If Installed)	3	0	All may be inoperative.	
23-15	Cabin Overhead Exhaust Flow Control Valve (-3)	1	0	(M) May be inoperative provided:	
				(a) Associated valve is secured CLOSED, ar	ıd
				(b) Cabin Overhead Exhaust Fan System is d	leactivated.
				OR	
				(c) Associated valve is secured OPEN, and	
				(d) Cabin Galley Exhaust Flow Control operative or secured CLOSED.	ol Valve is
23-17	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.	

AIRCRAFT:			<b>REVISION NO:</b> REVISION 1	PAGE:	
	LOCKHEED L-1011 TRIS	SIAR		<b>DATE</b> : 15 APRIL 1994	21-2
(1) Sys	em & Sequence Numbers	(2) Numl	ber Installe	ed	
	Item		(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<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, an	nd
				(b) Galley ovens not used.	
				OR	
		1	0	May be inoperative provided:	
				(a) Associated valve is OPEN, and	
				(b) Extended overwater flight is prohibited.	
	(2) Cabin Galley (If Installed)	1	0	(M) May be inoperative provided:	
				(a) Associated valve is secured CLOSED, an	nd
				(b) Cabin Galley Exhaust Fan is deactivated	
				OR	
				(c) Associated valve is OPEN, and	
				(d) Cabin Overhead Exhaust Flow Control operative or secured CLOSED.	rol Valve is
24-06	Exhaust Fan				
	(1) Lower Galley (-1, -14, -15)	1	0	(M) May be inoperative provided:	
				(a) Lower Galley Exhaust Flow Contro operative, and	ol Valve is
				(b) Mid Electrical Service Centre (ME: 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.	

AIR	CRAFT:	ICTAD		REVISION NO: REVISION 1	PAGE:
	LOCKHEED L-1011 TR	ISTAR		<b>DATE</b> : 15 APRIL 1994	21-3
(1) Sys	tem & Sequence Numbers	(2) Numb	ber Install	led	
	Item		(3) Nui	mber required for despatch	
			(-)	(4) Remarks or Exceptions	
				(4) Remarks of Exceptions	
04	AID CONDITIONING				
<u>21</u>	AIR CONDITIONING (Cont)				
	<u>100111)</u>				
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 Pres operative, and	sure Switch is
				(c) FESC Exhaust Air Flow Control Valve	e is 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 Presoperative, and	ssure Switch is
				(c) MESC Exhaust Air Flow Control Valv	e 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 pro	ovided:
				(a) Associated fan is deactivated and is fre	ee to windmill,
				(b) FESC AVIONIC AIR-FWD-LO FLO is operative,	) Light System
				(c) During maintenance/passenger load theelectrical system is in the Ground Service	
				(d) Within 15 minutes of switching from 6 mode to main busses, the aircraft is obtain a cabin altitude 250-300 fee elevation, and	pressurised to
				(e) Repairs or replacements are carried o calendar days.	out within three
				NOTE 1: Above procedures are required provide adequate FESC equipm	
				(Cont)	-

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LOCKHEED L-1011 TRISTAR				<b>DATE</b> : 15 APRIL 1994	21-4		
(1) Sys	tem & Sequence Numbers	(2) Num	(2) Number Installed				
	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 O DURING GROUND PRESSUR			
25-04	Mid Electrical Service Centre (MESC) Exhaust Fan	1	0	(M) (O) May be inoperative provided:			
	(			(a) Battery Charger is operative but is dea cabin differential pressure is less than 1			
				(b) Unattended on-ground use of lower g prohibited, and	alley ovens is		
				(c) Lower galley modules are not serviced	with dry ice.		
				NOTE 1: Inoperative MESC Exhaust Lower Galley or Lounge Sm System Ineffective on	oke Detection		
				NOTE 2: Refer to Flight Manual Limitation	ions 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 Sens placed in the NO PRESSURE position,	ing System is		
				(b) FESC Exhaust Air Flow Control Valv	e is operative,		
				(c) FESC Exhaust Fan is operative.			
				NOTE: The FESC Exhaust Air Flow Contremain open in flight and on the groad AVIONIC AIR-FWD-OVBD Light illuminated. Valve can bunlatching COOL Air switchlight.	ound, and nt will remain		
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 sens placed in the NORMAL PRESSURE po			
				(Cont)			

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LOCKHEED L-1011 TRISTAR				<b>DATE:</b> 15 APRIL 1994	21-5
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Installe	ed	
	Item		(3) Nur	nber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
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 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 operative in order to allow it to be c ditching and for pressurisation control	losed 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) and	are operative,
				(b) MESC Exhaust Air Flow Control Valve	e is operative.
				NOTE: With the FESC Exhaust Air Flow open the AVIONIC AIR-FWD-OV remain illuminated in flight.	
25-10	Mid Electrical Service Centre (MESC) Exhaust Air Flow Control Valve	1	0	(M) (O) Exhaust for extended overwater open inoperative OPEN provided:	ration, may be
				(a) All Pack Air Cycle Machines (ACM) an	re operative,
				(b) FESC Exhaust Air Flow Control Valv	e is operative,
				(c) Extended overwater flight is prohibited.	
				NOTE: With the MESC Exhaust Air Flow open, the AVIONIC AIR-MID-OV remain illuminated in flight.	Control Valve
25-17	Inertial Navigation System Exhaust Fan	1	0	May be inoperative provided FESC Exhaust operative.	Fan is

AIRCRAFT: LOCKHEED L-1011 TRISTAR			<b>REVISION NO:</b> REVISION 1	PAGE:	
			<b>DATE</b> : 15 APRIL 1994	21-6	
(1) Sys	tem & Sequence Numbers	(2) Numb	per Installe	ed	
	Item		(3) Nur	nber required for despatch	
			(5)	(4) Remarks or Exceptions	
				(4) Nemarks of 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 Diverte operative.	r Valve is
				OR	
				(b) Instrument Cooling System Diverter Val in the NORMAL (cold air plenum) positi	
	(2) PILOT INSTR COOL FAN	1	0	(M) May be inoperative provided Instrument is operative.	Cooling Fan
				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 GN mode while loading and unloading passes	
				(b) Repairs or replacements are carried out calendar days.	within three
	(2) SB 093-21-121 or Production Equivalent Incorporated	1	0	May be inoperative.	
25-22	Battery Cooling System	1	0	May be inoperative.	

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(1) Syst	em & Sequence Numbers	(2) Num	ber Installe	ed	
	Item		(3) Nur	mber required for despatch	
		1	(3) Nui		
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING				
	(Cont)				
25-34	Instrument Cooling System Diverter Valve		0	(M) May be inoperative provided:	
	vaive	1		(W) Way be moperative provided.	
				(a) Instrument Cooling Fan is operative.	
				OR	
				(b) Instrument Cooling System Diverter Va	alve is secured
				in the Normal (cold air plenum) position	
25-35	Instrument Cooling System				
23-33	Differential Pressure Switch	1	0	(M) May be inoperative provided the Instru	ment Cooling
				Annunciator Light System is operative.	
25-40	Instrument Cooling System Moisture				
	Control Valve	1	0	(M) May be inoperative:	
				(a) Instrument Cooling System Diverte	er Valve is
				operative.	
				OR	
				(b) Instrument Cooling System Diverter Va	alve is secured
				OPEN (FESC air), and	170 15 5000100
				(c) The Instrument Cooling Fan is operative	e.
27-00	Aft Cargo Comportment Ventilation				
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	nd Overboard
				(b) Live animals are not carried in Compartment.	Aft Cargo
				Comparantin	
31-00	Cabin Pressure Control System				
	(1) Normal and Standby	-	-	(O) May be inoperative for either the Forward	
	Outflow Valve Control and Actuation (AC Powered)			Outflow Valve provided Manual Control and operative for both the Forward and Aft Cargo	
	(			Compartment.	
				(Cont)	

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LOCKHEED L-1011 TRISTAR				<b>DATE:</b> 15 APRIL 1994	21-8
(1) Sys	tem & Sequence Numbers	(2) Numl	ber Install		
	Item		(a) N		
		_	(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 Aft Valve provided both Normal and Standby Con Actuation is operative for both the Forwa Outflow Valves.	trol and
(3) Normal, Standby and Manual Outflow Valve Control and Actuation (AC and DC Powered)		-	-	(M) (O) May be inoperative for either the Forvoutflow Valve provided:	vard or Aft
				(a) Associated valve is secured CLOSED.	
				(b) Normal, Standby and Manual Control as is operative for unaffected valve,	nd Actuation
				(c) Both Cabin Safety Valves are operative,	and
				(d) If Forward Outflow Valve is inoperative Differential PRESSURE Sensing System the NO PRESSURE position.	
		-	-	(M) (O) Except for extended overwater opera inoperative for both the Forward and Aft Our provided:	
				(a) Both the Forward and Aft Outflow positioned OPEN to 12 o'clock as indiffight station indicator,	
				(b) FESC Fan Differential Pressure Sensing placed in the NO PRESSURE position, as	
				(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, an	ıd
				(b) Cabin Pressure Control System Normal, Manual Control and Actuation is operathe Forward and Aft Outflow Valves.	

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(1) Syst	tem & Sequence Numbers	(2) Num	(2) Number Installed				
	Item		(3) Nur	mber required for despatch			
			, ,	(4) Remarks or Exceptions			
				(1) Tentano di Ziospiano			
<u>21</u>	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			
	Tressure indicator			(a) Flight is conducted unpressurised, and			
				(b) The Cabin Outflow Valve is secured OF	PEN.		
	(1) ALTITUDE Indication	1	0	(O) May be inoperative provided:			
				(a) Cabin DIFFERENTIAL PRESSURE 1 indicator is operative, and	portion of the		
				(b) A chart is provided to the crew to differential pressure to cabin altitude.	convert cabin		
	(2) DIFFERENTIAL PRESSURE Indication	1	0	(O) May be inoperative provided:			
				(a) Cabin ALTITUDE portion of the operative, and	indicator is		
				(b) A chart is provided to the crew to altitude to cabin differential pressure.	convert cabin		
33-02	Cabin Rate-of-Climb Indicator	1	0	May be inoperative provided:			
				(a) Cabin Pressure Control Systems Norma Control and Actuation is operative for and Aft Outflow Valves, and			
				(b) Cabin Altitude and Differential Pressu are operative.	re Indications		
41-02	Hot Air Manifold Temperature Control Valves	2	0	(M) (O) One or both may be inoperative prov	rided:		
				(a) Associated valve is secured CLOSED.			
				OR			
				(b) Associated Hot Air Manifold Isolat secured CLOSED.	ion Valve is		

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( )	Item		(a) N		
			(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.	perature Control
				OR	
				(b) Associated Hot Air Manifold Isol secured CLOSED.	lation 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 CLOSI	ED, 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 Co	
43-00	Floor Heat System	1	0	(M) May be inoperative provided as 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.	ociated switch is
	(3) Overtemperature Switches	3	0	(M) All may be inoperative provided associated breaker is OPEN and COLLARED.	ciated fan circuit
				(Cont)	

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	Item	ſ	(3) Nur	mber required for despatch	
			(3) Nui		
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
	<u>(OOII))</u>				
44-00	Cargo Heating Systems (Cont)				
	(4) Cold Indication Switches	3	0	All may be inoperative provided live anin carried in the Aft Cargo area when the Aft Cargo system is operative.	
51-01	Pack Heat Exchangers	3	2	(M) One may be inoperative provided the ass Flow Control Valve is secured CLOSED.	ociated Pack
51-04	Ram Cooling Header and Check Valve	es 3	0	(M) All may be inoperative provided the ass ACM is not operated on the ground.	ociated Pack
51-07	Pack Air Cycle Machines (ACM)	3	2	(M) (O) One may be inoperative provided:	
				(a) Associated Pack Flow Control Valve is o is OPEN only in flight,	operative and
				(b) Associated Pack Ram Air Exhaust operative,	System is
				(c) Associated Pack Turbine Bypass Valve i OPEN or remains OPEN using pack M and	
(				d) Associated ECS Temperature Indicating ACM DISCH is operative.	g System for
		3	1	(M) (O) Two may be inoperative provided:	
				(a) The operative ACM Pack Turbine Byp operative,	ass Valve is
				(b) Associated Pack Flow Control Valves a and are OPEN only in flight,	are operative
				(c) Associated Pack Ram Air Exhaust operative,	Systems are
				(Cont)	

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	Item		(3) Nur	mber required for despatch	
		1	(5) 1401		
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING				
	(Cont)				
51-07	Pack Air Cycle Machines (ACM) (Cont)			(d) Associated Pack Turbine Bypass Valves a deactivated OPEN or remain OPEN usin Control	
				(e) Associated ECS Temperature Indicating ACM DISCH is operative, and	g System for
				(f) Aircraft is not operated more than 400 n from a suitable airport.	autical miles
				NOTE: A pack is considered to be operative the following are inoperative: PACK CMPR DISCH, TURB INLET indica AUTO temperature control.	INLET,
51-22	Pack Water Separators	3	0	(O) All may be inoperative provided the associated in respect to the ground.	
61-00	Zone Trim Control Systems	-	0	(M) (O) May be inoperative provided:	
				(a) Associated Zone Trim Control Valve is C	CLOSED.
				OR	
				(b) Both Hot Air Manifold Isolation CLOSED.	Valves are
				OR	
				(c) Zone Trim Pressure Regulator and Shut CLOSED.	toff Valve is
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 CLO	SED, and
				(b) Valve position is noted on placard.	
				NOTE: When valve is CLOSED all trim air is	s shut off.

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	Item		(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
62-01	Pack Temperature Controllers	3	0	(O) All may be inoperative provided:	
				(a) Associated ECS Temperature Indicating CPRSR DISCH and ACM DISCH are o	
				(b) Associated Pack Manual Control System operative.	m is verified
62-04	Pack Ram Air Exhaust Systems (Actuator and Louvers)	3	2	(M) One may be inoperative provided assoc System is deactivated.	iated Exhaust
		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 cooperative,	mponents are
				(b) Associated valve is secured OPEN,	
				(c) Associated Pack Ram Air Exhaust operative,	System is
				(d) Associated Turbine Bypass Positio System is operative, and	n Indicating
				(e) Associated ACM DISCH temperature is	monitored.
62-19	Pack Ice Sensors	3	0	(O) All may be inoperative provided ass Temperature Indicating System for ACM operative.	
62-22	Auto Control Pack Discharge	3	0	(O) All may be inoperative provided ass Temperature Controller is considered inoperation	

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	Item		(3) Nur	nber required for despatch	
			(-)	(4) Remarks or Exceptions	
				(4) Remarks of Exceptions	
<u>21</u>	AIR CONDITIONING (Cont)				
62-28	Valve Position Indicating Systems				
	(1) RAM AIR	3	1	Two may be inoperative provided associated indicator is operative if only one Pack Rassystem is operative.	
	(2) TURB BYP	3	1	Two may be inoperative provided associate indicator is operative if only one Pack 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 E0 Indicating System for ACM DISCH is oper	
70-00	Humidity Regulation System	1	0	May be inoperative.	

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(1) Syst	tem & Sequence Numbers	(2) Numl	ber Install	ed	
	Item		(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
				(1) remaine of Energiation	
22	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	1:
				(a) AT mode is considered inoperative, and	l
				(b) Approach minima do not require autoth	rottle use.
				NOTE: If TM Mode is available, it may be PMS or FMS CDU.	selected using
	(2) Pitch Alpha and Numeric Displays	2	0	(O) One or both may be inoperative provided	1:
	Displays			(a) Glareshield panel switchlight illumina operative pitch mode selected,	tions for each
				(b) AFCS Mode Annunciators for each Pirare 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 loperative.	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)	

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	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)	

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	Item		(3) Nur	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 autopil	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 inoper	ative, and
				(c) Approach minima do not require autopil	ot use.
10-00	Autopilot and Flight Director Systems (APFDS)				
	(1) Autopilots	2	0	One or both may be inoperative provided app do not require autopilot use.	roach minima
	(2) Flight Directors	2	0	One or both may be inoperative provided app do not require flight director use.	roach minima
10-01	Autopilot Engage Switches (Bat Handles) (Analog AFCS)	2	0	One or both may be inoperative provided:	
				(a) Associated autopilot is considered inope	erative, and
				(b) Approach minima do not require autopil	lot 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 as Course Pointer or glareshield panel cour	
				(b) VOR SPLIT-1-2 function is operative,	* **
				(Cont)	

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(1) Sys	tem & Sequence Numbers Item	(2) Num	ber Install		
		$\dashv$	(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
22	AUTO FLIGHT (Cont)				
10-02	Nav Mode Select Panels (Analog AFCS) COURSE 1, 2 Set Knob (Cont)			(c) RDDMI VOR function is operative for station display on associated pilot's pa	
				(d) Aircraft is operated in VMC only, and	
				(e) Repairs or replacements are carried calendar days.	out within three
10-03	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 require its use.  NOTE: Refer to Flight Manual Procedures and Landing equipment requireme	for Approach
10-05	AFCS Mode Annunciators	-	0	(O) May be inoperative provided:	
	(1) Analog AFCS HDG SEL V NAV or			(a) Associated AFCS Mode or engage sw operative, and	itchlight is
	R NAV VS TURB IAS THR MGT MACH TEST			(b) Approach minima do not require use of annunciator.	of associated
	(2) Digital AFCS HDG V NAV VS TURB M/IAS THR MGT INS BCK CRS			NOTE: Refer to Flight Manual Procedures and landing equipment requirement	
10-06	AFCS Warning Annunciators				
	(1) ALERT Lights	2	1	First Officer's may be inoperative provide AFCS Warning Annunciators on both operative.  (Cont)	

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	Item		(3) Nur	mber required for despatch	
			(0) 1441		
				(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,	d inoperative
				(b) ATS/AT/TM Systems are considered inc	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	noperative.
	(3) NO DUAL	2	0	One or both may be inoperative provided appredo not require use of dual autoland.	roach minima
	(4) AP LIMIT	2	0	One or both may be inoperative provided:	
				(a) Associated Auto-Trim Out-of-Trin Indicators are operative.	m Warning
				OR	
				(b) Both Autopilot Systems are considered in	noperative.
	(5) NO ALIGN	2	0	One or both may be inoperative provided appredo not require use of Align mode.	roach minima
	(6) ATS DISC	2	1	One may be inoperative provided both ALEF operative.	RT Lights are
		2	0	One or both may be inoperative provided Systems are considered inoperative.	ATS/AT/TM
				(Cont)	

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(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed	
	Item	_	(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
22	AUTO FLIGHT (Cont)				
10-06	AFCS Warning Annunciators (Cont)				
	(7) NO GA	2	1	First Officer's may be inoperative placed Lights are operative.	provided both ALERT
		2	0	One or both may be inoperative p around placarded inoperative and no	
	(8) SPLIT (Digital AFCS)	2	1	First Officer's may be inoperative plaints are operative.	provided both ALERT
		2	0	One or both may be inoperative pro Annunciators are operative.	ovided all AFCS Mode
	(9) NO FLARE (Analog AFCS)	2	0	One or both may be inoperative.	
	(10) CMD DISC	2	1	First Officer's may be inoperative plughts are operative.	provided both ALERT
		2	0	One or both may be inoperative pr Systems are considered inoperative.	ovided both Autopilot
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 associa considered inoperative and is not eng	
	(3) YAW FIRST FAIL Light (-3)	1	0	May be inoperative provided two Y. operative.	AW SAS Channels are

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(1) Sys	tem & Sequence Numbers	(2) Numl	ber Install	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
22	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) Syste	•
				(b) Associated switch or status/fault light any other system or equipment inoperation	
10-21	Autopilot Disconnect Switches (Control Wheel)	2	1	One may be inoperative provided:	
				(a) Pilot using Autopilot has an op	perative wheel
				(b) Autopilot is not used below 1,500 feet	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 provi	ded associated
11-01	Pitch AFCS Computers (Analog AFCS)	2	0	One or both may be inoperative provided as APFDS is considered inoperative.	sociated
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 operatitateoff, and	ve 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.	

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LOCKILLE E TOTT TRISTAR				<b>DATE</b> : 15 APRIL 1994	22-8
(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	led	
	Item		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
22	AUTO FLIGHT (Cont)				
11-05	Autopilot Pitch Servos (Dual Servo Assembly)	2	0	One or both may be inoperative provided a APFDS is considered inoperative.	ssociated
13-00	Autopilot and Flight Director Roll Axis Channels (Digital AFCS)	2	0	One or both may be inoperative provided a APFDS is considered inoperative.	ssociated
13-01	Roll AFCS Computers (Analog AFCS)	2	0	One or both may be inoperative associated considered inoperative.	APFDS is
13-02	Roll Lateral Accelerometers (Triple)	3	0		
13-03	Roll AFCS Transducers (Left Inboard Aileron)	2	1	<ul> <li>(M) (O) One may be inoperative provided</li> <li>(a) Associated autopilot is considered in not used, and</li> <li>(b) YAW SAS Channel is operative.</li> <li>NOTE 1: Digital AFCS - Do not pull a CMPTR circuit breaker, since activate ACS FIRST FAIL at Associated Altitude Alert Syst Autothrottle System Channel inoperative.</li> <li>NOTE 2: Analog AFCS - Do not pull a SAS circuit breaker, since that ACS FIRST FAIL annunciator</li> </ul>	associated AFCS that will nnunciator light. tem and will be rendered associated YAW will activate

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(1) Sys	tem & Sequence Numbers	(2) Num	ber Install	ed		1
	Item		(3) Nui	mber required for d	lespatch	
				(4) Remarks or E	Exceptions	
					•	
22	AUTO FLIGHT (Cont)					
15-00	YAW SAS Computers (Analog AFCS) or YAW SAS Channels (Digital AFCS)	2	1	(O) May be in require its use	noperative provided approach m e.	inima do not
				a A A	Digital AFCS - Do not pull associated Altitude Alert System Channel with Associated Altitude Alert System Channel with noperative.	at will unciator light n and
				S	Analog AFCS - Do not pull ass SAS circuit breaker, since that w ACS FIRST FAIL annunciator li	ill activate
				NOTE 3: I	Depending on the failure:	
				(	(1) Associated APFDS may be Despatch in accordance with	
				(	(2) Some AFCS Mode Annunci AFCS Warning Annunciator associated side may be inope Despatch in accordance with	rs on the erative.
				a	Refer to Flight Manual Procedurapproach and landing equipment requirements.	
15-02	Yaw Rate Gyros	3	2	One may be require dual a	inoperative provided approach rautopilot use.	minima do no
				I A	For analog autopilots, the DUAL AVAIL light on the Caution/Warwill be illuminated.	
				F	For digital autopilots, the APFDS FAIL light on the Caution/Warn on illuminated.	
				a	Refer to Flight Manual Procedurapproach and landing equipment requirements.	

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(1) Sys	tem & Sequence Numbers	(2) Num	(2) Number Installed					
	Item	_	(3) Nui	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 apple 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 provided	1:			
				(a) Associated Auto Ground Spoiler considered inoperative, and	System is			
				(b) Approach minima do not require use of	autoland.			
				NOTE: See Flight Manual Performance w with both DLC Systems inoperative				
	(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 prov System is verified operative before each flight				
				NOTE: Refer to Flight Manual Performance with AGS System inoperative and la degrees flap.				
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 remains	OFF,			
				(b) Surface Position Indicating System is o				
				(c) Operative channel switchlight is latched FAIL and OFF lights are operative.	ed IN, and the			
				(Cont)				
		1	1	1				

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	Item		(3) Nur	nber required for despatch				
			(0) 1441					
				(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 of	perative,			
				(c) Operative channel switchlight is latche FAIL and OFF Lights are operative, and				
				(d) Jam and Open Cable Detectors of 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-T monitored during Auto Pilot use.	rim 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 on operative.	e autopilot is			
		2	0	(O) One or both may be inoperative pautopilots are operative.	provided both			
				NOTE: Refer to Flight Manual Limitations with both Mach Trim Systems inope				

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				(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	d IN, and			
				(b) FAIL and OFF Lights are operative.				
				NOTE: Refer to Flight Manual Limitations information should operative chann route.				
31-00	Autothrottle System (ATS) Channels	2	0	(M) (O) One or both may be inoperative pro-	vided:			
	(Analog AFCS) or Autothrottle and Thrust Management System (AT & TM) Channels (Digital AFCS)			(a) Approach minima do not require use of associated autothrottle system, and				
				(b) Throttle handling characteristics are affected (binding, creeping, etc) by A TM deactivation.				
				NOTE: With AT & TM Channels inoperative associated Speed Control System SI indication will be inoperative.				
31-05	Longitudinal Accelerometers	2	0	(O) One or both may be inoperative provided	i:			
				(a) Associated ATS or AT & TM Channe inoperative,	l is considered			
				(b) Associated TO & GA modes as inoperative, and	re considered			
				(c) Automatic Braking System is considered	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 considered	ed inoperative.			

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( ) - ) -	Item				
		1	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
22	AUTO FLIGHT (Cont)				
31-08	ATS DISC Switches (On Throttles)	2	0	(O) One or both may be inoperative provi are controlled using glareshield or FCES of	
				NOTE: ATS or AT & TM may be operat DISC Switches inoperative.	ed 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 F may be illuminated provided operations accordance with appropriate Flight Manua	are conducted i
		2	0	(M) (O) One or both may be inop operations and maintenance are conduct with appropriate Flight Manual Appendix	ed in accordance

#### **Civil Aviation Authority**

MASTER MINIMUM EQUIPMENT LIST

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	ltem	_ [	(3) Nun	mber required for despatch	
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<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 ap frequencies.	ppropriate radio
31-00	Passenger Address (PA) System	1	0	(O) As required by Air Navigation Legis inoperative provided:	slation. May be
				(a) Cabin Interphone System is operative,	and
				(b) Chime System is operative, and	
				(c) Alternate normal and emergency established and utilised, and	procedures are
				(d) Aircraft may continue the flight or so but shall not depart an airport where made and shall not exceed 25 flight completion of repairs.	e repairs can be
		1	0	May be inoperative for all-cargo operation carriage requires persons to be in attendance	

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<u>23</u>	COMMUNICATIONS				
	(Cont)				
41-00	Interphone System				
	(1) Cabin	1	0	(O) May be inoperative provided:	
				(a) Alternate, Normal and Emergency pr established and used, and	ocedures are
				(b) The Passenger Address System is operat	ive.
	(2) Lower Galley	1	0	May be inoperative provided:	
				(a) Lower Galley is not occupied during tax	i,
				(b) Cabin Interphone System is operative, ar	nd
				(c) Passenger Address System is operative.	
	(3) Lower Passenger Lounge	1	0	(O) May be inoperative provided lounge is no	t occupied.
41-04	Flight Attendant Cockpit Call Signal System	1	0	(O) May be inoperative provided:	
	System			(a) Alternate, Normal and Emergency pr established and used,	ocedures are
				(b) Passenger Address System is operative,	and
				(c) Cabin Interphone System is operative.	
43-00	Ground Service Interphone System	1	0	(O) May be inoperative provided:	
				(a) Procedures are not dependant upon its us	se.
				OR	
				(b) Alternate procedures are established and	used.
£1.00	Plinte Learners Control				
51-00	Flight Interphone System				
	(1) Flight Deck Intercom	1	1	As required by Air Navigation Legislation operative for all crew members on Flight Decl	
	(2) Flight Deck to Ground	1	0	May be inoperative provided procedures are a upon its use.	not dependent

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<u>23</u>	COMMUNICATIONS (Cont)							
51-03	Audio Distribution Unit			NOT USED.				
51-04	Audio Selector Panels	-	-	One required for each crew member on fligh	t deck duty.			
51-05	Headsets	-	-	One headset (including boom micropho operative for each crew member on flight de				
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 pur each required crew member has an operative				
	(2) Aural Warning Alerts	-	-	May be inoperative provided all appropri functions are operating normally and the ass warnings are available to the crew, by me loudspeakers.	ociated 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 repute before commencement of the flight.	pair or replace			
				(b) The aircraft shall not exceed six (flights with the CVR unserviceable the first flight after the CVR was throughout the flight.	beginning with			
				(c) The aircraft shall not fly for more than the CVR becomes unserviceable.	16 hours after			
				(d) Not more than 24 hours have elapsed becomes unserviceable.	since the CVR			
				(Cont)				

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23	(Cont)				
71-00	Cockpit Voice Recorder System (CVR) (Cont)			(e) The aircraft must not depart from its main base with the CVR unserviceable, and	tenance
				(f) The Flight Data Recorder must be normally.	e operating
99-00	ARINC Communications Addressing and	1	0	May be inoperative provided:	
	Reporting Systems (ACARS)			(a) Procedures do not require its use.	
				OR	
				(b) Alternate procedures are established and u	ised.

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				(4) Remarks or Exceptions	
<u>24</u>	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 is
				(c) Associated IDG Oil Overtemperation operative.	are Switch is
				NOTE: Sundstrand Aviation SB 24-1436 i 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				
	(1) Sundstrand Aviation SB 24- 1436 or Production Equivalent Incorporated	3	0	All may be inoperative provided associated considered inoperative.	IDG is
14-04	IDG Oil LOW PRESS Light Systems	3	2	One may be inoperative provided associated inoperative.	ciated IDG is
20-01	Generator Fault Annunciator Panel (Service Centre	1	0	May be inoperative provided maintenance p not require its use.	rocedures do
21-01	Integrated Driven Generators (IDG)				
	(1) APU Generator Operative [Lockheed Test Report EL/83-75-072 (British Airways Mod 24C270) Incorporated]	3	2	<ul> <li>(M) (O) One may be inoperative provided:</li> <li>(a) APU Generator System is placed on th or below 10,000 feet MSL,</li> <li>(b) Auto-Manual Control Functions operative for operative systems,</li> <li>(Cont)</li> </ul>	e tie bus at or are verified

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	Item	] [	(3) Nun	mber require	ed for despat	ch		
				(4) Rema	rks or Excep	tions		
<u>24</u>	ELECTRICAL POWER (Cont)							
21-01	Integrated Driven Generators (IDG) (Cont)							
	(1) APU Generator Operative [Lockheed Test Report EL/83-75-072 (British Airways			\ /		cal load remains below 120 It tor is not operating, and	CW when	
	Mod 24C270) Incorporated] (Cont)				epairs or re tree calenda	placements are carried out war days.	rithin	
				NOTE:	inoperati	Flight Manual for operation ver IDG and for electrical loan additional IDG become inotice.	d reduction	
	(2) APU Generator Inoperative [Lockheed Test Report	3	2	(M) (O	) One may	be inoperative provided:		
	EL/83-75-072 (British Airways Mod 24C270) Incorporated]				ircraft is no iitable airpo	ot operated more than 400 NI ort,	M from a	
					uto/Manua n operative	l Control Functions are verif systems,	ied operative	
				` '	us tie and operative,	over load protection systems	are verified	
				be	elow 10,00	ical load remains below 8 0 feet MSL, and below 12 0 feet MSL, and		
					epairs or realendar day	eplacements are carried out s.	within three	
				NOTE:	inoperati	Flight Manual for operation we IDG and for electrical lonal additional IDG become inotice.	ad reduction	

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				(4) Remarks or Exceptions				
<u>24</u>	(Cont)							
21-05	IDG Generator Controller Units (GCU)	3	2	One may be inoperative provided:				
	[Lockheed Test Report EL/83-75- 072 (British Airways Mod 24C270)			(a) Associated IDG is considered inoperativ	e, and			
Incorporated]			(b) Repairs or replacements are carried out calendar days.	t within three				
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:					
	072 (British Airways Mod 24C270)			(a) Affected GB is verified OPEN,				
			(b) Associated IDG is considered inoperativ	e,				
				(c) Auto/Manual Control Functions are veri for operative systems,	fied operative			
				(d) Bus tie and overload protection system operative, and	s are verified			
				(e) Repairs or replacements are carried out calendar days.	t within three			
				NOTE 1: Refer to Flight Manual Limitation Procedures for operation with a fa				
				NOTE 2: With GB-1 or 2 failed open, the a IDG continues to provide essential				
				NOTE 3: With GB-3 failed open, the asso unavailable as a power source.	ciated IDG is			
21-09	IDG Load Indicating Systems							
	(1) KW Indications	3	2	(O) One may be inoperative provided:				
				(a) Associated IDG Oil Temperature Indic is operative, and	eating System			
				(b) Associated Frequency Indicating System	is operative.			
				(Cont)				

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				(i) remaine at Energy as it	
<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 o operative IDG,	perative for
				(b) APU Load Indicating System is o operative APU generator, and	perative for
				(c) Frequency Indicating System is operative	<b>.</b>
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 paralle	l, and
				(c) All three IDG Load Indicating Systems a	re operative.
24-01	APU Generator System	1	0	May be inoperative provided:	
				(a) All IDG's are operative.	
				OR	
				(b) MMEL requirements for an inoperation observed. (Refer to item 24-21-01)	ve IDG are

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			(3) 144	(4) Remarks or Exceptions	
				(4) Nemarks of Exceptions	
<u>24</u>	ELECTRICAL POWER (Cont)				
24-02	APU Generator Control Unit (GCU)	1	0	May be inoperative provided APU Generate 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 i	noperative.
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 Gener considered inoperative.	ator 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 rela operative,	ys are verified
				(b) Total TR DC electrical load does n amps, and	ot exceed 145
				(c) Repairs or replacements are carried or calendar days.	out within three
	(2) Essential			NOT USED.	
31-08	DC Voltage Indicating System			NOT USED.	
32-04	Battery Charger			NOT USED.	

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				(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 ONLY to an airport where repair can be ma				
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	re, and			
				(b) The Battery Charger Normal Mode is	operative.			
32-24	Aux Battery	1	0	(M) May be inoperative provided:				
				(a) Aux Battery is appropriately secured, a	and			
				(b) Aux Battery Charger is secured.				

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<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 and o	ollared.
	(2) Manual Adjustment System	3	3	Fore and Aft adjustment must operate normally	· <b>.</b>
		3	3	(M) Vertical and/or recline adjustments may be provided:	inoperative
				(a) The seat is secured and locked in a position individual pilots requirements, and	on to suit the
				(b) Repairs or replacements are carried out calendar days.	within three
11-06	Flight Deck Observer Seats and Harnesses	-	0	May be inoperative provided seat is not require correctly stowed.	d 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 lo approved means to suit the individual member, and	
				(b) Repairs or replacements are carried out calendar days.	within three
12-07	Eye Locator System	1	0	May be inoperative.	

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<u>25</u>	EQUIPMENT/ FURNISHINGS (Cont)				
21-00	Passenger Seats	-	-	(M) May be inoperative secured in the up provided:	oright position
		-	0	(M) One or more may be inoperative provide	ed:
				(a) Affected seat(s) does not block an Eme	rgency Exit,
				(b) Does not restrict any passenger from aisle, and	access to the
				(c) Affected seat(s) is blocked and placare OCCUPY".	ded "DO NOT
				Note 1: A seat with an inoperative seat bel inoperative.	t is considered
				Note 2: A seat with an inoperative recline considered to be inoperative if the secured upright.	
				Note 3: Inoperative seats do not affect the n Cabin Crew required by Air Naviga Legislation.	
21-01	Cabin Attendant Seat Assemblies and Shoulder Harness	-	-	(M) (O) As required by Air Navigation Legis	slation.
				Any in excess of those required by legis inoperative (see notes below).	lation may be
				NOTE 1: A folding seat that will not stow or remain stowed is considered to inoperative and shall be secured retracted position or removed.	to be
				NOTE 2: A seat with a defective harness to be inoperative and shall be play prohibit occupancy.	
21-02 Seats	Lower Lounge Flight Attendant			NOT USED.	
21-08	Flight Attendant Shoulder Harness			Refer to item 25-21-01.	

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<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 inopera	tive provided:
				(a) Affected vent is secured OPEN, and	
				(b) Seats adjacent to the affected vent prevent occupancy.	are blocked t
31-03	Lower Galley Flight Attendant Seats (-1, -14, -15)			Refer to item 25-21-01.	
32.00 L	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	n at all times,
				(b) Remaining lift is in the full down partaxy,	position durin
				(c) The number of serving carts that ma from galley at any time is limited to main deck cart tie-downs that are perm for takeoff and landing,	the number of
				(d) Upper door of inoperative lift is placar stowing of carts on top of the inoper galley is occupied,	
				(e) Interphone Systems for Cabin and Lo operative,	wer Galley a
				(f) Flight Attendant Cockpit Call Signoperative, and	nal System
				(g) Chimes function of the PA System is o	perative.
		2	0	(O) Both may be inoperative provided:	
				(a) Galley is not occupied or used, and	
				(b) Repairs or replacements are carried or calendar days.	ut within thre
				(Cont)	

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<u>25</u>	EQUIPMENT/ FURNISHINGS (Cont)				
	FURNISHINGS (COIII)				
32-00	Lower Galley Lift Systems (-1, -14, -15) (Cont)			NOTE 1: When one lift is inoperative, see MANUAL Limitations for gal during taxy.	
				NOTE 2: When both lifts are inoperative used for cart stowage.	e, 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 prov takeoff and landing, the flight station is n 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 Legidevice may be inoperative provided all the cassociated with an inoperative exit/door are applied (see 52-11-00).	onditions
62-01	Self Powered Portable Megaphone	-	3	As required by Air Navigation Legislation. of those required by legislation may be missing provided the inoperative megaphor from the passenger cabin.	inoperative or
62-04	Evacuation Signal Systems				
	(1) Cabin	1	0	(O) May be inoperative provided:	
				<ul><li>(a) Procedures are not dependant upon primary means of initiating an emerger and</li><li>(b) Flight Attendants are advised that inoperative.</li></ul>	ncy evacuation,
				(Cont)	

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<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 to	ıxi,
				(b) Lower Lounge is not occupied at any t	ime,
				(c) Procedures are not dependant upon primary means of initiating an emerge and	
				(d) Flight Attendants are advised that inoperative.	the system is
63-01	Protective Breathing Equipment (PBE)				
	(1) Flight Crew Smoke Protection Equipment (Basic & Portable)	-	-	As required by Air Navigation Legislation. specified items may be missing or accordance with arrangements approved by	inoperative in
	(2) Cabin Attendants Portable Smoke Protection Equipment	-	-	As required by Air Navigation Legislation. specified items may be missing of inaccordance with arrangements approach Authority.	or 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 crewmember assigned to associated poperable flashlight readily available.	
99-01	FASTEN SEAT BELT WHILE SEATED Signs Or Placards (Unlit)	-	-	As required by Air Navigation Legislation. signs or placards may be illegible or miss legible sign or placard is readable from passenger seat.	ing provided a
99-02	Emergency Locator Transmitters (ELT)	-	-	As required by Air Navigation Legislation.	

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	Item		(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
<u>25</u>	EQUIPMENT/ FURNISHINGS (Cont)				
99-03	Aft Lavatory Door Ashtrays	5	3	Two may be inoperative provided ashtray adjacent Lavatory Doors.	ys 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 wire restraint bar,	th inoperative
				(b) Associated seat is placarded "DO BAGGAGE UNDER THIS SEAT", and	
				(c) Procedures are established to alert the inoperative restraining bar.	Cabin 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.	

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	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 en inoperative provided detector loop selector is the operative loop.			
11-06	APU Fire Detection System Loops	2	1	One complete loop (A or B) may be inoperadetector loop selector is positioned to the ope			
		2	0	(M) One or both loops (A and B) may be provided APU is considered inoperative and a			
11-09	Fire Alarm Bell			NOT USED.			
11-14	APU Automatic Fire Shutdown System	1	0	(M) May be inoperative provided APU Fire V System is monitored during APU ground ope			
11-28	Wheel-Well Fire Detection System Loops	2	1	One complete loop (A or B) may be inoperati detector loop selector is positioned to the ope			
11-30	Fuel and Ignition Switch Barrier Lights	6	0	(M) All may be inoperative provided:			
				(a) Associated light is not illuminated, and			
				(b) Fault is determined to affect barrier ligh	t only.		
15-00	Smoke and Overheat Detection Systems						
	(1) Lower Galley Overheat Detection System (-1, -14, -15)	1	0	(M) May be inoperative provided lower galle deactivated and placarded to prevent use.	y ovens are		
				NOTE: Use of Closed Convection type over not connected to the lower galley exhaupermitted.			
	(2) Lower Galley or Lounge Smoke Detection System			NOT USED			
	(3) Cabin Galley Overheat Detection System (-3)	1	0	May be inoperative.			
	Detection System (-5)			(Cont)			

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			(3) 1441		
				(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				
	(1) 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 detector switch is positioned to operative smoke detector.	
		4	0	(O) All may be inoperative provided comparempty or contains only non-combustible mate	
				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 po the FESC and MESC Smoke Detector Syste inoperative.	
		2	0	(M) (O) One or both A and B systems may provided Aft Cargo Compartment Ventil Airflow Control Valves (inlet, shutoff, as bypass) are secured CLOSED.	ation System
	(5) Aft Cargo Compartment Smoke Detectors (-3)	4	2	(O) Two may be inoperative provided detector switch is positioned to an operative smooth system.	
				(Cont)	

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				(4) Remarks or Exceptions	
<u>26</u>	FIRE PROTECTION (Cont)				
	(5) Aft Cargo Compartment Smoke Detectors (3)			(O) Two may be inoperative provided detect switch is positioned to an operative subsystem.	
		4	0	(O) All may be inoperative provided compa empty or contains only non-combustible ma	
				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	<ul> <li>(M) All may be missing provided associated extinguisher bottle pressure is verified to flight of each day.</li> <li>NOTE: Indicators are not installed in RE wing engine inlets, or in aircraft was sealed fire extinguisher containers No. 2 engine/APU position.</li> </ul>	s.211-524 (G-8) ith hermetically
21-06	Fire Extinguisher Discharge Indicator Light Systems			140. 2 engine/74 o position.	
	(1) Engines	6	3	(M) (O) One system (MAIN or ALTN) may be inoperative provided associated ext is verified to be properly charged before the each day.	inguisher bottle
	(2) APU	2	1	(M) (O) One system (MAIN or ALTN) may provided associated extinguisher bottle is properly charged before first flight of each of	verified to be
		2	0	(M) (O) One or both systems (MAIN or inoperative provided APU is considered not used.	

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	Item		(3) Nur	mber required for despatch	
			(3) Nul		
				(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) may be inoperative provided associated discharge circuit is determined to be open flight.	fire extinguisher
	(2) APU	2	1	(M) (O) One system (MAIN or ALTN) me provided associated fire extinguisher distributed to be operative before each fli	scharge circuit is
		2	0	(M) (O) One or both systems (MAIN or inoperative provided APU is considered not used.	
22-01	Portable Fire Extinguishers	-	-	(M) As required by Airworthiness Notice excess of those required by Legislation materials provided:	
				(a) Procedures are established to rem Portable Fire Extinguisher, and	ove the affected
				(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 from a suitable airport,	and 40 minutes
				(b) Cabin Pressure Control System is op	erative, and
				(c) Aircraft is operated pressurised.	
				(Cont)	

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	Item	Г	(3) Nur	nber required for despatch	
			(0) 114		
				(4) Remarks or Exceptions	
00					
<u>26</u>	FIRE PROTECTION (Cont)				
	(COTIC)				
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 and from a suitable airport,	40 minutes
				(b) Cabin Pressure Control System is operati	ve, 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 empty 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 b inoperative provided associated extinguisher b pressure is verified before first flight of each d	ottle
				NOTE: On aircraft with aft cargo compartment extinguisher systems, FWD cargo composite pressure may be verified by test associated discharge indicator (MAII for aft cargo compartment.	npartment sting
	(5) Forward Cargo Compartment Fire Extinguisher SHORT TEST Systems	2	1	(M) (O) One system (MAIN or ALTN) may be provided associated fire extinguisher bottle discircuit is determined to be operative before each	scharge

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	Item	,			
			(3) Nun	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) may b inoperative provided associated extinguisher b pressure is verified before first flight of each d	ottle
				NOTE: On aircraft with forward cargo compextinguisher systems, AFT cargo composition. Bottle pressure may be verified by test associated discharge indicator (MAII for forward cargo compartment.	partment sting
	(7) Aft Cargo Compartment Fire Extinguisher SHORT TEST Systems	2	1	(M) (O) One system (MAIN or ALTN) may be provided associated fire extinguisher bottle dis circuit is determined to be operative before each	charge
24-00	Toilet Compartment Fire Extinguisher Systems	-	-	Any or all may be inoperative.	

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	Item		(3) Nur	mber required for despatch	
			(0) 1101		
				(4) Remarks or Exceptions	
26	EIDE DOCTECTION				
<u>26</u>	FIRE PROTECTION (Cont)				
	<u>,</u>				
25-00	Toilet Compartment Smoke Detection Systems	-	-	(M) May be inoperative. The toilet compart electrically isolated, the waste-bin must be toilet must be locked and appropriately plac	emptied and the
		-	-	(M) May be inoperative provided:	
				(a) The toilet compartment is checked minute intervals for evidence of fire or	
				(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 r 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

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	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 Warnir requirements, see limitations in AT				
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 verififlight.				
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 adj that seat during takeoff and landing, an				
				(c) Repairs or replacements are carried or 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.				

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	Item	1	(3) Nur	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 ac speed schedule, and	cordance with
				(c) Repairs or replacements are carried ou calendar days.	t within three
	(2) Limiter Actuators (-14, -15) (-1 with SB 093-27-139	2	0	(M) (O) One or both may be inoperative prov	vided:
	Incorporated)			(a) Mechanical Limiter is verified to be position, and	in the +/- 30
				(b) Auto-Manual switchlight remains i position.	n the MNL
31-00	Elevator Drive Warning System (Aural Warning and ELEVATOR Annunciator Light)	1	0	(M) (O) May be inoperative provided the concheck contained in the Maintenance is compleach flight.	
41-00	PFCS Panel Stabiliser Control INOP Lights	4	3	(O) One may be inoperative provided proper and control of the associated channel is veach flight.	
41-02	Stick Shaker Motors			NOT USED.	
42-00	Electrical Pitch Trim Thumbwheel Systems	2	1	(M) First Officer's may be inoperative provid	ed:
				(a) Associated thumbwheel is suitably cove	ered, and
				(b) All takeoffs and landings are accompli Captain's side.	shed from the

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<u>27</u>	FLIGHT CONTROLS (Cont)			
51-06	Flap Load Relief System (FLRS)	1	0	<ul> <li>(M) (O) May be inoperative provided:</li> <li>(a) Soft-stop and placard is installed on the flap quadrant in accordance with Conversion Kit 1604566-101,</li> <li>(b) System is deactivated using FLAP LRS OVRD switch, and</li> <li>(c) Repair is accomplished within 25 flight hours.</li> <li>NOTE 1: Refer to Flight Manual Procedures for FLRS inoperative procedures.</li> <li>NOTE 2: Refer to Flight Manual Performance for flaps 33 landing performance.</li> </ul>
51-67	TE FLAP LOCK Annunciator Light (FE Panel) (SB 093-27-214 Not Incorporated)	1	0	<ul><li>(M) May be inoperative provided:</li><li>(a) Flap Position Indicating System is operative, and</li><li>(b) LE SLAT LOCK Annunciator Light is operative.</li></ul>
51-70	FLAP/SLAT LOCK Annunciator Light (FE Panel) (SB 093-27-214 or Production Equivalent Incorporated)	1	0	<ul><li>(M) May be inoperative provided:</li><li>(a) Flap Position Indicating System is operative, and</li><li>(b) All Slat Position Monitoring Systems are operative.</li></ul>
52-00	Flap Position Indicating Systems	2	1	<ul> <li>(M) (O) One may be inoperative provided:</li> <li>(a) Flap asymmetry system is verified to operative normally,</li> <li>(b) All Slat Position Monitoring Systems are operative,</li> <li>(c) TE FLAP LOCK Annunciator Light or FLAP/SLAT LOCK Annunciator Light is operative,</li> <li>(d) Flap Position is visually verified before each flight and no asymmetry exists, and</li> <li>(e) Repair is made within 25 flight hours.</li> </ul>

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<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 op	perative,
				(b) All Slat Position Monitoring Systems a and	re 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, an	
				(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.	

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<u>28</u>	FUEL				
11-08	Tanks 1 and 3 Scavenge Valves (-3)	2	1	(O) One may be inoperative provided:	
				(a) Associated valve is OPEN.	
				OR	
				(b) Associated valve is CLOSED, and	
				(c) Repair is made within 25 flight hours.	
				NOTE 1: With associated valve OPEN, no rate from associated tank 1A or 3 impaired. To transfer fuel it will to use the gravity transfer system.	A is be necessary
				NOTE 2: With associated valve CLOSED, tank 1 or 3 scavenge system is inc	
11-13	Tanks 1A and 3A Scavenge Pumps (-3, -15)	-	-	(O) One in each tank (1A and 3A) may be ino	perative.
				OR	
		-	-	(O) All in either tank 1A or in tank 3A may be provided repair is made within 25 flight hours	
				OR	
		-	-	All in both tanks (1A and 3A) may be inopera fuel in tanks 1A and 3A is not required.	tive provided
11-14	Tanks 1A and 3A Scavenge Valves	2	1	(O) One may be inoperative provided:	
	(-15)			(a) Associated valve is OPEN.	
				OR	
				(b) Associated valve is CLOSED, and	
				(c) Repair is made within 25 flight hours.	
		2	0	One or both may be inoperative provided fue	ol in tanke 1 A
		2		and 3A is not required for flight.	T III taliks IA

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				(4) Remarks or Exceptions
28	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 underwin 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 verifie 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 verifie CLOSED,
				(b) Associated tank 1A and/or 3A Normal Fuel Transfe 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 verifie CLOSED, and
				(Cont)

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			(4) Remarks or Exceptions
Cont)			
utoff Valves (Cont)			
1A and 3A (-3, -15))			(b) Associated tank fuel is considered UNUSABLE.
			NOTE: Valve may be considered operative if it can be opened and closed using its associated fuel level control switch or fuel level bypass switch.
Control Switches 1, 2L, 2R and 3	6	2	(M) One in each tank may be inoperative provided an approved alternate Refuelling procedure is used.
	6	0	(M) All may be inoperative provided:
			(a) Aircraft is equipped with tanks 1A and 3A.
			OR
			(b) Aircraft is equipped with Refuel Bypass Switches.
1A and 3A (-3, -15)	2	0	(M) One or both may be inoperative provided an approved alternate Refuelling procedure is used.
4 (if installed)	1	0	(M) May be inoperative provided an approved alternate Refuelling procedure is used.
L, 2R and 3 Defuel alves	4	0	(M) (O) All may be inoperative provided:
			(a) Associated valve is deactivated CLOSED, and
			(b) En route engine inoperative performance does not require fuel jettison system.
			NOTE 1: Refer to Flight Manual Limitations for lateral imbalance limits when jettisoning fuel with asymmetrical valves inoperative.
			NOTE 2: Refer to Flight Manual Performance for engine inoperative performance.
L, 2R, and 3 Fuel Boost	8	4	(O) One in each tank may be inoperative.
		, ,	, , , , , , , , , , , , , , , , , , ,

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				(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 opera	ative,
				(b) Tanks 2L and 2R Fuel Quantity Indica are operative, and	ting Systems
				(c) All Tanks 2L and 2R Fuel Boost Pump operative.	systems are
				NOTE: Refer to Flight Manual Limitations for imbalance limits during fuel usage.	or lateral
24-17	Continuous Scavenge Systems				
	(1) Tanks 1 and 3	2	0	(M) One or both may be inoperative provid tank sump is drained at least once each day.	ed associated
	(2) Tanks 2L and 2R	2	0	(M) (O) One or both may be inoperative provi	ded:
				(a) Associated tank sump is drained at leaday, and	st once each
				(b) All Fuel Quantity Indicating Systems are	operative.
				NOTE 1: Refer to Flight Manual Procedure fuel weight and alternate fuel load requirements.	
				NOTE 2: Zero fuel weight is limited to a 138,385 kg (305,000 lb) when u fuel loading, or 142,920 kg (315, using alternate fuel loading.	sing standard
				NOTE 3: Alternate fuel loading is used at weights over 191,470 kg (422,000 takeoff fuel loads less than 34,48 lb).	lb) or
25-01	APU Boost Pump (-1)	1	0	(O) May be inoperative provided APU is o engine No.2 tank feed.	perated from
25-04	APU Tank Valve (-1)	1	0	(O) May be inoperative provided APU is o engine No.2 tank feed.	perated from

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	пеш		(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>28</u>	FUEL (Cont)				
26-01	Crossfeed Valves	3	2	(M) One may be inoperative provided:	
				(a) Associated valve is deactivated CLOS.	ED, and
				(b) En route fuel management does not rec	quire crossfeed.
27-01	Tanks 2L and 2R Float Operated Fuel Transfer Valves	2	0	(M) (O) One or both may be inoperative pro	vided:
				(a) Associated valve is deactivated CLOS	ED,
				(b) Fuel in outboard section of associon considered UNUSABLE, and	ciated tank is
				(c) Repairs or replacements are carried or calendar days.	out within three
				NOTE: Refer to Flight Manual limitation fuel for flight for tanks 2L and 2R, 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 CLOS	ED, and
				(b) Associated Gravity Fuel Transfer Valv	e is operative.
		2	0	(M) (O) One or both may be inoperative pro	vided:
				(a) Associated valves are deactivated CLC	SED, and
				(b) Tanks 1A and 3A fuel is not required f	or flight.
27-07	Tanks 1A and 3A Gravity Fuel Transfer Valves (-3, -15)	2	1	(M) (O) One may be inoperative provided:	
				(a) Associated valve is deactivated CLOS	ED, and
				(b) Associated Normal Fuel Transfer Valv	e is operative.
				(Cont)	

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<u>28</u>	FUEL (Cont)			(4) Remarks or Exceptions	
27-07	Tanks 1A and 3A Gravity Fuel Transfer Valves (-3, -15) (Cont)	2	0	<ul><li>(M) (O) One or both may be inoperative prov</li><li>(a) Associated valves are deactivated CLOS</li><li>(b) Tanks 1A and 3A fuel is not required for</li></ul>	SED, and
31-01	Fuel Jettison Valves	2	0	<ul> <li>(M) (O) One or both may be inoperative proving.</li> <li>(a) Associated valve is deactivated CLOSE.</li> <li>(b) En-route engine inoperative performate require fuel jettison system.</li> <li>NOTE 1: Refer to Flight Manual Limitati imbalance limits when jettisonin asymmetrical valves inoperative.</li> <li>NOTE 2: Refer to Flight Manual Performate engine inoperative performance.</li> </ul>	D, and ence does not ons for lateral g fuel with
41-00	Flight Station Fuel Quantity Indicating Systems  (1) Tank 1, 2L, 2R and 3 Indicating Systems	4	3	<ul> <li>(M) (O) One may be inoperative provided:</li> <li>(a) Associated Fuel Used and Fuel Flox Systems are operative,</li> <li>(b) Fuel Flow Equaliser is operative if the Fuel Quantity Indicating System is affected.</li> <li>(c) Fuel quantity in associated tank is determined approved method.</li> <li>(d) En-route engine inoperative performation require fuel jettison, and</li> <li>(e) A record of fuel used is kept, and maircraft until associated tank is refuelled.</li> <li>NOTE 1: Refer to Flight Manual Limitation imbalance limits during Refuelling inflight.</li> <li>(Cont)</li> </ul>	ank 2L or 2R eted, ermined by an ence does not emains in the l.

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	Item				
		1	(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
<u>28</u>	FUEL (Cont)				
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 Performance engine inoperative performance.	nce for
				NOTE 3: Fuel used record enables flight or accurately calculate fuel remaining 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 Quant System is operative, and	ity Indicating
				(b) Associated Float Operated Fuel Trans operative.	sfer Valve is
	(3) Tank 1A and 3A Indicating Systems (-3, -15)	2	0	(M) (O) One or both may be inoperative provi	ided:
				(a) Associated tank is empty, and	
				(b) Associated Normal Fuel Transfer deactivated CLOSED.	Valve is
				NOTE: Refer to Flight Manual Limitations for imbalance limits.	or lateral
	(4) Tank 1A and 3A LOW Lights (-15)	2	0	(M) (O) One or both may be inoperative provi	ided:
				(a) Associated Tank Fuel Quantity Indicati operative.	ing System is
				OR	
				(b) Associated tank is empty, and	
				(c) Associated Normal Fuel Transfer deactivated CLOSED.	Valve is
				NOTE: Refer to Flight Manual Limitations for imbalance limits.	or lateral
				(Cont)	

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<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				
				(b) Tank 4 Fuel Quantity Gauge is placarded i at the flight station,	inoperative			
				(c) Tank 1A and 3A Indicating Systems operative,	must be			
				(d) A record of fuel used is kept and rema aircraft until associated tank is refuelled, an				
				(e) Aircraft is operated in accordance with Flig Limitations.	ght Manual			
41-19	Fuel Totaliser System	1	0	May be inoperative provided procedures do not its use.	depend on			
41-20	Refuelling Panel Fuel Quantity Indicating Systems	4	0	All may be inoperative provided associated Refu Valve is operative.	el Shutoff			
41-24	Fuel Level Sight Gauges (Drip Sticks)	-	0	(M) All may be inoperative provided:				
				(a) Flight Deck Fuel Quantity Indicating s associated tank is operative, and	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 provided:				
				(a) Auxiliary Fuel Tank System is placarded i at the flight station,	inoperative			
				(b) Auxiliary Fuel Tank is verified empty, and				
				(c) Inlet and Outlet Valves are verified CLOSE	ED.			
		1	1					

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				(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 provided:	
				(a) Auxiliary Fuel Tank System is placarded at the flight station,	1 inoperative
				(b) Auxiliary Fuel Tank is verified empty, an	ıd
				(c) Inlet and Outlet Valves are verified CLOS	SED.
41-27	Tank 4 Auxiliary Fuel Tank Boost Pumps (-3) (If Installed)	2	0	(M) One or both may be inoperative provided:	
				(a) Auxiliary Fuel Tank System is placarded at the flight station,	1 inoperative
				(b) Auxiliary Fuel Tank is verified empty, an	ıd
				(c) Inlet and Outlet Valves are verified CLOS	SED.
44-01	Boost Pump LOW Pressure Indicating Light Systems	8	4	(O) Four may be inoperative provided a light is for each operative Fuel Boost Pump System.	s operative

### **Civil Aviation Authority**

MASTER MINIMUM EQUIPMENT LIST

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				(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 ope	erative,
				(b) Air Turbine Motor Driven Pumps B2 operative, and	and C2 are
				(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 a Air Turbine Motor (ATM) is used to pressuris accumulators prior to engine start.	
11-32	B1 and C1 Hydraulic Firewal Shutoff Valves (Suction Shutoff	2	1	(M) (O) One may be inoperative provided:	
	Valves)			(a) Associated valve is secured CLOSED, ar	nd
				(b) Associated Engine Driven Hydrauli deactivated in accordance with approved procedures.	
11-33	Power Transfer Units (PTU)	2	0	One or both may be inoperative provided:	
				(a) If B-A PTU is inoperative, Engine Drive B1 and Air Turbine Motor Driven Pump operative, and	
				(b) If C-D PTU is inoperative, Engine Drive D1 and Air Turbine Motor Driven Pump operative.	
11-40	Air Turbine Motor (ATM) Control Systems				
	(1) Automatic (AUTO) Control	2	1	(M) (O) One may be inoperative provided:	
	Functions			(a) Associated Manual (ON-OFF) Control operative, and	Function is
				(b) If C2 system is affected, C2 ATM is Of and landing.	N for takeoff
				(Cont)	

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		1	(-)		
				(4) Remarks or Exceptions	
<u>29</u>	HYDRAULIC POWER (Cont)				
	(COTILILI)				
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 inoperative, and	is considered
				(b) System is repaired within 25 flight hour	rs.
11-51	Engine Driven Pump S/P Switches	4	3	One may be inoperative provided asso Driven Pump is considered inoperative and i	
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 perform Flight Manual Appendix titled: Extended is used, and	ance criteria in Landing gear
				(c) System is repaired within 25 flight hour	rs.
21-01	Ram Air Turbine (RAT) Deployment Systems (Auto,	2	0	(M) (O) One or both may be inoperative pro-	vided:
	Manual)			(a) RAT is extended,	
				(b) Operations are conducted in accordan Manual Appendix titled: RAT Extende	
				(c) The aircraft is not operated from runways, and	slush covered
				(d) The aircraft may continue the flight flights not to exceed 40 flight hour completion of replacements or repairs.	
31-04	Flight Station Hydraulic Fluid Temperature Indicator	1	0	May be inoperative.	

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				(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 associate PR Caution Light System is operative.	ed Pump LO
31-10	Flight Station Hydraulic Fluid Quantity Indicating Systems	4	3	(M) One may be inoperative provided:	
				(a) Associated Reservoir quantity is verified before each flight, and	ied adequate
				(b) Associated Reservoir LO QTY Caution is operative.	Light System
31-14	Service Centre Hydraulic Reservoir Pressure Indicating Systems	4	0	(M) May be inoperative provided reservoir is of to be pressurised.	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 Hy Fluid Quantity Indicating System is operative.	/draulic
32-01	Pump LO PR Caution Light Systems	6	4	Two may be inoperative provided associate Pressure Indicating System is operative.	ed Hydraulic
32-02	Pump HI TEM Caution Light Systems	6	2	Four may be inoperative provided associated F Reservoir HI TEM Caution Light System is op	

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	Item		(3) Nur	nber required for despatch	
		1	(3) Null		
				(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.	th 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 associated Control System are verified operative before e	ciated ATM

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				(4) Remarks or Exceptions	
30	ICE AND RAIN PROTECTION				
13-00	Wing Anti-Ice System	1	0	May be inoperative provided flight is not a or forecast icing conditions.	made in known
13-01	Wing Anti-Ice System Modes (AUTO, MANUAL)	2	1	(O) One mode may be inoperative provided check verifies that the Wing Anti-Ice System	
		2	0	One or both modes may be inoperative Anti-Ice System is considered inoperative.	provided Wing
13-02	Wing Anti-Ice System Regulating and Shutoff Valves	2	0	(M) One or both may be inoperative provide	
				<ul><li>(a) Associated valve is verified CLOSED,</li><li>(b) Wing Anti-Ice System is considered in</li></ul>	
13-04	Wing Anti-Ice System Dual Temperature Sensors	2	0	One or both may be inoperative provided W system is considered inoperative.	ing Anti-Ice
-35	Wing Anti-Ice System DUCT FAIL Detection Systems	2	1	One may be inoperative.	
21-01	Engine Anti-Ice Control Valves	3	2	(M) One may be inoperative provided:	
				(a) Associated valve is secured CLOSED,	and
				(b) Flight is not made in known or conditions.	forecast icing
		3	0	(M) All may be inoperative provided:	
				(a) Associated valve is secured OPEN,	
				(b) Associated pressure relief valve is ver	rified operative,
				(c) An overboard vent duct system is i associated engine.	nstalled on the
				(Cont)	

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				(4) Remarks or Exceptions	
<u>30</u>	ICE AND RAIN				
	PROTECTION (Cont)				
21.01					
21-01	Engine Anti-Ice Control Valves (Cont)				
				NOTE 1: Refer to Flight Manual Performan operation with anti-ice on.	ce 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 inst associated engine.	alled on the
				OR	
				(b) Associated Engine Anti-Ice System is inoperative and not used, and	s considered
				(c) Flight is not made in known or for conditions.	precast icing
				NOTE: Rolls Royce SB RB.211-30-2178 inst overboard vent duct for the pressure r	
	(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)	

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<u>30</u>	ICE AND RAIN PROTECTION (Cont)				
	FROTECTION (COIII)				
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	2,
				(b) Flight is not made in known or conditions, and	forecast icin
				(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 For Window Heat System is operative.	ward Side
41-07	Windshield Defogging Fan	1	0	May be inoperative provided both Wi Systems are operative.	ndshield Hea
42-00	Windshield Rain Repellent System	1	0	May be inoperative provided both Win Systems are operative.	dshield Wipe

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				(4) Remarks of Exceptions	
<u>30</u>	ICE AND RAIN PROTECTION (Cont)				
	PROTECTION (COIL)				
43-00	Windshield Washer System	1	0	May be inoperative provided:	
				(a) Both windshields are fitted with 0 thick outer glass.	.085" or 0.105"
				OR	
				(b) If either windshield is fitted with 0. glass, aircraft is not operated in are	
				forecast thunderstorm activity.	as of known of
44-00	Windshield Wiper Systems	2	1	One may be inoperative provided the operated in precipitation within arrival and	
51-00	VHF Antenna Anti-Ice Systems	2	0	(M) One or both may be inoperativ associated system is deactivated.	e 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 lea each mast is operative.	st one heater in
81-00	Ice Detection System	1	0	May be inoperative.	
		1	I		

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<u>31</u>	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 provide	d an accurate
		2	Ů	timepiece is available on the flight deck dis minutes and seconds.	
21-02	Clock Time Base	1	0	May be inoperative provided an accurate	
				available on the flight deck displaying hour seconds.	s, minutes and
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 II Caution/Warning Annunciator panel is opera	
	(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 cutou verified operative.	at 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.	

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		1	(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
31	INDICATING/RECORDING				
<u>v.</u>	SYSTEMS (Cont)				
31-01	Flight Data Recorder (FDR)	1	1	As required by Air Navigation Legislat inoperative provided:	ion. May be
				(a) It is not reasonably practical to repa	ir or replace
				(b) The aircraft shall not exceed six (6 flights with the FDR unserviceable be the first flight after the FDR was throughout the flight.	eginning with
				(c) The aircraft shall not fly for more than the FDR becomes unserviceable.	16 hours after
				(d) Not more than 24 hours have elapsed s became unserviceable.	since the FDR
				(e) The aircraft may not depart from its mai with the FDR unserviceable.	ntenance base
				(f) The Cockpit Voice Recorder must 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.	

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		†	(3) INUI	Tibel 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 operations in operative provided:	tion may be
				(a) Aircraft is operated in accordance with I Appendix Titled: Landing Gear Extended	
				(b) Associated deactivation of the gear consystem does not adversely affect other the C hydraulic system.	
36-00	Landing Gear Alternate Hydraulic Extension System	1	0	(M) (O) Except for extended overwater operations inoperative provided:	tion, may be
				(a) Operation is in accordance with Fl Appendix Titled: Landing Gear Extende	
				(b) All other C hydraulic system functions a	re operative.
37-00	Landing Gear Uplock Mechanical Release Systems	3	0	(M) (O) All except for extended overwater op be inoperative provided operation is in acc Flight Manual Appendix Titled: Landing Gea	ordance with
43-00	Brake Assembly	8	7	One may be inoperative provided:	
				(a) All remaining retardation devices operat	e normally,
				(b) The brake is hydraulically disconnected utilising an approved maintenance proce	
				(c) Flight Manual procedures and decrements are applied, and	performance
				(d) Remaining brake units are verified to normally.	be operating

(1) Systen	LOCKHEED L-1011 TRIS			DATE 15 ADDIT 1004
(1) Systen		1,_,		<b>DATE:</b> 15 APRIL 1994 32-2
	Itam	(2) Numb	per Installe	ed
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		1	( )	(4) Remarks or Exceptions
				(4) Nemarks of Exceptions
<u>32 l</u>	LANDING GEAR (Cont)			
43-01 I	Brake Adjuster Assembly Systems			
(	(1) Brake Temperature Indicating System Installed and Operative	48	40	(M) One for each wheel brake may be inoperative provided pressure plate is verified to retract sufficiently prevent dragging brakes.
		48	32	(M) Two for each wheel brake assembly may inoperative provided:
				(a) Affected adjusters are not adjacent,
				(b) Pressure plate is verified to retract sufficiently prevent dragging brakes, and
				(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 inoperative provided prior to each departure pressure plate is verified to retract sufficiently to prevent dragging brakes.
		48	32	(M) Two for each wheel brake assembly may inoperative provided:
				(a) Affected adjusters are not adjacent,
				(b) Prior to each departure pressure plate is verified retract sufficiently to prevent dragging brakes, and
				(c) Associated system is repaired within ten landings.
	Service Centre Brake Accumulator Air Charges Gauges	2	0	(M) (O) One or both may be inoperative provided:
				(a) Accumulator air charge is verified to be with approved limits, and
				(b) A minimum of 4 full brake applications from the system accumulator, and 8 from the C syste accumulator are verified to be available.

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<u>32</u>	LANDING GEAR (Cont)						
44-00	Anti-Skid Systems (NORM, ALT)	2	1	(O) One may be inoperative provided alterr System is verified to be functioning properly.			
		2	0	(O) One or both systems may be inoperative p	provided:		
				(a) All Reverser Systems are operative, and			
				(b) Operations are in accordance with F Appendix Titled: Anti-Skid Inoperative			
44-06	Flight Station Anti-Skid Norm and Alt TEST Systems	2	0	(M) (O) One or both may be inoperative prov	ided:		
				(a) Associated Anti-Skid System is verify before the first flight of each day, using Control Unit in the MESC,			
				OR			
				(b) Associated Anti-Skid System is inoperative.	considered		
45-00	Brake Temperature Indicating System	1	0	May be inoperative.			
46-00	Pilots Panel Brake Pressure Norm/ Alt Indication Systems	2	1	(M) (O) One may be inoperative provided:			
				(a) Associated Brake Accumulator LOW Properative,	RESS Light is		
				(b) Associated Hydraulic Pressure Indicate operative, and	ing System is		
				(c) A minimum of 4 full brake application system accumulator, and 8 from the accumulator or are verified to be available.	ne C system		
46-04	Brake Accumulator Norm and Alt LOW PRESS lights	2	1	One may be inoperative provided associated leading Pressure Indication system is operative.	Brake		
47-00	Automatic Braking System	1	0	May be inoperative.			

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32	LANDING GEAR (Cont)				
48-01	Parking Brake Indicator Lights	2	0	(O) One or both may be inoperative monitors parking brakes when chocks are no	
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	Manual Titled:
				(b) With the landing gear handle be 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 Exten	-
				(b) All Landing Gear downlock pins are in	nstalled, and
				(c) Tyre inflation pressure is verified befo	re each flight.
	(3) Pilots Panel DOOR Annunciator light	1	0	May be inoperative provided three GEAR C Annunciator lights on FE panel are operativ	
	(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 is	s extended.
				NOTE: Observe additional fuel burn penalty	y.

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<u>33</u>	LIGHTS						
10-00	Flight Compartment and Instrument Lighting System	-	0	As required by Air Navigation Legislation. I inoperative for daylight operations only.	May be		
				OR			
		-	-	As required by Air Navigation Legislat lights may be inoperative provided:	ion. Individual		
				(a) Sufficient lighting is operative to mak instrument, control and other device provided easily readable.			
				(b) Sufficient flight deck emergency ligh operative.	ting is verified		
				(c) Lighting configuration at dispatch is a flight crew.	eceptable 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 ligh not affected.	t operation is		
17-99	CW Annunciator Panel Lights			NOTE: A maximum of three of the fo (ITEMS 1 through 7) may be inoperati			
	(1) ANTI-SKID or ANTI SKID/ABS	1	0	May be inoperative provided:			
				(a) All lights on Anti-Skid System panel and	l are operative,		
				(b) All lights on Automatic Braking Syoperative.	stem panel are		
	(2) ECS	1	0	May be inoperative.			
				(Cont)			
				I			

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			(3) Nui		
				(4) Remarks or Exceptions	
33	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 operative, and	Systems 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 operative, and	Systems are
				(b) Both Brake Accumulator LOW PRES operative.	SS 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 may be inoperative.	8 through 18)
	(8) AUTO GND SPLRS INOP (-1, -14, -15)	1	0	May be inoperative provided both Spoiler Co are considered inoperative and are deactivated	
	(9) AUTOMATIC BRAKING	1	0	May be inoperative provided:	
				(a) All lights on Automatic Braking Systoperative.	tem panel are
				OR	
				(Cont)	

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				(4) Remarks or Exceptions	
				(4) Nomano di Exceptione	
33	LIGHTS (Cont)				
<u> 33</u>	LIGHTS (COIIL)				
17-99	CW Annunciator Panel Lights (Cont)				
	(9) AUTOMATIC BRAKING (Cont)			(b) Automatic Braking system is consi	dered to be
				inoperative.	acred 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 approanot require use of dual Autoload.	ch minima do
	(12) FIRE DET LOOP	1	0	(O) May be inoperative provided:	
				(a) Fire Detection System is verified ope each flight, and	rative before
				(b) Loop selectors remain in the A or B posi	tion.
	(13) FLAP LRS INOP	1	0	May be inoperative provided FLAP LRS As operative.	ural Signal is
	(14) FLAP LRS LIMITING	1	0	May be inoperative provided Flap Position System is operative.	on 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 N Gyro or Inertial Navigation System is inoperative.	
21-00	Aisle and Ceiling Lighting	-	-	May be inoperative provided:	
				(a) Cabin Emergency Lighting is operative,	
				(b) Sufficient lighting is operative for cre- required duties, and	w to perform
				(Cont)	

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				(,,				
33	LIGHTS (Cont)							
21-00	Aisle and Ceiling Lighting (Cont)			(c) Lighting configuration at despatch is the flight crew.	s acceptable to			
25-01	Galley Lighting Systems							
	(1) Lower Galley	-	0	May be inoperative provided lower galley is	s 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 Leg passenger seat, cabin attendant seat or lavate be occupied from which a "No Smoking/Fa: Belt/Return to Cabin" sign is not readily leg or lavatory must be blocked and placarde OCCUPY"	ory may sten Seat gible or that seat			
				OR				
		-	-	(O) No Smoking/Fasten Seat Belt/Return may be inoperative and the affected parcabin attendant seat(s) or lavatories maprovided:	ssenger seat(s),			
				(a) The PA system operates normally and heard throughout the cabin during flight				
				(b) An acceptable procedure is used to not when seat belts must be fastened prohibited and (if applicable) when pareturn to cabin from toilet compartment	d, smoking is ssengers should			
				OR				
				(c) Passengers are not carried.				
31-00	Cargo Compartment Lighting Systems	-	0	May be inoperative.				

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	поп	-	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
<u>33</u>	LIGHTS (Cont)				
33-00	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 no night.	ot operated at
41-01	Anti-Collision Lights (Red)	4	2	Two may be inoperative provided one upper Anti-Collision Light is operative.	and one lower
	(1) Daylight Operations	-	0	As required by Air Navigation Legislation. As the inoperative provided the light(s) is recarliest practicable opportunity.	
	(2) Night Operations	-	1	As required by Air Navigation Legislation. operative, and a high intensity strobe light sinstalled and operative.	
				Note 1: Daylight operations with unservicea collision lights are limited to flight UK FIR only.	
				Note 2: For operations outside the UK FIR of should check with the appropriate A Traffic Control Centres)	
41-03	High Intensity Strobe Light Systems	4	0	All may be inoperative.	
43-01	Wing and Nose Landing Lights	4	2	Two may be inoperative for night operations is operative on each side.	s provided one
		4	0	All may be inoperative provided aircraft is r night.	not operated at
43-03	Nose Gear Taxi Lights	2	0	One or both may be inoperative.	
43-04	Runway Turnoff Lights	2	0	One or both may be inoperative.	

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				(4) Remarks or Exceptions	
33	LIGHTS (Cont)				
	<u> </u>				
44-00	Navigational Position Light Systems	-	-	One light bulb in each light assembly may for night operations.	be inoperativ
		-	0	All may be inoperative provided aircraft is night.	not operated a
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 operan alternate means is available and utilised illuminate ice accretion on another outside from the flight deck.	l to adequatel
51-02	Interior Emergency Lighting Systems			from the riight deck.	
	(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 o	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)	

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	itom	[	(3) Nu	mber required for despatch	
				(4) Remarks or Exceptions	
33	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 Sign each exit, cabin stairway and lounge pa	-
				(b) One ceiling mounted light is operative cross aisle, and at two locations in the least	
				(c) One stairway lower tread light, and the landing light is operative,	stairway mid-
				(d) Six airstair tread lights are operative adjacent lights are inoperative, and (ex and base [deboarding] lights), and	
				(e) One bulb in the exterior RH slide light	is operative.
	(6) Lower Galley Lights (-1, -14, -15)	6	3	Three may be inoperative provided galley is during taxi operations.	not occupied
51-08	Exterior Emergency Lighting System	1	0	May be inoperative provided:	
				(a) The aircraft is not operated at night, and	d
				(b) Repairs or replacements are carried or calendar days.	at 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. S lights may be inoperative in accordance with approved by the Authority for a particonfiguration.	arrangements
				If the equipment becomes unserviceable the continue the flight or series of flights but sign an airport where repairs or replacements can	hall not depart
99-01	Logo Light System	1	0	May be inoperative.	

#### **Civil Aviation Authority**

MASTER MINIMUM EQUIPMENT LIST

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				(4) Remarks or Exceptions		
34	NAVIGATION					
00-01	Instrument Source Select Switches	-	0	(O) May be inoperative provided:		
				(a) Associated instruments function properly from independent sources, and		
				(b) Inoperative switches are not repositioned during flight.		
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 operative in each pilot's panel.		
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)		

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<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 provided a APFD-A system considered inoperative, and	
				NOTE: On -3 aircraft on -1, -14, -15 aircraft 34-054 or production equivalent inc TAT is from the left probe, and Saright probe. On -1, -14, -15 aircraft 093-34-054 incorporated, both TAT from the right probe.	corporated, AT is from the without SB
14-08	True Airspeed (TAS) Indicating System	1	0	May be inoperative.	
				NOTE: Other systems such as Omega AH APFMS may be affected.	RS, FMS, and
15-01	Static Air Temperature (SAT) Indicating System	1	0	May be inoperative provided:	
				(a) TAT Indicating System is operative, an	d
				(b) Associated TAT Air Temp Probe is ope	erative.
15-02	Total Air Temperature (TAT) Indicating System	1	0	May be inoperative provided:	
				(a) SAT Indicating System is operative, an	d
				(b) Associated SAT Air Temp Probe is ope	erative.
16-01	Instrument Comparator Monitor and Warning System	1	0	May be inoperative provided Attitude Headis System (AHRS) is not installed.	ng Reference
16-02	Altitude Alerting System	-	0	As required by Air Navigation Legisla inoperative. The aircraft may continue the of flights but shall not depart an airporreasonably practicable for repairs or replamade.	flight or series t where it is

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				(4) Normania di Exceptiona			
34	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	se, and		
				(b) Both ADI's are operating normally a sources.	from 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 of 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:	s, may be		
				(a) At least two independent magnetic stabi systems are installed and operative, and	lised compass		
				(b) Repairs or replacements are carried ou calendar days.	t within three		

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34	NAVIGATION (Cont)				
32-00	Radio Altimeter Systems	2	0	Both may be inoperative provided approa operational procedures do not require its use NOTE 1: GPWS may be affected.	
				NOTE 2: One operative Radio Altimeter S 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 Legislati 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 and
				(b) Associated system is not required for conducted, and	peration being
				(c) Approach minima do not require its use	<b>.</b>
				NOTE: Other systems such as FMS may be	affected.

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		1	` '	(4) Remarks or Exceptions	
				(,) Nomente di Encopasite	
34	NAVIGATION (Cont)				
44-00	Weather Radar Systems		-	<ul> <li>(O) As required by Air Navigation Legislation when flying for the purposes of public transtate that a flight may commence if the system is usuch that:</li> <li>(a) The weather radar display is provided pilot, so long as the aircraft is flying only at which it first becomes reasonably put the system to be repaired; or</li> <li>(b) When the weather report or forecasts avecommander of the aircraft indicate to nimbus clouds or other potentially hazar conditions, which can be detected by when in working order, are unlikely to be on the intended route or any planned diversion or the commander has satisfied himself to weather conditions will be encountered.</li> </ul>	to only one y to the place racticable for ailable to the that cumulodous weather the system encountered ion therefrom that any such
45-00	Ground Proximity Warning System	-	-	and can be seen and avoided, and the either case operated throughout th accordance with any relevant instruction operations manual.  As required by Air Navigation Legislation. M	aircraft is in e flight in a given in the
	(GPWS)			inoperative. The aircraft may continue the flof flights but shall not depart an airport reasonably practicable for repairs or replace made.  NOTE: Particular circumstances may require additional or alternate procedures.  The alternate procedures would require operator to consider the routes over we flying and ensure that the pilot adopted path which would give him the protest would otherwise be afforded.	where it is ements to be the use of re the which he is ed 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.	

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				(4) Remarks or Exceptions				
34	NAVIGATION (Cont)							
	<u> </u>							
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 provide 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 system 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 Glar Alpha Displays, and				
				(b) Associated System is not required for o conducted.	peration being			

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		1	(3) 1441		
				(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 do secured.	eactivated and
				If the aircraft is intended to be flown in airs TCAS operation is required, it may fly for a 10 calendar days with the equipment unserviceable, but shall not depart from a where it is reasonably practical for the equipment repaired or replaced.	not more than t completely an aerodrome
	(2) Combined TA and RA Dual Displays	2	1	(O) May be inoperative on the non-flying pilo provided:	ot side
				(a) TA and RA elements and audio operative on flying pilot side, and	functions are
				(b) TA and RA display indications are visit flying pilot.	ole to the non-
	(3) Resolution Advisory (RA) Display System(s)	2	1	(O) One may be inoperative on non-flying pil	ot side.
		-	0	(O) May be inoperative provided:	
				(a) All Traffic Alert (TA) display element 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 installe and audio functions are operative.	d RA display
62-00	Windshear System	1	0	May be inoperative.	

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		†	(3) N	umber required for despatch	
				(4) Remarks or Exceptions	
35	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 Leg automtic presentation system may be provided:-	
				(a) The manual deployment system operates	s normally.
				(b) The flight is limited to FL 300 or below.	
		-	-	(M)(O) One or more passenger service units be inoperative without flight altitude restriction	
				(a) Affected seats are blocked and placard occupancy, and	ed to prevent
				(b) Units operate normally for all usable pa toilet compartments and flight attendants	
				OR	
(Cont	)				

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35 OXYGEN (Cont)				
21-00 Passenger Oxygen Systems (cont)	1	0	<ul> <li>(O) May be inoperative provided:</li> <li>(a) Flight is not conducted where the minimal titude is above 12,000 feet MSL.</li> <li>(b) Both air conditioning packs operate normally.</li> <li>(c) All other components of the pressuring operate normally.</li> <li>(d) Maximum flight altitude does not exceed to a possenger operate normally.</li> <li>(e) Portable oxygen units containing suffiction for 30 minutes endurance are provided for passengers.</li> <li>(f) Passengers are appropriately briefed, and to a passenger or replacement is carried out calendar days.</li> <li>NOTE: The ANO oxygen requirements are good schedule 4 Scales L1 and L2. The endepends upon date of first issue of a airworthiness. Therefore a given ty may have examples subject to either scales of requirements.</li> <li>The amount of oxygen required varies between L1 and L2, particularly for oper FL250/300. Provided the operator supplies amount of oxygen, despatch is considered acceptable.</li> </ul>	mally. sation system d FL 250. dicient oxygen for 10% of the d within three given in ffectivity a certificate of type of aircraft of the two considerably rations above the required
(Cont)				

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<b>35</b> 21-00	OXYGEN (Cont)  Passenger Oxygen Systems (cont)			(4) Remarks or Exceptions  Since there are a large number of perm proposed to refer to Air Navigation Legist the operator to adapt the MEL as necess constraints applicable. The main constraints  (a) The date of first issue of a Airworthiness for individual aircraft.  (b) The aircraft altitude and cabin altitiflown, and	lation to allow ary within the are:- Certificate of
31-00	Portable Oxygen Dispensing Units (Bottle & Mask) (Therapeutic)	-	-	As required by Air Navigation Legislation. of those required by Air Navigation Legis unserviceable.  Note: The portable oxygen supplies requ L1 and L2 are totally separate from requirements of Scale R2.	Any in excess slation may be ired by Scales
31-07	Lower Galley Portable Gaseous Oxygen Cylinder with Demand Regulator and Full-Face Smoke Mask	2	0	<ul> <li>(O) Both may be inoperative provided:</li> <li>(a) Lower galley is not occupied, and</li> <li>(b) Repairs or replacements are carried or calendar days.</li> </ul>	ut within three
31-08	Protective Breathing Equipment (PBE)	-	-	As required by Air Navigation Legislation. (Refer to 25-63-01)	

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	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 takeoff is accomplished with either all packs OFF pack ON.	
	(1) (524) Series Wing Engines	2	0	(O) One or both may be inoperative provided	:
	Only With SB 093-36-044 or Production Equivalent Incorporated			(a) Ambient temperature at both departure and are airports is at or below +30oC.	
				OR	
				(b) Ambient temperature at departure or an above +30oC, and	rival airport is
				(c) APU air is available to the B2 and C2 takeoff and landing.	ATM during
11-01	11-01 High Pressure (HP) Bleed Valve	3	2	(M) (O) One may be inoperative provided:	
				(a) HP Bleed Valves and Engine Isolassociated with the remaining two bleed operative, and	
				(b) If affected valve is associated with a 52 mounted engine, associated Engine Bloconsidered to be inoperative.	
				NOTE 1: If valve has failed CLOSED, or of CLOSED using the HI PRESS so NO maintenance action is require	witchlight,
				NOTE 2: Do not open associated HP valve breaker, unless valve is mechan CLOSED.	
11-04	High Pressure (HP) Bleed Valve Controllers	3	2	(M) One may be inoperative provided associated Valve is secured CLOSED.	ited HP Bleed

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				(4) Remarks or Exceptions	
36	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 s	
11-11	Bleed Air Temperature Sensors	3	2	(M) (O) One may be inoperative provided a Bleed Valve is secured CLOSED or remai 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 sys inoperative provided:	stem may be
				(a) Associated HP Bleed Valve is secured C.	LOSED.
				OR	
				(b) Associated HP Bleed Valve remains CL the HI PRESS switchlight.	OSED using
		6	3	(M) One switch in each bleed air syst inoperative.	em 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 operation	
				(b) Affected valve is verified CLOSED after	engine start,
				(c) Both Crossbleed Valves are operative, ar	nd
				(d) Opposite side Pack Flow Control Valve i either No. 1 or No. 3 Engine Isolati inoperative.	
				NOTE 1: Starter assist relight will not be avengine with an inoperative CLO Isolation Valve.	
				(Cont)	

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		1	(3) Nui		
				(4) Remarks or Exceptions	
<u>36</u>	PNEUMATICS (Cont)				
11-18	Engine Isolation Valves (Cont)				
				NOTE 2: One Engine Isolation Valve may considered operative with the rev feature inoperative.	
				NOTE 3: Refer to Flight Manual Limitation	
				operation with Engine Isolation V Control Valve (slugger) inoperati	
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 and	is operative,
				(c) Associated Engine Isolation Valve is ope	erative.
11-44	High Pressure (HP) Over-Pressure Switches	3	2	One may be inoperative provided:	
				(a) Associated Engine Isolation Valve is ope	erative, and
				(b) Associated Over-Pressure Shutoff Valve	is operative.
				OR	
				(c) Associated HP Bleed Valve is secured remains CLOSED using the HI PRESS s	
12-02	APU Bleed Air Shutoff Valve	1	0	(M) May be inoperative provided valve CLOSED for flight.	e is secured
				NOTE 1: Valve may be manually opened to APU air for ground use.	o provide
				NOTE 2: APU air will not be available for	inflight use.

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		1	(0) 114		
				(4) Remarks or Exceptions	
0.0					
<u>36</u>	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.	Crossbleed
				OR	
				(c) Associated valve is secured CLOSED,	
				(d) All Engine Isolation Valves and bot Valves are operative, and	h Crossfeed
				(e) Both A and B Area Overheat Detection S for areas H and J are operative.	System loops
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 Va Isolation Valve, Bleed Air Ejector and Pa operative.	, .
21-00	Bleed Air Pressure Indicating Systems	3	2	One may be inoperative provided both Crossfe are operative.	ed 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 er inoperative provided Loop Selector is posit operative Loop.	

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		(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 secure	d CLOSED,
				(b) APU is not required for Electric Pneumatic Air, and	al 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 swhen APU is operated.	secured OPEN
11-15	VENT CLOSED Light	1	0	(M) (O) May be inoperative provided vo OPEN.	ent 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	d:
				(a) Associated valve is secured CLOSED,	and
				(b) APU is considered inoperative and not	used.
51-18	DON'T LOAD Light	1	0	(O) May be inoperative provided APU gener is verified within limits before loading gener	
51-21	APU Differential Pressure Switch	1	0	May be inoperative.	

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				(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 (MI operative.	N to MAX) is
71-03	OVER TEMP TGT Fault Flap	1	0	(M) May be inoperative provided it is vo	erified that the
75-03	OVER SPEED N2 Fault Flat	1	0	(M) May be inoperative provided it is vo auto-shutdown function is operative.	erified that the
91-05	HIGH TEMP OIL Fault Flag	1	0	(M) May be inoperative provided it is vo auto-shutdown function is operative.	erified that the
91-06	LOW PRESS OIL Fault Flag	1	0	(M) May be inoperative provided it is vo auto-shutdown function is operative.	erified that the
91-07	LOW OIL QUANTITY Light	1	0	May be inoperative provided oil tank quar adequate for operation being conducted.	ntity is verified

#### CIVIL AVIATION ALITHOPITY

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52 DOORS		
11-00 Emergency Exits (Including Ca Doors, Galley Service Doors)	abin -	- (M) (O) As required by Air Navigation Legislation. One exit may be inoperative provided:
		(a) The exit is secured closed prior to passenger boarding and is not used for any purpose whilst passengers are on board.
		(b) All other exits and escape slides are fully operative,
		(c) The number of passengers carried and the position of the seats which they occupy is in accordance with arrangements approved by the Authority in relation to the particular aircraft configuration,
		(d) All the emergency exit and/or exit markings, signs and lights associated with the affected door must be obscured,
		(e) The exit is marked by a red disc at least 23 cm in diameter with a horizontal white bar across it bearing the work "NO EXIT" in red letters,
		(f) Passengers are not seated near the unserviceable exit - subject to aircraft centre of gravity limitations,
		(g) The pre-take-off briefing to passengers must accurately represent the current state and condition of the aircraft's escape facilities. An oral briefing by cabin staff, or a briefing using automatic audio-visual means, or a briefing by reference to a briefing card, must be immediately qualified by an oral announcement to draw the attention of passengers to the fact that a particular exit is inoperative and displays a red "NO EXIT" disc,
		(h) Where the evacuation drill calls for cabin crew to be seated by the inoperative exit, they are briefed to direct passengers to a serviceable exit, and

(i) Repairs or replacements are carried out within three calendar days.

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		1	(3) Nul		
				(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 associated considered inoperative.	Cabin Door is
	(2) Electrical Actuation Systems	-	-	(M) (O) Two may be inoperative provided:	
				(a) Emergency Open Actuation is operative	e, and
				(b) Mechanical Actuation is verified opera	tive.
				OR	
				(c) Associated Cabin Door is considered in	operative.
				NOTE: Some aircraft have electrical actuation installed on all eight doors.	on systems
	(3) Mechanical Actuation System Handcrank	-	-	(M) Two may be inoperative provided:	
				(a) Emergency Open Actuation is operative	e, and
				(b) Electrical Actuation is verified operative	e.
				OR	
				(c) Associated Cabin Door is considered in	operative.

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				(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 inoperative provided associated door is verif and LOCKED.	
				NOTE 1: Cargo Door Lock Actuator Indi (External Green Light) and cent port cannot be used to verify the CLOSED and LOCKED.	re viewing
				NOTE 2: Cargo Door Direct View Syste 105 or production equivalent) verify that door is CLOSED and	can be used to
				NOTE 3: Refer to Maintenance Manual o MMEL Procedures Manual.	r Lockheed
34-52	Lower Cargo Door Guides (C1, C2, C3)	6	5	(M) One lower corner fitting on each door m inoperative or missing provided:	ay be
				(a) Associated door is manually CLOSED.	and
				(b) Door is verified CLOSED and accordance with approved procedures.	LOCKED in
				NOTE 1: Refer to Maintenance Manual o MMEL Procedures Manual.	r Lockheed
				NOTE 2: Any damage to the fuselage/doc must be repaired in accordance procedures contained in the stru manual before flight.	with approved
36-00	Lower Cargo Door Normal and Manual Actuation System (C-1A Door)	2	1	(M) One Normal or Manual System may be provided door is verified CLOSED and LOC	
				NOTE: Refer to Maintenance Manual or Lo MMEL Procedures Manual.	ockheed

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				(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 s the galley door.	tation, and at
51-02	Lockable Flight Deck Door				
	(1) Door Lock	1	0	As required by Air Navigation Legislation. T may be inoperative provided:	he door lock
				(a) The latch is operative and the door can the appropriate position, either closed or	
				(b) Repairs or replacements are carried out calendar days.	within three
	(2) Door and Door Latch	1	0	(M) As required by Air Navigation Legislati or door latch may be inoperative provided:	on. The door
				(a) If the door cannot be secured in the position, either closed or open, it shall and	
				(b) Repairs or replacements are carried out calendar days.	within three

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				(4) Remarks or Exceptions	
<u>52</u>	DOORS (Cont)				
64-00	Lower Lounge Air Stair System				
	(1) Manual Actuation	1	0	May be inoperative provided lower lounge i	s not occupied.
	(2) Electrical Actuation	1	0	(M) May be inoperative provided:	
				(a) Manual Actuation is operative, and	
				(b) After each use, the air stair is chec security when CLOSED.	ked for proper
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)	-	-	<ul> <li>(M/O) Six may be inoperative provided:</li> <li>(a) All doors and hatches are confirmed by inspection to be closed and locked im to each departure and,</li> <li>(b) Fasten seat belt sign remains on, and verbally briefed prior to departure to with their seat belts fastened throughout NOTE: Refer to Maintenance Manual or L MMEL Procedures Manual.</li> </ul>	passengers are remain seated at the flight.
	(3) C1, C2, C3 Cargo Lock Actuator Indicating Lights (External Green Light)	3	0	All may be inoperative.	

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		(5)	(4) Remarks		
			(4) Remarks	SI EXCEPTIONS	
52 DOORS (Cont)					
(4) C1, C2, C3 Cargo Door Annunciator Light (FE Annunciator Panel)	3	0	(M) All ma	ay be inoperative provided:	
			I \ /	ciated door is verified CLOSED cordance with approved procedur	
				ciated door actuator circuit break LARED.	er is OPEN and
			NOTE 1:	Refer to Maintenance Manual of MMEL Procedures Manual.	or Lockheed
			NOTE 2:	Cargo Door Lock Actuator Indi (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 USE	D.	

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56 WINDOWS		
10-01 Windshield		Refer to Maintenance Manual.

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				(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 Indicate are operative,	ting Systems
				(b) Engine parameters are manually mainta operating limits,	ained within
				(c) Associated Fuel Control Amplifier overr in OVRD, or the electrical connector on trim orifice (engine fuel pump as disconnected, and	
				(d) System is repaired within 25 flight hours.	
21-01	Fuel Flow Regulator Ground Idle Control Systems	3	2	(O) One may be inoperative provided associate Reverser System is operative.	d Thrust
21-23	Air Control Valve (Altitude Slugger Valve) (-3, -13, -14)	3	0	(O) All may be inoperative provided bleed air associated engine is maintained for flights above	
				NOTE: Refer to Flight Manual Limitations to with both the Engine Isolation Valve 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 verified and	ed operative,
				(c) Repairs or replacements are carried out calendar days.	within three
				NOTE: It may be necessary to install a know fuel low pressure switch in order to v fuel pump operation.	

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(1) Sys	tem & Sequence Numbers	(2) Numl	ber Installe		
	Item		(2) Num	soh or voguired for doppoteb	
		1	(3) Nur	mber required for despatch	
				(4) Remarks or Exceptions	
<u>73</u>	<b>ENGINE FUEL AND</b>				
	CONTROL (Cont)				
34-00	Engine Fuel Flow and Fuel Used	3	2	(O) One may be inoperative provided:	
	Indicating Systems				
				(a) Associated Fuel Quantity Indicatin operative, and	g system is
				(b) Repairs or replacements are carried ou	t within three
				calendar days.	
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
		1			

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	LOCKHEED L-1011 TR	ISTAR		<b>DATE:</b> 15 APRIL 1994	74-1
(1) Sys	tem & Sequence Numbers	(2) Numb	per Installe	ed	
	Item		(3) Nur	nber required for despatch	
			(5)	(4) Remarks or Exceptions	
				(4) Nemarks of Exceptions	
74	ICNITION				
<u>74</u>	IGNITION				
11-01	High Energy Ignition Systems	6	3	(M) (O) One system (A or B) for each e inoperative provided not more than one inoperative.	engine may be B system is
11-02	Continuous Ignition Systems	6	3	(M) One system (A or B) for each er inoperative.	ngine may be

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LOCKHEED L-1011 TRI	STAR		DATE:	15 APR	RIL 1994	75-1
(1) System & Sequence Numbers	(2) Number	er Installe				•
Item	] г	(3) Nun	nber required	for despa	atch	
			(4) Remarks	or Exce	ptions	
75 BLEED AIR						
21-00 Zone 1 Vent Valves	3	0	(M) All OPEN or	may be	inoperative provided assoc ED.	iated valve is

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	LOCKHEED L-1011 T	AIRCRAFT: LOCKHEED L-1011 TRISTAR			<b>PAGE</b> : 77-1
1) Syste	em & Sequence Numbers	(2) Numb	er Install	<b>DATE:</b> 15 APRIL 1994 ed	
	Item		(3) Nu	mber required for despatch	
			(5) 1441		
				(4) Remarks or Exceptions	
	ENGINE INDICATING				
77	ENGINE INDICATING				
1-00	EPR Indicating Systems	3	2	(O) One may be inoperative provided:	
				(a) An intermix of engines is not installed	l,
				(b) All other engine parameters are norma	al,
				(c) Associated N1, N2, N3 and Fuel Systems are operative,	Flow Indicatin
				(d) Appropriate N1 thrust setting data is a	vailable,
				(e) Limited gross weights contained in the for takeoff and or climb are reduce (6,000 lb),	
				(f) Reduced thrust operation is not used,	and
				(g) System is repaired within 25 flight ho	urs.
	(1) Digital Indicators	3	0	All may be inoperative.	
2-00	Instrument Limit Lights (N1, N2, TGT)	12	0	All may be inoperative.	
2-04	N1 RPM Indicating Systems	3	2	(O) One may be inoperative provided:	
				(a) Associated EPR, N2, N3 and Fuel Systems are operative, and	Flow Indication
				(b) Repairs or replacements are carried calendar days.	out within thr
	(1) Digital Indicators	3	0	All may be inoperative.	
2-06	N2 RPM Indicators	3	2	(M) One may be inoperative provided:	
				(a) Associated EPR, N1, N3, TGT and operative,	Fuel Flow a
				(b) Associated Engine Overtemp/Over System is verified operative before ea	
				(Cont)	

(1) System & Sequence Numbers Item  (2) Number Installed  (3) Number required for despatch  (4) Remarks or Exceptions  (5) 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: Components of the N2 RPM Indicator required to support the Engine Overtemp/Overspeel of Control System.  NOTE: With Engine 2 N2 RPM Indicator inoperative Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.  12-07 N3 RPM Indicating Systems  3 2 (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  (2) Digital Indicators  3 0 (O) May be inoperative provided engine start switches manually disengage starter.  NOTE: For starting procedure when operating with an Nicolating 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:	
(3) Number required for despatch   (4) Remarks or Exceptions	LOCKHEED L-1011 TRISTAR				<b>DATE</b> : 15 APRIL 1994 77-2
(a) Number required for despatch   (b) Remarks or Exceptions	(1) Sys		(2) Numb	ber Installe	ed
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.		Item		(3) Nur	nber required for despatch
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 Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.     NOTE 3: With Engine 2 N2 RPM Indicator inoperative Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.     (a) Associated EPR, N1, N2 and Fuel Flow Indicating Systems are operative, and     (b) Repairs or replacements are carried out within three calendar days.					(4) Remarks or Exceptions
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 Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.     NOTE 3: With Engine 2 N2 RPM Indicator inoperative Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.     (a) Associated EPR, N1, N2 and Fuel Flow Indicating Systems are operative, and     (b) Repairs or replacements are carried out within three calendar days.					
(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 Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.  12-07 N3 RPM Indicating Systems  3 2 (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 Ni indicating system inoperative, see Lockheed MMEL Procedures Manual or Operating Manual.  13-00 Rated EPR Computer System  1 0 May be inoperative.	<u>77</u>				
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 Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.  12-07 N3 RPM Indicating Systems  3 2 (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  (2) Digital Indicators  3 0 (O) May be inoperative provided engine start switches manually disengage starter.  NOTE: For starting procedure when operating with an N2 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  1 0 May be inoperative provided aircraft is operated in	12-06	N2 RPM Indicators (Cont)			
System other than the Indicator are required to support the Engine Overtemp/Overspeed Control System.  NOTE 2: With Engine 2 N2 RPM Indicator inoperative Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.  12-07 N3 RPM Indicating Systems  3 2 (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  (2) Digital Indicators  3 0 (O) May be inoperative provided engine start switches manually disengage starter.  NOTE: For starting procedure when operating with an National 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  1 0 May be inoperative provided aircraft is operated in					
Refer to Flight Manual Performance for inoperative Engine 2 Fail Light.  12-07 N3 RPM Indicating Systems  3 2 (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  (2) Digital Indicators  3 0 (O) May be inoperative provided engine start switches manually disengage starter.  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  1 0 May be inoperative provided aircraft is operated in					System other than the Indicator are required t support the Engine Overtemp/Overspeed
(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  (2) Digital Indicators  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  1 0 May be inoperative provided aircraft is operated in					Refer to Flight Manual Performance for
Systems are operative, and  (b) Repairs or replacements are carried out within three calendar days.  (1) Auto-cutoff Engine Starting Functions  3	12-07	N3 RPM Indicating Systems	3	2	(M) (O) One may be inoperative provided:
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 Naindicating 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  1 0 May be inoperative provided aircraft is operated in					
Functions  (2) Digital Indicators  3					
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  1 0 May be inoperative provided aircraft is operated in			3	0	
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  1 0 May be inoperative provided aircraft is operated in		(2) Digital Indicators	3	0	All may be inoperative.
14-00 ENG 2 FAIL Indicating Light 1 0 May be inoperative provided aircraft is operated in					indicating system inoperative, see Lockheed
	13-00	Rated EPR Computer System	1	0	May be inoperative.
	14-00		1	0	

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(1) System & Sequence Numbers  Item		(2) Number Installed					
		_	(3) Nur	(3) Number 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	<ul> <li>(M) (O) One Channel (A or B) for each engine inoperative provided:</li> <li>(a) Circuit breaker for affected channel is COLLARED, and</li> <li>(b) Remaining channel is verified operative departure.</li> </ul>	s OPEN and		
31-00	Channels A and B-Airborne Vibration Monitor (AVM) Systems	6	3	<ul> <li>(M) (O) One Channel (A or B) for each engine inoperative provided:</li> <li>(a) Operator has established flight crew promonitoring the AVM level for all recording them for succeeding flights,</li> <li>(b) OIL FILTER PRESSURE Light associated engine is operative,</li> <li>(c) OIL PRESS ENG Light System for associate operative, and</li> <li>(d) Aircraft is operated in accordance with Flimitations.</li> </ul>	rocedures for engines, and system for ciated engine		

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		ISTAR		<b>DATE:</b> 15 APRIL 1994	78-1		
(1) System & Sequence Numbers		(2) Num	(2) Number Installed				
Item (3)			(3) Nui	(3) Number required for despatch			
				(4) Remarks or Exceptions			
<u>78</u>	ENGINE EXHAUST						
31-00	Reverser Systems	3	2	<ul> <li>(M) (O) One may be inoperative provided:</li> <li>(a) Associated reverser is deactivated and s forward thrust position, and</li> <li>(b) Operations are conducted in accordance Flight Manual.</li> </ul>			
31-33	Reverser Indicating Light Systems  (1) UNLOCK, or TRANSIT, or REVERSER UNLOCK (Pilot Panel)	3	2	<ul> <li>(M) (O) One may be inoperative provided:</li> <li>(a) All other reverser indicating lights are on</li> <li>(b) Associated reverser is verified ST LOCKED after each actuation, and</li> <li>(c) Associated light is either OFF or is covered.</li> </ul>	OWED and		
	<ul> <li>(2) REVERSE, or         OPERATING, or FULL         REVERSE, or         REVERSER IN TRANSIT         (Pilot Panel)</li> <li>(3) Reverser Pressure         or Reversers Operating</li> </ul>	3	2	(M) (O) One may be inoperative provided:  (a) All other reverser indicating lights are operative provided.			

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(1) Sys	tem & Sequence Numbers	(2) Number Installed					
Item			(3) Number required for despatch				
			(4) Remarks or Exceptions				
<u>79</u>	ENGINE OIL						
31-02	OIL Filter Pressure Lights			NOT USED.			
31-02	OIL I liter I lessure 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 associate engine are operative,			
				(b) Associated Oil Temperature Indicating System operative,			
				(c) Associated Oil Quantity Indicating System operative, and			
				(d) Repairs or replacements are carried out within thre calendar days.			
34-00	Oil Temperature Indicating Systems	3	2	(O) One may be inoperative provided:			
				(a) Oil Quantity Indicating Systems for associated enging is operative,			
				(b) Fuel Temperature Indicating System for associate engine is operative, and			
				(c) Repairs or replacements are carried out within three calendar days.			
				NOTE 1: Approximate oil temperature of an RB 211-22B series engines can be obtained by addin 15øC to associated engine fuel temperature indicator.			
				NOTE 2: Approximate oil temperature of an RB 211-524B Series engine can be obtained by addit the following appropriate value to associate engine fuel temperature indicator:			
				Takeoff: +85øC Climb +70øC Cruise +50øC			
				engine fuel temperature indicator:  Takeoff: +85øC Climb +70øC			

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(1) System & Sequence Numbers	(2) Numb	ber Installed
Item		(3) Number required for despatch
	7	(4) Remarks or Exceptions
		(1) Terraine of Exceptions
79 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 manufacture
		maximum recommended quantity in accordance wi the manufacturers servicing instructions prior to ea- departure, and
		(b) Repairs or replacements are carried out within thr calendar days.

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(1) System & Sequence Numbers (2) Number In			per Installe			<u> </u>
	Item		(3) Nur	nber required for despa	atch	
		1	(-)	(4) Remarks or Exce		
				(4) Remarks of Exce	puons	
90	STADTING					
<u>80</u>	STARTING					
11-02	Starter VALVE OPEN Light Systems	3	2	(M) (O) One may Starter Control start.	y be inoperative provided asso Valve is verified CLOSED	ociated after engine
11-08	Starter Control Valve Systems	3	2		y be inoperative provided asso SED after engine start.	ociated valve
		1		I		

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