



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

Master Minimum Equipment List (MMEL)

Revision: 8
Date: 01/05/2017

AIRBUS HELICOPTERS DEUTSCHLAND GmbH **MBB-BK 117 A-1, A3, A-4, B-1, B-2, C-1** **(TCDS H13EU)**

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TABLE OF CONTENTS AND CONTROL PAGE

Note: All pages reflect Revision 8, but not all pages contain changes. Updates to MMEL JASC items will be reflected by the vertical change bar (|) on the right side of the row.

JASC CODE	SYSTEM CHAPTER	PAGE NO.	REV NO.	DATE
--	Table of Contents and Control Page	I	8	01/05/2017
--	Log of Revisions	II	8	01/05/2017
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--	Definitions and Preamble	XIII	8	01/05/2017
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21	Air Conditioning	21-1 thru 21-2	8	01/05/2017
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25	Equipment/Furnishings	25-1 thru 25-6	8	01/05/2017
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32	Landing Gear	32-1	8	01/05/2017
33	Lights	33-1 thru 33-4	8	01/05/2017
34	Navigation	34-1 thru 34-13	8	01/05/2017
35	Oxygen	35-1	8	01/05/2017
52	Doors	52-1	8	01/05/2017
63	Main Rotor Drive	63-1 thru 63-2	8	01/05/2017
67	Rotor Flight Controls	67-1	8	01/05/2017
71	Powerplant	71-1	8	01/05/2017
76	Engine Controls	76-1	8	01/05/2017
77	Engine Indicating	77-1	8	01/05/2017
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Log of Revisions

Rev No.	Date	Page Numbers
ORIGINAL	03/14/1984	
1	12/17/1988	Complete.
2	09/16/1988	Complete.
3	04/13/1989	Pages 21-1, 22-1, 24-12, 25-1, and 25-2.
4	08/07/1989	All Pages (ABC).
4a	01/23/1992	Highlights of Rev., Definitions, Preamble, 25-1, 28-1, 30-1, and 34-1.
4b	09/06/1994	Highlights of Rev., Definitions, Guidelines, and 31-1.
4c	02/14/1995	Highlights of Rev., Definitions, and 73-1.
4d	02/05/2001	Highlights of Rev., Definitions, and 34-2.
5	05/01/2003	Highlights of Rev., Definitions, Guidelines, 34-2, and 73-1.
6	09/22/2004	Highlights of Rev., Definitions, and 34-4.
7	05/08/2008	Highlights of Rev., Definitions, Guidelines, 25-2, 28-1, and 33-1.
8	01/05/2017	Cover Page, Table of Contents and Control Page, Highlights of Change, Definitions and Preamble, Guidelines, 21-1, 21-2, 22-1, 22-2, 22-3, 22-4, 23-1, 23-2, 23-3, 23-4, 24-1, 24-2, 25-1, 25-2, 25-3, 25-4, 25-5, 25-6, 26-1, 28-1, 28-2, 30-1, 30-2, 31-1, 31-2, 31-3, 31-4, 32-1, 33-1, 33-2, 33-3, 33-4, 34-1, 34-2, 34-3, 34-4, 34-5, 34-6, 34-7, 34-8, 34-9, 34-10, 34-11, 34-12, 34-13, 35-1, 52-1, 63-1, 63-2, 67-1, 71-1, 76-1, 77-1, 79-1.

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HIGHLIGHTS OF CHANGE		

This Master Minimum Equipment List (MMEL) has been reformatted in compliance with the Federal Aviation Administration, Joint Aircraft System/Component (JASC) Code Table, and Definitions are available for download or viewing at:

[Joint Aircraft System/Component \(JASC\) Code Table, and Definitions.](#)

This replaces the former Airline Transport Association (ATA) coding used in previous documents. JASC Coding is a four-digit number format, and as the title suggests, it contains a System Code and a Component Code. The first two digits are the System Code, which is similar to ATA Coding for their first two numbers. The last two digits in the JASC Code are the Component Code, which defines the specific component. The item number is a sequential number given for additional Components with the same JASC Code.

Example: JASC Code 2410, where Code 24 represents the “Electrical Power” system, and Component Code 10 represents the “Alternator-Generator Drive” system.

Page	JASC Item	Explanation of Change
I		Updated Cover Page and Log of Revisions to reflect Revision 8.
II		Combined Table of Contents and Control Page to reflect Revision 8.
III-IX		Updated Highlights of Change to reflect Revision 8.
X		Added location of Policy Letters (PL) to Definitions and combined with Preamble.
XI	-	Guidelines will be published by the aircraft manufacturer.
21-1	2100-01	Added relief for air conditioning system.
21-1	2100-02	DELETED Freon A/C relief, since already addressed in item 2100-01.
21-1	2120-01	Revised description.
21-1	2120-02	Added relief for adjustable air outlet.
21-1	2121-01	Revised description and provisos and added (M) procedure.
21-1	2121-02	Revised proviso (added degree symbol).
21-2	2140-01	Revised provisos.

NOTE 1: (PL-119) This MMEL also incorporates relief for Part 91 operations.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
21-2	2140-02	Revised remarks (added "F" equivalency).
22-1	2200-01	Added relief for transport category aircraft with two or more autopilots IAW PL-101.
22-1	2210-01	Revised proviso (added par. a-c).
22-1	2210-02	Revised provisos (added par. a-c).
22-1	2210-03	Revised provisos.
22-2	2210-04	Added relief for AP1 only.
22-2	2210-05	Added relief for AP2 only.
22-3	2210-06	Revised provisos.
22-3	2210-07	Added relief for DAFCS TRIM.
22-3	2210-08	Added relief for DAFCS RATE GYRO.
22-4	2210-09	Added relief for 4-way beep trim system.
22-4	2210-10	Added relief for FTR system.
22-4	2210-11	Revised description and provisos.
23-1	2300-01	Added (**); revised description (MOVED HF relief to item 2310-01, UHF to 2311-01, and VHF to 2312-01); and added note to remarks.
23-1	2300-02	Revised description (separated cockpit from cabin ICS) and revised proviso (changed single to one pilot, so not to be confused with single pilot air carrier certification).
23-1	2300-03	Revised description (separated cabin from cockpit ICS) and added proviso.
23-1	2300-04	Added relief for flightcrew headset(s).
23-2	2300-05	Added relief for passenger headset(s).
23-2	2310-01	Revised description and provisos IAW PL-106.
23-2	2310-02	Added relief for SATCOM.
23-2	2311-01	Revised relief for UHF communications systems IAW PL-95; moved from item 2300-01.
23-3	2312-01	Revised relief for VHF communications systems IAW PL-95; moved from item 2300-01.
23-3	2312-02	Added relief for FM communications systems.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
23-3	2340-01	Added proviso and (M) procedure.
23-3	2340-02	DELETED telephone relief, since US STC data could not be found.
23-3	2350-01	Added relief for aural warning generator.
23-3	2350-02	Added relief for voice alert device.
23-4	2370-01	Added relief for CVR with FDR IAW PL-29.
23-4	2370-02	Added relief for CVR without FDR IAW PL-29.
23-4	2370-03	Added relief for CVR for other than air carrier IAW PL-29.
24-1	2434-01	DELETED Emergency Power supply since not in accordance with PL-63.
24-1	2437-01	Revised provisos (added par. a-b).
24-1	2437-02	Revised remarks (updated item numbers to reflect JASC).
24-1	2440-01	Revised proviso (added EPU door and removed procedure).
24-1	2440-02	Revised proviso (removed procedure).
24-2	2450-01	Added relief for repair category A and revised provisos.
24-2	2450-02	Added relief for repair category A and revised provisos.
24-2	2450-03	Revised provisos and added (M) procedure.
24-2	2450-04	Added (M) procedure.
24-2	2450-05	Revised description (combined gen 1 and 2).
25-1	2500-01	Removed PL-116 reference, since removed from FSIMS.
25-1	2500-02	Added relief for FLIR type systems.
25-1	2510-01	Added relief for the copilot seat.
25-1	2510-02	Revised proviso.
25-1	2510-03	Added relief for crew seat vertical adjustment.
25-2	2510-04	Added relief for fabric glare shield.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
25-2	2510-05	Added relief for sun shade.
25-2	2510-06	Added relief for headset holder.
25-2	2510-07	Added relief for map case.
25-2	2510-08	Added relief for chart holder.
25-2	2510-09	Added relief for cockpit curtain.
25-3	2510-10	Added relief for printed supplemental safety information IAW PL-125.
25-3	2520-01	Added relief for passenger seats IAW PL-79.
25-3	2520-02	Revised description (added relief for shoulder harness); added repair cat-C relief and added (M) procedure for cat-D.
25-3	2550-01	Added relief for cargo net.
25-3	2550-02	Added relief for cargo restraint systems IAW PL-100.
25-4	2550-03	Revised proviso and added (M) procedure.
25-4	2550-04	Added relief for cargo hook mirror system.
25-4	2550-05	Added relief for fixed provisions for bambi bucket.
25-4	2550-06	Revised description (added external hoist and L/R winch); added provisos and (M) & (O) procedures.
25-4	2560-01	Added relief for survival equipment.
25-4	2560-02	Added relief for flotation equipment.
25-4	2560-03	MOVED helicopter flotation devices relief to item 3212-01.
25-4	2560-04	DELETED litter adapter system relief, since already addressed in item 2560-05.
25-5	2560-05	Revised description (EMS to HAA) provisos and added (M) procedure.
25-5	2560-06	Added relief for wire strike protection system.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
25-5	2560-07	DELETED flare system relief, since US STC could not be found.
25-5	2560-08	MOVED zipper relief to item 7930-01.
25-5	2560-09	MOVED sand filter relief to item 7160-01.
25-5	2560-10	Added relief for First Aid Kit (FAK) IAW PL-73.
25-6	2562-01	Revised ELT relief IAW PL-120.
25-6	2562-02	Added relief for ADELTA.
25-6	2562-03	Added relief for ELT remote switch.
25-6	2562-04	Added relief for ULB.
26-1	2610-01	Revised proviso.
26-1	2622-01	Added relief for potable fire extinguisher IAW PL-75.
27-1	2700-01	MOVED cyclic stick lock relief to item 6700-01, since JASC 27 is for airplanes only.
27-1	2700-02	MOVED copilot's cyclic trim control relief to item 6700-02.
27-1	2700-03	MOVED collective pitch lock relief to item 6700-03.
28-1	2810-01	Added (***) and changed repair cat-C to D.
28-1	2810-02	Added relief for extended range fuel tank system.
28-1	2822-01	Changed repair cat-C to D and revised provisos.
28-1	2824-01	Revised provisos and added note.
28-2	2830-01	Added proviso and (M) procedure.
28-2	2840-01	Added relief for MAIN TK PUMP caution lights.
28-2	2841-01	Added relief for main fuel tank quantity indicator.
28-2	2841-02	Added relief for supply tank quantity indicator.
28-2	2841-03	Revised description (added I/II) and revised provisos.
30-1	3030-01	Revised description (added copilot and pilot after SB) and revised proviso.
30-1	3030-02	Added relief for PITOT 1 and 2 or PITOT HEAT CP&P advisory light.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
30-1	3030-03	Added relief for PITOT HEATER 1 and 2 caution light.
30-1	3030-04	Revised description (added copilot and pilot before S/N).
30-1	3030-05	Added relief for static port heater copilot.
30-2	3030-06	Added relief for static port heater pilot.
30-2	3040-01	Changed repair cat-C to D and revised proviso (changed single pilot to one pilot, so not to be confused with single pilot air carrier cert.)
31-1	3100-01	Added relief for EFS 50.
31-1	3100-02	DELETED elapsed timer relief since already addressed in item 3120-01.
31-1	3100-03	Added relief for Garmin G500H flight display system.
31-1	3110-01	Moved from item 34-28.
31-2	3110-02	Added relief for EFBs IAW PL-121.
31-3	3120-01	Revised proviso (changed to 14 CFR).
31-3	3120-02	Added provisos and (M) & (O) procedures.
31-4	3130-01	Revised relief for FDR for an air carrier IAW PL-87.
31-4	3130-02	Revised relief for FDR for other than an air carrier IAW PL-87.
31-4	3130-03	MOVED CVR relief to items 2370-01 thru 2370-03.
32-1	3212-01	Revised description (replaced helicopter flotation devices with emergency flotation system); revised proviso and added (M) procedure; moved from item 2560-03.
32-1	3212-02	Added relief for snow skids.
32-1	3212-03	Added relief for settling protectors.
33-1	3300-01	Added relief for NVIS IAW PL-127.
33-1	3310-01	Revised relief for cockpit instrument lighting system IAW PL-77.
33-2	3310-02	Added relief for cockpit utility light.
33-2	3320-01	Added equipment relief without passengers IAW PL-125.
33-2	3320-02	Added (**); revised description (added cabin) and revised proviso.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
33-2	3320-03	Added (**); revised description (added cockpit) and revised proviso.
33-3	3320-04	Revised provisos.
33-3	3330-01	Added relief for utility light.
33-3	3340-01	Revised proviso (changed to 14 CFR).
33-3	3340-02	Added relief for position light system IR flasher.
33-3	3340-03	Revised proviso (changed to 14 CFR).
33-3	3340-04	Added relief for formation lights
33-3	3340-05	Added relief for pulse lights.
33-3	3340-06	Revised description (combined landing light with search light and IR function; removed controllable and fixed) and revised proviso.
33-3	3340-07	Added relief for SR-16 search light.
33-3	3340-08	Added relief for tail flood light.
33-4	3340-09	Changed repair cat-C to D and revised proviso.
33-4	3340-10	Added relief for stairway light.
33-4	3340-11	Added relief for HEELS.
33-4	3340-12	Added relief for step light.
33-4	3340-13	Added relief for recognition light system.
33-4	3340-14	Changed repair cat-C to D.
33-4	3340-15	Changed repair cat-C to D.
33-4	3350-02	Added relief for flashlight(s).
34-1	3400-01	MOVED VOR relief to item 3454-01, ILS to 3430-01, ADF to 3455-01, GPS to 3457-01, localizer to 3431-01, glideslope to 3432-01, and LORAN to 3453-01.
34-1	3413-01	Revised provisos.

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
34-1	3414-01	Revised description (separated one and dual pilot) and revised provisos, to include CAT-A operations.
34-2	3416-01	Revised proviso and added repair cat-C for 14 CFR.
34-2	3421-01	Added relief for alternate static pressure.
34-2	3421-02	Revised description (removed gyroscopic) and revised proviso.
34-2	3421-03	Added (**); revised description (removed gyroscopic); revised proviso and added repair cat-C for 14 CFR.
34-2	3422-01	Added (**); revised description (removed gyroscopic); revised proviso and added repair cat-C for 14 CFR.
34-2	3423-01	Added (**); revised proviso and added repair cat-C for 14 CFR.
34-2	3424-01	Added (**); revised description (removed gyroscopic); revised proviso and added repair cat-C for 14 CFR.
34-3	3424-02	Added (**); revised proviso and added repair cat-C for 14 CFR.
34-3	3431-01	Revised proviso (changed to 14 CFR).
34-3	3432-01	Revised proviso (changed to 14 CFR).
34-3	3442-01	Moved (***) from description to item number.
34-3	3444-01	Revised provisos.
34-3	3444-02	Added relief for HTAWS (class A-C) IAW PL-54.
34-7	3445-01	Added relief for TCAS I and II IAW PL-32
34-9	3445-02	Revised description (moved TCAS to 3445-01); changed repair cat-C to D and revised proviso (changed to 14 CFR).
34-9	3451-01	Added relief for DME IAW PL-03.
34-9	3451-02	MOVED flight director relief to item 2210-12.
34-9	3452-01	Combined ATC transponders and altitude reporting relief IAW PL-76.
34-10	3452-02	Added relief for ADS-B

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HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
34-11	3454-01	Added relief for LORAN; moved from 3400-01.
34-11	3455-01	Updated proviso (changed to 14 CFR); moved VOR from 3400-01.
34-11	3457-01	Updated proviso (changed to 14 CFR); moved ADF from 3400-01.
34-11	3457-01	Updated proviso (changed to 14 CFR); moved GPS from 3400-01.
34-11	3457-02	Added relief for GPS terminal procedures database.
34-12	3457-03	Added relief for GPS aviation database.
34-12	3457-04	Added relief for GPS obstacle database.
34-12	3457-05	Added relief for GPS airport information database.
34-12	3457-06	Added relief for GPS navigation database.
34-12	3457-07	Added relief for RNAV.
34-12	3457-08	Added relief for XM weather.
34-12	3457-09	Revised description (combined weather radar and thunderstorm detection equipment) and revised proviso (changed to 14 CFR).
34-13	3461-01	Added relief for FMS and NMS IAW PL-98,
35-1	3510-01	Added relief for oxygen system and masks.
52-1	5210-01	Added relief for external door indicating system.
63-1	6310-01	Revised description (changed to XMSN) and updated provisos.
63-1	6310-02	Revised description (changed to XMSN and TEMP) and updated provisos.
63-1	6310-03	Revised description (changed to XMSN) and updated provisos.
63-1	6310-04	Revised description (changed to XMSN and PRESS) and updated provisos.
63-1	6320-01	Revised proviso.
63-2	6330-01	Changed repair cat-C to D, updated provisos and added (M) & (O) procedures.

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 XII

HIGHLIGHTS OF CHANGE

Page	JASC Item	Explanation of Change
67-1	6700-01	Changed repair cat-C to D and added proviso; moved from item 2700-01.
67-1	6700-02	Changed repair cat-C to D and revised proviso; moved from item 2700-02.
67-1	6700-03	Changed repair cat-C to D and added proviso; moved from item 2700-03.
67-1	6700-04	Added relief for FTR system with DAFCS installed.
71-1	7160-01	Added relief for sand filter system.
76-1	7600-01	Revised description (changed N2 to engine) and revised proviso.
76-1	7600-02	Revised description (added BK117 C-1 only) and revised provisos.
77-1	7714-02	DELETED N1 tachometer, by request of ABH.
77-1	7720-01	Revised proviso and added (M) procedure.

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DEFINITIONS AND PREAMBLE		

DEFINITIONS

The Definitions must be inserted here in each Minimum Equipment List (MEL) from current FAA MMEL Policy Letter PL-25.

The 14 CFR Regulatory requirements applicable to specific MMEL chapters can be found in PL-25, Appendix A. Regulatory requirements must be incorporated into specific MEL relief by the MEL user in accordance with the kinds of operations being conducted by the user.

PREAMBLE

The applicable preamble must be inserted here in each Minimum Equipment List (MEL) from current FAA MMEL Policy Letter PL-34, MMEL AND MEL PREAMBLE, or FAA MMEL Policy Letter PL-36, 14 CFR Part 91 MEL APPROVAL.

[Current Policy Letters](#) may be found on the Flight Standards Information Management System (FSIMS) website.

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GUIDELINES FOR (M) & (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. If recommended procedures are not published, the following guidelines delineate the aspects to be considered by the operator in the development of required procedures:

Guidelines for (M) & (O) Procedures should be based on the Maintenance and Operational Procedures for the Minimum Equipment List MBB-BK 117 A-1, A3, A-4, B-1, B-2, C-1 (M) & (O) Procedures, published by the aircraft manufacturer.

MMEL TABLE KEYJASC
CODE &
ITEM NO.

ITEM

1. REPAIR CATEGORY

2. NUMBER INSTALLED

3. NUMBER REQUIRED FOR DISPATCH

4. REMARKS OR EXCEPTIONS

21. AIR CONDITIONING

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2100-01 ***	Air Conditioning System	D	-	0	(M) May be inoperative provided system is deactivated and secured.	
2100-02 ***	Freon Air Conditioning	C	-	0	DELETED (see item 2100-01).	
2120-01	Lower Cockpit Fresh Air Vent (Below Instrument Panel)	C	2	1	Copilot's lower cockpit fresh air vent may be inoperative.	
2120-02	Adjustable Air Outlet in Instrument Panel	C	2	1	Copilot's adjustable air outlet in instrument panel may be inoperative.	
2121-01	Ventilation Blower (Pilot/Copilot)	C	1	0	(O) May be inoperative provided: a) Bleed air heating system is not required for defrosting/defogging, b) Flight is not conducted in visible moisture, c) NACA inlets are open (PULL FOR AIR knob pulled), d) Bleed Air Heater or Bleed Air ECU is operative, and e) RFM limitations are followed. (M) VENT FAN R & VENT FAN CKPT switches are OFF.	
2121-02	Bleed Air ECU	C	-	0	(M) May be inoperative above +5 degrees C (41 degrees F) outside air temperature provided: a) Pilot's Vent Blower is operative, and b) System is deactivated and secured.	

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21. AIR CONDITIONING

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2140-01	Bleed Air Heating System	C	-	0	<p>(O) May be inoperative provided:</p> <ul style="list-style-type: none"> a) Bleed air heating system is not required for defrosting/defogging, b) Flight is not conducted in visible moisture, and c) Pilot's air vent blower is operative. <p>(M) System is deactivated/secured: HTR CONT on overhead panel.</p>	
2140-02 ***	Cold Weather Kit Heater Fan (Kit 117-800181)	D	-	0	<p>May be inoperative above -35 degrees C (-31 degrees F) OAT.</p>	

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22. AUTOFLIGHT

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2200-01 (PL-101)	Transport Category Aircraft with Two or More Autopilots Installed (AFCS)	C	-	1	May be inoperative where operations do not require its use.	
2210-01 ***	Yaw CSAS (Control Stabilization Augmentation System)	C	-	0	May be inoperative for VFR provided: a) Computer is not removed, b) YAW SBY set on the yaw sequence switch on the CSAS control panel prior to takeoff, and c) ARM is set prior to takeoff.	
2210-02 ***	Three Axis CSAS (Control Stabilization Augmentation System)	C	-	0	(O) May be inoperative for VFR provided: a) Pitch and roll axes are deactivated by pitch control switch on CSAS control panel, b) YAW SBY is set on the yaw sequence switch on CSAS control panel prior to takeoff, and c) P/R CSAS computer is deactivated.	
2210-03	Stick Position Augmentation System (SPAS)	C	1	0	(M) May be inoperative provided: a) System is deactivated by SPAS/TEST/ON/OFF/RESET switch on the extended center console, and b) System is deactivated. (O) V _{NE} is reduced 15 knots according to RFM, and OAT is above -35 degrees C (-31 degrees F).	

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22. AUTOFLIGHT (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2210-04 ***	Digital Automatic Stabilization Flight Control System (DAFCS) AP1	C	1	0	(M) May be inoperative for VFR and dual pilot IFR provided: <ul style="list-style-type: none"> a) Autopilot has been deactivated by push button AP1 on autopilot controller, b) AP2 is operative and engaged, c) AP1 is deactivated, and d) Flight controls must be guarded for dual IFR, and airspeed set below V_{NE} minus 15 knots. 	
2210-05	Digital Automatic Stabilization Flight Control System (DAFCS) AP2	C	1	0	(M) May be inoperative provided: <ul style="list-style-type: none"> a) Autopilot has been deactivated by push button AP2 on autopilot controller, b) AP1 is operative and engaged, c) Autopilot computer 2 is deactivated, and d) Airspeed set below V_{NE} minus 15 knots. 	

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22. AUTOFLIGHT (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2210-06 ***	Digital Automatic Stabilization Flight Control System (DAFCS) AP1 and 2	C	-	0	(M) May be inoperative for VFR provided: a) Autopilot is disengaged by push button AP1 and AP2 on autopilot controller, and b) Autopilot is deactivated. (O) Flight controls are guarded, and airspeed remains below V _{NE} minus 15 knots.	
2210-07 ***	Digital Automatic Stabilization Flight Control System (DAFCS) TRIM	C	-	0	(O) May be inoperative for VFR provided the flight controls are guarded.	
2210-08 ***	Digital Automatic Stabilization Flight Control System (DAFCS) RATE GYRO with or without AP1	C	-	0	(O) May be inoperative for VFR provided the flight controls are guarded.	

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22. AUTOFLIGHT (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2210-09	4-Way Beep Trim System	B	1	0	(M) May be inoperative provided: a) SAS is engaged by push button SAS on autopilot controller, b) FTR system is operative, and c) System is deactivated and secured.	
2210-10 ***	Force Trim Release (FTR) System	B	-	0	(O) May be inoperative provided: a) 4-way beep trim is system is operative, and b) DAFCS is disengaged by push button AP1 and AP2 on autopilot controller.	
2210-11 ***	Flight Director System	C	2	0	One or both may be inoperative provided: a) Altitude hold and heading hold modes are not required by 14 CFR, and b) System is on standby mode by push button SBY on flight director mode selector or by push button FD SBY on cyclic stick.	

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23. COMMUNICATIONS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2300-01 ***	Communications Systems (FM)	D	-	0	May be inoperative provided operations do not require its use. NOTE: HF moved to 2310-01, UHF to 2311-01, and VHF to 2312-01.	
2300-02	Cockpit Intercom System (ICS)	D	-	1	(O) May be inoperative for one pilot operation provided: a) Flight is conducted under VFR, b) ICS backup mode is operative, and c) An alternate procedure is established and used to notify passengers/cabin occupants.	
2300-03	Cabin ICS	D	-	0	May be inoperative provided: a) No divider is installed between the cabin and cockpit, b) At least one crewmember in the cabin is connected to the cockpit intercom system (e.g., through the WINCH connector), and c) No occupants are carried in the cabin. (O) An alternative procedure is established and used to notify passengers/cabin occupants.	
2300-04	Headset (Flightcrew)	C	-	1	Any in excess of one headset for each required cockpit crewmember or hoist/cargo hook operator on duty may be inoperative or missing. NOTE: Spare headset must be available and operative for one pilot IFR operations.	

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23. COMMUNICATIONS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2300-05	Headset (Passengers)	D	-	0	May be inoperative or missing provided an alternate procedure is established and used to notify passengers.	
2310-01 *** (PL106)	High Frequency Communication System (HF)	D C	- -	- 1	Any in excess of those required by 14 CFR may be inoperative. (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) The 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. 	
2310-02 ***	Satellite Tracking or Satellite Phone System(s)	D	-	-	As required by 14 CFR. NOTE: SATCOM is used as a backup to normal HF communications unless otherwise authorized by the Appropriate ATC facilities.	
2311-01 *** (PL-95)	Communications Systems (UHF)	D	-	-	Any in excess of those required by 14 CFR may be inoperative provided it is not powered by the Emergency AC Bus, Emergency DC Bus, Battery Bus, Battery Direct Bus, or the DC Transfer Bus and not required for emergency procedures.	

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23. COMMUNICATIONS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2312-01 *** (PL-95)	Communications Systems (VHF) 1) VHF Communication Control Panels a) Frequency Transfers Light b) Frequency Transfer Switch c) Frequency Selector Knob d) Frequency Indication	D	-	-	Any in excess of those required by 14 CFR may be inoperative provided it is not powered by the Emergency AC Bus, Emergency DC Bus, Battery Bus, Battery Direct Bus, or the DC Transfer Bus and not required for emergency procedures.	
2312-02 ***	Communications Systems (FM)	D	-	-	May be inoperative provided operations do not require its use.	
2340-01	External Loudspeaker	C	-	0	(M) May be inoperative provided the inoperative system is deactivated and secured.	
2340-02	Telephone	C	-	0	DELETED.	
2350-01 ***	Aural Warning Generator	C	-	-		
2350-02 ***	Automatic Voice Alert Device	C	-	-		

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23. COMMUNICATIONS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2370-01 *** (PL-29)***	Cockpit Voice Recorder (CVR) (Aircraft with a Flight Data Recorder Installed)	A	1	0	May be inoperative provided: a) Flight Data Recorder (FDR) operates normally, and b) Repairs are made within 3 flight days	
	Independent Power Source	C	1	0		
2370-02 *** (PL-29)	Cockpit Voice Recorder (CVR) (Aircraft without a Flight Data Recorder Installed).	A	1	0	May be inoperative provided repairs are made within 3 flight days.	
	*** Independent Power Source	C	1	0		
2370-03 *** (PL-29)	Cockpit Voice Recorder (CVR) Installed for an Operator Other Than a Holder of an Air Carrier or Commercial Operator Certificate	A	1	0	May be inoperative provided repairs are made in accordance with applicable 14 CFRs.	
	*** Independent Power Source	C	1	0		

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24. ELECTRICAL POWER

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2432-01	Battery(s)	C	-	1	(M) One battery may be inoperative provided a dual battery system is installed, and inoperative battery is deactivated and secured.	
2434-01	Emergency Power Supply (for Standby Attitude Indicator)				DELETED. Revision 8	
2437-01	Generator	A	2	1	(M) One may be inoperative for 3 consecutive days for other than night VFR provided: a) Electrical load is reduced to single generator capacity, b) Ammeter and Voltmeter indication of the operative generator are both working, and c) Inoperative Generator is deactivated and secured.	
2437-02	Battery Discharge Warning Light	C	1	0	May be inoperative for VFR provided both generators (Item 2437-01) and respective ammeter (Item 2450-01) and voltmeter indications (Item 2450-02) are operative.	
2440-01	EPU (External Power Unit) Caution Light	C	1	0	(M) May be inoperative provided EPU is disconnected and EPU door closed prior to flight.	
2440-02	EPU (External Power Unit) Door Light	C	-	0	May be inoperative provided the EPU door is closed prior to flight.	

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24. ELECTRICAL POWER (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2450-01	Ammeter Indication	C	2	1	May be inoperative provided one ammeter needle may be inoperative provided one voltmeter needle of respective generator is operative.	
		A	2	1	One ammeter needle associated to a failed generator may be inoperative for 3 consecutive calendar days.	
2450-02	Voltmeter Indication	C	2	1	One voltmeter needle may be inoperative provided one ammeter needle of respective generator is operative.	
		A	2	1	One voltmeter needle associated to a failed generator may be inoperative for 3 consecutive calendar days.	
2450-03	Flight Inverter	C	-	0	(M) One or both may be inoperative for VFR provided: a) Standby attitude indicator is operative, b) Operating requirements do not require its use, and c) System is deactivated and secured.	
2450-04	Utility Inverter	C	-	0	(M) May be inoperative provided the utility inverter is deactivated and secured.	
2450-05	Generator I/II Caution Lights	C	2	0	May be inoperative provided respective ammeter (Item 2450-01) and voltmeter (Item 2550-02) are operative.	

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25. EQUIPMENT/FURNISHINGS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2500-01	Passenger Convenience/NEF Items	-	-	0	May be inoperative, damaged, or missing provided that the item(s) is deferred in accordance with the NEF deferral program. The NEF program, procedures, and processes are outlined in the operator's (insert name) Manual. (M)(O) Procedures, if required, must be available to the flight crew and included in the operator's appropriate document. NOTE: Exterior lavatory door ashtrays are not NEF items.	
2500-02 ***	Electro-optical System Enhanced Vision (i.e., FLIR)	D	-	0	(M) May be inoperative provided the system is deactivated, secured, and placarded.	
2510-01	Copilot Seat	D	1	0	(M)(O) May be inoperative for one pilot operations provided the seat is not occupied and is blocked and placarded.	
2510-02	Crewmember Shoulder Harness	B	-	1	Copilot shoulder harness may be inoperative or missing provided the affected seat is not required by 14 CFR or used.	
2510-03 ***	Crew Seat Vertical Adjustment	C	-	0	(M)(O) One or more may be inoperative provided the affected seat is locked in a position acceptable to the flightcrew member.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2510-04 ***	Fabric Glareshield	D	-	0	May be missing for Day operations.	
		D	-	0	May be missing for Night operations for the purpose of finishing the mission and subsequently returning directly to a base where the glare shield can be installed provided the reflections in the windshield do not impair the pilot's primary field of view.	
2510-05 ***	Sun Shade	D	-	0	May be inoperative provided it is properly removed and stowed.	
2510-06 ***	Headset Holder	D	-	0	May be inoperative or missing provided it is not required by 14 CFR.	
2510-07 ***	Map Case	D	-	0	May be inoperative or missing provided it is not required by 14 CFR.	
2510-08 ***	Chart Holder	D	-	0	May be inoperative or missing provided it is not required by 14 CFR.	
		C	-	-	May be inoperative or missing provided: a) A personal kneeboard with chart holder function is carried, and b) If Night operations are intended, the personal kneeboard has an internal light.	
2510-09 ***	Cockpit Curtain	D	-	0	(O) May be inoperative for Day operations, or Night, provided procedures are established to prevent the use of disturbing light sources in the cabin.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2510-10 *** (PL-125)	Printed Supplemental Safety Information	C	-	0	(O) May be missing or inoperative provided: a) No passengers are carried, and b) Alternate procedures are established and used.	
2520-01 *** (PL-79)	Passenger Seats	D	-	0	May be inoperative provided: a) Seat does not block an Emergency Exit, b) Seat does not restrict any passenger from access to the main aircraft aisle, and c) The affected seat(s) are blocked and placarded "DO NOT OCCUPY". NOTE 1: A seat with an inoperative seat belt is considered inoperative. NOTE 2: Affected seats may include seats behind and/or adjacent outboard seats.	
2520-02	Passenger Seat Belts and/or Shoulder Harnesses	D	-	0	(M) May be inoperative provided the seat is blocked and placarded.	
		C	-	0	As required by 14 CFR.	
2550-01 ***	Cargo Net	D	-	0	May be inoperative or missing provided cargo is secured using alternate means.	
2550-02 *** (PL-100)	Cargo Restraint Systems	C	-	-	May be inoperative or missing provided cargo compartment remains empty.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2550-03 ***	External Cargo Hook System	C	-	0	(M) May be inoperative provided the inoperative system is deactivated, secured, and placarded.	
2550-04 ***	Cargo Hook Mirror System	D	-	0	(M) May be inoperative provided the inoperative system is deactivated, secured, and placarded.	
2550-05 ***	Fixed Provisions for Bambi Bucket	D	-	0	(M) May be inoperative provided the inoperative system is secured and placarded.	
2550-06 ***	External Hoist System (LH/RH)	C	-	0	May be inoperative for 1 flight day, under VFR only, for the purpose of finishing the mission and subsequently returning directly to a base where the hoist can be repaired or removed provided: (O) The hoist is extended, and V _{NE} HOIST is observed at all times. (M) May be inoperative provided: a) The hoist is retracted, and b) The inoperative system is deactivated, secured, and placarded.	
2560-01 ***	Survival Equipment	D	-	-	May be inoperative or missing provided it is not required by 14 CFR.	
2560-02 ***	Flotation Equipment	C	-	0	As required by 14 CFR.	
2560-03 ***	Helicopter Flotation Devices	C	-	0	MOVED to Item 3212-01.	
2560-04 ***	Litter Adapter System	C	-	0	DELETED.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2560-05 ***	Helicopter Air Ambulance (HAA) Equipment	C	-	-	(M) May be inoperative or missing provided the installation is deactivate/secured or removed. (O) May require to be included in the operator's appropriate document.	
2560-06 ***	Wire Strike Protection System	D	-	0	(M) May be inoperative or missing provided the system is secured and the weight and balance is adjusted.	
2560-07 ***	Flare System	C	-	0	DELETED.	
2560-08 ***	Chip Detector Pulse Function (Zapper)	C	-	0	MOVED to Item 7930-01.	
2560-09 ***	Engine Intake Sand Filter	C	-	0	MOVED to Item 7160-01.	
2560-10 *** (PL-73)	First Aid Kit (FAK) and/or Associated Equipment	D	-	-	Any in excess of those required by 14 CFR may be incomplete, missing, or inoperative.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2562-01 (PL-120)	Emergency Locator Transmitter (ELT)					
***	Survival Type ELT	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing.	
***	Fixed ELT	A	-	0	(M) May be inoperative provided: a) System is deactivated, and b) Repairs are made within 90 days.	
		A	-	0	May be missing provided repairs are made within 90 days.	
		D	-	-	(M) Any in excess of those required by 14 CFR may be inoperative provided system is deactivated.	
		D	-	-	Any in excess of those required by 14 CFR may be missing.	
2562-02 ***	Automatically Deployable Emergency Locator Transmitter (ADELT)	D	-	-	As required by 14 CFR.	
2562-03 ***	ELT Remote Switch	D	-	0	(M) May be inoperative provided ELT transmitter is armed and functional.	
2562-04 ***	Sonic Underwater Locator Beacon (ULB)	D	-	0	(M) May be inoperative provided system is deactivated/secured or removed.	

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26. FIRE PROTECTION

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2610-01 ***	Cargo/Baggage Compartment Smoke Detector System	C	-	0	(M) May be inoperative provided sound isolation wall is removed.	
2622-01 (PL-75)	Portable Fire Extinguisher	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing provided: <ul style="list-style-type: none"> a) Inoperative fire extinguisher is tagged inoperative, removed from installed location, and placed out of sight so it cannot be mistaken for a functional unit, and b) Required distribution is maintained. 	

U.S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

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27. FLIGHT CONTROLS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2700-01	Cyclic Stick Lock	C	1	0	MOVED to Item 6700-01.	
2700-02	Copilot's Cyclic Trim Control	C	-	0	MOVED to Item 6700-02.	
2700-03	Collective Pitch Lock	C	1	0	MOVED to Item 6700-03.	

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28. FUEL

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2810-01 ***	Long Range Fuel Tank System	D	-	0	May be inoperative provided: a) Flight is not predicated upon use of the system, and b) Unusable fuel is considered in the weight and balance computations.	
2810-02 ***	Extended Range Fuel Tank System	D	-	0	May be inoperative provided flight is not predicated upon use of the system.	
2822-01	Fuel Prime Pump Caution Light	D	2	0	One or both may be inoperative provided: a) Prime pumps are operative, and b) FUEL PRESS I/II warning lights are off.	
2824-01	Main Tank Fuel Transfer Pump (FWD/AFT)	C	2	1	(O) One may be inoperative for VFR provided: a) MAIN TK PUMP FWD/AFT or F.PUMP XFER FWD/AFT caution lights are operative, b) Flight is planned under consideration of the increased maximum unusable fuel quantity as stated in RFM, and c) Landing within 15 minutes is possible from any point enroute. NOTE: Unusable fuel in case of forward pump failure is 21.0 kg (46.29 lbs.), and unusable fuel in case of aft pump failure is 21.0 kg (46.29 lbs.).	

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28. FUEL (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
2830-01 ***	Fuel Dump Valve	C	-	0	(M) May be inoperative provided the system is deactivated and secured.	
2840-01	MAIN TK PUMP FWD/AFT or F.PUMP XFER FWD/AFT Caution Lights	C	2	1	(O) One may be inoperative provided the respective transfer pump is verified operative. NOTE: Unusable fuel in case of forward pump failure is 21.0 kg (46.29 lbs.), and unusable fuel in case of aft pump failure is 21.0 kg (46.29 lbs.).	
2841-01	Main Fuel tank Quantity Indicator	B	1	0	May be inoperative for VFR provided: a) Supply tank quantity indicator is operative, b) FUEL LOW caution lights are operative, and c) Landing within 15 minutes is possible from any point enroute.	
2841-02	Supply Tank Quantity Indicator	B	2	1	One may be inoperative provided: a) Main fuel tank quantity indicator is operative, and b) Respective FUEL LOW caution lights are operative.	
2841-03	Fuel Low Quantity Caution Light I/II	B	2	1	One may be inoperative for other than night VFR provided: a) All other fuel system indications are operative, and b) Sufficient fuel is available to complete the mission.	

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30. ICE AND RAIN PROTECTION

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3030-01	Pitot Tube Heater Copilot and Pilot (After SB BK-117-90-117)	C	1	0	May be inoperative for other than night VFR provided not operated at any time in known or forecasted visible moisture or precipitation when OAT is below +4.5 degrees C (40.1 degrees F).	
3030-02	PITOT 1 and 2 or PITOT HEAT CP&P Advisory Light	C	2	0	One or both may be inoperative for other than night VFR provided not operated at any time in known or forecasted visible moisture or precipitation when OAT is below +4.5 degrees C (40.1 degrees F).	
3030-03	PITOT HEATER 1 and 2 Caution Light	C	2	0	One or both may be inoperative for other than night VFR provided not operated at any time in known or forecasted visible moisture or precipitation when OAT is below +4.5 degrees C (40.1 degrees F).	
3030-04	Static Port Heater Copilot and Pilot (Before S/N 7531)	C	1	0	May be inoperative for other than night VFR provided: a) Alternate static ports (activated by setting STAT PRESS switch to ALTERNATE in the cabin are operative, and b) Not operated at any time in known or forecasted visible moisture or precipitation when OAT is below +4.5 degrees C (40.1 degrees F).	
3030-05	Static Port Heater Copilot (S/N 7532 and Subsequent)	C	1	0	May be inoperative for other than night VFR provided not operated at any time in known or forecasted visible moisture or precipitation when OAT is below +4.5 degrees C (40.1 degrees F), or C 1 0 As required by 14 CFR.	

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30. ICE AND RAIN PROTECTION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3030-06	Static Port Heater Pilot (S/N 7532 and Subsequent)	C	1	0	May be inoperative for other than night VFR provided: a) Alternate static ports (activated by setting STAT PRESS switch to ALTERNATE) in the cabin are operative, and b) Not operated at any time in known or forecasted visible moisture or precipitation when OAT is below +4.5 degrees C (40.1 degrees F).	
3040-01	Windshield Wiper(s)	D	2	0	One or both may be inoperative provided flight is not conducted in heavy rain.	
		D	2	1	Copilot's windshield wiper may be inoperative for one pilot operation.	
3040-02	Engine Anti-Icing System	C	2	0	May be inoperative for VFR provided known and forecast conditions for flight are ambient temperatures above 4.5 degrees C (40.1 degrees F) with no visible moisture.	

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31. INSTRUMENTS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3100-01 ***	Electronic Flight Instrumentation System (EFS 50)	C	-	0	May be inoperative for VFR provided affected flight and navigation data are considered inoperative. NOTE: Refer to items: <ol style="list-style-type: none"> 1. 3100-02 (Horizontal Situation Indicator), 2. 3400-01 (Navigation Systems (VOR, ILS, ADF, GPS, etc.)) 3. 3414-01 (Airspeed Indicator), 4. 3422-01 (Direction Indicator), 5. 3424-01 (Attitude Indicator), 6. 3424-02 (Pitch and Bank with Slip Indicator), 7. 3442-01 (Weather Radar System), 8. 3444-01 (Radio Altimeter). 	
3100-02 ***	Elapsed Timer	C	-	0	DELETED.	
3100-03 ***	Garmin G500H Flight Display System	C	-	-	May be inoperative for VFR. NOTE: Rotorcraft modified under the G500H STC is restricted to VFR only.	
3110-01	OAT/Free Air Temperature Indicator	C	-	0	May be inoperative provided temperature can be obtained from an approved alternate onboard source.	

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31. INSTRUMENTS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3110-02 *** (PL-121) ***	Electronic Flight Bag Systems (EFBs)					
	Class 3 EFBs	C	-	-	(O) May be inoperative provided alternate procedures are established and used.	
		D	-	0	May be inoperative provided procedures do not require its use.	
	Data Connectivity (Class 2)	C	-	-	(O) May be inoperative provided alternate procedures are established and used.	
		D	-	0	May be inoperative provided procedures do not require its use.	
***	Power Connection (Class 1 and 2)	C	-	-	(O) May be inoperative provided alternate procedures are established and used.	
		D	-	0	May be inoperative provided procedures do not require its use.	

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31. INSTRUMENTS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3110-02 *** (PL-121) (Cont'd)	Electronic Flight Bag Systems (EFBs) (Cont'd) Mounting Device (Class 2)	C	-	0	(M)(O) May be inoperative provided: a) Associated EFB and hardware is secured by an alternate means or removed from the aircraft, and b) Alternate procedures are established and used.	
		D	-	0	(M) May be inoperative provided: a) Associated EFB and hardware is secured by an alternate means or removed from the aircraft, and b) Procedures do not require its use.	
3120-01	Clock	C	-	0	As required by 14 CFR.	
3120-02	Hour Meter	D	1	0	(M) May be inoperative provided the operating hours are manually noted, and the inoperative instrument is placarded. (O) A watch with a stop function is carried in cockpit and the pilot records the flight time in aircraft logbook.	
3120-03 ***	Aircraft/Engine Monitoring System	C	-	0	As required by 14 CFR.	

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31. INSTRUMENTS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3130-01 *** (PL-87)	Flight Data Recorder (FDR) Installed for a Holder of an Air Carrier or Commercial Operator Certificate					
	Flight Data Recorder (FDR) System	C	-	-	Any in excess of those required by 14 CFR may be inoperative.	
	Includes FDR function of Combined Voice and Flight Data Recorder (CVFDR)	A	-	0	May be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally, and b) Repairs are made within three flight days.	
	FDR Recording Parameters required by CFR	A	-	-	Up to three recording parameters may be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally, and b) Repairs are made within 20 calendar-days.	
3130-02 *** (PL-87)	Flight Data Recorder (FDR) Installed for Other than an Air Carrier or Commercial Operator Certificate					
	Flight Data Recorder (FDR) System	C	-	1	Any in excess of those required by 14 CFR may be inoperative.	
		A	-	0	May be inoperative provided repairs are made in accordance with applicable 14 CFRs.	
3130-03	Cockpit Voice Recorder (CVR)	B	-	0	MOVED to Item 2370-01, 02, and 03.	

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32. LANDING GEAR

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3212-01 ***	Emergency Flotation System	C	-	0	As required by 14 CFR. (M) May be inoperative provided emergency flotation system is deactivated and secured.	
3212-02 ***	Snow Skid	D	-	0	May be inoperative provided equipment is secured or both snow skids removed, and landings on soft surfaces (i.e., mud or snow) are not conducted.	
3212-03 ***	Settling Protector	D	-	0	May be inoperative provided equipment is secured or both settling protectors removed, and landings on soft surfaces (i.e., mud or snow) are not conducted.	

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33. LIGHTS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3300-01 *** (PL-127)	NVG Compatible Lighting System	C	-	-	Unaided operation (without NVGs) may be permitted with inoperative NVG supplemental lights; cracked or missing filters; provided the remaining lights are: <ul style="list-style-type: none"> a) Sufficient to clearly illuminate all required instruments, controls, and other devices for which they are provided, b) Positioned so that direct rays are shielded from flightcrew members' eyes, and c) Lighting configuration and intensity is acceptable to the flightcrew. 	
3310-01 (PL-77)	Cockpit/Flight Compartment and Instrument Lighting System(s)	C	-	-	Individual lights may be inoperative provided: <ul style="list-style-type: none"> a) Remaining lighting system(s) are sufficient to clearly illuminate all required instruments, controls, and other devices for which they are provided, b) Remaining lighting system(s) are positioned so that direct rays are shielded from flightcrew members' eyes, and c) Lighting configuration and intensity is acceptable to the flightcrew. <p>NOTE 1: Individual button/switch lights and/or annunciations/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>	

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33. LIGHTS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3310-02	Cockpit Utility Light	D	1	0	May be inoperative provided two flashlights are available to the pilot flying for Night operations.	
3310-03	Cockpit Dome Light	C	1	0		
3320-01 *** (PL-125)	Equipment Relief without Passengers 1) Interior Emergency Lighting 2) Exterior Emergency Lighting 3) Exit Markings 4) Flashlights	C	-	0	(O) May be missing or inoperative provided: a) No passengers are carried, and b) Alternate procedures are established and used.	
3320-02 ***	"FASTEN SEAT BELTS/ NO SMOKING" Light (Cabin)	D	-	0	(O) May be inoperative provided a procedure is used to notify passengers when seat belts must be fastened and smoking is not allowed provided passengers are not carried.	
		D	-	0	Provided passengers are not carried.	
3320-03 ***	"FASTEN SEAT BELTS/ NO SMOKING" Light (Cockpit)	D	-	0	(O) One or more may be inoperative provided it is verified that the FASTEN SEATBELT AND NO SMOKING SIGN is the cabin is operative or a procedure is used to notify passengers when the seat belts must be fastened and smoking is not allowed.	
		D	-	0	Provided passengers are not carried.	

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33. LIGHTS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3320-04	Cabin Lighting System	D	-	0	May be inoperative for Day operation provided passengers are not carried.	
3330-01	Utility Light	D	1	0	May be inoperative for VFR provided a flashlight is available.	
3340-01	Position Light System	C	1	0	As required by 14 CFR.	
3340-02 ***	Position Light System IR (IR Flasher)	D	1	0	May be inoperative for other than Night operation.	
3340-03	Anti-Collision Light System	C	1	0	As required by 14 CFR.	
3340-04 ***	Formation Lights	D	4	0	May be inoperative provided it is not required for the intended operation.	
3340-05 ***	Pulse Lights	D	-	0		
3340-06 ***	Landing Light	C	-	0	One or more may be inoperative for daytime operations.	
	1) Search and Landing Light	C	-	1	<p>a) At least one adjustable landing light must be operative for Night operations if CAT-A Operation is intended, and</p> <p>b) One must be operative for Night operations provided CAT-A Operation is not required.</p>	
	2) IR Function	D	-	0	May be inoperative provided it is not required for the intended operation.	
3340-07 ***	Search Light SX-16	D	-	0	May be inoperative provided system is switched to OFF.	
3340-08 ***	Tail Flood Light	D	-	0	May be inoperative for other than night operation.	

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33. LIGHTS (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3340-09 ***	Strobe Light	D	-	0	One or more may be inoperative for other than Night operations provided operations do not required their use (see item 3340-03).	
3340-10 ***	Stairway Light	C	2	0	One or both may be inoperative for other than Night operation.	
		C	2	0	One or both may be inoperative for Night operation provided no passengers are carried.	
3340-11 ***	Helicopter Emergency Egress Lighting System (HEELS)	D	-	0	May be inoperative provided not required by 14 CFR.	
3340-12 ***	Step Light	D	-	0		
3340-13 ***	Recognition Light System	D	-	0		
3340-14 ***	External utility Light	D	-	0		
3340-15 ***	Supplemental Lighting System	D	-	0		
3350-01 ***	Emergency Lighting System	C	-	-	As required by 14 CFR.	
3350-02 ***	Flashlight(s)	D	-	-	As required by 14 CFR.	

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34. NAVIGATION

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3400-01 ***	Navigation Systems (VOR, ILS, ADF, GPS, etc.)	D	-	-	MOVED to VOR to Item 3454, ILS to Item 3430, ADF to Item 3455, GPS to Item 3457, Localizer to Item 3431, Glideslope to Item 3432, and LORAN to Item 3453.	
3413-01	Vertical Speed Indicator	C	-	1	Any in excess of one may be inoperative for VFR provided the operative indicator is on the Pilot flying side.	
		B	-	0	One or more may be inoperative for other than night VFR over routes navigated by reference to ground.	
3414-01	Airspeed Indicator One Pilot Operation	D	-	1	Any in excess of one may be inoperative for other than night VFR provided: a) Category-A (CAT-A) operation is not performed, and b) Operative airspeed indicator is on the Pilot flying side.	
	Dual Pilot Operation	D	-	0	Any in excess of two may be inoperative provided the operative airspeed indicators are at each pilot's station.	
		B	-	1	Any in excess of one may be inoperative for other than night VFR provided: a) CAT-A operation is not performed, and b) Operative airspeed indicator is on the Pilot flying side.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3416-01	Sensitive Altimeter Adjustable for Barometric Pressure	C	-	1	One may be inoperative for VFR provided the sensitive altimeter indicator on the Pilot flying side is operative.	
3421-01 ***	Alternate Static Pressure	C	1	0	May be inoperative for other than night VFR provided the static port heater on the Pilot flying side is operative.	
3421-02 ***	Standby Attitude Indicator	C	-	0	May be inoperative provided not required by 14 CFR.	
3421-03 ***	Attitude Indicator	D	-	0	May be inoperative for other than night VFR provided the Attitude Indicator on the Pilot flying side is operative.	
		C	-	0	As required by 14 CFR.	
3422-01 ***	Direction Indicator	D	-	0	May be inoperative for other than night VFR provided the direction indicator on the Pilot flying side is operative.	
		C	-	0	As required by 14 CFR.	
3423-01 ***	Magnetic Direction Indicator	D	-	0	May be inoperative for other than night VFR provided the direction indicator on the Pilot flying side is operative.	
3424-01 ***	Rate of Turn Indicator	D	-	0	May be inoperative for other than night VFR provided the rate of turn indicator on the Pilot flying side is operative.	
		C	-	0	As required by 14 CFR.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3424-02 ***	Slip Skid Indicator	D	-	0	May be inoperative for other than night VFR provided the slip skid indicator on the Pilot flying side is operative.	
		C	-	0	As required by 14 CFR.	
3431-01	Navigation System (LOC)	C	-	0	As required by 14 CFR.	
3432-01	Navigation System (ILS)	C	-	0	As required by 14 CFR.	
3434-01	Marker Beacon	C	-	0	May be inoperative provided navigation is not predicated on its use.	
3442-01 ***	Weather Radar System	C	-	0	As required by 14 CFR.	
3444-01 ***	Radio Altimeter	C	-	0	One or more may be inoperative provided: <ul style="list-style-type: none"> a) Autopilot GS-mode is not used, b) CAT-A operation is not performed, c) Night VFR operation is not performed with NVG, and d) Operating requirements do not require its use. 	
3444-02 *** (PL-54) HTAWS	Class A TAWS Equipment Required 1) GPWS	A	1	0	(O) May be inoperative provided: <ul style="list-style-type: none"> a) Alternate procedures are established and used, and b) Repairs are made within two flight days. 	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3444-02 *** (PL-54) (Cont'd)						
	a) Modes 1-4	A	4	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two flight days.	
	b) Test Mode	A	1	0	May be inoperative provided: a) GPWS is considered inoperative, and b) Repairs are made within two flight days.	
	c) Glideslope Deviation(s) Mode 5	C	-	1		
		B	-	0		
	d) Advisory Callouts	B	-	0	(O) Maybe inoperative provided alternate procedures are established and used.	
		C	-	0	(O) May be inoperative provided: a) Advisory callout not required by 14 CFR, and b) Alternate procedures are established and used.	

FEDERAL AVIATION ADMINISTRATION

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3444-02 *** (PL-54) (Cont'd) ***	e) Windshear Mode (Reactive)	B	1	0	(O) Maybe inoperative provided alternate procedures are established and used. NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.	
		C	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Windshear Detection and Avoidance System (Predictive) operates normally.	
	2) Terrain System Forward Looking Terrain Avoidance (FLTA) And Premature Descent Alert (PDA) Functions	B	1	0	(O) May be inoperative provided alternate procedures are established and used.	
	3) Terrain Displays	C	-	1		
		B	-	0		
***	4) Runway Awareness and Advisory System (RAAS)	C	1	0		

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3444-02 *** (PL-54) (Cont'd)	Class B TAWS Equipment Required					
	1) GPWS	A	1	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two flight days.	
	a) Modes 1 and 3	A	2	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two flight days.	
	b) Test Mode	A	1	0	May be inoperative provided: a) GPWS is considered inoperative, and b) Repairs are made within two flight days.	
***	c) Modes 2, 4, and 5	C	3	0		
	d) Advisory Callouts	B	-	0	(O) Maybe inoperative provided alternate procedures are established and used.	
		C	-	0	(O) May be inoperative provided: a) Advisory callout not required by 14 CFR, and b) Alternate procedures are established and used.	
***	e) Windshear Mode (Reactive)	C	1	0	(O) Maybe inoperative provided alternate procedures are established and used.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3444-02 *** (PL-54) (Cont'd)						
	2) Terrain System Forward Looking Terrain Avoidance (FLTA) And Premature Descent Alert (PDA) Functions	B	1	0		
***	3) Terrain Displays	C	-	0		
***	4) Runway Awareness and Advisory System (RAAS)	C	1	0		
***	Class C TAWS Equipment TAWS/GPWS	C	1	0	(O) Maybe inoperative provided alternate procedures are established and used. NOTE: Any mode that operates normally may be used.	
3445-01 *** (PL-32)	Traffic Alert Collision Avoidance Systems (TCAS I)	B	-	0	(M) May be inoperative provided: a) System is deactivated and secured, and b) Enroute or approach procedures do not require its use.	
		C	-	0	(M) May be inoperative provided: a) Not required by 14 CFR, b) System is deactivated and secured, and c) Enroute or approach procedures do not require its use.	

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34. NAVIGATION (Cont'd)

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3445-01 *** (PL-32) (Cont'd)	Traffic Alert Collision Avoidance System (TCAS II)	B	-	0	(M) May be inoperative provided: a) System is deactivated and secured, and b) Enroute or approach procedures do not require its use.	
		C	-	0	(M) May be inoperative provided: a) Not required by 14 CFR, b) System is deactivated and secured, and c) Enroute or approach procedures do not require its use.	
	1) Combined Traffic Alert (TA) and Resolution Advisory (RA) Dual Display System(s)	C	2	1	May be inoperative on the non-flying pilot side provided: a) TA and RA visual display is operative on flying pilot side, and b) TA and RA audio function is operative on flying pilot side.	
	2) Resolution Advisory (RA) Display System(s)	C	2	1	May be inoperative on the non-flying pilot side.	
		C	-	0	(O) May be inoperative provided: a) Traffic Alert (TA) visual display and audio functions are operative, b) TA only mode is selected by the crew, and c) Enroute or approach procedures do not require its use.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3445-01 *** (PL-32) (Cont'd)	3) Traffic Alert Display System(s)	C	-	0	(O) May be inoperative provided: a) RA visual display and audio functions are operative, and b) Enroute or approach procedures do not require its use.	
	4) Audio Function	B	1	0		May be inoperative provided enroute or approach procedures do not require use of TCAS.
***	5) Airspeed Selection Function	C	-	0		
3445-02 ***	Traffic Advisory System (TIS/TAS/TCAD)	D	-	0	As required by 14 CFR.	
3445-03	Outer link CP-2 System	C	1	0	As required by 14 CFR.	
3451-01 *** (PL-03)	Distance Measuring Equipment (DME) Systems	D	-	0	Any in excess of those required by 14 CFR may be inoperative.	
3451-02	Flight Director	C	-	0	MOVED to Item 2210-12.	
3452-01 *** (PL-76)	ATC Transponders and Automatic Altitude Reporting Systems	B	-	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 the planned route of flight.	
		D	-	1	Any in excess of those required by 14 CFR may be inoperative.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3452-01 *** (PL-76) (Cont'd) ***	<p>1) Elementary and Enhanced Downlink Aircraft Reportable Parameters not required by 14 CFR</p> <p>2) ADS-B Squitter Transmission</p>	A	-	0	<p>May be inoperative provided:</p> <p>a) Operations do not require its use, and</p> <p>b) Repairs are made prior to completion of next scheduled maintenance visit.</p>	
		D	-	0	<p>May be inoperative provided operations do not require its use.</p>	
		C	-	0	<p>(O) May be inoperative provided alternate procedures are established and used.</p> <p>NOTE: Any ADS-B Out function that operates normally may be used.</p>	
3452-02 (PL-105)	Automatic Dependent Surveillance-Broadcast (ADS-B) System	D	-	0	<p>May be inoperative provided it is not required by 14 CFR.</p> <p>NOTE: If ADS-B is installed in lieu of or as a replacement for 14 CFR required equipment, repair category in the operator's MEL will be same as that of 14 CFR required equipment.</p>	

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34. NAVIGATION (Cont'd)

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3452-02 (PL-105) (Cont'd)	1) Cockpit Display and Traffic Information (CDTI)	D	-	0	NOTE: Cockpit Display Traffic of Information (CDTI) display of data from other aircraft systems may be used.	
	2) CDTI Control Panel	D	-	0	May be inoperative provided: a) Flight ID can be set, and b) Screen display is acceptable to the flightcrew.	
	3) Data Link Transmitter(s)	D	-	0	NOTE: In some aircraft, the Data Link transmission is an integral part of transponder and relief is provided in that section.	
	4) Data Link Receivers	D	-	0		
	5) ADS-B Applications	D	-	0		
3453-01	LORAN Systems	C	-	-	As required by 14 CFR.	
3454-01	VOR Systems	C	-	-	As required by 14 CFR.	
3455-01	ADF Systems	C	-	-	As required by 14 CFR.	
3457-01	Global Position Systems (GPS)	C	-	-	As required by 14 CFR.	
3457-02 ***	GPS Terminal Procedures Database (i.e., Garmin's Chartview)	A	-	0	(O) May be inoperative or out of date indefinitely provided required information is derived from current aeronautical data sources.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3457-03 ***	GPS Aviation Database	A	-	0	(O) May be inoperative or out of date indefinitely provided required information is derived from current aeronautical data sources.	
3457-04 ***	GPS Obstacle Database	A	-	0	(O) May be inoperative or out of date indefinitely provided required information is derived from current aeronautical data sources.	
3457-05 ***	GPS Airport information Database (i.e., Garmin's SafeTaxi)	A	-	0	(O) May be inoperative or out of date indefinitely provided required information is derived from current aeronautical data sources.	
3457-06 ***	GPS Navigation Database	A	-	0	(O) May be inoperative or out of date indefinitely provided required information is derived from current aeronautical data sources. NOTE: GPS approach procedures are not permitted and all frequencies are tuned in manually.	
3457-07 ***	RNAV	C	-	0	As required by 14 CFR.	
3457-08 ***	XM Weather	A	-	0	May be inoperative indefinitely.	
3457-09 ***	Weather Radar/ Thunderstorm Detection Equipment	C	-	0	As required by 14 CFR.	

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34. NAVIGATION (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3461-01 *** (PL-98)	Flight Management System (FMS) 1) Navigation Database	C	-	-	(O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, b) Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight, and c) Approach Navigation Radios are manually tuned and identified.	
***	Navigation Management System 1) Navigation Database	C	-	-	(O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, b) Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight, and c) Approach Navigation Radios are manually tuned and identified.	

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35. OXYGEN

JASC Code & Item No.	Item	1	2	3	4	Change Bar
3510-01	Oxygen System and Masks (Crew and Passengers)	D	-	0	As required by 14 CFR.	

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52. DOORS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
5210-01	External Door Indicating System	C	1	0	(O) May be inoperative provided procedure is established to verify that the doors are closed and locked.	

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63. MAIN ROTOR DRIVE

JASC Code & Item No.	Item	1	2	3	4	Change Bar
6310-01	XMSN Oil Temperature Indicating System	C	1	0	May be inoperative above OAT 0 degrees C (32 degrees F) provided: a) XMSN OIL TEMP caution light is operative, and b) Transmission oil pressure indicating system is operative.	
6310-02	XMSN Oil TEMP Caution Light	B	1	0	May be inoperative provided: a) Transmission oil temperature indicating system is operative, and b) Transmission oil pressure indicating system is operative.	
6310-03	XMSN Oil Pressure Indicating System	B	1	1	May be inoperative provided: a) OAT is above 0 degrees C (32 degrees F), b) Transmission oil temperature indicating system is operative, and c) XMSN OIL PRESS warning light is operative.	
6310-04	XMSN Oil PRESS Warning Light	B	1	0	May be inoperative provided: a) Transmission oil temperature indicating system is operative, and b) Transmission oil pressure indicating system is operative.	
6320-01 ***	Intermediate and 90 degree Gear Boxes Chip Detector System	C	-	0	May be inoperative if detectors are checked in accordance with manufacturer's recommendations.	
6321-01	Rotor Brake System	C	1	0	(O) Procedure to ensure rotor brake disc is free. (M) Procedure to ensure system is deactivated and secured.	

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63. MAIN ROTOR DRIVE (Cont'd)

JASC Code & Item No.	Item	1	2	3	4	Change Bar
6330-01 ***	Mast Moment Indicating System	D	-	0	<p>(O) May be inoperative provided:</p> <ul style="list-style-type: none"> a) Maximum ground sloping for landing is limited to 5 degrees in all directions, and b) The RFM limitations for inoperative mast moment indicating system are obeyed. <p>(M) May be inoperative provided the AMM maintenance procedures are obeyed.</p>	

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67. ROTOR FLIGHT CONTROLS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
6700-01	Cyclic Stick Lock	D	1	0	May be inoperative provided cyclic stick is in neutral position during rotor start and run down.	
6700-02	Copilot's Cyclic Trim Control	D	1	0	May be inoperative for one pilot operation.	
6700-03	Collective Pitch Lock	D	1	0	(O) May be inoperative provided: a) Collective pitch is in lowest position during rotor start and run down, and b) Transponder is activated or switched to standby via transponder unit on ground.	
6700-04 ***	Force Trim Release (FTR System) (only if DAFCS is installed)	B	1	0	May be inoperative for VFR provided: a) 4-Way beep trim system is operative, and b) DAFCS is disengaged by push button AP1 and AP2 on autopilot controller.	

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71. POWERPLANT

JASC Code & Item No.	Item	1	2	3	4	Change Bar
7160-01	Sand Filter System	A	2	0	(M) May be inoperative provided: a) SAND FILTER1 and SAND FILTER 2 on slant console is OFF, and b) The two bypass doors are fully open.	

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76. ENGINE CONTROLS

JASC Code & Item No.	Item	1	2	3	4	Change Bar
7600-01	Engine Trim System	B	2	1	One system may be inoperative provided N2 is greater than 100 percent with torque differential of less than 10 percent during a hover.	
7600-02	Variable Rotor Speed and Automatic Power Matching System (VARTMOS) (BK 117 C-1 only)	C	1	0	(O) May be inoperative provided: a) Operations are conducted below 8,000 feet pressure altitude (PA), b) Operation is conducted in accordance with the RFM, and c) Engine trim system is operative.	

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77. ENGINE INDICATING

JASC Code & Item No.	Item	1	2	3	4	Change Bar
7700-01	Conventional Triple Tachometer Indicator needle (N2) (NR)	B	3	2	One N2 indicator needle may be inoperative provided: a) Respective N1 tachometer and engine torque indicators are operative, and b) This engine started first to use NR indicator for N2.	
7714-01	Dual Torque Indicator	B	2	1	One indicator needle may be inoperative provided: a) All other engine indicating systems are operative, and b) Engines are trimmed to match N1.	
7714-02	Engine N1 Tachometer Indicator				DELETED , Revision 8.	
7720-01 ***	Fuel Flow/Monitoring System	D	-	0	(M) May be inoperative provided fuel flow system is placarded.	

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79. ENGINE OIL

JASC Code & Item No.	Item	1	2	3	4	Change Bar
7930-01 ***	Pulsed Chip Detector System	D	-	0	May be inoperative provided RFM emergency procedure for engine chip caution is followed.	