



U.S. Department of Transportation
Federal Aviation Administration
Washington, DC

Master Minimum Equipment List (MMEL)

Revision: 5
Date: 06/03/2022

Boeing 737 MAX B-737-7/-8/-8200/-9

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50	Cargo and Accessory Compartments	50-1 thru 2	3	04/12/2021
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71	Powerplant	71-1	3	04/12/2021
73	Engine Fuel and Control	73-1	3	04/12/2021
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75	Bleed Air	75-1	3	04/12/2021
77	Engine Indicating	77-1	Original	03/09/2017
78	Engine Exhaust	78-1	Original	03/09/2017
79	Engine Oil	79-1	5	06/03/2022
80	Starting	80-1	Original	03/09/2017

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LOG OF REVISIONS

REV NO.	DATE	PAGE NO.
Original	03/09/2017	All Pages
1	01/17/2018	Cover Page, Table of Contents and Control Page, Log of Revisions, Highlights of Change, 21-1 thru 14, 23-1 thru 15, 24-1 thru 3, 25-1 thru 17, 26-1 thru 9, 27-1 thru 4, 28-1 thru 7, 30-1 thru 6, 31-1 thru 5, 32-1 thru 6, 33-1 thru 9, 34-1 thru 11, 35-1 thru 3, 36-1 thru 8, 49-1 thru 4, 52-1 thru 6, 75-1, 79-1.
2	04/10/2020	Cover Page, Table of Contents and Control Page, Log of Revisions, Highlights of Change, 22-1 thru 5, 27-1.
3	04/12/2021	Cover Page, Table of Contents and Control Page, Log of Revisions, Highlights of Change, Guidelines for (M) and (O) Procedures, 21-11 thru 14, 22-4, 23-3, 23-15, 25-4 thru 6, 25-10 thru 12, 25-15, 26-3, 26-8, 27-2, 27-4, 28-1, 30-5, 30-7, 32-1, 32-4 thru 5, 33-7 thru 8, 34-2, 34-9 thru 12, 35-3, 36-6 thru 8, 46-1, 49-1, 50-2, 52-2, 52-6 thru 7, 71-1, 73-1, 75-1.
4	12/23/2021	Cover Page, Table of Contents and Control Page, Log of Revisions, Highlights of Change, Guidelines for (M) and (O) Procedures.
5	06/03/2022	Cover Page, Table of Contents and Control Page, Log of Revisions, Highlights of Change, FAA Policy Application Record, 21-2, 21-12 thru 15, 22-1 thru 4, 23-1, 23-4, 23-7 thru 8, 23-15, 25-15 thru 19, 26-9, 27-4, 28-7, 33-2, 33-8, 34-9 thru 11, 35-3 thru 4, 46-1 thru 2, 74-1, 79-1.

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AIRCRAFT: B-737-7/-8/-8200/-9	HIGHLIGHTS OF CHANGE

The following changes are the Highlights of Changes for Revision 5.

PAGE NO.	EXPLANATION OF CHANGE
General	Minor editorial corrections and formatting changes were made throughout the document, indicated with change bars. These editorial corrections may be adopted in Minimum Equipment Lists (MEL) at the operator's discretion.
VI thru XI	Added FAA MMEL Policy Application Record section.
ATA 21 Air Conditioning	
21-2	Modified dispatch option 21-27-02A proviso (a) for clarity.
21-12 thru 13	Added new sub-item 21-51-01-02 with new dispatch options 21-51-01-02A, 21-51-01-02B, and 21-51-01-02C for 737-7 dispatch with one or both air conditioning packs inoperative.
21-14	Added proviso (b) and (O) procedure requirement for dispatch option 21-51-02-02B.
21-15	Modified title, added proviso, and added (M) procedure requirement for item 21-51-04. Corrected typographical error in dispatch option 21-51-05B numbering.
ATA 22 Autoflight	
22-1	Modified item 22-10-01 to account for deleted content from Revision 2.
22-2	Modified item 22-11-05-02 to account for deleted content from Revision 2.
22-3	Modified item 22-11-06-02 to account for deleted content from Revision 2. Modified item 22-11-08-01 to account for deleted content from Revision 2.
22-4	Modified item 22-11-10 to account for deleted content from Revision 2.
ATA 23 Communications	
23-1	Modified item 23-12-01 number required to align with FAA MMEL PL-95 R2.
23-4	Modified item 23-27-01 title for clarity. Added "****" to indicate optional equipment.
23-7	Modified title of sub-item 23-41-01-01 and proviso (a) of dispatch option 23-41-01-01A.
23-8	Added (O) procedure requirement for dispatch option 23-42-01-01B.
23-15	Modified title of sub-item 23-51-06-01 and proviso (a) of dispatch option 23-51-06-01A. Removed triple asterisk (***) because item is standard.

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PAGE NO.	EXPLANATION OF CHANGE	
ATA 25 Equipment/Furnishings		
25-15	Modified item 25-64-01 content to align with FAA MMEL PL-132 R0.	
25-16	Modified item 25-64-02 content to align with FAA MMEL PL-132 R0.	
25-17	Modified sub-item 25-64-03-01 content to align with FAA MMEL PL-132 R0.	
25-18	Modified sub-item 25-64-03-02 content to align with FAA MMEL PL-132 R0.	
25-19	Modified sub-item 25-64-03-03 content to align with FAA MMEL PL-132 R0.	
ATA 26 Fire Protection		
26-9	Modified item 26-26-01 content to align with FAA MMEL PL-132 R0.	
ATA 27 Flight Controls		
27-4	Modified title of sub-item 27-88-01-01 to add 737-7 applicability. Modified number installed and number required to align with existing relief.	
ATA 28 Fuel		
28-7	Added (O) requirement to sub-item 28-42-02-01.	
ATA 33 Lights		
33-2	Modified sub-item 33-16-01-01 title for clarity.	
33-8	Removed item 33-45-01 triple asterisk (***) because item is standard.	
ATA 34 Navigation		
34-9	Modified title for sub-item 34-53-01-02. Modified repair interval, proviso, and note for dispatch option 34-53-01-02A. Modified proviso and removed note for dispatch option 34-53-01-02B. Added new dispatch option 34-53-01-02C. All changes have been made to reflect FAA MMEL Policy Letter PL-105 Rev 4.	
34-10	Added triple asterisk (***) to item 34-57-01 because item is optional. Added (O) procedure requirement for dispatch option 34-58-01B.	

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AIRCRAFT: B-737-7/-8/-8200/-9		HIGHLIGHTS OF CHANGE
PAGE NO.	EXPLANATION OF CHANGE	
34-11	Added proviso (c) and (O) procedure requirement for dispatch option 34-61-01-01B. Corrected typographical error in proviso.	
ATA 35 Oxygen		
35-3	Modified item 35-31-01 content to align with FAA MMEL PL-132 R0.	
35-4	Modified item 35-31-02 content to align with FAA MMEL PL-132 R0.	
ATA 46 Information Systems		
46-1 thru 2	Updated organization of sub-items as well as sub-item titles, provisos, and notes to align with FAA MMEL PL-121 R1.	
ATA 74 Ignition		
74-1	Added (O) requirement for dispatch option 74-00-01-01A.	
ATA 79 Engine Oil		
79-1	Added note to clarify item 79-35-01.	

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AIRCRAFT: B-737-7/-8/-8200/-9	FAA MMEL POLICY APPLICATION RECORD

With this MMEL **Revision 5**, stated policy from the following list of FAA MMEL Policy Letters (PL) has been applied to the appropriate items listed on the MMEL, as applicable.

Note: The FAA MMEL Policy Application Record is not required for inclusion in an operator's MEL.

PL No.	Subject	PL Revision and Date	Affected Item Sequence Number(s)
PL-001	Wide-Body Passenger Airplane Door/Slide Relief	Revision 4 02/27/2010	N/A
PL-002	Aural and Visual Speed Warning Policy	Revision 1 08/15/1997	N/A
PL-003	DME Systems MMEL Policy	Revision 1 08/15/1997	34-55-01
PL-005	Takeoff Warning Systems	Revision 1 08/15/1997	N/A
PL-009	Public Address System, Crewmember Interphone and Alerting Systems	Revision 12 10/23/2015	23-31-01 23-41-01 23-42-01 23-42-02 23-42-03 23-51-06
PL-013	Oil Temperature and Pressure Instrument MEL Policy	Revision 1 08/15/1997	N/A
PL-024	Lavatory Fire Protection	Revision 5 10/23/2015	26-14-01 26-24-01
PL-025	MMEL/MEL Definitions	Revision 22 08/19/2021	As Applicable
PL-026	Thrust Reversers on Small Turbojet Airplanes	Revision 1 08/15/1997	N/A
PL-029	Master Minimum Equipment List (MMEL) Requirements for Cockpit Voice Recorder (CVR)	Revision 5 08/10/2010	23-71-01
PL-031	MMEL Format Specification	Revision 3 01/20/2011	As Applicable
PL-032	Traffic Alert and Collision Avoidance System (TCAS)	Revision 7 07/07/2006	34-45-01

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FAA MMEL POLICY APPLICATION RECORD

PL No.	Subject	PL Revision and Date	Affected Item Sequence Number(s)
PL-034	MMEL and MEL Preamble	Revision 4 08/15/1997	As Applicable
PL-036	14 CFR Part 91 MEL Approval and Preamble	Revision 3 06/16/2020	As Applicable
PL-038	Policy Regarding MMEL Relief for Primary Thrust Setting Instruments on Two-Engine Airplanes	Revision 1 08/15/1997	N/A
PL-039	Altitude Alerting Systems	Revision 5 01/29/2010	22-11-11
PL-040	ETOPS and Polar Operations	Revision 3 11/10/2020	As Applicable
PL-045	Time Limited Dispatch (TLD) Authorization for Full Authority Digital Electronic Control (FADEC) Engines	Revision 2 03/04/2004	N/A
PL-054	Terrain Awareness and Warning System (TAWS)	Revision 10 10/31/2005	34-49-01
PL-056	Flight Deck FWD Observer Seat	Revision 5 01/01/2012	25-11-02
PL-058	Flight Deck Headsets and Hand Microphones	Revision 4 03/24/2012	23-51-03 23-51-05
PL-063	Instrument and Equipment Items Required for Emergency Procedures	Revision 4 07/05/2012	As Applicable
PL-064	Electrical Power MMEL Policy - Four Engine Cargo Airplanes	Revision 1 08/15/1997	N/A
PL-065	Policy Regarding Cargo Provisions in the MMEL for Cargo Operations	Revision 1 08/15/1997	N/A

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FAA MMEL POLICY APPLICATION RECORD

PL No.	Subject	PL Revision and Date	Affected Item Sequence Number(s)
PL-067	Windshear Warning and flight Guidance System (RWS) Windshear Detection and Avoidance System (PWS)	Revision 4 01/15/2012	34-41-01 34-49-01
PL-069	External Door Indication System	Revision 2 09/24/2003	52-71-01
PL-072	Wing Icing Detection Lights	Revision 4 03/12/2012	33-41-01
PL-076	ATC Transponders and Automatic Altitude Reporting Systems	Revision 7 12/04/2017	34-53-01
PL-077	Cockpit and Instrument Lighting Systems	Revision 4 12/17/2012	33-11-01
PL-079	Passenger Seat Relief	Revision 9 12/05/2017	25-22-01
PL-083	Water and Waste Systems on Air Carrier Aircraft	Revision 8 05/11/2015	38-10-01 38-30-01
PL-084	Master Minimum Equipment List (MMEL) for Reduced Separation Minimum (RVSM) Operations	Revision 1 08/15/1997	As Applicable
PL-087	Flight Data Recorder (FDR)	Revision 10 08/10/2010	31-31-01
PL-089	FASTEN SEAT BELT WHILE SEATED Signs or Placards	Revision 2 01/31/2009	25-20-01
PL-090	Pitot Heat Indicating System	Revision 1 09/20/2001	30-31-05
PL-093	Autopilot Disconnect MMEL Policy	Revision 1 09/11/2006	N/A

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FAA MMEL POLICY APPLICATION RECORD

PL No.	Subject	PL Revision and Date	Affected Item Sequence Number(s)
PL-094	Liquid or Paste Propeller Deicer	Revision 1 10/08/2004	N/A
PL-095	VHF Communications MMEL Requirements	Revision 2 01/15/2012	23-12-01
PL-096	Galley/Cabin Waste Receptacles Access Doors/Covers	Revision 2 01/29/2010	25-31-01
PL-097	Flight Attendant Seat(s)	Revision 4 09/06/2007	25-25-01
PL-098	Navigation Databases	Revision 1 06/01/2017	34-61-01
PL-099	Door/Slide Relief Policy	Revision 2 02/26/2010	N/A
PL-100	MMEL/MEL Relief for Cargo Restraint Components	Revision 3 10/02/2020	50-21-02
PL-101	Autopilot Relief	Revision 2 12/15/2011	22-10-01
PL-102	Cargo Compartment Smoke Detection and Fire Suppression Systems	Revision 2 12/17/2012	26-16-01 26-23-01
PL-104	Storage Bins/Cabin, Galley and Lavatory Storage Compartments/Closets	Revision 7 06/24/2020	25-28-01
PL-105	Automatic Dependent Surveillance-Broadcast (ADS-B) System	Revision 4 02/08/2021	34-53-01
PL-106	High Frequency (HF) Communications	Revision 5 06/06/2014	23-11-01

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FAA MMEL POLICY APPLICATION RECORD

PL No.	Subject	PL Revision and Date	Affected Item Sequence Number(s)
PL-107	MMEL Relief for Inoperative APU Generator	Revision 1 05/22/2001	24-21-01
PL-108	Carriage of Empty Cargo Handling Equipment	Revision 1 10/17/2011	21-21-01 21-27-02 21-31-01 21-31-02 21-32-01 21-33-01 21-33-02 21-33-03 21-51-01 21-51-02 26-16-01 26-23-01 50-10-01 52-31-01
PL-109	Supplemental Type Certificate (STC) MMEL/MEL Relief Process	Revision 1 11/07/2019	As Applicable
PL-111	MMEL Policy for Inoperative Standby Attitude Indicator	Revision 1 01/29/2004	34-24-01
PL-112	Relief for 14 CFR 25.795 Compliant Flight Deck Doors	Revision 2 01/18/2012	52-51-01 52-51-02 52-51-03
PL-113	MMEL Relief for Anti-Skid Inoperative	Revision 0 12/20/2002	32-42-01
PL-114	Nose Gear Steering Systems	Revision 1 10/09/2012	32-51-01
PL-117	Selective Call System (SELCAL)	Revision 0 10/07/2005	23-28-01
PL-119	Two-Section MMELs (Parts 91, 125, and 135)	Revision 4 12/04/2017	N/A
PL-120	Emergency Locator Transmitters (ELT)	Revision 3 04/12/2019	23-24-01 25-63-02
PL-121	Electronic Flight Bag (EFB)	Revision 1 05/05/2021	46-20-01

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FAA MMEL POLICY APPLICATION RECORD

PL No.	Subject	PL Revision and Date	Affected Item Sequence Number(s)
PL-122	Flight Deck Door Surveillance Systems	Revision 1 10/09/2012	23-75-01 52-51-04
PL-123	Passenger Notice System (Lighted Information Signs)	Revision 1 04/30/2010	33-24-01
PL-124	Damaged Window/Windshield Relief	Revision 0 01/20/2009	N/A
PL-125	Equipment Relief without Passengers	Revision 1 11/27/2012	25-25-01 25-64-01
PL-126	Chelton FlightLogic Electronic Flight Instrument Systems (EFIS)	Revision 0 05/28/2010	N/A
PL-127	Night Vision Imaging Systems (NVIS)	Revision 0 06/07/2010	N/A
PL-129	Cockpit Smoke Vision Systems (CSVs)	Revision 0 03/12/2012	N/A
PL-130	Flightcrew Rest Facilities (FCRF)	Revision 2 03/12/2021	N/A
PL-131	Radar (Radio) Altimeters for Rotorcraft	Revision 0 10/23/2019	N/A
PL-132	Portable Emergency Equipment	Revision 0 05/03/2021	25-64-01 25-64-02 25-64-03 26-26-01 35-31-01 35-31-02

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Definitions

Refer to the current FAA MMEL Policy Letter 25, MMEL and MEL Definitions, found on the FAA Flight Standards Information Management System (FSIMS) website.

Preamble

For operations under 14 CFR parts 91 subpart K (part 91K), 121, 125, 125 LODA, 129, and 135, refer to the current FAA MMEL Policy Letter PL-34, MMEL and MEL Preamble. For operations under 14 CFR part 91, refer to current FAA MMEL Policy Letter PL-36, 14 CFR Part 91 MEL Approval and Preamble. Both Policy Letters are found on the FAA Flight Standards Information Management System (FSIMS) website.

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GUIDELINES FOR (M) AND (O) PROCEDURES

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for some items. These procedures must be established by the operator and may be based on the aircraft manufacturer's recommended procedures, Supplemental Type Certificate modifier's recommended procedures, or equivalent operator procedures. When recommended procedures are published, the operator should comply with these procedures:

(M) and (O) Procedures are based on the Maintenance and Operational Procedures published in the Boeing 737-7/-8/-8200/-9 Dispatch Deviations Guide (DDG).

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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
21-01	Ground Conditioned Air Connector Check Valve					
21-01A		C	1	0	May be inoperative closed.	
21-01B		C	1	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Outflow valve is positioned to full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
22-01	Flight Deck Foot Heater Systems	C	2	0	May be inoperative provided flight deck temperature is acceptable to flightcrew.	
23-01	Return Air Grille	C	-	-	(M) One may be broken or missing provided: <ol style="list-style-type: none"> a) Broken or missing grille is located within a designated area defined by Boeing, and b) Grille is removed and replaced with a blanking plate. 	

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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
25-01	Recirculation Fans	C	2	0	May be inoperative provided: a) OAT remains below 100 °F (38 °C), and b) Flight is conducted pressurized.	
25-01-01	Left Fan	C	1	0	Left fan may be inoperative provided left pack is operating when OAT is above 100 °F (38 °C).	
25-01-02	Right Fan	C	1	0	Right fan may be inoperative provided: a) Left pack is operating when OAT is above 100 °F (38 °C), and b) Flight is conducted pressurized.	
27-01	Equipment Cooling Supply and Exhaust Fans	B	4	3	(M) One fan may be inoperative provided: a) All remaining fans are verified to operate normally, and b) Both low flow detectors are verified to operate normally.	
27-02	Overboard Exhaust Valve					
27-02A		C	1	0	(M) Except for ER operations, may be inoperative provided: a) Overboard exhaust valve is deactivated in the SMOKE position, and b) Both packs operate normally.	
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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
27-02	Overboard Exhaust Valve (Cont'd)					
27-02B		C	1	0	(M)(O) May be inoperative in open position provided: <ul style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Outflow valve is positioned to full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
27-03	Equipment Cooling Low Flow Detector Systems	B	2	1	(M)(O) May be inoperative provided associated fans (supply or exhaust) are verified to operate normally.	
27-04	Equipment Cooling Air Filter	C	1	0	(M) Equipment cooling system may be operated with filter removed.	
27-05 ***	Enhanced E6 Rack Equipment Cooling Exhaust Fan	D	1	0	(M) May be inoperative provided: <ul style="list-style-type: none"> a) Enhanced E6 Rack Equipment Cooling Exhaust Fan is deactivated, and b) All actively cooled and passively cooled equipment located on Enhanced E6 Rack shelves 1 and 3 is deactivated or removed. 	

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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Cabin Pressure Control Systems					
31-01-01	Automatic Mode					
31-01-01A		C	2	1	(M)(O) One automatic mode may be inoperative provided: a) Manual mode operates normally, and b) Inoperative controller is deactivated.	
31-01-01B		C	2	0	(M)(O) Both automatic modes may be inoperative provided: a) Flight is conducted in unpressurized configuration, b) Outflow valve is positioned to full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	
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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Cabin Pressure Control Systems (Cont'd)					
31-01-02	Manual Mode	C	1	0	(M)(O) May be inoperative provided: a) Flight is conducted in an unpressurized configuration, b) Outflow valve is deactivated in full open position or removed, c) Recirculation fan(s) operates normally, d) Extended overwater flight is prohibited, and e) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	

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Sequence No.	Item	1	2	3	4	Change Bar
31-02	Main Outflow Valve	C	1	0	(M)(O) May be inoperative provided: <ul style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Outflow valve is deactivated in full open position or removed, c) Recirculation fan(s) operates normally, d) Extended overwater flight is prohibited, and e) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
31-02-01	Automatic Mode Electronic Actuators/Motors	C	2	1	May be inoperative provided manual mode motor operates normally.	
32-01	Positive Pressure Relief Valves					
32-01A		C	2	1	(M) May be inoperative closed for pressurized flight.	
(Continued)						

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4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
32-01	Positive Pressure Relief Valves (Cont'd)					
32-01B		C	2	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Outflow valve is positioned to full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
33-01	Cabin Rate of Climb Indicator					
33-01-01	Pressurized Flight	C	1	0	May be inoperative provided both automatic modes of cabin pressure control systems operate normally.	
(Continued)						

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
33-01	Cabin Rate of Climb Indicator (Cont'd)					
33-01-02	Unpressurized Flight	C	1	0	(M)(O) May be inoperative provided: a) Flight is conducted in an unpressurized configuration, b) Outflow valve is positioned to full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	
33-02	Cabin Differential Pressure Indication					
33-02-01	Cabin Altitude Indication Operative	C	1	0	May be inoperative provided: a) Cabin altitude indication operates normally, and b) A chart is provided to crew to convert cabin altitude to differential pressure.	
(Continued)						

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
33-02	Cabin Differential Pressure Indication (Cont'd)					
33-02-02	Unpressurized Flight	C	1	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Outflow valve is deactivated in full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
33-03	Cabin Altitude Indication					
33-03-01	Cabin Differential Pressure Indication Operative	C	1	0	May be inoperative provided: <ol style="list-style-type: none"> a) Cabin differential pressure indication operates normally, and b) A chart is provided to crew to convert differential pressure to cabin altitude. 	
(Continued)						

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4. REMARKS OR EXCEPTIONS

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
33-03	Cabin Altitude Indication (Cont'd)					
33-03-02	Unpressurized Flight	C	1	0	(M)(O) May be inoperative provided: <ul style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Outflow valve is deactivated in full open position, c) Recirculation fan(s) operates normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
33-04	Cabin Altitude Warning System	C	1	0	May be inoperative provided flight altitude remains at or below 10,000 ft. MSL.	
33-04-01	CABIN ALTITUDE Light	C	2	1	(O) May be inoperative provided flightcrew performs a briefing on cabin altitude warning indications and procedures before engine start for first flight of day and following any change of either flightcrew member.	
33-04-02 ***	High Altitude Warning System	D	1	0	May be inoperative provided procedures do not require its use.	

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
33-05	Outflow Valve Position Indicator	C	1	0	(M)(O) May be inoperative provided valve is verified to operate normally.	
45-01	Door Area Heater Systems	D	-	0	(M) May be inoperative deactivated.	
51-01	Air Conditioning Packs					
51-01-01	Air Conditioning Packs (737-8/-8200/-9)					
51-01-01A		C	2	1	(O) Except for ER operations, one may be inoperative provided flight altitude remains at or below FL 250.	
51-01-01B		C	2	0	(M)(O) Except for ER operations, both may be inoperative provided: <ol style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Recirculation fan(s) operates normally, c) Both E/E equipment cooling exhaust fans operate normally, and d) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
(Continued)						

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TABLE KEY

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
51-01	Air Conditioning Packs (Cont'd)					
51-01-02	Air Conditioning Packs (737-7)					
51-01-02A		C	2	1	(M)(O) Except for ER operations, one may be inoperative provided: a) Flight altitude remains at or below FL 250, and b) Smoke vent is verified to operate normally.	
51-01-02B		C	2	1	(O) Except for ER operations, one may be inoperative provided: a) Flight altitude remains at or below FL 250, b) Procedures are established and used to ensure forward lower lobe cargo compartment remains empty or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	
(Continued)						

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TABLE KEY

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
51-01	Air Conditioning Packs (Cont'd)					
51-01-02	Air Conditioning Packs (737-7) (Cont'd)					
51-01-02C		C	2	0	(M)(O) Except for ER operations, both may be inoperative provided: <ul style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Recirculation fan(s) operates normally, c) Both E/E equipment cooling exhaust fans operate normally, and d) Procedures are established and used to ensure lower cargo compartment remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	

AIRCRAFT: B-737-7/-8/-8200/-9		TABLE KEY 1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS			
21. Air Conditioning					
Sequence No.	Item	1	2	3	4
51-02	Pack Flow Control and Shutoff Valves	C	2	0	(M) May be inoperative provided: a) Affected valve is deactivated closed, and b) Associated pack is considered inoperative.
51-02-01	Electronic Flow Control	C	2	0	(O) May be inoperative provided: a) Appropriate performance adjustments are applied, and b) Procedures are established and used to ensure aft lower cargo compartment remains empty or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.
51-02-02	Position Indicator Switch Discrete Signal				
51-02-02A		C	2	1	May be inoperative failed open provided both air conditioning packs operate normally.
51-02-02B		C	2	1	(O) May be inoperative failed closed provided: a) Both air conditioning packs operate normally, and b) An Unpressurized Takeoff or a No Engine Bleed Takeoff is not conducted.

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
51-03	Fan Bypass Check Valves					
51-03A		C	2	0	May be inoperative open or missing provided airport ambient temperature remains below 80 °F (27 °C)	
51-03B		C	2	0	May be inoperative open or missing for an associated inoperative pack.	
51-03C		D	2	1	May be inoperative open or missing provided pack associated with remaining fan bypass check valve operates normally.	
51-04	Pack Flow Sensors	C	2	0	(M) May be inoperative provided pack inlet pressure sensor(s) for associated air conditioning pack(s) is verified to operate normally.	
51-05	Pack Temperature Control Valves					
51-05A		C	2	0	(O) May be inoperative provided associated standby pack temperature control valve is verified to operate normally.	
51-05B		C	2	0	(M)(O) May be inoperative provided: a) Associated pack temperature control valve is locked closed, and b) Associated standby pack temperature control valve is verified to operate normally.	
51-05C		C	2	0	May be inoperative provided associated pack is considered inoperative.	

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21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
51-06	Standby Pack Temperature Control Valves	C	2	0	May be inoperative provided associated pack temperature control valve operates normally.	
51-07	PACK Light Systems	C	2	0	May be inoperative provided associated pack is considered inoperative.	
51-08	Pack Control Communication Systems	C	2	0		
51-09	Pack Ram Air Systems	C	2	0	(M)(O) May be inoperative provided: <ul style="list-style-type: none"> a) Associated ram air inlet panels and exhaust louvers are deactivated and secured in flight open position, b) Operations are not conducted on runways covered with slush or on gravel runways, c) Associated pack is not operated during takeoff or landing on wet runways or runways with standing water, and d) Appropriate performance adjustments are applied. 	
61-01	Pack/Zone Temperature Control Systems					
61-01A		C	3	0	May be inoperative provided TRIM AIR switch remains OFF.	
61-01B		C	3	0	(M) May be inoperative provided associated trim air modulating valve is deactivated CLOSED.	
61-02	ZONE TEMP Lights	C	3	0	May be inoperative provided associated SUPPLY DUCT temperature indication operates normally.	

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--	--

21. Air Conditioning

Sequence No.	Item	1	2	3	4	Change Bar
61-03	Temperature Indications					
61-03-01	SUPPLY DUCT	C	3	0	May be inoperative provided associated ZONE TEMP light operates normally.	
61-03-02	PASS CABIN	C	2	0		
61-03-03	PACK	C	2	0		
61-04	Trim Air Check Valves	C	2	1	(M) May be inoperative provided associated valve is secured closed.	
62-01	Trim Air Pressure Regulating and Shutoff Valve	C	1	0	(M) May be inoperative deactivated closed.	
73-01 ***	Ozone Converters	C	2	-	As required by 14 CFR.	

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22. Autoflight

Sequence No.	Item	1	2	3	4	Change Bar
10-01	Autopilot Systems	C	2	1	May be inoperative provided approach minimums do not require its use.	
11-03	Mode Control Panel Windows					
11-03-01	IAS/MACH	C	1	0		
11-03-02	HEADING	C	1	0		
11-03-03	VERT SPEED	C	1	0		
11-03-04	ALTITUDE	C	1	0		
11-03-05	COURSE	C	2	0		
11-03-06	Window Lighting	B	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) Selected airspeed indications operate normally, b) Selected heading indications operate normally, c) Selected vertical speed indications operate normally, d) Selected altitude indications operate normally, and e) Selected course indications operate normally. 	
11-04	Mode Control Panel Selectors					
11-04-01	Vertical Speed Thumbwheel (DN, UP)	C	1	0	May be inoperative provided procedures do not require its use.	
11-04-02	Bank Angle Selector (10, 15, 20, 25, 30)	C	1	0		

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22. Autoflight

Sequence No.	Item	1	2	3	4	Change Bar
11-05	Mode Control Panel Switches					
11-05-01	A/P ENGAGE Control Wheel Steering (CWS) Switches (A or B)	C	2	0		
11-05-02	A/P ENGAGE Command (CMD) Switches (A or B)	C	2	1	May be inoperative provided approach minimums do not require its use.	
11-05-03	Autothrottle (A/T) ARM Switch	C	1	0	May be inoperative provided approach minimums do not require autothrottle use.	
11-05-04	SPEED Switch	C	1	0	May be inoperative provided approach minimums do not require autothrottle use.	
11-05-05	Flight Director (F/D) Switches	C	2	0	May be inoperative provided approach minimums do not require flight director use.	
11-05-06	IAS/MACH Change Over (C/O) Switch	C	1	0		
11-05-07	Approach (APP) Switch	C	1	0	May be inoperative provided approach minimums do not require autopilot or flight director use.	
11-05-08	N ₁ , LNAV, VNAV, LVL CHG, V/S, HDG SEL, ALT HLD, and VOR/LOC Switches	C	8	0	May be inoperative provided enroute operations do not require their use	
11-05-09 ***	SPD INTV and ALT INTV Switches	C	2	0		
11-05-10	Autopilot DISENGAGE Bar	C	1	0	May be inoperative provided control wheel autopilot disconnect switches operate normally.	

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22. Autoflight

Sequence No.	Item	1	2	3	4	Change Bar
11-06	Mode Control Panel Switch Lights					
11-06-01	A/P ENGAGE Control Wheel Steering (CWS) Switch Lights	C	2	0		
11-06-02	A/P ENGAGE Command (CMD) Switch Lights	C	2	1	May be inoperative provided approach minimums do not require use of autopilot.	
11-06-03	A/T ARM Switch Light	C	1	0		
11-07 ***	Automatic Landing System (Autoland)	C	1	0	May be inoperative provided approach minimums do not require its use.	
11-07-01 ***	LAND 3 Autoland	C	1	0	May be inoperative provided approach minimums do not require its use.	
11-08	Autoflight Status Annunciator					
11-08-01	Autopilot (A/P) Disengage Light	C	2	1		
11-08-02	Autothrottle (A/T) Disengage Light					
11-08-02A		C	2	1	May be inoperative provided approach minimums do not require use of autothrottle.	
11-08-02B		C	2	0	May be inoperative provided autothrottle is not used.	

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22. Autoflight

Sequence No.	Item	1	2	3	4	Change Bar
11-09	Takeoff/Go-Around (TO/GA) Switches					
11-09A		C	2	1	May be inoperative provided approach minimums do not require its use.	
11-09B		C	2	0	May be inoperative provided: <ol style="list-style-type: none"> a) Operate both thrust levers manually for takeoff and go-around, and b) Do not use Autopilot and Flight Director below Minimum Descent Altitude (MDA) or 500 ft., whichever is higher. <p>NOTE: Flight director go-around and windshear guidance are not available with both TO/GA switches inoperative.</p>	
11-10	Control Wheel Autopilot Disengage Switches	C	2	1	May be inoperative provided: <ol style="list-style-type: none"> a) Mode Control Panel autopilot DISENGAGE bar operates normally, b) Autopilot is not used below 1,500 ft. AGL, and c) Approach minimums do not require use of autopilot. 	

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22. Autoflight

Sequence No.	Item	1	2	3	4	Change Bar
11-11	Altitude Alerting System	A	1	0	(O) May be inoperative provided: a) Autopilot with altitude hold and altitude capture operates normally, b) Enroute operations (i.e., RVSM) do not require its use, c) Airplane does not depart from a designated airport (as listed in the operator's MEL) where repair or replacement can be made, and d) Repairs are made within 3 flight-days.	
11-11-01	Aural Alert	C	-	0	May be inoperative provided: a) Visual alert operates normally, and b) Autopilot with altitude hold and altitude capture operates normally.	
11-11-02	Visual Alert	C	-	0	May be inoperative provided: a) Aural alert operates normally, and b) Autopilot with altitude hold and altitude capture operates normally.	
11-12	Flight Director Systems	C	2	0	May be inoperative provided approach minimums do not require its use.	

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22. Autoflight

Sequence No.	Item	1	2	3	4	Change Bar
21-01	Mach Trim Systems					
21-01A		C	2	1	(M) May be inoperative provided: a) Associated Mach trim system is deactivated, and b) Remaining Mach trim system is verified to operate normally.	
21-01B		C	2	0	(M)(O) May be inoperative provided: a) Mach trim actuator is verified to be in null/uncommanded elevator position, and b) Appropriate performance adjustments are applied.	
23-01	Yaw Damper Function	C	1	0	(O) May be inoperative provided YAW DAMPER switch remains OFF.	
23-01-01	YAW DAMPER Light	C	1	0		
31-01	Autothrottle System	C	1	0	May be inoperative provided approach minimums do not require its use.	
31-02	Thrust Mode Display	C	1	0	May be inoperative provided thrust mode limits are observed.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
11-01 ***	High Frequency (HF) Communication System					
11-01A		D	-	0	Any in excess of those required by 14 CFR may be inoperative.	
11-01B		C	2	1	(O) May be inoperative while conducting operations that require two LRCS provided: <ul style="list-style-type: none"> a) Aircraft SATVOICE system operates normally, b) SATVOICE services are available as an LRCS over the intended route of flight, c) ICAO flight plan is updated (as required) to notify ATC of the communications equipment status of the aircraft, and d) Alternate procedures are established and used. 	
11-01-01	HF Data Link					
11-01-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
11-01-01B		D	1	0	May be inoperative provided procedures do not require its use.	
12-01	Very High Frequency (VHF) Communication System	D	-	-	Any in excess of those required by 14 CFR may be inoperative provided VHF-1 radio operates normally.	
12-01-01	VHF Data Link					
12-01-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
12-01-01B		D	1	0	May be inoperative provided procedures do not require its use.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
12-02	Radio Tuning Panel	C	-	2	May be inoperative provided: a) Left radio tuning panel operates normally, and b) Inoperative radio tuning panel remains OFF.	
12-02-01	Switch Lights, Key Lights	C	45	0		
15-01 ***	Satellite Communication System (SATCOM)					
15-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
15-01B		D	1	0	May be inoperative provided procedures do not require its use.	
15-01-01	SATCOM Data Link					
15-01-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
15-01-01B		D	1	0	May be inoperative provided procedures do not require its use.	

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4. REMARKS OR EXCEPTIONS

23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
24-01 ***	Fixed Emergency Locator Transmitter (ELT)					
24-01A		A	1	0	(M) May be inoperative provided: a) System is deactivated, and b) Repairs are made within 90 days.	
24-01B		A	1	0	(M) May be missing provided: a) Placard stating "ELT not installed" is placed in view of the pilot, and b) Repairs are made within 90 days.	
24-01C		D	1	0	(M) Any in excess of those required by 14 CFR may be inoperative provided system is deactivated.	
24-01D		D	1	0	Any in excess of those required by 14 CFR may be missing.	
24-01-01	Remote ELT Switch	D	1	0	(M) May be inoperative provided: a) Remote ELT Switch is deactivated, and b) ELT Switch is placed in the ARMED mode.	
24-01-02	ELT Indicator Light	D	1	0		
25-01 ***	Low Frequency Underwater Locating Device (ULD) (Upon Incorporation of Boeing Service Bulletin 737-23-1621 or Production Equivalent)	D	1	0	Any in excess of those required by 14 CFR may be inoperative or missing.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
27-01 ***	Aircraft Communications Addressing and Reporting System (ACARS)					
27-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Any portion of system that operates normally may be used.	
27-01B		D	1	0	May be inoperative provided procedures do not require its use. NOTE: Any portion of system that operates normally may be used.	
27-01-01	FMC Interface Function					
27-01-01A		C	-	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Any portion of system that operates normally may be used.	
27-01-01B		D	1	0	May be inoperative provided procedures do not require its use. NOTE: Any portion of system that operates normally may be used.	
27-01-02	ACARS Printer	D	-	0		

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23. Communications

Sequence No.	Item	1	2	3	4 Change Bar
28-01	Selective Call System (SELCAL)				
28-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.
28-01B		D	1	0	May be inoperative provided procedures do not require its use.
28-01-01	Channels (Including Lights)				
28-01-01A		C	5	0	(O) May be inoperative provided alternate procedures are established and used.
28-01-01B		D	5	0	May be inoperative provided procedures do not require its use.

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Passenger Address (PA) System					
31-01A		B	1	0	(O) May be inoperative provided: a) Flight attendant alerting system (audio or visual) operates normally, and b) Alternate, normal, and emergency procedures and/or operating restrictions are established and used. NOTE: Any station function(s) that operates normally may be used.	
31-01B		C	1	0	(O) May be inoperative provided: a) PA is not required by 14 CFR, and b) Alternate, normal, and emergency procedures and/or operating restrictions are established and used. NOTE: Any station function(s) that operates normally may be used.	
31-01-01	Lavatory Speakers	C	-	0	(O) May be inoperative provided alternate procedures are established and used.	
31-01-02	Cabin Speakers	C	-	-	May be inoperative provided no adjacent cabin speaker pairs (forward to aft) are inoperative.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
31-02 ***	Prerecorded Passenger Announcement System					
31-02A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
31-02B		D	1	0	May be inoperative provided procedures do not require its use.	
41-01	Service Interphone System					
41-01-01	Flight Deck to Ground/Ground to Flight Deck Function (Includes Interphone Jack Located on External Power Panel)					
41-01-01A		C	1	0	(O) Service interphone flight deck to ground/ground to flight deck function may be inoperative provided: a) Flight interphone jack located on external power panel and/or in nose wheel well interphone box operates normally, and b) Alternate procedures are established and used.	
41-01-01B		B	1	0	(O) May be inoperative provided alternate procedures are established and used.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
42-01	Service (Cabin) Interphone System					
42-01-01	Flight Deck to Cabin, Cabin to Flight Deck Functions					
42-01-01A		B	-	-	(O) May be inoperative provided: a) Flight deck to cabin and cabin to flight deck interphone functions operate normally on at least 50% of cabin handsets, and b) Alternate communication procedures between affected flight attendant station(s) are established and used. NOTE: Any station function(s) that operates normally may be used.	
42-01-01B		C	-	0	(O) May be inoperative provided: a) Crewmember interphone system is not required by 14 CFR, and b) Alternate, normal, and emergency procedures and/or operating restrictions are established and used. NOTE: Any station function(s) that operates normally may be used.	
(Continued)						

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
42-01	Service (Cabin) Interphone System (Cont'd)					
42-01-02	Cabin to Cabin Functions					
42-01-02A		B	2	0	(O) May be inoperative provided alternate communication procedures between affected flight attendant station(s) are established and used. NOTE: Any station function(s) that operates normally may be used.	
42-01-02B		B	3	2	(O) May be inoperative provided: a) Cabin to cabin interphone functions operate normally on at least 50% of cabin handsets, and b) Alternate communication procedures between affected flight attendant station(s) are established and used. NOTE: Any station function(s) that operates normally may be used.	

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Sequence No.	Item	1	2	3	4	Change Bar
42-02	Interphone Handset System					
42-02-01 ***	Flight Deck					
42-02-01A		C	1	0	(O) May be inoperative provided: a) Flight deck to cabin communication operates normally, and b) Alternate procedures are established and used.	
42-02-01B		D	1	0	May be inoperative provided procedures do not require its use.	
42-02-02	Cabin	B	-	-	(O) May be inoperative provided: a) 50% of cabin handsets operate normally, and b) Alternate communication procedures between affected flight attendant station(s) are established and used. NOTE 1: An operative handset at an inoperative flight attendant seat shall not be counted to satisfy 50% requirement. NOTE 2: Any handset functions that operate normally may be used.	

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Sequence No.	Item	1	2	3	4	Change Bar
42-03	Call System (Audio/Visual Alerting)					
42-03-01	Flight Deck Call Visual Alerting System	B	1	0	May be inoperative provided: a) Flight deck audio alerting system operates normally, and b) Flight deck audio alerting system differentiates between normal and emergency calls.	
42-03-02	Flight Deck Call Audio Alerting System	B	1	0	May be inoperative provided: a) Flight deck visual alerting system operates normally, and b) Flight deck visual alerting system differentiates between normal and emergency calls.	
42-03-03	Flight Attendant Visual Alerting System	B	1	0	(O) May be inoperative provided: a) PA system operates normally, b) If affected visual alerting system is used for lavatory smoke detector alerting, an alternate lavatory smoke detector alert (visual or audio) is installed and operates normally, and c) Alternate procedures for contacting flight attendants are established and used. NOTE 1: Passenger to Attendant Call System is considered Nonessential Equipment and Furnishing (NEF) item. NOTE 2: Any visual alerting system function(s) that operates normally may be used.	
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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
42-03	Call System (Audio/Visual Alerting) (Cont'd)					
42-03-04	Flight Attendant Audio Alerting System	B	1	0	(O) May be inoperative provided: a) PA system operates normally, b) If affected audio alerting system is used for lavatory smoke detector alerting, an alternate lavatory smoke detector alert (visual or audio) is installed and operates normally, and c) Alternate procedures for contacting flight attendants are established and used. NOTE 1: Passenger to Attendant Call System is considered Nonessential Equipment and Furnishing (NEF) item. NOTE 2: Any audio alerting system function(s) that operates normally may be used.	
42-04	Attendant Control Panels	C	2	1	NOTE: Any portion of system that operates normally may be used.	
51-01	Flight Deck Speakers	C	2	1	May be inoperative provided: a) Procedures do not require their use, and b) Headset or headphones associated with inoperative speaker operate normally and are used.	

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Sequence No.	Item	1	2	3	4	Change Bar
51-02	Audio Control Panels (ACP)					
51-02-01	First Officer	C	1	0	May be inoperative provided observer audio control panel operates normally.	
51-02-02	Observer	A	1	0	May be inoperative provided: a) First officer audio control panel operates normally, and b) Repairs are made within 2 flight-days.	
51-02-03	Switch Lights	C	-	0		
51-03	Flight Deck Headsets/Headphones	D	-	-	Any in excess of those required by 14 CFR may be inoperative.	
51-03-01	Headset Boom Microphones					
51-03-01A		A	-	0	May be inoperative provided: a) Associated hand microphone is installed and operates normally, b) Flight Data Recorder operates normally, and c) Repairs are made within 3 flight-days.	
51-03-01B		D	-	-	Any in excess of those required by 14 CFR may be inoperative.	
51-03-02	Headset Earphones/Headphones	C	-	1	May be inoperative provided associated flight compartment speaker operates normally.	
51-03-03	Active Noise Canceling/Reduction Function	D	-	0	May be inoperative provided normal audio function of headset is operative.	

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Sequence No.	Item	1	2	3	4	Change Bar
51-04	Push-to-Talk (PTT) Switches					
51-04-01	Control Wheel PTT Switches	C	2	1	(M) May be inoperative provided: a) Inoperative switch is either verified failed open or is deactivated, and b) Associated audio control panel PTT switch operates normally.	
51-04-02	Audio Control Panel (ACP) PTT Switches	C	2	1	(M) May be inoperative provided: a) Inoperative switch is verified failed open, and b) Associated control wheel PTT switch operates normally.	
51-04-03 ***	Glareshield PTT Switches					
51-04-03A		C	2	0	(M) May be inoperative provided inoperative switch is verified failed open or is deactivated.	
51-04-03B		D	2	0	(M) May be inoperative provided: a) Inoperative switch is verified failed open or is deactivated, and b) Procedures do not require its use.	
51-05 ***	Flight Deck Hand Microphones					
51-05A		C	-	0	May be inoperative or missing provided associated boom microphone operates normally.	
51-05B		D	-	0	Any in excess of those required by 14 CFR may be inoperative.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
51-06	Flight Interphone System					
51-06-01	Flight Deck to Ground/Ground to Flight Deck Function (Includes Interphone Jacks Located on External Power Panel and/or in Nose Wheel Well Interphone Box)					
51-06-01A		C	1	0	(O) Flight interphone flight deck to ground/ground to flight deck function may be inoperative provided: a) Service interphone jack located on external power panel operates normally, and b) Alternate procedures are established and used.	
51-06-01B		B	1	0	(O) May be inoperative provided alternate procedures are established and used.	
51-07 ***	Passenger Cabin Medical Communications System					
51-07A		C	1	0	(O) May be inoperative and components may be missing provided alternate procedures are established and used. NOTE: Any portion of system that operates normally may be used.	
51-07B		D	1	0	May be inoperative and components may be missing provided procedures do not require its use. NOTE: Any portion of system that operates normally may be used.	

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23. Communications

Sequence No.	Item	1	2	3	4	Change Bar
71-01	Cockpit Voice Recorder System (CVR)	A	1	0	(M) May be inoperative provided: <ul style="list-style-type: none"> a) Flight Data Recorder (FDR) operates normally, b) Recorder Independent Power Supply (RIPS) is deactivated, and c) Repairs are made within 3 flight-days. 	
71-01-01	Recorder Independent Power Supply (RIPS)	C	1	0	(M) May be inoperative provided RIPS battery is removed.	
75-01 ***	Flight Deck Door Visual Surveillance System					
75-01A		A	1	0	(O) May be inoperative and components may be missing provided: <ul style="list-style-type: none"> a) Alternate procedures are established and used, and b) Repairs are made within 3 flight-days. <p>NOTE: Any portion of system that operates normally may be used.</p>	
75-01B		C	1	0	(O) May be inoperative and components may be missing provided: <ul style="list-style-type: none"> a) The flight deck door viewing port is installed and operates normally, and b) Alternate procedures are established and used. <p>NOTE: Any portion of system that operates normally may be used.</p>	
75-01C		D	1	0	May be inoperative and components may be missing provided procedures do not require its use.	

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24. Electrical Power

Sequence No.	Item	1	2	3	4	Change Bar
00-01	Frequency Indications (CPS FREQ)	C	7	1	(O) May be inoperative provided indication is verified to operate normally for STBY PWR position.	
00-02	AC Voltage Indications (AC VOLTS)	C	7	1	(O) May be inoperative provided indication is verified to operate normally for STBY PWR position.	
00-03	AC Ammeter (AC AMPS)	C	7	0	May be inoperative provided associated GEN OFF BUS lights operate normally.	
00-04	DC Ammeter Indications (DC AMPS)					
00-04-01	Without AUX BAT	C	7	1	(O) May be inoperative provided: a) Battery position operates normally, and b) Procedures do not require its use.	
00-04-02	With AUX BAT	C	8	2	(O) May be inoperative provided: a) Battery positions operate normally, and b) Procedures do not require its use.	
00-05	DC Voltmeter Indications (DC Volts)					
00-05-01	Without AUX BAT	C	7	2	(O) May be inoperative provided: a) Battery position operates normally, and b) STBY PWR position operates normally.	
00-05-02	With AUX BAT	C	8	3	(O) May be inoperative provided: a) Battery positions operate normally, and b) STBY PWR position operates normally.	

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24. Electrical Power

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Engine Driven Generator Systems	B	2	1	(M)(O) Except for ER operations, may be inoperative provided: <ul style="list-style-type: none"> a) Associated engine driven generator is disconnected, and b) APU generator operates normally and is used to supply associated buses throughout flight. 	
11-02	Engine Driven Generator DRIVE Lights	C	2	0		
11-03	Engine Driven Generator Low Oil Pressure Switch	C	2	0		
21-01	APU Generator System	C	1	0	Except for ER operations, may be inoperative provided both engine driven generator systems operate normally.	
28-01	GEN OFF BUS Lights	C	2	1	May be inoperative provided associated generator AC AMPS indication operates normally.	
28-02	APU GEN OFF BUS Light	C	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) APU generator CPS FREQ indication operates normally, and b) APU generator AC AMPS indication operates normally. 	
30-01	ELEC Light	C	1	0	(O) May be inoperative off provided: <ul style="list-style-type: none"> a) Standby Power Test is accomplished once each flight-day, and b) Battery charger is verified to operate normally. 	
31-01	BAT DISCHARGE Light	C	1	0		

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24. Electrical Power

Sequence No.	Item	1	2	3	4 Change Bar
31-02	TR UNIT Light	C	1	0	(O) May be inoperative provided the transformer rectifiers are verified to operate normally.
41-01	External Power System	C	1	0	NOTE: Any portion of system that operates normally may be used.

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
00-01 ***	Nonessential Equipment and Furnishings (NEF)		-	0	May be inoperative, damaged, or missing provided that item(s) is deferred in accordance with operator's NEF deferral program. NEF program, procedures, and processes must be outlined in operator's appropriate document. (M) and (O) procedures, if required, must be available to flightcrew and included in operator's appropriate document.	
					NOTE: Exterior lavatory door ashtrays are not considered NEF items.	
11-01	Flightcrew Seats					
11-01-01	Recline Mechanism	A	2	0	(M) May be inoperative provided: a) Seat is secured in a position acceptable to affected crewmember, and b) Repairs are made within 2 flight-days.	
11-01-02	Vertical Adjustment	A	2	0	(M) May be inoperative provided: a) Seat is secured in a position acceptable to affected crewmember, and b) Repairs are made within 2 flight-days.	
11-01-03	Armrests	B	4	0	(M) May be inoperative provided: a) Affected armrest is stowed in retracted position or removed, and b) Seat is acceptable to affected crewmember.	
11-01-04	Lumbar/Thigh Supports	C	4	0	May be inoperative provided seat is acceptable to affected crewmember.	
11-01-05	Headrests	C	2	0	May be inoperative or missing provided seat is acceptable to affected crewmember.	

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
11-02	Observer Seats					
11-02-01	First Observer Seat (Including Associated Equipment)					
11-02-01A		A	1	0	May be inoperative provided: a) A passenger seat in passenger cabin is made available to an FAA inspector for performance of official duties, and b) Repairs are made within 2 flight-days.	
11-02-01B		A	1	0	May be inoperative provided: a) Second observer seat is available to an FAA inspector for performance of official duties, and b) Repairs are made within 2 flight-days.	
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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
11-02	Observer Seats (Cont'd)					
11-02-01	First Observer Seat (Including Associated Equipment) (Cont'd)					
11-02-01C		A	1	0	May be inoperative provided: a) Required minimum safety equipment (oxygen and safety belt) is available, b) Seat is acceptable to an FAA inspector for performance of official duties, and c) Repairs are made within 2 flight-days. NOTE 1: These provisos are intended to provide for occupancy of above seats by an FAA inspector when minimum safety equipment (oxygen and safety belt) is functional and inspector determines conditions to be acceptable. NOTE 2: Pilot in command will determine if minimum safety equipment is functional for other persons authorized to occupy any observer seat(s).	
11-02-02 ***	Second Observer Seat (Including Associated Equipment)	D	1	0	NOTE: Pilot in command will determine if minimum safety equipment is functional for other persons authorized to occupy any observer seat(s).	

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
20-01	FASTEN SEAT BELT WHILE SEATED Signs or Placards	C	-	-	One or more signs or placards may be illegible or missing provided a legible sign or placard is visible from each occupied passenger seat.	
22-01	Passenger Seats (Includes all Configurations and Locations)	D	-	-	<p>May be inoperative provided:</p> <ol style="list-style-type: none"> a) Seat does not restrict access to any emergency exit, egress route, or main aisle, and b) Affected seat(s) is blocked and placarded "DO NOT OCCUPY". <p>NOTE 1: A seat with an inoperative or missing seat belt or shoulder harness is considered inoperative.</p> <p>NOTE 2: Affected seat(s) may include seat(s) behind and/or adjacent outboard seats.</p> <p>NOTE 3: Inoperative seats do not affect required number of flight attendants.</p>	
22-01-01	Positioning Controls for Taxi, Takeoff, and Landing (TTL) (Mechanical and/or Electrical)					
22-01-01A		D	-	-	(M) May be inoperative and seat occupied provided seat is secured in taxi, takeoff, and landing (TTL) position.	
22-01-01B		D	-	-	May be inoperative and seat occupied provided seat is immovable in taxi, takeoff, and landing (TTL) position.	
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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
22-01	Passenger Seats (Includes all Configurations and Locations) (Cont'd)					
22-01-02	Underseat Baggage Restraining System	C	-	-	(O) May be inoperative provided: a) Baggage is not stowed under seat with inoperative restraining system, b) Associated seat is placarded "DO NOT STOW BAGGAGE UNDER THIS SEAT", and c) Procedures are established to alert cabin crew of inoperative restraining system.	
22-01-03	Armrests					
22-01-03-01	Armrests with Seat Positioning Controls for Taxi, Takeoff, and Landing (TTL) and/or Other Controls	D	-	-	(M) May be inoperative or missing and seat occupied provided: a) Armrest does not restrict access to any emergency exit, egress route, or main aisle, and b) If Armrest with seat control is missing or removed, seat is secured in taxi, takeoff, and landing (TTL) position.	
22-01-03-02	Armrests without Seat Positioning Controls for Taxi, Takeoff, and Landing (TTL) and/or Other Controls	D	-	-	May be inoperative or missing and seat occupied provided it does not restrict access to any emergency exit, egress route, or main aisle.	
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--	--

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
22-01	Passenger Seats (Includes all Configurations and Locations) (Cont'd)					
22-01-04 ***	Seat Belt Air Bag Restraint Systems					
22-01-04-01	Seat Belt Air Bags Required by 14 CFR	D	-	-	May be inoperative provided affected seat is blocked and placarded "DO NOT OCCUPY".	
22-01-04-02	Seat Belt Air Bags Not Required by 14 CFR	D	-	-	(M) May be inoperative or disconnected provided seat belt operates normally.	
22-01-05 ***	Delethalization Pads	D	-	-	May be inoperative or missing provided affected seat(s) is blocked and placarded "DO NOT OCCUPY".	

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TABLE KEY

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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
25-01	Flight Attendant Seat Assembly (Single or Dual Position)					
25-01-01	Required Flight Attendant Seats					
25-01-01A		B	-	-	(M)(O) One seat position or assembly (dual position) may be inoperative provided: <ul style="list-style-type: none"> a) Folding type seat stows automatically or is secured in the retracted position, b) Passenger seat assigned to flight attendant is placarded "FOR FLIGHT ATTENDANT USE ONLY", c) Affected seat position or seat assembly is not occupied, d) Flight attendant(s) displaced by inoperative seat(s) occupies either an adjacent flight attendant seat or passenger seat that is most accessible to inoperative seat(s) so as to most effectively perform assigned duties, and e) Alternate procedures are established and used as published in crewmember manuals. <p>NOTE 1: An automatic folding seat that will not stow automatically is considered inoperative.</p>	
(Continued)						

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TABLE KEY

1. REPAIR CATEGORY
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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
25-01	Flight Attendant Seat Assembly (Single or Dual Position) (Cont'd)					
25-01-01	Required Flight Attendant Seats (Cont'd)					
25-01-01A	(Cont'd)				<p>NOTE 2: A seat position with an inoperative or missing restraint system is considered inoperative.</p> <p>NOTE 3: Individual operators, when operating with inoperative seats, will consider the locations and combinations of seats to ensure that proximity to exits and distribution requirements of applicable 14 CFRs are met.</p> <p>NOTE 4: If one side of a dual seat assembly is inoperative and a flight attendant is displaced to the adjacent seat, the adjacent seat must operate normally.</p> <p>(Continued)</p>	

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TABLE KEY

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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
25-01	Flight Attendant Seat Assembly (Single or Dual Position) (Cont'd)					
25-01-01	Required Flight Attendant Seats (Cont'd)					
25-01-01B		C	-	0	(M)(O) May be inoperative provided: a) No passengers are carried, b) A maximum of 19 persons authorized by 14 CFR for non-passenger-carrying operations are carried, c) Folding type seat stows automatically or is secured in retracted position, d) Affected seat position or seat assembly is not occupied, and e) Alternate procedures are established and used. NOTE 1: An automatic folding seat that will not stow automatically is considered inoperative. NOTE 2: A seat position with an inoperative or missing restraint system is considered inoperative.	
25-01-02	Excess Flight Attendant Seats	C	-	-	(M) May be inoperative provided: a) Affected seat position or seat assembly is not occupied, and b) Folding type seat stows automatically or is secured in retracted position. NOTE 1: An automatic folding seat that will not stow automatically is considered inoperative. NOTE 2: A seat position with an inoperative or missing restraint system is considered inoperative.	

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TABLE KEY

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
28-01	Storage Bins/Cabin, Galley, and Lavatory Storage Compartments/Closets					
28-01A		C	-	-	(M) May be inoperative provided: a) Procedures are established to secure affected bin, compartment, or closet in closed position, b) Affected bin, compartment, or closet is prominently placarded "DO NOT USE", c) Any emergency equipment located in affected bin, compartment, or closet is considered inoperative, and d) Affected bin, compartment, or closet is not used for storage of any items except for those permanently affixed. NOTE 1: For overhead bins, if no partitions are installed, entire overhead bin is considered inoperative. NOTE 2: Proviso is not intended to preclude crewmember inspections.	
(Continued)						

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TABLE KEY

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4. REMARKS OR EXCEPTIONS

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
28-01	Storage Bins/Cabin, Galley, and Lavatory Storage Compartments/Closets (Cont'd)					
28-01B		C	-	-	(M)(O) May be inoperative provided: <ul style="list-style-type: none"> a) For non-retractable doors, affected door is removed, b) For retractable doors, affected door is removed or secured in retracted (fully open) position, c) Affected bin, compartment, or closet is prominently placarded "DO NOT USE", d) Affected bin, compartment, or closet is not used for storage of any items except for those permanently affixed, e) Procedures are established and used to alert crewmembers and passengers of inoperative bins, compartments, or closets, and f) Passengers are briefed that affected bin, compartment, or closet is not used. <p>NOTE 1: For overhead bins, if no partitions are installed, entire overhead bin is considered inoperative.</p> <p>NOTE 2: Any emergency equipment located in affected bin, compartment, or closet (permanently affixed) is available for use.</p>	
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TABLE KEY

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4. REMARKS OR EXCEPTIONS

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
28-01	Storage Bins/Cabin, Galley, and Lavatory Storage Compartments/Closets (Cont'd)					
28-01C		C	-	-	May be inoperative in closed position provided: <ol style="list-style-type: none"> a) Affected bin, compartment, or closet is prominently placarded "DO NOT USE", b) Any emergency equipment located in affected bin, compartment, or closet is considered inoperative, and, c) Location placarding for any emergency equipment stored in affected bin, compartment, or closet is removed or obscured. <p>NOTE: Use of this proviso may be dependent upon an operator's aircraft security program, as appropriate.</p>	
28-01-01	Multi-Latch/ Quarter-Turn Lug Installations	C	-	-	One latch/lug per compartment may be inoperative provided: <ol style="list-style-type: none"> a) Remaining latch(es)/lug(s) on affected compartment operates normally, and b) If affected compartment is used for a galley cart, cart remains empty. 	
28-01-02	Storage Compartment Key Locks	D	-	0	(M) May be inoperative in unlocked position provided doors can be secured by other means.	

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TABLE KEY

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Sequence No.	Item	1	2	3	4	Change Bar
31-01	Galley/Cabin Waste Receptacle Access Doors/Covers	C	-	-	(M)(O) May be inoperative provided: a) Container is empty and access is secured to prevent waste introduction into compartment, and b) Procedures are established to ensure that sufficient galley/cabin waste receptacles are available to accommodate all waste that may be generated on a flight.	
40-01	Exterior Lavatory Door Ashtrays					
40-01-01	Airplanes with Multiple Exterior Lavatory Door Ashtrays Installed					
40-01-01A		A	-	-	Up to and including 50% may be missing or inoperative for 10 days. NOTE: Crew lavatories are included in total aircraft exterior lavatory door ashtray count.	
40-01-01B		A	-	-	More than 50% may be missing or inoperative for 3 days. NOTE: Crew lavatories are included in total aircraft exterior lavatory door ashtray count.	
40-01-02	Airplanes with Only One Exterior Lavatory Door Ashtray Installed	A	1	0	May be missing or inoperative for 10 days.	

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
40-02	Lavatory Waste Container Flapper/Access Doors	C	-	-	(M) May be inoperative provided: a) Associated waste container is empty and access is secured to prevent waste introduction into the waste container, b) Associated lavatory is used only by crewmembers, and c) Associated lavatory entrance door is locked closed and placarded "INOPERATIVE - DO NOT ENTER". NOTE: These provisions are not intended to prohibit lavatory use or inspections by crewmembers.	
62-01	Flotation Equipment (Crew and Passengers)	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing provided required distribution is maintained.	
63-01 ***	Emergency Evacuation Signal System					
63-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
63-01B		D	1	0	May be inoperative provided procedures do not require its use.	
63-02 ***	Emergency Locator Transmitter (ELT) (Survival)	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing.	

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
64-01	Megaphones					
64-01A		D	-	-	Any in excess of those required by 14 CFR may be inoperative or removed provided: a) Inoperative megaphone remains in a certified location until removed from the aircraft at the next suitable maintenance facility, b) Location placarding is removed or obscured, and c) Required distribution is maintained.	
64-01B		C	-	0	(O) May be inoperative or missing provided: a) No passengers are carried, b) A maximum of 19 persons authorized by 14 CFR for non-passenger-carrying operations are carried, and c) Alternate procedures are established and used.	
64-01-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper installation and operation is verified at each preflight.	

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4. REMARKS OR EXCEPTIONS

25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
64-02	Portable Flashlights/ Flashlight Holders					
64-02A ***		C	-	-	May be inoperative or removed provided: a) Crewmember assigned to the affected position has an equivalent operative flashlight readily available, b) Inoperative flashlight remains in a certified location or is removed from the aircraft, and c) Location placarding is removed or obscured.	
64-02B ***		D	-	-	Any in excess of those required by 14 CFR may be inoperative or removed provided: a) Inoperative flashlight remains in a certified location until removed from the aircraft at the next suitable maintenance facility, and b) Location placarding is removed or obscured.	
64-02-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper installation and operation is verified at each preflight.	

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TABLE KEY

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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
64-03	Emergency Medical Equipment					
64-03-01	First Aid Kit (FAK) and/or Associated Equipment					
64-03-01A		A	-	-	(O) If more than one is required by 14 CFR, only one of the required FAKs may be incomplete or removed provided: a) The FAK is labeled or placarded in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, b) Location placarding is removed or obscured, and c) Repairs or replacements are made within one flight. NOTE: Medical equipment installed in the aircraft as part of an Emergency Medical Service (EMS) operation is not considered part of the normal complement of equipment. No MMEL relief applies to that equipment and 14 CFR maintenance and inspection requirements do not apply.	
64-03-01B		D	-	-	Any in excess of those required by 14 CFR may be incomplete or removed.	
64-03-01-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper FAK servicing is verified at each preflight.	
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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
64-03	Emergency Medical Equipment (Cont'd)					
64-03-02	Emergency Medical Kit (EMK) and/or Associated Equipment					
64-03-02A		A	-	0	(O) May be incomplete or inoperative provided: a) EMK is labeled or placarded in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, b) Location placarding is removed or obscured, and c) Repairs or replacements are made within one flight. NOTE: Medical equipment installed in the aircraft as part of an Emergency Medical Service (EMS) operation is not considered part of the normal complement of equipment. No MMEL relief applies to that equipment and 14 CFR maintenance and inspection requirements do not apply.	
64-03-02B		D	-	-	Any in excess of those required by 14 CFR may be incomplete or removed.	
64-03-02-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper EMK servicing is verified at each preflight.	
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25. Equipment/Furnishings

Sequence No.	Item	1	2	3	4	Change Bar
64-03	Emergency Medical Equipment (Cont'd)					
64-03-03	Automatic External Defibrillators (AED) and/or Associated Equipment					
64-03-03A		A	-	0	(O) May be incomplete, inoperative, or removed provided: a) AED is labeled or placarded in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, b) Location placarding is removed or obscured, and c) Repairs or replacements are made within one flight.	
					NOTE: Medical equipment installed in the aircraft as part of an Emergency Medical Service (EMS) operation is not considered part of the normal complement of equipment. No MMEL relief applies to that equipment and 14 CFR maintenance and inspection requirements do not apply.	
64-03-03B		D	-	-	Any in excess of those required by 14 CFR may be incomplete, inoperative, or removed.	
64-03-03-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper servicing is verified at each preflight.	

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4. REMARKS OR EXCEPTIONS

26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
14-01	Lavatory Smoke Detection Systems (Cont'd)					
14-01-01	Lavatory Smoke Detector SELF TEST Switch	C	-	0	(M) May be inoperative provided associated lavatory smoke detector is verified to operate normally.	
14-01-02 ***	Flight Deck LAVATORY SMOKE Light					
14-01-02A		C	1	0	(O) May be inoperative provided: a) Lavatory smoke detection systems operate normally, and b) Alternate procedures are established and used.	
14-01-02B		D	1	0	May be inoperative provided procedures do not require its use.	
15-01	APU Fire Detection System	C	1	0	Except for ER operations, may be inoperative provided: a) APU is not used, b) Both engine driven generator systems operate normally, and c) At least one engine bleed air shutoff valve (PRSOV) operates normally. NOTE: Dispatch is not allowed if the APU is required by other procedures.	
15-01-01	APU DET INOP Light	C	1	0	(O) May be inoperative provided: a) Light is extinguished, and b) APU Fire Detection system is verified to operate normally before each APU start.	
15-01-02	External Warning Horn/Warning Light	C	1	0	May be inoperative provided flight deck APU overheat/fire protection panel is continuously monitored during ground APU operation.	

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4. REMARKS OR EXCEPTIONS

26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
16-01	Lower Cargo Compartment Fire Detection Systems	C	2	0	(O) May be inoperative provided procedures are established and used to ensure associated compartment or zone remains empty or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away Kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	
16-01-01	Fwd/Aft Detection Loops	C	4	2	(O) One loop (A or B) in each compartment may be inoperative provided remaining loop is verified to operate normally.	
16-01-02	DETECTOR FAULT Light	C	1	0	(O) May be inoperative provided cargo fire panel TEST switch is used to check for cargo fire detection system faults before each flight.	

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4. REMARKS OR EXCEPTIONS

26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
18-01	Wheel Well Fire Detection System					
18-01A		C	1	0	(M) May be inoperative provided: a) Wheel well fire detection system is deactivated, and b) Brake temperature monitoring system (BTMS) operates normally.	
18-01B		C	1	0	(M)(O) May be inoperative provided: a) Wheel well fire detection system is deactivated, b) Landing gear remains extended for 10 minutes after takeoff, and c) Appropriate performance adjustments are applied. NOTE: In case of engine failure after V ₁ , landing gear should be retracted until takeoff obstacles are cleared.	
18-01-01	Detection Loops	C	2	1	(M) May be inoperative provided wheel well detection system is put in a single loop configuration.	

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26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
18-02	Wing-Body Overheat Detection System					
18-02-01	Left Loop	C	1	0	(O) Except for ER operations, may be inoperative provided: <ol style="list-style-type: none"> a) Only right pack and engine bleed is used for pressurization, b) Left pack is considered inoperative, c) Use of APU is prohibited except for engine start, d) ISOLATION VALVE switch remains CLOSED and left engine BLEED air switch remains OFF for all operations except engine start, and e) Airplane is not operated in known or forecast icing conditions. 	
18-02-02	Right Loop	C	1	0	(O) Except for ER operations, may be inoperative provided: <ol style="list-style-type: none"> a) Only left pack and left engine or APU bleed air is used for pressurization, b) Right pack is considered inoperative, c) ISOLATION VALVE switch remains CLOSED and right engine BLEED air switch remains OFF for all operations except engine start, and d) Airplane is not operated in known or forecast icing conditions. 	
18-02-03	Wing-Body Overheat Test System	C	1	0	(M) May be inoperative provided operative detector loops are verified to operate normally once each flight-day.	

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26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
19-01	Equipment Cooling Smoke Detection System					
19-01-01	Smoke Detectors	C	2	1	(M) One smoke detector may be inoperative provided: <ol style="list-style-type: none"> a) Inoperative smoke detector is deactivated, and b) Remaining smoke detector is verified to operate normally. 	
19-01-02	EQUIP SMOKE Light	C	1	0	(M) May be inoperative provided E/E Cooling smoke detectors are verified to operate normally.	
20-01	Engine and APU Fire Extinguisher Discharge Lights					
20-01-01	Engine Fire Extinguisher Discharge Lights	C	2	0		
20-01-02	APU Fire Extinguisher Discharge Light	C	1	0	(M) May be inoperative provided APU fire extinguisher bottle is verified to have an adequate charge before each flight.	
20-02	Engine/APU Fire Extinguisher Test System	C	3	0	(M) May be inoperative provided: <ol style="list-style-type: none"> a) Failure is verified to be in squib test circuit, and b) For each inoperative squib test circuit, associated squib circuit is verified to operate normally once each flight-day. 	
20-02-01	APU Fire Extinguisher Squib Test Circuits	C	2	1	(O) May be inoperative provided remaining APU squib test circuit is verified to operate normally once each flight-day.	
(Continued)						

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26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
20-02	Engine/APU Fire Extinguisher Test System (Cont'd)					
20-02-02	APU Fire Extinguisher Test Light (Squib Light)	C	1	0	Except for ER operations, may be inoperative provided: a) APU is not used, b) Both engine driven generator systems operate normally, and c) At least one of bleed system PRSOVs operates normally.	
22-01	APU Fire Extinguisher System	C	1	0	Except for ER operations, may be inoperative provided: a) APU is not used, b) Both engine driven generator systems operate normally, and c) At least one of bleed system PRSOVs operates normally.	
22-02	APU Fire Shutoff System	C	1	0	Except for ER operations, may be inoperative provided: a) APU is not used, b) Both engine driven generator systems operate normally, and c) At least one of bleed system PRSOVs operates normally.	

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4. REMARKS OR EXCEPTIONS

26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
23-01	Lower Cargo Compartment Fire Suppression System	C	1	0	(O) May be inoperative provided procedures are established and used to ensure lower cargo compartments or zones remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away Kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	
23-01-01	DISCH Light	C	1	0	(M) May be inoperative provided operative extinguisher bottles are verified to have an adequate charge once each flight-day.	
23-01-02	Extinguisher Bottle Pressure Switches	C	2	0	(M) May be inoperative provided associated extinguisher bottle is verified to have an adequate charge once each flight-day.	
23-01-03	EXT Light (FWD and AFT) Systems	C	2	0	(M) May be inoperative provided: a) Failure is verified to be in squib light circuit, and b) Both associated squib circuits are verified to operate normally once each flight-day.	
24-01	Lavatory Fire Extinguisher Systems					
24-01A		C	-	0	For each lavatory, lavatory fire extinguisher system may be inoperative provided associated lavatory smoke detection system operates normally.	
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26. Fire Protection

Sequence No.	Item	1	2	3	4	Change Bar
24-01	Lavatory Fire Extinguisher Systems (Cont'd)					
24-01B		C	-	0	(M)(O) For each lavatory, lavatory fire extinguisher system may be inoperative provided: <ul style="list-style-type: none"> a) Lavatory waste receptacle is empty, b) Associated lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER", and c) Lavatory is used only by crewmembers. <p>NOTE: These provisos are not intended to prohibit lavatory use or inspections by crewmembers.</p>	
26-01	Portable Fire Extinguishers	D	-	-	Any in excess of those required by 14 CFR may be inoperative or removed provided: <ul style="list-style-type: none"> a) Inoperative fire extinguisher remains in a certified location until removed from the aircraft at the next suitable maintenance facility, b) Location placarding is removed or obscured, and c) Required distribution is maintained. <p>NOTE: Inoperative fire extinguishers, removed from a certified location or removed from the aircraft, are subject to 49 CFR dangerous goods regulations.</p>	
26-01-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper installation and servicing is verified at each preflight.	

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27. Flight Controls

Sequence No.	Item	1	2	3	4	Change Bar
08-01 ***	Control Surface Position Indication System	C	1	0		
21-01	Rudder Trim Indicator	C	1	0	(M)(O) May be inoperative provided: a) Rudder trim actuator is verified to operate normally, and b) Rudder trim is verified to be centered before each departure.	
21-02	STBY RUD ON Light	C	1	0	(M) May be inoperative provided: a) Rudder is verified to operate normally on hydraulic system A and B independently, b) Standby hydraulic pump is verified to operate normally, and c) Rudder force fight monitor is deactivated.	
24-01	Wheel to Rudder Interconnect System (WTRIS)	C	1	0		
31-01	FEEL DIFF PRESS Light System	B	1	0	(M) May be inoperative provided elevator feel system is verified to operate normally once each flight-day.	
51-01	Flap Load Relief Function	C	1	0	(O) May be inoperative provided appropriate performance adjustments are applied.	

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27. Flight Controls

Sequence No.	Item	1	2	3	4	Change Bar
61-01	Flight Spoiler Systems	C	8	6	(M)(O) Except for spoiler pair 5/8, one symmetrical pair may be inoperative provided: <ul style="list-style-type: none"> a) Inoperative spoiler pair is deactivated in the retracted position, b) All other spoilers are verified to operate normally, c) Antiskid system operates normally, d) Use of flaps 1 for takeoff is prohibited, e) Flight altitude remains at or below FL 375, f) Crosswinds for takeoff and landing do not exceed 25 knots, g) Crosswinds for a zero crab landing technique do not exceed 13 knots, and h) Appropriate performance adjustments are applied. 	
61-01-01	Spoiler Control Channels	C	3	2		
61-02	Maneuver Load Alleviation (MLA) Function	C	1	0	(O) May be inoperative provided appropriate performance adjustments are applied.	
61-03	Emergency Descent Spoilers (EDS) Function	C	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) Flight spoiler systems operate normally, and b) Flight altitude remains at or below FL 300. 	

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27. Flight Controls

Sequence No.	Item	1	2	3	4	Change Bar
62-01	Auto Speedbrake System	C	1	0	(M)(O) May be inoperative provided: a) Auto speedbrake system is deactivated, and b) Appropriate performance adjustments are applied.	
62-02	SPEEDBRAKES EXTENDED Light	C	1	0	(M) May be inoperative provided speedbrakes are verified to operate normally.	
83-01	Autoslat Systems	C	2	1	(O) May be inoperative provided: a) Remaining autoslat system is verified to operate normally, and b) AUTO SLAT FAIL light system operates normally.	
83-02	AUTO SLAT FAIL Light System	C	1	0	(M) May be inoperative provided autoslat systems are verified to operate normally once every 2 flight-days.	

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27. Flight Controls

Sequence No.	Item	1	2	3	4	Change Bar
88-01	Leading Edge Flap/Slat Position Light Systems					
88-01-01	Leading Edge Indications for Slats 1, 2, 3, 6, 7, and 8 (737-7/-8/-8200)	C	18	17	(M)(O) One leading edge slat indication light on overhead annunciator panel may be inoperative provided: a) All remaining indications on leading edge devices annunciator panel are verified to operate normally, b) Stall warning operation of both systems is verified to operate normally, c) Associated leading edge slat position is visually verified by flightcrew before each takeoff and landing, and d) Maximum speed is limited to 300 KIAS at/below FL 200 or 0.65 Mach above FL 200.	
88-01-02	Leading Edge Indications for Slats 1 and 8 (737-9)	C	6	5	(M)(O) One leading edge slat indication light on overhead annunciator panel may be inoperative provided: a) All remaining indications on leading edge devices annunciator panel are verified to operate normally, b) Stall warning operation of both systems is verified to operate normally, c) Associated leading edge slat position is visually verified by flightcrew before each takeoff and landing, and d) Maximum speed is limited to 300 KIAS at/below FL 200 or 0.65 Mach above FL 200.	

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
21-01	Pressure Fueling System	C	1	0	(M) May be inoperative provided alternate procedures are established and used. NOTE: MMEL item 28-21-01 relief may not be applied to defer maintenance of an inoperative system or indication for which an MMEL 28-21-01 sub-item exists.	
21-01-01	Refuel Panel Fuel Quantity Indications	C	3	0	(M) May be inoperative provided alternate procedures are used for refueling the associated fuel tank.	
21-01-02	Fueling Manifold Check Valves	C	3	0	(M) May be inoperative provided associated fueling shutoff valve is verified to operate normally.	
21-01-03	Fueling Shutoff Valves	C	3	0	(M) May be inoperative provided: a) Inoperative fueling shutoff valve(s) is verified to be sealed closed, b) Fueling receptacle does not leak, and c) Alternate refueling procedures are established and used.	
21-01-04	Refuel Panel Fueling Power Control Switch	C	1	0	May be inoperative off provided refuel panel indicator test switch operates normally in FUEL DOOR SWITCH BYPASS position.	
22-01	Main Tank Boost Pumps	C	4	3	(M)(O) Except for ER operations beyond 120 minutes, may be inoperative provided: a) Inoperative pump is deactivated, and b) Appropriate minimum fuel quantities are maintained in associated tank.	

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
22-02	Center Tank Boost Pumps					
22-02A		C	2	1	(M)(O) May be inoperative with center tank fueled provided: a) Inoperative pump is deactivated, b) Center tank quantity indication operates normally, c) LOW PRESSURE light for remaining center fuel tank pump operates normally, d) With center tank fueled, fuel quantity remaining in main tanks is adequate to reach a suitable airport if remaining center pump fails at any time, and e) Center tank fuel is accounted for in the airplane weight and balance in the event center tank fuel cannot be used.	
22-02B		C	2	0	(M)(O) May be inoperative provided: a) Inoperative pumps are deactivated, b) Center tank quantity indication operates normally, and c) Center tank fuel is considered unusable and is accounted for in the airplane weight and balance. NOTE: AFM fuel loading and usage limitations are for usable fuel.	

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
22-03	Center Tank Fuel Boost Pump Automatic Shutoff System					
22-03A		C	2	0	May be inoperative provided associated center tank fuel boost pump is considered inoperative.	
22-03B		C	2	0	May be inoperative provided center tank remains empty.	
22-03C		C	2	0	May be inoperative with center tank fueled provided: <ul style="list-style-type: none"> a) Both center tank pump LOW PRESSURE light systems operate normally, b) Center tank fuel quantity indication system operates normally, c) Center tank boost pumps are not ON unless personnel are available in flight deck to monitor LOW PRESSURE lights, d) For ground operations, center tank boost pump switches are not ON unless center tank fuel quantity exceeds 1,000 lbs (453 kg), except when defueling or transferring fuel, e) Center tank boost pumps are OFF for takeoff if center tank fuel is less than 5,000 lbs (2,300 kg) with airplane readied for initial taxi, f) Center tank fuel pumps may be repositioned ON when established in cruise flight if more than 1,000 lbs (453 kg) of fuel remain in center tank, 	
(Continued)						

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
22-03	Center Tank Fuel Boost Pump Automatic Shutoff System (Cont'd)					
22-03C	(Cont'd)				<ul style="list-style-type: none"> g) Both center tank boost pumps are selected OFF when center tank fuel quantity reaches 1,000 lbs (453 kg) of fuel during climb or cruise, h) Both center tank boost pumps are selected OFF when center tank fuel quantity reaches 3,000 lbs (1,400 kg) of fuel during descent or landing, i) Both center tank fuel boost pumps are selected OFF at first indication of fuel pump low pressure, and j) Defueling with passengers on board is prohibited. 	
22-04	Fuel Scavenge System					
22-04A		C	1	0	May be inoperative provided fuel scavenge shutoff valve is closed.	
22-04B		C	1	0	(O) Except for ER operations beyond 120 minutes, may be inoperative provided: <ul style="list-style-type: none"> a) Scavenge shutoff valve is open, b) Left main tank forward boost pump is not used, c) Left main tank aft boost pump operates normally, and d) Appropriate minimum fuel quantities are maintained in left main tank. 	
22-04C		C	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) Scavenge shutoff valve is open, and b) Center tank remains empty. 	

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
22-05	Crossfeed VALVE OPEN Light	C	1	0	(M) Except for ER operations, may be inoperative provided: <ul style="list-style-type: none"> a) Crossfeed valve is verified to operate normally, and b) Fuel quantity indications for both main tanks operate normally. 	
22-06	SPAR VALVE CLOSED Lights	C	2	0	(M) May be inoperative provided associated valve is verified to operate normally once each flight-day.	
22-07	Fuel Shutoff Valve Battery and Charger	D	1	0	(M) May be inoperative deactivated.	
25-01 ***	APU DC Fuel Boost Pump	D	1	0	(M) May be inoperative provided pump is deactivated.	
25-02	APU Fuel Shutoff Valve	C	1	0	(M) Except for ER operations, may be inoperative provided: <ul style="list-style-type: none"> a) Valve is deactivated closed, and b) APU is considered inoperative. 	
41-01	Fuel Quantity Indication Systems					
41-01-01	Main Tanks	C	2	1	(M)(O) Except for ER operations, may be inoperative provided: <ul style="list-style-type: none"> a) Fuel quantity in associated tank is verified by an acceptable procedure, b) Both fuel pumps in associated tank operate normally, c) Fuel flow indicators operate normally, d) Center tank fuel quantity indication system operates normally, and e) FMC FUEL is initialized with known total fuel quantity. 	
					(Continued)	

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
41-01	Fuel Quantity Indication Systems (Cont'd)					
41-01-02	Center Tank					
41-01-02A		C	1	0	(O) May be inoperative provided: a) Center tank remains empty, and b) Both main tank fuel quantity indication systems operate normally.	
41-01-02B		C	1	0	(M)(O) Except for ER operations, may be inoperative provided: a) Fuel quantity in center tank is verified by an acceptable procedure, b) Both center tank fuel pumps operate normally, c) Fuel flow indicators operate normally, d) Both main tank fuel quantity indication systems operate normally, and e) FMC FUEL is initialized with known total fuel quantity.	
41-02	Total Fuel Quantity Indication	C	1	0	(O) Except for ER operations, may be inoperative provided: a) Fuel flow indicators operate normally, and b) FMC FUEL is initialized with known total fuel quantity.	

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28. Fuel

Sequence No.	Item	1	2	3	4	Change Bar
42-01	Main Tank LOW PRESSURE Light Systems	C	4	3	May be inoperative provided associated pump is considered inoperative.	
42-01-01	LOW PRESSURE Lights	C	4	3	(M) May be inoperative provided: a) MASTER CAUTION lights and FUEL system annunciator light are verified to operate normally, and b) Both pumps in associated tank operate normally.	
42-02	Center Tank LOW PRESSURE Light Systems	C	2	0	May be inoperative provided associated pump is considered inoperative.	
42-02-01	LOW PRESSURE Lights	C	2	0	(M)(O) May be inoperative provided: a) MASTER CAUTION lights and FUEL system annunciator light are verified to operate normally, and b) Both center tank pumps operate normally.	
43-01	Fuel Temperature Indicating System	C	1	0	May be inoperative provided total air temperature (TAT) is used as an indication of fuel temperature.	
44-01	Fuel Measuring Sticks	C	16	0	(M) May be inoperative or missing provided fuel quantity is determined by other acceptable means.	

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29. Hydraulic Power

Sequence No.	Item	1	2	3	4	Change Bar
09-01	Hydraulic Reservoir Pressurization System Sources	C	2	1	(M) May be inoperative provided it is verified hydraulic reservoirs can be pressurized.	
09-02	Hydraulic Reservoir Pressurization System Wheel Well Air Pressure Gauge	C	1	0		
18-01	Hydraulic Reservoir Fill System	C	1	0		
31-01	Hydraulic Systems A and B Pressure Indications	C	2	1	(O) May be inoperative provided: <ol style="list-style-type: none"> a) Associated system pressure is verified to be normal before each departure, b) Associated system pump LOW PRESSURE indications operate normally, and c) Associated flight deck quantity indication operates normally. 	
32-01	Electric Hydraulic Pump Overheat Indication Systems	C	2	0	May be inoperative provided associated pump low pressure indication operates normally.	
33-01	Hydraulic Systems A and B Flight Deck Quantity Indications	C	2	0	(M) May be inoperative provided: <ol style="list-style-type: none"> a) Associated system quantity is verified to be normal before each departure, b) Associated system pressure indication operates normally, and c) Associated system pump LOW PRESSURE indications operate normally. 	

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29. Hydraulic Power

Sequence No.	Item	1	2	3	4	Change Bar
33-02	Standby System Low Quantity Indication System	C	1	0	(M) May be inoperative provided: a) Standby system quantity is verified to be normal before each departure, and b) Standby system pump low pressure indication operates normally.	
33-03	Hydraulic Reservoir Wheel Well Quantity Indicators	C	2	0	May be inoperative provided associated flight deck quantity indicator operates normally.	
34-01	Engine Driven Hydraulic Pump Low Pressure Indication Systems	C	2	0	(O) May be inoperative provided: a) Associated pump pressure is verified to be normal before each departure, b) Associated system flight deck quantity indication operates normally, and c) Associated system electric hydraulic pump low pressure indication operates normally.	
34-02	Electric Hydraulic Pump Low Pressure Indication Systems	C	2	0	(O) May be inoperative provided: a) Associated pump pressure is verified to be normal before each departure, b) Associated system flight deck quantity indication operates normally, and c) Associated system engine driven hydraulic pump low pressure indication operates normally.	
34-03	Standby System Pump Low Pressure Indication	C	1	0	(M) May be inoperative provided: a) Standby pump pressure is verified to be normal before each departure, b) Standby system low quantity indication operates normally, and c) System B hydraulic pumps operate normally.	

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30. Ice and Rain Protection

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Wing Anti-Ice Valves					
11-01A		C	2	0	(M)(O) Except for ER operations beyond 120 minutes, may be inoperative provided: <ul style="list-style-type: none"> a) Affected valve is secured closed, and b) Airplane is not operated in known or forecast icing conditions. 	
11-01B		C	2	1	(M)(O) May be inoperative secured open provided: <ul style="list-style-type: none"> a) Except for engine start, associated manifold is depressurized when outside air temperature is above 50 °F (10 °C), b) Associated engine bleed thrust limits are followed, WING ANTI-ICE switch is set to ON position when use of the wing anti-ice system is required, and the associated manifold is pressurized, c) Air conditioning and pressurization requirements are followed when one manifold is depressurized, and d) Appropriate performance adjustments are applied. 	
11-02	Wing VALVE Lights	C	2	0	(M) May be inoperative provided valve is verified to operate normally before operating in known or forecast icing conditions.	
11-03	Control Stand Wing Anti-Ice Switches					
11-03A		C	2	0	(O) May be inoperative closed.	
11-03B		C	2	0	(O) May be inoperative open.	

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30. Ice and Rain Protection

Sequence No.	Item	1	2	3	4	Change Bar
21-01	Engine (Cowl) Anti-Ice Valves					
21-01A		C	2	1	(M) Except for ER operations beyond 120 minutes, may be inoperative provided: a) Affected valve is locked closed, and b) Airplane is not operated in known or forecast icing conditions.	
21-01B		C	2	1	(M)(O) May be inoperative provided: a) Affected valve is locked open, b) Associated high pressure shutoff valve is deactivated closed, c) Ambient temperature is below 100 °F (38 °C), d) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, and e) Appropriate performance adjustments are applied.	
21-02	Engine Anti-Ice COWL VALVE Position Lights and TAI Indications					
21-02A		C	4	0	(O) May be inoperative provided associated valve is verified to operate normally before each departure.	
21-02B		C	4	2	One valve position indication (either COWL VALVE light or TAI indication) for each engine may be inoperative.	
21-02C		C	4	2	May be inoperative provided associated valve is considered inoperative.	

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Sequence No.	Item	1	2	3	4	Change Bar
21-03	COWL ANTI-ICE Lights					
21-03A		C	2	1	Except for ER operations beyond 120 minutes, may be inoperative provided airplane is not operated in known or forecast icing conditions.	
21-03B		C	2	1	May be inoperative provided associated engine anti-ice valve is considered inoperative locked open.	
31-01	Pitot Probe Heaters					
31-01-01	Captain and First Officer Pitot Heaters	B	2	1	Except for ER operations beyond 120 minutes, may be inoperative provided: <ol style="list-style-type: none"> a) Operations are conducted in Day VMC only, b) Aux pitot heater operates normally, c) Airplane is not operated in visible moisture, and d) Airplane is not operated in known or forecast icing conditions. 	
31-01-02	Auxiliary Pitot Heater (Right Lower Probe)	B	1	0	Except for ER operations beyond 120 minutes, may be inoperative provided: <ol style="list-style-type: none"> a) Captain and First Officer pitot heaters operate normally, and b) Airplane is not operated in known or forecast icing conditions. 	
31-02	Total Air Temperature Probe Heater	C	1	0	Except for ER operations beyond 120 minutes, may be inoperative provided airplane is not operated in known or forecast icing conditions.	

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Sequence No.	Item	1	2	3	4	Change Bar
31-03	Angle of Attack Sensor Heaters	C	2	0	Except for ER operations beyond 120 minutes, may be inoperative provided airplane is not operated in known or forecast icing conditions.	
31-04	Elevator Pitot Probe Heaters	B	2	1	Except for ER operations beyond 120 minutes, may be inoperative provided airplane is not operated in known or forecast icing conditions.	
31-05	Pitot and Temperature Probe Heater Lights					
31-05-01	Pitot Probe Heater Lights	B	5	0	(M) Except for ER operations beyond 120 minutes, may be inoperative provided: <ol style="list-style-type: none"> a) Associated heater is verified to operate normally, and b) Airplane is not operated in known or forecast icing conditions. 	
31-05-02	Total Air Temperature (TAT) Probe Heater Light					
31-05-02A		C	1	0	(M) May be inoperative provided associated heater is verified to operate normally before each departure.	
31-05-02B		C	1	0	May be inoperative provided associated heater is inoperative.	

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Sequence No.	Item	1	2	3	4	Change Bar
31-06	Alpha Vane Heater Light Systems					
31-06A		C	2	0	(M) May be inoperative provided associated heater function is verified to operate normally before each departure.	
31-06B		C	2	0	May be inoperative provided associated heater is considered inoperative.	
41-01	Electrically Heated Windshields					
41-01-01	No. 1 Windows	C	2	1	Except for ER operations beyond 120 minutes, may be inoperative provided: <ul style="list-style-type: none"> a) Associated FWD WINDOW HEAT switch remains OFF, b) Airplane is not operated in known or forecast icing conditions, c) Both No. 2 Window heaters operate normally, d) Windshield defog system operates normally, and e) Airspeed is limited to 250 KIAS below 10,000 ft. MSL. 	
41-01-02	No. 2 Windows	C	2	1	May be inoperative provided: <ul style="list-style-type: none"> a) Associated SIDE WINDOW HEAT switch remains OFF, b) Both No. 1 Window heaters operate normally, c) Windshield defog system operates normally, and d) Airspeed is limited to 250 KIAS below 10,000 ft. MSL. 	
41-01-03 ***	No. 3 Window Heat Systems	D	2	0		

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Sequence No.	Item	1	2	3	4	Change Bar
41-02	Windshield Defog System	C	1	0	May be inoperative provided electrically heated windshields for No. 1 and No. 2 windows operate normally.	
42-01	Windshield Wiper Systems	C	2	0	May be inoperative provided: <ol style="list-style-type: none"> a) Airplane is not operated in precipitation within 5 statute miles of airport of takeoff or intended landing, and b) Approach minimums do not require its use. 	
42-01-01	Park Function	C	2	0	May be inoperative for all flight conditions provided blade(s) can be positioned in a location that will not obstruct forward vision.	
42-01-02	Intermittent Speed Function	D	2	0		
42-01-03	Low Speed Function	C	2	0	May be inoperative provided both high speed functions operate normally.	
42-01-04	High Speed Function					
42-01-04A		C	2	1	May be inoperative provided both low speed functions operate normally.	
42-01-04B		C	2	0	May be inoperative provided both low speed functions operate normally and rain intensity is less than moderate.	
71-01	Drain Mast Heaters	C	2	0	(M) May be inoperative provided water supply to associated components is secured off.	

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30. Ice and Rain Protection

Sequence No.	Item	1	2	3	4 Change Bar
81-01 ***	Ice Detection System				
81-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.
81-01B		D	1	0	May be inoperative provided procedures do not require its use.

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31. Indicating/Recording Systems

Sequence No.	Item	1	2	3	4	Change Bar
25-01	Clock Switches	C	2	1		
31-01	Flight Data Recorder System (FDR)					
31-01A		C	-	-	Any in excess of those required by 14 CFR may be inoperative.	
31-01B		A	-	0	May be inoperative provided: <ul style="list-style-type: none"> a) Cockpit Voice Recorder (CVR) operates normally, b) Airplane is not dispatched from a designated airport as listed in operator's MEL unless: <ol style="list-style-type: none"> 1) FDR failure occurs after pushback but prior to takeoff, or 2) FDR repair was attempted but was not successful. c) In those cases where repair is attempted but not successful, aircraft may be dispatched on a flight or series of flights until next designated airport where repair must be accomplished prior to dispatch, and d) Repairs are made within 3 flight-days. 	
31-01-01	FDR Recording Parameters Required by 14 CFR	A	-	-	Up to three recording parameters may be inoperative provided: <ul style="list-style-type: none"> a) Cockpit Voice Recorder (CVR) operates normally, and b) Repairs are made within 20 calendar-days. 	
(Continued)						

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31. Indicating/Recording Systems

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Flight Data Recorder System (FDR) (Cont'd)					
31-01-02	FDR Recording Parameters Not Required by 14 CFR	A	-	-	May be inoperative provided repairs are made prior to completion of next heavy maintenance visit.	
31-02 ***	Aircraft Condition Monitoring System (ACMS) Function	D	1	0		
62-01	MAX Display System (MDS)					
62-01-01	Display Units (DU)					
62-01-01-01	Outboard DU	A	2	1	(M)(O) May be inoperative provided: a) Associated PFD/MFD display selector switch remains in the INBD position, b) Opposite PFD/MFD display selector switch is verified to operate normally, c) Captain's and First Officer's engine display control selectors operate normally, d) Engine display is available and selected on opposite inboard display, e) ISFD operates normally, f) EFIS Control Panels operate normally, g) Inboard display units operate normally, and h) Repairs are made within 2 flight-days.	
(Continued)						

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31. Indicating/Recording Systems

Sequence No.	Item	1	2	3	4	Change Bar
62-01	MAX Display System (MDS) (Cont'd)					
62-01-01	Display Units (DU) (Cont'd)					
62-01-01-02	Inboard DU	A	2	1	(M)(O) May be inoperative provided: a) Associated PFD/MFD display selector switch remains in the OUTBD position, b) Opposite PFD/MFD display selector switch is verified to operate normally, c) Captain's and First Officer's engine display control selectors operate normally, d) Engine display is available and selected on opposite inboard display, e) ISFD operates normally, f) EFIS Control Panels operate normally, g) Outboard display units operate normally, and h) Repairs are made within 2 flight-days.	
62-01-01-03	Manual BRT/CONTRAST Controls	C	4	0	One brightness function (outer control) may be inoperative on each display provided automatic display brightness is functioning normally and is acceptable to flightcrew.	
62-02	Remote Light Sensor (RLS) System	C	1	0	May be inoperative provided manual display brightness/contrast controls operate normally.	
62-03	Engine Display Control SELECTORS	C	2	1	May be inoperative provided both FMCs and both CDU/MCDUs operate normally.	

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31. Indicating/Recording Systems

Sequence No.	Item	1	2	3	4 <small>Change Bar</small>
62-04	Electronic Flight Instrument System (EFIS) Control Panels				
62-04-01	Minimums (MINS) Reference Selectors	C	2	0	May be inoperative provided approach procedures do not require its use.
62-04-02	MAP Switches				
62-04-02-01	STA (Station)	C	2	1	
62-04-02-02	WPT (Waypoint)	C	2	1	
62-04-02-03	ARPT (Airport)	C	2	1	
62-04-02-04	DATA	C	2	1	
62-04-02-05	POS (Position)	C	2	1	

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32. Landing Gear

Sequence No.	Item	1	2	3	4	Change Bar
30-01	Landing Gear Actuation System	B	1	0	(M)(O) May be inoperative provided: a) Landing gear is secured in down position, and b) Airplane is dispatched in accordance with AFM Landing Gear Extended appendix.	
31-01	Landing Gear Selector Bypass Valve	C	1	0	(M)(O) May be inoperative provided: a) Landing gear selector bypass valve is deactivated in the normal position, and b) Appropriate performance adjustments are applied.	
31-02	Landing Gear Control Systems					
31-02A		C	2	1		
31-02B		B	2	0	(M)(O) May be inoperative provided: a) Landing gear is secured in down position, and b) Airplane is dispatched in accordance with AFM Landing Gear Extended appendix.	
31-03	Landing Gear Lever Input Systems	C	2	1		
32-01	Main Landing Gear Uplock Springs	B	4	3	(M) One spring on one main gear uplock mechanism may be missing.	
32-02	Main Landing Gear Frangible Fitting	C	2	0	(M) May be broken or missing provided: a) Fitting is replaced with a hydraulic cap assembly, and b) Gear retraction braking system operates normally.	
35-01	Landing Gear Manual Extension System	B	1	0	(M)(O) May be inoperative provided: a) Landing gear is secured in down position, and b) Airplane is dispatched in accordance with AFM Landing Gear Extended appendix.	

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32. Landing Gear

Sequence No.	Item	1	2	3	4	Change Bar
41-01	Hydraulic Brake Pressure Indication System					
41-01-01	Wheel Well Brake Accumulator Gauge	C	1	0	May be inoperative provided flight deck brake pressure indicating system operates normally.	
41-01-02	Flight Deck Brake Pressure Indicating System	C	1	0	(M) May be inoperative provided: a) Wheel well brake accumulator gauge operates normally, and b) Brake accumulator charge is verified normal once each flight-day.	
41-02	Gear Retraction Braking System	C	1	0	(O) May be inoperative provided: a) Main landing gear frangible fitting operates normally, b) Landing gear remains extended for 2 minutes after takeoff, and c) Takeoff performance is based on landing gear extended.	
42-01	Antiskid System	C	1	0	(M)(O) May be inoperative provided: a) Inoperative antiskid channels are deactivated, b) Autobrake system is not used, and c) Appropriate performance adjustments for antiskid inoperative are applied.	
42-02	Alternate Antiskid Valves	C	2	0	(M) May be inoperative provided alternate brake system is verified to operate normally.	
42-03	Automatic Brake System	C	1	0	(M) May be inoperative deactivated.	

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Sequence No.	Item	1	2	3	4	Change Bar
44-01	Parking Brake Valve	C	1	0	(M)(O) May be inoperative provided: a) Parking brake valve is deactivated in closed position, b) Antiskid system is considered inoperative, c) Autobrake system is not used, and d) Appropriate performance adjustments for antiskid inoperative are applied.	
44-02	Parking Brake Light					
44-02-01	Flight Deck Parking Brake Light	C	1	0	(M) May be inoperative provided parking brake shutoff valve is verified to operate normally.	
44-02-02 ***	External Parking Brake Light					
44-02-02A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
44-02-02B		D	1	0	May be inoperative provided procedures do not require its use.	
46-01 ***	Brake Temperature Monitoring System					
46-01A		C	1	0	(O) May be inoperative provided AFM Maximum Quick Turnaround Weight limitations are observed. NOTE: Any portion of system that operates normally may be used.	
46-01B		D	1	0	May be inoperative provided procedures do not require its use.	

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32. Landing Gear

Sequence No.	Item	1	2	3	4	Change Bar
49-01 ***	Tire Pressure Indication System					
49-01A		C	1	0	(M) May be inoperative provided alternate procedures are established and used. NOTE: Any portion of system that operates normally may be used.	
49-01B		D	1	0	May be inoperative provided procedures do not require its use.	
51-01	Rudder Pedal Nose Wheel Steering System	A	1	0	(M)(O) May be inoperative provided: a) Rudder pedal nose wheel steering is deactivated disengaged, b) Tiller is verified to operate normally, c) Taxi, takeoffs, and landings are made by pilot with access to an operating tiller, d) Approach minimums do not require its use, e) Airplane is not operated on runways contaminated with standing water, slush, or snow, and f) Repairs are made within 3 flight-days.	
51-02	Nose Wheel Steering Switch	C	1	0	(M) May be inoperative provided: a) Landing gear transfer valve is verified to operate normally, and b) Rudder pedal nose wheel steering operates normally.	

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32. Landing Gear

Sequence No.	Item	1	2	3	4	Change Bar
71-01	Two-Position Tail Skid					
71-01-01 ***	737-8/8200					
71-01-01-01	Retraction Mechanism					
71-01-01-01A		C	1	0	(M)(O) May be inoperative provided: a) Tail skid is locked in retracted position, and b) Appropriate performance adjustments are applied.	
71-01-01-01B		C	1	0	(M)(O) May be inoperative provided: a) Tail skid is locked in extended position, and b) Appropriate performance adjustments are applied.	
71-01-01-02	Cartridge Core Assembly	B	1	0	(M)(O) May be inoperative provided: a) Verify there is no internal or external structural damage, b) Tail skid is locked in retracted position, and c) Appropriate performance adjustments are applied.	
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32. Landing Gear

Sequence No.	Item	1	2	3	4	Change Bar
71-01	Two-Position Tail Skid (Cont'd)					
71-01-02	737-9					
71-01-02-01	Retraction Mechanism					
71-01-02-01A		C	1	0	(M)(O) May be inoperative provided: a) Tail skid is locked in retracted position, and b) Appropriate performance adjustments are applied.	
71-01-02-01B		C	1	0	(M)(O) May be inoperative provided: a) Tail skid is locked in extended position, and b) Appropriate performance adjustments are applied.	
71-01-02-02	Cartridge Core Assembly	B	1	0	(M)(O) May be inoperative provided: a) Verify there is no internal or external structural damage, b) Tail skid is locked in retracted position, and c) Appropriate performance adjustments are applied.	

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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Flight Compartment and Instrument Lighting System	C	-	-	Individual lights may be inoperative provided: <ul style="list-style-type: none"> a) Remaining lighting system lights are sufficient to clearly illuminate all required instruments, controls, and other devices for which they are provided, b) Remaining lighting system lights are positioned so that direct rays are shielded from flightcrew members' eyes, and c) Lighting configuration and intensity is acceptable to flightcrew. <p>NOTE 1: Individual button/switch lights and/or annunciation/indications are excluded from this relief.</p> <p>NOTE 2: Unaided operation (without NVGs) may be permitted with inoperative NVG supplemental lights; cracked or missing filters.</p>	
11-02	System Annunciator Lights (Glareshield Panel)					
11-02A		C	12	11	(O) May be inoperative for an operating system.	
11-02B		C	12	-	May be inoperative for an associated inoperative system.	

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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
11-03	Main Panel Light Controls	C	2	0	May be inoperative provided: <ul style="list-style-type: none"> a) Associated switch remains in OFF position, b) Associated display unit brightness/contrast controls operate normally, and c) Light intensity is acceptable to flightcrew. 	
16-01	Master Lights Test and Dim System					
16-01-01	Master and Individual Light's Test Function	C	-	-	(O) Master test and individual light's press-to-test functions may be inoperative provided intended function of associated light is verified to operate normally once each flight-day.	
16-01-02	Dim Function	B	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) Master TEST and BRT functions operate normally, b) Except during light test, switch is set to BRT, and c) Light intensity is acceptable to flightcrew. 	
21-01	Cabin Interior Illumination					
21-01-01	Without Photoluminescent Emergency Escape Path Marking System	C	-	-	Individual lights may be inoperative provided sufficient lighting remains for cabin attendants to perform their duties.	
21-01-02	With Photoluminescent Emergency Escape Path Marking System	C	-	-	Individual lights may be inoperative provided: <ul style="list-style-type: none"> a) Sufficient lighting remains for cabin attendants to perform their duties, and b) Remaining lighting is sufficient to charge photoluminescent emergency escape path marking system. 	

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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
24-01	Passenger Lighted Information Signs and Notice System					
24-01-01	Individual Passenger Lighted Information Signs					
24-01-01A		C	-	-	(M) May be inoperative provided: a) Associated passenger seat or lavatory is not occupied from which a passenger lighted information sign is not readily legible, and b) Associated seat or lavatory is blocked and placarded "DO NOT OCCUPY". NOTE: These conditions are not intended to prohibit lavatory use or inspections by crewmembers.	
24-01-01B		C	-	-	(O) May be inoperative and associated passenger seat or lavatory may be occupied provided: a) PA system operates normally, and b) PA system is used to notify passengers and cabin crew when associated sign(s) is placed on or off.	
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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
24-01	Passenger Lighted Information Signs and Notice System (Cont'd)					
24-01-02	Aural Tone System	C	1	0		
24-01-03	Flight Deck Automatic Function	C	1	0	(O) May be inoperative provided: a) Manual control function operates normally, and b) Alternate procedures are established and used.	
25-01 ***	Sterile Flight Compartment Light System					
25-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
25-01B		D	1	0	May be inoperative provided procedures do not require its use.	
31-01	Wheel Well Lights	C	5	0		

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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
37-01	Lower Cargo Compartment Light Systems	C	-	0		
37-01-01	Forward Compartment Light Lens	C	-	-	One may be broken or missing.	
37-01-02	Aft Compartment Light Lens	C	-	-	Any number may be broken or missing.	
41-01	Wing Illumination Lights	C	2	0	(O) May be inoperative provided ground deicing procedures do not require their use.	
42-01	Landing Light LED Array Systems					
42-01A		C	4	2	One LED array may be inoperative on each side. NOTE: There is an inboard LED array and an outboard LED array inside the strakelet on each wing. These same lights are also used for the taxi lights. Taxi lights may also be affected (see MMEL 33-42-02).	
42-01B		C	4	2	Both LED arrays on one side may be inoperative provided the Runway Turnoff Light on the same side operates normally. NOTE: There is an inboard LED array and an outboard LED array inside the strakelet on each wing. These same lights are also used for the taxi lights. Taxi lights may also be affected (see MMEL 33-42-02).	
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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
42-01	Landing Light LED Array Systems (Cont'd)					
42-01C		C	4	0	May be inoperative provided operations are not conducted at night. NOTE: There is an inboard LED array and an outboard LED array inside the strakelet on each wing. These same lights are also used for the taxi lights. Taxi lights may also be affected (see MMEL 33-42-02).	
42-01-01 ***	Alternate Flash Function	D	-	0		
42-02	Taxi Light LED Array Systems	C	4	0	NOTE: There is an inboard LED array and an outboard LED array inside the strakelet on each wing. These same lights are also used for the taxi lights. Landing lights may also be affected (see MMEL 33-42-01).	
42-03	Runway Turnoff Light LED Array Systems	C	2	0		

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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
43-01	Position Light LED Modules					
43-01A		C	6	0	May be inoperative provided operations are not conducted from sunset to sunrise.	
43-01B		C	6	4	May be inoperative provided: <ol style="list-style-type: none"> a) One red wing tip LED module operates normally, b) One green wing tip LED module operates normally, and c) Both white tail position LED modules operate normally. 	
43-02	Winglet Aft Marker Lights					
43-02A		C	2	0	(O) May be inoperative provided alternate procedures are established and used.	
43-02B		D	2	0	May be inoperative provided procedures do not require its use.	
44-01	Red ANTI-COLLISION Lights					
44-01A		C	2	1	May be inoperative provided white anti-collision STROBE lights operate normally.	
44-01B		C	2	0	May be inoperative provided: <ol style="list-style-type: none"> a) At least one white anti-collision STROBE light operates normally, and b) Operations are not conducted at night. 	

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33. Lights

Sequence No.	Item	1	2	3	4	Change Bar
44-02	White Anti-Collision STROBE Lights					
44-02A		C	4	0	May be inoperative provided red ANTI-COLLISION lights operate normally.	
44-02B		C	4	0	May be inoperative provided: a) At least one red ANTI-COLLISION light operates normally, and b) Operations are not conducted at night.	
45-01	Logo Light System	D	1	0		
51-01	Interior Emergency Lighting System					
51-01-01	Aisle Lights	C	-	-	Light assemblies installed above aisle may be inoperative provided no two adjacent (opposite side) light assemblies are inoperative.	
51-01-02	Flight Deck Exit Light	C	1	0	May be inoperative provided operations are not conducted at night.	
51-02	Exterior Emergency Lighting System	B	1	0	May be inoperative provided operations are not conducted at night.	

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Sequence No.	Item	1	2	3	4	Change Bar
51-03	Floor Proximity Emergency Escape Path Marking System					
51-03-01	Incandescent Lighting System					
51-03-01-01	Floor Aisle Marker Lights	C	-	-	May be inoperative provided: a) All floor aisle marker lights that indicate exit locations operate normally, b) The most forward and farthest aft floor aisle marker lights operate normally, and c) Inoperative floor aisle marker lights are not adjacent.	
51-03-01-02	Sidewall Exit Indicator Lamps/Bulbs	C	-	-	May be inoperative provided at least two lamps/bulbs in each sidewall exit indicator operate normally.	
51-03-02	Photoluminescent Lighting System					
51-03-02-01	Photoluminescent Strips	C	-	-	A maximum of 5 inches of any length of photoluminescent strip may be inoperative.	
51-03-02-02	Sidewall Exit Indicator Lamps/Bulbs	C	-	-	May be inoperative provided at least three lamps/bulbs in each sidewall exit indicator operate normally.	

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34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
16-01	Mach/Airspeed Warning Systems	C	2	1		
23-01	Standby Magnetic Compass	B	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) Integrated standby flight display (ISFD) heading display operates normally, and b) Airplane is operated with Dual Independent Navigation Capability and under Positive Radar Control by ATC on the enroute portion of the flight. 	
24-01	Integrated Standby Flight Display (ISFD)					
24-01-01	Attitude Indication	B	1	0	May be inoperative provided: <ul style="list-style-type: none"> a) Operations are conducted in Day VMC only, and b) Operations are not conducted into known or forecast over-the-top conditions. 	
24-01-02	Approach Mode	C	1	0		
24-01-03	Heading Display	C	1	0	May be inoperative provided standby magnetic compass operates normally.	
24-01-04	Switch Lights	C	5	0		
24-01-05	Dedicated Battery	C	1	0		
31-01	Instrument Landing Systems (ILS)	D	2	-	Any in excess of those required by 14 CFR may be inoperative provided approach minimums do not require their use.	
31-02 ***	Global Navigation Satellite Landing System (GLS)	D	2	-	May be inoperative provided approach minimums do not require its use.	

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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
32-01	Marker Beacon System	C	1	0	May be inoperative provided approach minimums do not require its use.	
33-01	Radio Altimeter Systems	C	2	1	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Inoperative radio altimeter is deactivated, b) Approach minimums or operating procedures do not require its use, c) Associated autopilot is not used for approach and landing, d) Autothrottle is not used for approach and landing, and e) Associated flight director is not used for approach and landing. <p>NOTE: If arming LNAV on the ground with one radio altimeter inoperative, the flight directors and autopilot should be controlled by the FCC on the same side as the valid radio altimeter (i.e., the first flight director and/or autopilot to be engaged must be receiving valid radio altitude data).</p>	
36-01 ***	Head-Up Display (HUD) System					
36-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used. <p>NOTE: Any mode which operates normally may be used.</p>	
36-01B		D	1	0	May be inoperative provided procedures do not require its use.	
(Continued)						

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1. REPAIR CATEGORY
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4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
36-01 ***	Head-Up Display (HUD) System (Cont'd)					
36-01-01	Low Visibility Takeoff Function					
36-01-01A		C	1	0	May be inoperative provided takeoff minimums do not require its use.	
36-01-01B		D	1	0	May be inoperative provided procedures do not require its use.	
36-01-02	Brightness (BRT) Control	C	1	0	May be inoperative provided brightness is acceptable to flightcrew.	
41-01	Weather Radar System					
41-01A		D	2	1		
41-01B		C	-	0	(O) May be inoperative provided: a) Weather radar equipment is not required by 14 CFR, b) Ground proximity warning system (GPWS) reactive windshear alert (mode 7) operates normally, and c) Alternate procedures are established and used.	
41-01C		B	-	0	(O) May be inoperative provided: a) Weather radar equipment is not required by 14 CFR, and b) Alternate procedures are established and used.	
NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.						
(Continued)						

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1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
41-01	Weather Radar System (Cont'd)					
41-01-01	Predictive Windshear (PWS) Function					
41-01-01A		C	-	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Ground proximity warning system (GPWS) reactive windshear alert (mode 7) operates normally.	
41-01-01B		B	-	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.	
41-01-02	Auto Tilt Function	C	1	0	May be inoperative provided manual tilt function operates normally.	

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4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
45-01	Traffic Collision and Avoidance System (TCAS)	B	1	0	(M) May be inoperative provided: <ol style="list-style-type: none"> a) System is deactivated and secured, and b) Enroute or approach procedures do not require its use. 	
45-01-01	Resolution Advisory (RA) Display Systems					
45-01-01A		C	2	1	May be inoperative on non-flying pilot side.	
45-01-01B		C	2	0	(O) May be inoperative provided: <ol style="list-style-type: none"> a) Traffic Alert (TA) visual display and audio functions operate normally, b) TA only mode is selected by crew, and c) Enroute or approach procedures do not require its use. 	
45-01-02	Traffic Alert (TA) Display Systems	C	2	0	(O) May be inoperative provided: <ol style="list-style-type: none"> a) RA visual display and audio functions operate normally, and b) Enroute or approach procedures do not require its use. 	
45-01-03	Audio Function	B	1	0	May be inoperative provided enroute or approach procedures do not require use of TCAS.	
45-01-04 ***	Airspace Selection Function	C	1	0		

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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
49-01	Ground Proximity Warning System (GPWS)					
49-01-01	GPWS Function	A	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within 2 flight-days.	
49-01-01-01	Modes 1–4	A	4	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within 2 flight-days.	
49-01-01-02	Excessive Deviation Below Glide Slope (Mode 5)	B	1	0		
49-01-01-03	Advisory Altitude/Bank Angle Callout (Mode 6)					
49-01-01-03A		B	1	0	(O) May be inoperative provided alternate procedures are established and used.	
49-01-01-03B		C	1	0	(O) May be inoperative provided: a) Advisory callout not required by 14 CFR, and b) Alternate procedures are established and used.	
(Continued)						

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4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
49-01	Ground Proximity Warning System (GPWS) (Cont'd)					
49-01-01	GPWS Function (Cont'd)					
49-01-01-04	Reactive Windshear (RWS) Detection (Mode 7)					
49-01-01-04A		B	1	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.	
49-01-01-04B		C	1	0	(O) May be inoperative provided: a) Weather radar system predictive windshear alert mode operates normally, and b) Alternate procedures are established and used.	
49-01-01-05	Test Mode	A	1	0	May be inoperative provided: a) GPWS is considered inoperative, and b) Repairs are made within 2 flight-days.	
(Continued)						

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4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
49-01	Ground Proximity Warning System (GPWS) (Cont'd)					
49-01-02	Terrain Awareness Function	B	1	0	(O) May be inoperative provided alternate procedures are established and used.	
49-01-03	Terrain Displays					
49-01-03A		C	2	1		
49-01-03B		B	2	0		
49-01-04 ***	Runway Awareness and Advisory System (RAAS)	C	1	0		
51-01	VOR Systems	D	2	-	Any in excess of those required by 14 CFR, and not powered by a Standby Bus, may be inoperative.	
53-01	ATC Transponder/Automatic Altitude Reporting Systems					
53-01A		D	2	1	Any in excess of those required by 14 CFR may be inoperative.	
53-01B		B	2	0	May be inoperative provided: a) Operations do not require its use, and b) Prior to flight, approval is obtained from ATC facilities having jurisdiction over planned route of flight.	
(Continued)						

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TABLE KEY

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4. REMARKS OR EXCEPTIONS

34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
53-01	ATC Transponder/Automatic Altitude Reporting Systems (Cont'd)					
53-01-01	Elementary and Enhanced Downlink Aircraft Reportable Parameters Not Required by 14 CFR	A	-	0	May be inoperative provided: a) Operations do not require its use, and b) Repairs are made prior to completion of next heavy maintenance visit.	
53-01-02 ***	ADS-B Out Extended Squitter					
53-01-02A		B	2	0	(O) May be inoperative provided prior to flight, authorization is obtained from ATC facilities having jurisdiction over the planned route of flight using an approved authorization process. NOTE: Any ADS-B Out function that operates normally may be used.	
53-01-02B		C	2	1	One may be inoperative.	
53-01-02C		D	2	0	May be inoperative provided: a) Enroute operations do not require its use, and, b) It is not required by 14 CFR. NOTE: Any ADS-B Out function that operates normally may be used.	

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34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
55-01	Distance Measuring Equipment (DME) Systems	D	2	-	Any in excess of those required by 14 CFR may be inoperative.	
57-01 ***	Automatic Direction Finder (ADF) System	D	-	-	Any in excess of those required by 14 CFR may be inoperative.	
58-01	Global Positioning System (GPS)					
58-01A		C	2	1	May be inoperative provided enroute operations do not require its use.	
58-01B		C	2	0	(M)(O) May be inoperative provided: a) Correct UTC time and date are entered manually, and b) Alternate procedures are established and used.	

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34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
61-01	Flight Management Computer System (FMCS)					
61-01-01	Computer					
61-01-01A		C	-	1	May be inoperative provided it is not required to meet 14 CFR navigation requirements.	
61-01-01B		C	-	0	(M)(O) Except for ER operations, may be inoperative provided: <ul style="list-style-type: none"> a) Autothrottle system is deactivated, b) Enroute operations do not require its use, and c) Appropriate performance adjustments are applied. 	
61-01-02	Navigation Databases	A	-	0	May be inoperative provided: <ul style="list-style-type: none"> a) Operations do not require its use, b) It is not used in a primary navigation system required by 14 CFR, c) Alternate procedures are established and used, d) The ICAO Flight Plan is updated (as required) to notify ATC of the navigation equipment status of the aircraft, and e) Repairs are made within 10 flight-days. <p>NOTE: An out-of-currency or out-of-date navigation database is not authorized MMEL relief per 14 CFR.</p>	
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34. Navigation

Sequence No.	Item	1	2	3	4	Change Bar
61-01	Flight Management Computer System (FMCS) (Cont'd)					
61-01-03	CDU/MCDU					
61-01-03A		C	2	1	May be inoperative provided enroute operations do not require its use.	
61-01-03B		C	2	0	Except for ER operations, may be inoperative provided enroute operations do not required its use.	
61-01-03-01	Switch Lights/Key Lights	C	-	0		
61-01-04	FMC Alert Lights					
61-01-04A		C	2	1	May be inoperative provided FMC is not used for autopilot guidance during approach.	
61-01-04B		C	2	0	May be inoperative provided FMC is not used for autopilot guidance.	
65-01 ***	Vertical Situation Display (VSD) System					
65-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
65-01B		D	1	0	May be inoperative provided procedures do not require its use.	

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4. REMARKS OR EXCEPTIONS

35. Oxygen

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Crew Oxygen System					
11-01-01	Flight Deck Crew Oxygen Pressure Indicator	C	1	0	(M) May be inoperative provided crew oxygen supply is verified to be above minimum required before each departure.	
11-01-02	Overboard Vent and Discharge Indicator Disk	C	1	0	May be damaged or missing.	
11-02 ***	Crew Oxygen External Fill Panel	C	1	0	(M) May be inoperative provided it is verified leak-tight integrity of crew oxygen supply system is not affected.	
11-02-01	Crew Oxygen Pressure Indicator	C	1	0	(M) May be inoperative provided an alternate procedure is used to verify oxygen supply is above minimum requirements for dispatch.	
21-01	Passenger Oxygen System					
21-01A		B	1	0	(O) May be inoperative provided: <ul style="list-style-type: none"> a) Both air conditioning packs operate normally, b) Pressurization system operates normally, c) Flight is not conducted where minimum enroute altitude is above 14,000 ft. MSL, d) Airplane remains at or below FL 250, e) Portable oxygen units are provided for 10% of passengers, and f) Passengers are appropriately briefed. 	
21-01B		B	1	0	May be inoperative provided flight is conducted at or below 10,000 ft. MSL.	

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4. REMARKS OR EXCEPTIONS

35. Oxygen

Sequence No.	Item	1	2	3	4	Change Bar
21-02	Oxygen Service Units (Passenger, Attendant, Lavatory)	B	-	-	(M) May be inoperative provided: <ol style="list-style-type: none"> a) Associated seats are blocked and placarded to prevent occupancy, b) Associated flight attendant seat is considered inoperative, and c) Associated lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER". <p>NOTE: These provisions are not intended to prohibit lavatory inspections by crewmembers.</p>	
21-02-01	Automatic Presentation System	C	1	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Manual deployment system is verified to operate normally, and b) Airplane remains at or below FL 300. 	
21-02-02	Door Latches	B	-	-	(M)(O) Automatic opening feature of door latch(es) may be inoperative unlatched provided: <ol style="list-style-type: none"> a) Associated door is taped closed, b) Associated oxygen service unit operates normally, c) Flight remains at or below FL 250, and d) Affected passengers occupying seats with an inoperative door latch are briefed on alternate oxygen mask procedure. 	

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4. REMARKS OR EXCEPTIONS

35. Oxygen

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Portable Oxygen Bottles or Units (Including Masks and Hoses)	D	-	-	(M) Any in excess of those required by 14 CFR may be inoperative or missing provided: <ul style="list-style-type: none"> a) An inoperative or not properly serviced portable oxygen bottle/unit remains in a certified location until removed or serviced at the next suitable maintenance facility, b) Location placarding is removed or obscured if all units at a specific storage location are inoperative or missing, and c) Required distribution is maintained. <p>NOTE 1: Inoperative portable oxygen bottles or units, removed from a certified location or removed from the aircraft, are subject to 49 CFR dangerous goods regulations.</p> <p>NOTE 2: Medical equipment installed in the aircraft as part of an Emergency Medical Service (EMS) operation is not considered part of the normal complement of equipment. No MMEL relief applies to that equipment and 14 CFR maintenance and inspection requirements do not apply.</p>	
31-01-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper installation and servicing is verified at each preflight.	

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4. REMARKS OR EXCEPTIONS

35. Oxygen

Sequence No.	Item	1	2	3	4	Change Bar
31-02	Portable Protective Breathing Equipment (PBE)	D	-	-	Any in excess of those required by 14 CFR may be inoperative or removed provided: <ul style="list-style-type: none"> a) Inoperative PBE remains in a certified location until removed from the aircraft at the next suitable maintenance facility, b) Location placarding is removed or obscured, and c) Required distribution is maintained. <p>NOTE: Inoperative PBEs, removed from a certified location or removed from the aircraft, are subject to 49 CFR dangerous goods regulations.</p>	
31-02-01 ***	Tamper Seals or Tags	C	-	-	(O) May be inoperative, damaged, or missing provided proper installation and servicing is verified at each preflight.	

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4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Engine Bleed Air Control Systems					
11-01-01	Primary Control Card	C	2	1	(M)(O) May be inoperative provided: a) Associated backup card operates normally, b) Associated high pressure shutoff valve is deactivated closed, c) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, d) Associated air supply controller bleed system health monitor operates normally, and e) Appropriate performance adjustments are applied.	
11-01-02	Anti-Ice Inhibit Function	C	2	1	(M)(O) May be inoperative provided: a) Associated high pressure shutoff valve is deactivated closed, b) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, and c) Appropriate performance adjustments are applied.	
11-01-03	Backup Control Card					
11-01-03A		C	2	0	May be inoperative provided: a) Associated primary control card operates normally, and b) Associated air supply controller bleed system health monitor operates normally.	
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4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Engine Bleed Air Control Systems (Cont'd)					
11-01-03	Backup Control Card (Cont'd)					
11-01-03B		C	2	0	(O) Except for ER operations beyond 120 minutes, may be inoperative provided associated pressure regulating and shutoff valve (PRSOV) is not used.	
11-01-04	Air Supply Controller (ASC) Bleed System Health Monitor					
11-01-04A		C	2	0	May be inoperative provided: a) Associated primary control card operates normally, and b) Associated backup control card operates normally.	
11-01-04B		C	2	0	(O) Except for ER operations beyond 120 minutes, may be inoperative provided associated pressure regulating and shutoff valve (PRSOV) is not used.	
11-01-05	Bleed Control Backup Protection Functions					
11-01-05A		C	2	0	May be inoperative provided associated primary control card operates normally.	
11-01-05B		C	2	0	(O) Except for ER operations beyond 120 minutes, may be inoperative provided associated pressure regulating and shutoff valve (PRSOV) is not used.	

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4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
11-01-06	Bleed Control Engine Data	C	2	1	(M)(O) May be inoperative provided: a) Associated high pressure shutoff valve is deactivated closed, b) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, and c) Appropriate performance adjustments are applied.	
11-02	Engine Bleed Air Control Sensors					
11-02-01	Manifold Pressure (PM2) Sensors	C	2	0	(M) May be inoperative provided: a) Associated pneumatic pressure indication system is considered inoperative, and b) Associated Manifold Pressure 1 Sensor is verified to operate normally.	
11-02-02	Intermediate Pressure (PI) Sensors	C	2	1	(M)(O) May be inoperative provided: a) Associated high pressure shutoff valve is deactivated closed, b) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, and c) Appropriate performance adjustments are applied.	

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4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
11-03	Pressure Regulating and Shutoff Valve (PRSOV) Systems					
11-03-01	Pressure Regulating and Shutoff Valves					
11-03-01A		C	2	1	(M)(O) Except for ER operations beyond 120 minutes, may be inoperative provided: <ol style="list-style-type: none"> a) Valve is secured closed, b) Airplane is not operated in known or forecast icing conditions, c) Flight altitude remains at or below FL 250, and d) Appropriate performance adjustments are applied. 	
11-03-01B		C	2	0	(M)(O) Except for ER operations beyond 120 minutes, may be inoperative provided: <ol style="list-style-type: none"> a) Valves are secured closed, b) Airplane is not operated in known or forecast icing conditions, c) APU bleed air system operates normally, and d) Flight altitude remains at or below 17,000 ft. 	

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36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
11-04	High Pressure Shutoff Valve (HPSOV) Systems					
11-04-01	High Pressure Shutoff Valves	C	2	1	(M)(O) May be inoperative provided: a) Affected valve is deactivated closed, b) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, and c) Appropriate performance adjustments are applied.	
11-04-02		C	2	1	(M)(O) May be inoperative provided: a) Affected valve is deactivated closed, b) A minimum of 60% N ₁ is maintained on associated engine during flight in icing conditions, and c) Appropriate performance adjustments are applied.	
11-05	Engine BLEED Lights					
11-05A		C	2	1	(O) Except for ER operations beyond 120 minutes, may be inoperative provided: a) Associated engine bleed air switch remains OFF except for engine start, b) Airplane is not operated in known or forecast icing conditions, c) Flight altitude remains at or below FL 250, and d) Appropriate performance adjustments are applied.	
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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
11-05	Engine BLEED Lights (Cont'd)					
11-05B		C	2	0	(O) Except for ER operations beyond 120 minutes, may be inoperative provided: a) Engine bleed air switches remain OFF except for engine start, b) Airplane is not operated in known or forecast icing conditions, c) APU bleed air system operates normally, and d) Flight altitude remains at or below 17,000 ft.	
11-06	Duct Vent Valve					
11-06A		C	2	0	May be inoperative closed provided that a No Engine Bleed Takeoff is not conducted.	
11-06B		C	2	0	May be inoperative open.	

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4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
12-01	Fan Air Modulating Valve (FAMV) Systems					
12-01-01	Fan Air Modulating Valves	C	2	0	(M)(O) Except for ER operations beyond 120 minutes, may be inoperative provided: <ul style="list-style-type: none"> a) Affected valve is deactivated in full open position, b) Airplane is not operated in known or forecast icing conditions, and c) Appropriate performance adjustments are applied. <p>NOTE: Associated thrust reverser system must be considered inoperative if associated thrust reverser inner walls are composed of one Titanium Inner Wall (TIW) half and one Composite Inner Wall (CIW) half. Thrust reversers with Titanium Inner Walls (TIW) can be identified by part numbers 315A6295-1, -2, -3, and -4, whereas thrust reversers with Composite Inner Walls (CIW) can be identified by part numbers 315A6295-5 and higher.</p>	
13-01	Bleed Air Isolation Valve	C	1	0	(M) Except for ER operations beyond 120 minutes, may be inoperative provided: <ul style="list-style-type: none"> a) Valve remains closed except for engine start, and b) Airplane is not operated in known or forecast icing conditions. 	

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AIRCRAFT:
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TABLE KEY

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4. REMARKS OR EXCEPTIONS

36. Pneumatic

Sequence No.	Item	1	2	3	4	Change Bar
13-02	Bleed Air Isolation Valve Control					
13-02A		C	1	0	(M) May be inoperative provided Bleed Air Isolation Valve is verified to operate normally.	
13-02B		C	1	0	(O) May be inoperative provided Bleed Air Isolation Valve is verified to operate normally.	
13-03	Ground Pneumatic Connector Check Valve					
13-03A		C	1	0	(M)(O) Except for ER operations beyond 120 minutes, may be inoperative open provided: <ul style="list-style-type: none"> a) Right pneumatic manifold remains depressurized after starting right engine, b) Airplane is not operated in known or forecast icing conditions, and c) Flight altitude remains at or below FL 250. 	
13-03B		C	1	0	May be inoperative closed.	
21-01	Bleed Air Duct Pressure Indications	C	2	0	(O) May be inoperative provided alternate procedures are established and used.	
21-02	Dual Bleed Light System	C	1	0	(O) May be inoperative provided: <ul style="list-style-type: none"> a) APU bleed air is not used in flight, and b) APU bleed air valve is verified closed before each departure. 	

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TABLE KEY

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2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

38. Water/Waste

Sequence No.	Item	1	2	3	4	Change Bar
10-01	Potable Water Systems					
10-01A		C	-	-	(M) Individual components may be inoperative provided: a) Associated components are deactivated or isolated, and b) Associated system components are verified not to have leaks. NOTE: Any portion of system that operates normally may be used.	
10-01B		C	1	0	(M) May be inoperative provided: a) System is drained, and b) Procedures are established to ensure that system is not serviced.	
30-01	Lavatory Waste System					
30-01A		C	-	-	(M) Individual components may be inoperative provided: a) Associated components are deactivated or isolated, and b) Associated system components are verified not to have leaks. NOTE: Any portion of system that operates normally may be used.	
(Continued)						

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TABLE KEY

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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

38. Water/Waste

Sequence No.	Item	1	2	3	4	Change Bar
30-01	Lavatory Waste System (Cont'd)					
30-01B		C	-	0	(M) Associated lavatory system may be inoperative provided: <ol style="list-style-type: none"> a) Associated components are deactivated or isolated to prevent leaks, and b) Associated lavatory door is secured closed and placarded "INOPERATIVE - DO NOT ENTER". <p>NOTE: These provisions are not intended to prohibit inspections by crewmembers.</p>	
30-01-01	Vacuum Blower	C	1	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Vacuum blower is deactivated, and b) Lavatories are not used on the ground or at flight altitudes below 16,000 ft. 	

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4. REMARKS OR EXCEPTIONS

46. Information Systems

Sequence No.	Item	1	2	3	4	Change Bar
13-01	Onboard Network System (ONS)					
13-01A		C	1	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Any function that operates normally may be used.	
13-01B		D	1	0	May be inoperative provided procedures do not require its use. NOTE: Any function that operates normally may be used.	
20-01 ***	Electronic Flight Bag (EFB) Systems					
20-01-01	EFB System (Installed EFB System)					
20-01-01A		C	-	-	(O) May be inoperative provided alternate procedures are established and used. NOTE: Any function, program, or document which operates normally may be used.	
20-01-01B		D	-	0	May be inoperative provided procedures do not require its use.	
20-01-02	Data Connectivity					
20-01-02A		C	-	-	(O) May be inoperative provided alternate procedures are established and used.	
20-01-02B		D	-	0	May be inoperative provided procedures do not require its use.	
(Continued)						

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4. REMARKS OR EXCEPTIONS

46. Information Systems

Sequence No.	Item	1	2	3	4	Change Bar
20-01 ***	Electronic Flight Bag (EFB) Systems (Cont'd)					
20-01-03	Power Supply/Power Connection					
20-01-03A		C	-	-	(O) May be inoperative provided alternate procedures are established and used.	
20-01-03B		D	-	0	May be inoperative provided procedures do not require its use.	
20-01-04	Mounting Device					
20-01-04A		C	-	-	(M)(O) May be inoperative provided: a) Associated EFB and hardware is stowed, secured by an alternate means, or removed from the aircraft, and b) Alternate procedures are established and used.	
20-01-04B		D	-	0	(M) May be inoperative provided: a) Associated EFB and hardware is stowed, secured by an alternate means, or removed from the aircraft, and b) Procedures do not require its use.	

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--	--

47. Inert Gas System

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Nitrogen Generation System (NGS)	A	1	0	(M) May be inoperative provided: a) NGS shutoff valve is deactivated closed, and b) Repairs are made within 10 flight-days.	
11-01-01	Nitrogen Generation Degraded	C	1	0		

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TABLE KEY

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49. Airborne Auxiliary Power

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Auxiliary Power Unit	C	1	0	(M) Except for ER operations, may be inoperative provided: a) APU switch remains OFF, b) Both engine driven generator systems operate normally, c) At least one engine bleed air shutoff valve (PRSOV) operates normally, and d) APU fuel shutoff valve is verified closed.	
15-01	APU Air Inlet Door					
15-01A		C	1	0	(M)(O) May be inoperative provided: a) Door is deactivated in flight open position, and b) Appropriate performance adjustments are applied.	
15-01B		C	1	0	(M) May be inoperative provided: a) Door is deactivated in closed position, and b) APU is considered inoperative.	
15-01C		C	1	0	(O) Except for ER operations, may be inoperative in any position ranging from closed position to flight open (17 degrees) position provided: a) APU is considered inoperative, and b) Appropriate performance adjustments are applied.	
15-01-01	APU Air Inlet DOOR Light System					
15-01-01A		C	1	0	May be inoperative for an inoperative APU air inlet door.	
15-01-01B		C	1	0	(M) May be inoperative provided APU air inlet door is verified to operate normally before each departure.	

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49. Airborne Auxiliary Power

Sequence No.	Item	1	2	3	4	Change Bar
40-01	Start Power Unit	C	1	0	(M) Except for ER operations, may be inoperative provided: a) Start power unit is deactivated, and b) APU is considered inoperative.	
40-01-01	AC/DC Start Systems	C	2	1		
40-02	Start Converter Unit	C	1	0	(M) Except for ER operations, may be inoperative provided: a) Start converter unit is deactivated, and b) APU is considered inoperative.	
40-02-01	Voltage Regulator Function	C	1	0	Except for ER operations, may be inoperative provided: a) Both engine driven generator systems operate normally, and b) APU generator is not used for electrical power. NOTE: APU may be used as a pneumatic source.	

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49. Airborne Auxiliary Power

Sequence No.	Item	1	2	3	4	Change Bar
52-01	APU Bleed Air System					
52-01A		C	1	0	(M) May be inoperative provided: a) APU bleed air valve is verified to be closed, and b) At least one of bleed system PRSOVs operates normally. NOTE: APU may be used to provide electrical power.	
52-01B		C	1	0	Except for ER operations, may be inoperative provided: a) Both engine driven generator systems operate normally, b) At least one of bleed system PRSOVs operates normally, and c) APU is not used.	
52-02	APU Surge Control System					
52-02A		C	1	0	May be inoperative provided: a) Surge control valve is in open position, b) At least one of bleed system PRSOVs operates normally, and c) APU bleed air is not used. NOTE: APU may be used to provide electrical power.	
52-02B		C	1	0	May be inoperative provided: a) Surge control valve is in closed position, and b) APU is considered inoperative.	

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<p>AIRCRAFT: B-737-7/-8/-8200/-9</p>	<p>TABLE KEY</p> <ol style="list-style-type: none"> 1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS
--	--

49. Airborne Auxiliary Power

Sequence No.	Item	1	2	3	4	Change Bar
70-01	APU FAULT Light	C	1	0		
70-02	APU LOW OIL PRESSURE Light	C	1	0	(O) May be inoperative provided APU automatic shutdown system is verified to operate normally.	
70-03	APU OVERSPEED Light	C	1	0	(O) May be inoperative provided APU automatic shutdown system is verified to operate normally.	

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TABLE KEY

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50. Cargo and Accessory Compartments

Sequence No.	Item	1	2	3	4	Change Bar
10-01	Lower Cargo Compartment Lining Panels and Floor Panels	C	-	-	(O) May be damaged or missing provided procedures are established and used to ensure associated compartment remains empty or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away Kits. NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.	
21-01 ***	Automatic Cargo Loading Systems	D	-	0	NOTE: Any portion of system(s) that operates normally may be used.	

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4. REMARKS OR EXCEPTIONS

50. Cargo and Accessory Compartments

Sequence No.	Item	1	2	3	4	Change Bar
21-02	Cargo Compartment Restraint Components					
21-02A		A	-	-	(M) May be inoperative or missing provided: a) Cargo-loading limits from the OEM Weight and Balance Manual are observed, and b) Repairs are made within 120 consecutive calendar-days.	
21-02B		A	-	-	May be inoperative or missing provided: a) Cargo compartment remains empty, and b) Repairs are made within 120 consecutive calendar-days.	
21-02C		A	-	-	Individual cargo areas may be inoperative provided: a) Aircraft is operated in accordance with the OEM Weight and Balance Manual, and b) Repairs are made within 120 consecutive calendar-days.	

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TABLE KEY

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4. REMARKS OR EXCEPTIONS

52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Left Main Cabin Door Pressure Stop Fittings					
11-01-01	Forward Entry Door	B	18	17	(M)(O) May be broken or missing provided: a) There are no visible defects on other fittings for associated door, b) Pressure differential does not exceed 6.0 psi, c) Cabin pressure control system AUTO or ALTN control mode operates normally, and d) Alternate procedures are established and used.	
11-01-02	Aft Door	B	14	13	(M)(O) One may be broken or missing provided: a) There are no visible defects on other fittings for associated door, b) Pressure differential does not exceed 3.4 psi, c) Cabin pressure control system AUTO or ALTN control mode operates normally, and d) Alternate procedures are established and used.	
11-02	Entry/Service Door Hold-Open Latch Assemblies					
11-02-01	Latch Release Lever	C	4	0		

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TABLE KEY

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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
22-01	Flight Lock System	C	-	0	(M)(O) May be inoperative provided: a) For inoperative flight lock(s), inputs to associated flight deck indications are deactivated, b) It is verified each associated exit is able to be unlatched and opened before each departure, and c) A person employed by operator is designated to remain seated in passenger seat nearest affected exit when cabin differential pressure is less than 4.0 psi.	
31-01	Lower Cargo Doors Pressure Stop Fittings					
31-01-01	Pressurized Flight	A	24	22	(M) Any one may be broken or missing on each door or frame provided: a) No defects are visible on other fittings for associated door, b) Cabin pressure controller AUTO mode operates normally, c) Adjacent stop fittings are inspected within 25 flights, and d) Not more than 50 flights are made before completion of repairs or replacements.	
(Continued)						

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3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Lower Cargo Doors Pressure Stop Fittings (Cont'd)					
31-01-02	Unpressurized Flight	C	24	20	(M)(O) Two may be broken or missing on each door or frame provided: <ol style="list-style-type: none"> a) Flight is conducted in an unpressurized configuration, b) Recirculation fan(s) operates normally, and c) Procedures are established and used to ensure lower cargo compartments remain empty or are verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away kits. <p>NOTE: Operator MELs must define which items are approved for inclusion in Fly Away Kits and which materials can be used as ballast.</p>	
31-02	Lower Cargo Doors Door Balance Mechanism	C	2	0	(M) May be inoperative provided a safety hold-open device is used when door is in open position.	
31-03	Lower Cargo Doors Hold-Open Device					
31-03A		C	2	0	May be inoperative provided associated door balance mechanism operates normally.	
31-03B		C	2	0	May be inoperative provided cargo compartment remains empty or items remaining are not accessed.	

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4. REMARKS OR EXCEPTIONS

52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
31-04	Cargo Door Exterior Handle Recess/Hinge Spring Assemblies	C	2	0	(M) May be inoperative or missing provided the affected cargo door exterior handle is secured in a recessed position flush with the fuselage.	
					NOTE: This MMEL item may be applied to an inoperative exterior handle recess spring/spring assembly and/or to an inoperative flapper door hinge spring assembly.	
51-01	Flight Deck Door Automatic Locking System	C	1	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Automatic locking system is deactivated, b) Door dead bolt operates normally and is used to lock door, and c) Alternate procedures are established and used for locking and unlocking door using dead bolt. 	
51-01-01	Flight Deck Access Panel System (Keypad, Door Chime)	C	1	0	(M)(O) May be inoperative provided: <ol style="list-style-type: none"> a) Keypad is deactivated, and b) Alternate procedures are established and used. 	
51-01-01-01	LEDs	C	3	0	(O) May be inoperative provided alternate procedures are established and used.	
51-01-01-02 ***	Door Bell Mode	C	1	0	(O) May be inoperative provided alternate procedures are established and used.	
51-01-01-03	Switch Guard	C	1	0	May be inoperative or missing provided flight deck door LOCK FAIL light operates normally.	
(Continued)						

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52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
51-01	Flight Deck Door Automatic Locking System (Cont'd)					
51-01-02	Flight Deck Door LOCK FAIL Light	C	1	0	(M) May be inoperative provided automatic lock controls are verified to operate normally.	
51-01-03	Flight Deck Door AUTO UNLK Light	C	1	0	(M) May be inoperative provided: a) Automatic lock controls are verified to operate normally, and b) Door chime operates normally.	
51-01-04	Flight Deck Door Lock Control Selector	C	1	0	(M)(O) May be inoperative provided: a) Keypad is deactivated, b) Automatic lock is verified to operate normally, and c) Alternate procedures are established and used.	
51-02	Flight Deck Door Dead Bolt	C	1	0	May be inoperative provided flight deck door automatic locking system operates normally.	
51-03	Flight Deck Door Pressure Relief Panels	A	2	0	May be inoperative provided: a) Panels are in latched position, and b) Repairs are made within 2 flight-days.	

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4. REMARKS OR EXCEPTIONS

52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
51-04	Flight Deck Door Viewing Port					
51-04A		A	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within 3 flight-days.	
51-04B		C	1	0	(O) May be inoperative provided: a) An electronic flight deck door visual surveillance system is installed and operates normally, and b) Alternate procedures are established and used.	
61-01 ***	Forward Air Stair	D	1	0	NOTE: Any mode that operates normally may be used.	
71-01	Door Warning Light System					
71-01-01	Entry and Service Doors	C	4	0	(M)(O) May be inoperative provided associated door is verified closed and latched before each departure. NOTE: If two or more entry/service door warning lights are inoperative due to failed door sensors, all flight lock systems are considered inoperative.	
71-01-02	Cargo and Access Doors	C	3	0	(M)(O) May be inoperative provided associated door is verified closed and latched before each departure, including pushing inward against the door.	
(Continued)						

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4. REMARKS OR EXCEPTIONS

52. Doors

Sequence No.	Item	1	2	3	4	Change Bar
71-01	Door Warning Light System (Cont'd)					
71-01-03 ***	Airstair Door	C	1	0	(M) May be inoperative provided associated door is verified closed and latched before each departure.	
71-01-04	Overwing Doors	C	4	0	(M)(O) Individual light indication may be inoperative provided: a) Each associated exit is verified closed and latched before each departure, and b) Associated flight lock is verified to operate normally.	
71-01-05 ***	Mid-Cabin Doors (737-8200/-9)	C	2	0	(M)(O) Individual light indication may be inoperative provided: a) Each associated exit is verified closed and latched before each departure, and b) Associated flight lock is verified to operate normally.	
71-02	Door Programming Pin Fault	C	1	0		

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4. REMARKS OR EXCEPTIONS

71. Powerplant

Sequence No.	Item	1	2	3	4	Change Bar
11-01 ***	Fan Cowl Latch Indication Systems (Upon Incorporation of Boeing Service Bulletin 737-71-1894 or Production Equivalent)	D	2	0	(M) May be inoperative provided the associated fan cowl latch indication system blade(s) is removed.	

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4. REMARKS OR EXCEPTIONS

73. Engine Fuel and Control

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Engine Fuel Strainer Sensors	C	2	1		
21-01	Electronic Engine Control (EEC) Normal Mode				Deleted, Revision 3.	
30-01	Fuel Control ENG VALVE CLOSED Indicating System	C	2	0	(M) May be inoperative provided associated valve is verified to operate normally.	
31-01	Fuel Flow Indications	C	2	1	May be inoperative provided flight deck fuel quantity indicating systems operate normally.	
34-01	Fuel Filter Bypass Indication Systems					
34-01-01	Engine Main Fuel/Oil Heat Exchanger Sensors	C	2	0	May be inoperative provided associated engine fuel filter sensor operates normally.	
34-01-02	Engine Fuel Filter Sensors	C	2	0	May be inoperative provided associated engine fuel/oil heat exchanger sensor operates normally.	

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4. REMARKS OR EXCEPTIONS

74. Ignition

Sequence No.	Item	1	2	3	4	Change Bar
00-01	Ignition Systems					
00-01-01	Left Ignition Systems					
00-01-01A		B	2	1	(O) May be inoperative provided: a) Ignition select switch remains in BOTH position, and b) Right ignition systems operate normally.	
00-01-01B		C	2	0	(O) Except for ER operations, may be inoperative provided: a) Ignition select switch remains in BOTH position, and b) Associated engine right ignition system operates normally.	
00-01-02	Right Ignition Systems					
00-01-02A		B	2	1	(M)(O) May be inoperative provided: a) Associated engine left ignition system is connected to standby power, b) Left ignition systems operate normally, and c) Ignition select switch remains in BOTH position.	
00-01-02B		C	2	0	(M)(O) Except for ER operations, may be inoperative provided: a) Associated engine left ignition system is connected to standby power, b) Associated engine left ignition system operates normally, and c) Ignition select switch remains in BOTH position.	

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4. REMARKS OR EXCEPTIONS

75. Bleed Air

Sequence No.	Item	1	2	3	4	Change Bar
23-01 ***	EEC Cooling Systems	D	-	0	(M) May be inoperative provided associated fans are deactivated off.	
23-02	Modulated Turbine Cooling (MTC) Systems	C	2	0	(M)(O) May be inoperative provided: a) At least one MTC valve for the inoperative MTC system is locked open, and b) Appropriate performance adjustments are applied.	
24-01	Turbine Case Cooling Air Flow Systems					
24-01-01	High Pressure Turbine Active Clearance Control (HPTACC) Valves	C	2	0	(M)(O) May be inoperative provided: a) Inoperative HPTACC valve is locked in the closed position, b) Both EECs operate in the normal mode, and c) Appropriate performance adjustments are applied.	

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<p>AIRCRAFT: B-737-7/-8/-8200/-9</p>	<p>TABLE KEY</p> <ol style="list-style-type: none"> 1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS
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77. Engine Indicating

Sequence No.	Item	1	2	3	4	Change Bar
21-01	Abnormal Start Indication Systems	C	2	0		
31-01	Engine Vibration Indications	C	2	1		

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<p>AIRCRAFT: B-737-7/-8/-8200/-9</p>	<p>TABLE KEY</p> <ol style="list-style-type: none"> 1. REPAIR CATEGORY 2. NO. INSTALLED 3. NO. REQUIRED FOR DISPATCH 4. REMARKS OR EXCEPTIONS
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78. Engine Exhaust

Sequence No.	Item	1	2	3	4	Change Bar
31-01	Thrust Reverser Systems	C	2	1	(M)(O) May be inoperative provided: a) Inoperative reverser is secured in the forward thrust position, and b) Appropriate performance adjustments are applied.	
34-01	Reverse Thrust Lever Interlocks					
34-01A		C	2	1	May be inoperative released.	
34-01B		C	2	1	(O) May be inoperative not released provided appropriate performance adjustments are applied.	
36-01	REVERSER LIMITED Lights (Aft Overhead Panel)	C	2	1	May be inoperative provided associated reverser is considered inoperative.	

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AIRCRAFT:
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TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

79. Engine Oil

Sequence No.	Item	1	2	3	4	Change Bar
21-01	Engine Oil Debris Monitoring System (ODMS)	C	2	1	(M) May be inoperative provided: <ol style="list-style-type: none"> a) Malfunction is verified to be in the associated engine oil debris monitoring system, and b) Associated engine oil filter bypass warning system operates normally. 	
21-01-01	Engine Oil Debris Monitoring System (ODMS) Sensor	C	2	1	May be inoperative provided associated engine oil filter bypass warning system operates normally.	
31-01	Oil Quantity Indication Systems	B	2	1	(M) Except for ER operations, may be inoperative provided: <ol style="list-style-type: none"> a) Oil tank is filled to maximum recommended capacity at each refueling, and b) There is no evidence of above normal oil consumption or leakage. 	
35-01	Oil Filter Bypass Warning Systems	C	2	1	May be inoperative provided associated engine ODMS, including ODMS sensor, operates normally. NOTE: An inoperative oil filter bypass warning system is indicated by status message ENG 1 OIL FILTER SENSOR or ENG 2 OIL FILTER SENSOR for the associated engine.	

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AIRCRAFT:
B-737-7/-8/-8200/-9

TABLE KEY

1. REPAIR CATEGORY
2. NO. INSTALLED
3. NO. REQUIRED FOR DISPATCH
4. REMARKS OR EXCEPTIONS

80. Starting

Sequence No.	Item	1	2	3	4	Change Bar
11-01	Starter Valve Open Alerts	C	2	1	(O) May be inoperative provided: a) Associated engine start valve operates normally, and b) Flightcrew verify associated start valve is closed after engine start.	
11-02	Engine Start Switch Ground Hold/Cutout Systems	C	2	0	(O) May be inoperative provided alternate start procedures are established and used.	
11-03	Engine Start Valves	C	2	1	(M)(O) Except for ER operations, may be inoperative provided: a) Associated start valve open alert operates normally, and b) Alternate start procedures are established and used.	