



U.S. Department of Transportation
Federal Aviation Administration
Washington, D.C.

Master Minimum Equipment List (MMEL)

Revision: 8
Date: 10/27/2014

BELL HELICOPTER TEXTRON INC.

**212, 412, 412CF, 412EP
(H4SW)**

(NOTE: Model 412EP S/N 37002 thru 37999, and Model
412EP S/N 36248 through 36999 that incorporate
STC SR09600RC, carry a marketing designation of 412EPI.
See Notes 46 & 47 in TCDS H4SW)

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**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
MASTER MINIMUM EQUIPMENT LIST**

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LOG OF REVISIONS

Rev. No.	Date	Revision Description
1	11/30/1981	Complete Revision.
2	3/30/1982	Highlights of Change, Definitions.
3	6/15/1984	Complete Revision.
4	2/14/1986	Highlights of Change, Definitions.
5	6/22/1989	Highlights of Change, Definitions.
5a	10/01/1991	Highlights of Change, Definitions.
5b	12/28/1992	Highlights of Change, Definitions.
5c	11/17/1993	Highlights of Change, Definitions and Guidelines.
5d	2/02/2001	Highlights of Change, Definitions.
5e	9/17/2002	Highlights of Change, Definitions.
6	6/04/2003	Highlights of Change, Definitions and Guidelines.
7	2/06/2006	Highlights of Change, Definitions and Guidelines.
7a	5/08/2007	Highlights of Change, Definitions and 25-2
8	10/27/2014	Conversion to Joint Aircraft System/Component (JASC) Code. Incorporation of Policy Letters. Included Serial Numbers for 412EPI (Marketing Designation) to MMEL.

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CONTROL PAGE

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HIGHLIGHTS OF CHANGE

JASC	Item	Explanation
		<p>This Master Minimum Equipment List (MMEL) has been reformatted in compliance with the Federal Aviation Administration, Joint Aircraft System/Component (JASC) Code Table, and is available for download or viewing at: http://av-info.faa.gov/sdrx/references.aspx.</p> <p>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.</p> <p>For Example: JASC Code 2410, where Code 24 represents the “Electrical Power” system, and Component Code 10, represents the “Alternator-Generator Drive” system.</p>
		Relief for Helicopter Flotation System moved from Section 25 to 32.
		Section 27 deleted. Relief for Cyclic Stick Centering Indicator, and the Force Trim System, were moved from Section 27 to 67.
2310	-01	Added Policy Letter 106, Rev. 5, June 6, 2014 (HF)
2311	-01	Added Policy Letter 95, Rev. 2, January 15, 2012 (VHF & UHF)
2312	-01	Added Policy Letter 95, Rev. 2, January 15, 2012 (VHF & UHF)
2370	-01	Added Policy Letter 29, Rev. 5, August 10, 2010 (CVR)
2370	-02	Added Policy Letter 29, Rev. 5, August 10, 2010 (CVR)
2500	-01	Added Policy Letter 116, Rev. 3, December 17, 2012 (NEF)
2562	-01	Added Policy Letter 120, Rev. 1, January 20, 2009 (ELT)
3130	-01	Added Policy Letter 87, Rev 10, August 10, 2010 (FDR)
3130	-02	Added Policy Letter 87, Rev 10, August 10, 2010 (FDR)
3300	-01	Added Policy Letter 127, Rev. 0, June 7, 2010 (NVIS)
3444	-02	Added Policy Letter 54, Rev. 10, October 31, 2005 (HTAWS)
3445	-01	Added Policy Letter 32, Rev. 7, July 7, 2006 (TCAS I)
3445	-02	Added Policy Letter 32, Rev. 7, July 7, 2006 (TCAS II)
3452	-01	Added Policy Letter 76, Rev. 6, July 30, 2013 (Transponders & AARS)

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HIGHLIGHTS OF CHANGE (Cont'd)			
JASC	Item	Explanation	
3452	-02	Added Policy Letter 105, Rev. 1, January 20, 2009 (ADS-B)	
3461	-01	Added Policy Letter 98, Rev. 0, January 20, 1999 (Navigation Databases) Flight Management System (FMS)	
3461	-02	Added Policy Letter 98, Rev. 0, January 20, 1999 (Navigation Databases) Navigation Management System (NMS)	

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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.

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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.

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GUIDELINES FOR (M) & (O) PROCEDURES

JASC	Item	Explanation
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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:

2150	-01	(M) Procedure to deactivate and secure the System.	
2150	-02	(M) Procedure to deactivate and secure the System.	
2300	-01	(M)(O) Procedure to meet proviso.	
2310	-01	(O) Procedure to meet proviso.	
2340	-03	(O) Alternate normal and emergency procedures and/or operating restrictions are established and used. (O) May be inoperative unless procedures require its use.	
2435	-01	(M) Procedure to establish normal and emergency procedures and/or operating restrictions.	
2500	-01	(M)(O) May be inoperative, damaged, or missing, provided item(s) is deferred in accordance with NEF program.	
2520	-01	(O) Procedure to secure and placard seat.	
2520	-02	(M) Procedure to deactivate and secure. (O) Must be specified in operator's appropriate document.	
2550	-01	(M)(O) May be inoperative, damaged, or missing, provided item(s) is deferred in accordance with operator's appropriate document.	
2550	-02	(M)(O) May be inoperative, damaged, or missing, provided item(s) is deferred in accordance with operator's appropriate document.	
2562	-01	(M) Procedure to meet proviso. (M) Procedure to meet proviso.	
2841	-01	(O) Procedure to meet proviso.	
2842	-02	(O) Procedure to meet proviso.	
3160	-02	(O) Procedure to meet proviso.	
3212	-01	(M)(O) Procedure to meet proviso.	
3320	-02	(O) Procedure to meet proviso.	
3444	-02	(O) Procedure to meet proviso.	
3445	-01	(M) Procedure to deactivate and secure TCAS system. (M) Procedure to deactivate and secure TCAS system.	

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GUIDELINES FOR (M) & (O) PROCEDURES (Cont'd)

JASC	Item	Explanation
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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:

3445	-02	(M) Procedure to deactivate and secure system. (M) Procedure to meet proviso. (O) Procedure to meet proviso. (O) Procedure to meet proviso.	
3452	-01	(O) May be inoperative provided alternate procedures are established and used.	
3461	-01	(O) Procedure to meet proviso.	
3461	-02	(O) Procedure to meet proviso.	
5260	-01	(M) Procedure to stow and secure steps.	
6321	-01	(M) Procedure to inspect, deactivate, and secure system.	
7700	-01	(O) Alternate procedure to identify failed engine.	
7712	-01	(O) Procedure per proviso.	
7712	-02	(O) Procedure per proviso.	
7714	-01	(O) Procedure per proviso.	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED	
		3. NUMBER REQUIRED FOR DISPATCH	
		4. REMARKS OR EXCEPTIONS	

21. AIR CONDITIONING						
2121-01	Pilots Vent Blower	C	1	0	May be inoperative provided Heated Windshield (Item 3040-02) is installed and operative, OR Other approved windshield defogging system is installed and operative.	
2121-02	Co-Pilot Vent Blower	C	1	0	May be inoperative provided Heated Windshield (Item 3040-02) is installed and operative, OR Other approved windshield defogging system is installed and operative.	
2121-03	Instrument Fans (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	2	0	May be inoperative.	
2121-04	Instrument Fans (412EP with EFIS Kit 412-705-009)	C	2	0	May be inoperative for temperatures below +40°C (104°F).	
2121-05	Display Unit (DU) Fans (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	12	8	Two of three fans per required Display Unit (DU) must be operative. (See 3160-01 for DU relief)	
2121-06	Avionics Fan (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	1	0	Avoid prolonged ground-run operations if OAT exceeds +40°C (104°F).	
2121-07	AHRS Fan (Compartment Fan) (412EP 36248 thru 36999)	C	1	0	Avoid prolonged ground-run operations if OAT exceeds +40°C (104°F).	

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21. AIR CONDITIONING (Cont'd)						
2140-01	Bleed Air Heater	C	1	0	May be inoperative above +5°C (41°F), outside air temperature provided Pilot's Cockpit Vent Blower (Item 2121-01) is operative.	
2150-01 ***	Bleed Air Cooling System (212)	C	-	0	(M) May be inoperative provided system is deactivated and secured.	
2150-02 ***	Freon Cooling System	C	-	0	(M) May be inoperative provided system is deactivated and secured.	

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22. AUTO FLIGHT						
2210-01	Automatic Flight Control System (AFCS) (412EP 36087 thru 36999, and 412EP 37002 thru 37999)	C	-	0	May be inoperative for VFR provided RFM limitations are complied with.	
2210-02 ***	4-Axis Collective/Yaw Trim (412EP 36087 thru 36999, and 412EP 37002 thru 37999)	C	-	0	May be inoperative provided Collective/Yaw trim switch is selected "OFF" .	

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23. COMMUNICATIONS						
2300-01 ***	Communications Systems (FM)	D	-	0	May be inoperative, damaged or missing provided that the item(s) is deferred in accordance with the operators deferral program. Applicable procedures and/or processes must be outlined in the operator's manual. (M)(O) Procedures, if required, must be available to the flight crew and included in the operator's appropriate document.	
2310-01 *** (PL-106)	High Frequency (HF) Communications System	D	-	-	Any in excess of those required by 14 CFR may be inoperative.	
		C	-	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 a 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. 	
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)

2312-01 *** (PL-95)	Communications Systems (VHF) (212, 412, 412EP 36087 thru 36999)	D	-	1	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.	
	(412CF & 412EP 37002 thru 37999, or STC SR09600RC incorporated)	D	2	1	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.	
2340-01	Crew Inter-Communication System (ICS) <u>without</u> "EMERG COM" function	B	2	1	Co-Pilots station ICS may be inoperative for single pilot VFR operations.	
2340-02	Crew Inter-Communication System (ICS) <u>with</u> integral "EMERG COM" function	B	2	1	Co-Pilots station ICS may be inoperative for single pilot VFR & IFR operations.	

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23. COMMUNICATIONS (Cont'd)						
2340-03	Cabin Public Address System					
	1) Passenger Configuration (Including Pre-recorded Passenger Announcement System)	B	-	0	(O) May be inoperative provided alternate normal and emergency procedures and/or operating restrictions are established and used.	
	2) Cargo Configuration	D	-	0	(O) May be inoperative unless procedures require its use.	
2370-01 *** (PL-29)	Cockpit Voice Recorder (CVR) (Aircraft <u>Without</u> a Flight Data Recorder installed in the aircraft.) NOTE: See Item 3130-01 for aircraft equipped with both CVR and FDR. (412, 412CF, 412EP 36087 thru 36999)	A	1	0	May be inoperative provided repairs are made within three flight days.	
***	Independent Power Source	C	1	0		

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23. COMMUNICATIONS (Cont'd)

2370-02 *** (PL-29)	Cockpit Voice Recorder (CVR) (For an operator other than a holder of an air carrier or commercial operator certificate) (412, 412CF, 412EP 36087 thru 36999, and 37002 thru 37999)	A	1	0	May be inoperative provided repairs are made in accordance with applicable 14 CFR.	
***	Independent Power Source	C	1	0		

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24. ELECTRICAL POWER						
2422-01	Inverters 212 (30504 thru 30553)	B	2	1	One may be inoperative for day VMC provided both Starter/Generators (Item 2435-01) are operative.	
	212 (30554 thru 31311, and 35001 thru 35108)	B	3	2	One may be inoperative for day VMC provided both Starter/Generators (Item 2435-01) are operative.	
	412EP (36087 thru 36999, and 37002 thru 37999)	B	2	1	One may be inoperative for day VMC provided both Starter/Generators (Item 2435-01) are operative.	
2435-01	Starter/Generator	B	2	1	(M) The Generator function of one Starter/Generator, may be inoperative for day VMC provided: <ul style="list-style-type: none"> a) All Inverters (Item 2422-01) are operative, and b) Starter/Generator check for security of mounting and burned or arced connections in the area. 	

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25. EQUIPMENT/FURNISHINGS						
2500-01 (PL-116)	Non-essential Equipment and Furnishings (NEF) Items	-	-	0	May be inoperative, damaged or missing provided that the item(s) is deferred in accordance with the NEF deferral program. NEF program, procedures and processes are outlined in the operator's manual. (M)(O) Procedures, if required, must be available to the flight crew and included in the operator's appropriate document.	
2510-01	Crewmember Shoulder Harness	B	-	0	As required by 14 CFR.	
2520-01 ***	Passenger Seats	D	-	0	(O) One or more may be inoperative provided: (a) Affected seat(s) does not block access to emergency exits, and (b) Affected seat(s) is blocked and placarded. NOTE: Left seat (Co-Pilots seat) is considered a passenger seat for single pilot operations.	
2520-02 ***	Emergency Medical Service (EMS) Equipment	C	-	0	(M) May be inoperative provided system is deactivated and secured, and/or (O) Procedures may be required and included in the operator's appropriate document.	
2550-01 ***	Cargo Suspension System	D	-	0	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	
2550-02 ***	Hoist System	D	-	0	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)

2562-01 (PL-120) ***	Emergency Locator Transmitter (ELT)					
***	Survival Type ELTs	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing. (M) May be inoperative, provided: a) System is deactivated, and b) Repairs are made within 90 days. May be missing, provided repairs are made within 90 days. (M) Any in excess of those required by 14 CFR may be inoperative provided system is deactivated. Any in excess of those required by 14 CFR may be inoperative or missing.	
***	Fixed ELTs	A	-	0		
		A	-	0		
		D	-	-		
		D	-	-		
2562-02 ***	Automatically Deployable Emergency Locator Transmitter	D	-	-	As required by 14 CFR.	

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		4. REMARKS OR EXCEPTIONS				
26. FIRE PROTECTION						
2611-01	Cargo/Baggage Smoke Detector System	C	1	0	May be inoperative if compartment is empty.	

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28. FUEL					
	Auxiliary Fuel Tank System				Deleted.
2841-01	Fuel Quantity Indicator(s)	B	-	0	(O) May be inoperative provided: a) Approved alternate preflight gauging method is used to determine total fuel quantity, and b) Fuel flow indicating system is operative or flight manual charts are used.
2842-01	Fuel Quantity Sensor(s)	B	-	0	(O) May be inoperative provided: a) Approved alternate preflight gauging method is used to determine total fuel quantity, and b) Fuel flow indicating system is operative or flight manual charts are used.

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		4. REMARKS OR EXCEPTIONS				
30. ICE AND RAIN PROTECTION						
3030-01	Heated Pitot Tube	B	2	0	May be inoperative for VFR.	
3030-02	Static Port Heaters	C	4	0	May be inoperative for VFR.	
3040-01	Windshield Wipers	C	2	0	May be inoperative for VFR provided operations are not conducted in precipitation.	
3040-02 ***	Heated Windshield	C	-	0	May be inoperative provided: a) Blower Fan is operative, and b) Defogging vents are not obstructed.	

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31. INSTRUMENTS						
3120-01	Clock Displaying Hours, Minutes, and Seconds with Sweep-Second Pointer or Digital Presentation (212, 412, 412CF, 412EP 36087 thru 36999)	C	-	1	Operative clock must be located on the instrument panel in a position that makes it plainly visible to, and usable by, any pilot at the pilot's station.	
		C	-	0	May be inoperative for VFR provided Elapsed Timer (Item 3120-02) is installed and operative.	
		C	2	0	412EP (37002 thru 37999 or STC SR09600RC incorporated) May be inoperative. Use Display Unit clock.	
3120-02	Elapsed Timer 212, 412, 412CF, 412EP 36087 thru 36999 412EP 37002 thru 37999 or STC SR09600RC incorporated	C	-	1	May be inoperative provided Clock (Item 3120-01) or an alternate time source is operative.	
		C	-	0	May be inoperative. Use Display Unit elapsed timer.	
3120-03 ***	Hour Meter (212, 412, 412CF, 412EP 36087 thru 36999)	C	1	0	May be inoperative provided alternate means is utilized for recording time in service.	

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31. INSTRUMENTS (Cont'd)

3130-01 *** (PL-87)	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) (412EP 37002 thru 37999 or STC SR09600RC Incorporated)	A	-	0	May be inoperative provided: a) Cockpit Voice Recorder (CVR) (Item 2370-01) operates normally, b) Aircraft is not dispatched from a designated airport as listed in the operator's MEL unless: 1. The FDR failure occurs prior to takeoff, or 2. The FDR repair was attempted but not successful. c) In those cases where repair is attempted but not successful, the aircraft may be dispatched on a flight or series of flights until the next designated location where repair must be accomplished prior to dispatch, and d) Repairs are made within three days.	
***	FDR Recording Parameters <u>required</u> by 14 CFR (412EP 37002 thru 37999 or STC SR09600RC Incorporated)	A	-	-	Up to three (3) recording parameters may be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally, and b) Repairs are made within 20 calendar days.	

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31. INSTRUMENTS (Cont'd)

3130-01 (Cont'd) *** (PL-87)	FDR Recording Parameters <i>not required</i> by 14 CFR (412EP 37002 thru 37999 or STC SR09600RC Incorporated)	A	-	-	May be inoperative provided repairs are made prior to the completion of the next scheduled maintenance visit.	
3130-02 (PL-87)	FDR installed for an operator other than a holder of an air carrier or commercial operator certificate. (412, 412CF, 412EP 36087 thru 36999, and 37002 thru 37999)	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 CFR.	
3160-01	Display Units (DU) (412EP 37002 thru 37999 or STC SR09600RC incorporated.)	A	4	3	One may be inoperative for Single Pilot IFR. Nonfunctional DU is Co-Pilots inboard DU (DU2).	
		A	4	1	Three may be inoperative for day VFR flight to maintenance facility provided: (a) Remaining DU is DU4 or DU3 with EMERG DU3 PWR is ON. (b) Standby instruments are operative. (See Items 3414-02, 3416-02, and 3421-01)	
		A	4	2	Both Co-Pilots DUs may be inoperative for Day/Night VFR.	

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31. INSTRUMENTS (Cont'd)						
3160-02	Aircraft Data Interface Unit (ADIU) Channel (412EP 37002 thru 37999 or STC SR09600RC incorporated)	A	2	1	(O) Only applicable for "ADIU A MAINT" or "ADIU B MAINT" advisory message. One may be inoperative for VFR provided the remaining ADIU channel is fully operative for flight or series of flights to maintenance facility.	

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32. LANDING GEAR						
3212-01 ***	Emergency Flotation System (212, 412, 412EP 36087 thru 36999, and 37002 thru 37999)	C	1	0	As required by 14 CFR. May be inoperative or missing provided regulations do not require its use. (M) and/or (O) procedures may be required.	

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33. LIGHTS

3300-01 *** (PL-127)	NVG Compatible Lighting System	C	-	-	Unaided operation (without NVG's) may be permitted with inoperative NVG supplemental lights; cracked or missing filters; provided the remaining lights are: 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 flight crew-members eyes, and c) Lighting configuration and intensity is acceptable to the flight crew.	
3310-01	Cockpit Instrument Lighting System	B	-	0	May be in operative provided: a) Sufficient lighting is operative to make each required instrument, control, and other device for which it is provided easily readable, b) Direct rays and reflections do not impair visibility either inside or outside the aircraft, c) Lighting intensity can be controlled or preset to a satisfactory level for the expected flight conditions, and d) Lighting configuration at dispatch is acceptable to the flight crew, OR e) Co-Pilot station instrument lights may be inoperative for single pilot operations.	

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33. LIGHTS (Cont'd)						
3320-01	Cabin Lighting System	C	-	0	May be inoperative provided: a) For day operations, OR b) Inoperative lights do not exceed fifty (50) percent of the total installed.	
3320-02	Passenger Notice System "Fasten Seat Belt-No Smoking" (212, 412, 412CF, 412EP 36087 thru 36999)	B	-	0	(O) May be inoperative provided: a) Passengers are not carried, OR b) Alternate procedures are used for passenger notification, OR c) Cabin Public Address System (Item 2340-03) is installed and operative.	
3340-01	Position Lighting System	C	1	0	May be inoperative for day operation, OR As required by 14 CFR.	
3340-02	Anti-Collision Light System	B	1	0	May be inoperative for day operation, OR As required by 14 CFR.	
3340-03	Strobe Light System	C	-	0	May be inoperative where these lights are installed in addition to the upper and lower anti-collision lights.	
3340-04	Landing Light System	C	1	0	May be inoperative for day operation, OR If Search Light (Item 3340-05) is operational.	
3340-05	Search Light	C	1	0	May be inoperative for day operation, OR If Landing Light (Item 3340-04) is operational.	

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33. LIGHTS (Cont'd)						
3340-06	External Utility (Step) Lights	C	2	0	May be inoperative for day operation, OR Alternate lighting (flashlight) is available.	
3340-07 ***	Supplemental Lighting System	C	-	0	May be inoperative for day operation.	
3350-01 ***	Cabin Emergency Lights	C	-	0	May be inoperative unless required by 14 CFR.	
3350-02 ***	Helicopter Emergency Egress Lighting System (HEELS)	C	-	0	May be inoperative unless required by 14 CFR.	

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34. NAVIGATION						
3412-01	OAT/Free Air Temperature Indicator (212, 412, 412CF, 412EP 36087 thru 36999)	C	1	0	May be inoperative provided approved alternate onboard OAT source is installed and operative.	
3412-02	OAT Display System (412EP 37002 thru 37999 or STC SR09600RC Incorporated)	C	3	0	May be inoperative provided approved alternate onboard OAT source is installed, operative, and Vne limitations are observed per placard as described in RFM.	
3413-01	Vertical Speed Indicator	B	2	1	Co-Pilots indicator may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3414-01	Airspeed Indicator	B	2	1	Co-Pilots indicator may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3414-02	Standby Airspeed Indicator (412EP 37002 thru 37999, or STC SR09600RC Incorporated)	C	1	0	May be inoperative for VFR provided airspeed indication is displayed for each pilot.	
3416-01	Sensitive Altimeter Adjustable for Barometric Pressure (212, 412, 412CF, 412EP 36087 thru 36999)	B	2	1	Co-Pilots indicator may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3416-02	Standby Altimeter (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	1	0	May be inoperative for VFR provided altitude indication is displayed for each pilot.	

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34. NAVIGATION (Cont'd)						
3417-01	Air Data Computer (412EP 37002 thru 37999 or STC SR09600RC incorporated)	B	2	1	One may be inoperative for single pilot VFR provided two pilots are not required by 14 CFR.	
3421-01	Standby Attitude Indicator (212, 412, 412CF, 412EP 36087 thru 36999)	C	-	0	May be inoperative provided not required by 14 CFR.	
		B	1	0	May be inoperative provided: a) Operations are conducted in Day VMC only, and b) Operations are not conducted into known or forecast over-the-top conditions.	
	(412EP 37002 thru 37999, or STC SR09600RC incorporated)	B	1	0	May be inoperative provided: a) Operations are conducted in Day VMC only, and b) Operations are not conducted into known or forecast over-the-top conditions.	
3421-02	Alternate Source of Static Pressure for Altimeter, Air Speed and Vertical Speed (212, 412, 412CF, 412EP 36087 thru 36999)	B	-	0	May be inoperative for VFR.	

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34. NAVIGATION (Cont'd)						
3421-03	Attitude Heading Reference System (AHRS) Channel (412EP 37002 thru 37999, or STC SR09600RC incorporated)	B	2	1	One may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3422-01	Gyroscopic Direction Indicator (212, 412, 412CF, 412EP 36087 thru 36999)	B	2	1	Co-Pilots may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3423-01	Magnetic Direction Indicator (212, 412, 412CF, 412EP 36087 thru 36999)	B	2	1	Co-Pilots may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3423-02	Magnetic Heading Indication (412EP 37002 thru 37999, or STC SR09600RC incorporated)	B	2	1	One may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
3423-03	Standby Compass	C	2	0	May be inoperative for VFR provided direction indication is displayed for each pilot, and magnetic slaving is operational.	
3424-01	Slip-Skid Indicator 212, 412, 412CF, 412EP 36087 thru 36999 412EP 37002 thru 37999, or STC SR09600RC incorporated	B	2	1	Co-Pilots may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.	
		C	4	1	May be inoperative for day VFR flight with reference to visual landmarks. One required at each flying pilot side.	

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34. NAVIGATION (Cont'd)					
3424-02	Gyroscopic Bank and Pitch Indicator	B	2	1	Co-Pilots may be inoperative for single pilot VFR, provided two pilots are not required by 14 CFR.
3424-03	Gyroscopic Rate-of-Turn Indicator (212, 412, 412CF, 412EP 36087 thru 36999)	B	-	0	As required by 14 CFR.
3431-01	Navigation Systems (ILS)	C	-	0	As required by 14 CFR.
3434-01	Marker Beacon	C	-	0	May be inoperative provided approach is not predicated on its use.
3442-01 ***	Weather Radar System	D	-	0	As required by 14 CFR.
3444-01 ***	Radio Altimeter	D	-	0	One or more may be inoperative provided: <ul style="list-style-type: none"> a) Pilot is aware of potential degraded AP performance on ILS GS or LPV vertical, b) Category A operation is not performed, c) VFR Night operation is not performed with NVG, and d) Operating requirements do not require its use.
3444-02 *** (PL-54)	Helicopter Terrain Awareness and Warning System (HTAWS) (EGPWS)	C	1	0	(O) May be inoperative provided: <ul style="list-style-type: none"> a) Alternate procedures are established and used, and b) Operating requirements do not require its use. NOTE: Any mode that operates normally may be used.

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34. NAVIGATION (Cont'd)						
3445-01 *** (PL-32)	Traffic Alert and Collision Avoidance System (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.
3445-02 *** (PL-32)	Traffic Alert and 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.	

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34. NAVIGATION (Cont'd)						
3445-02 (Cont'd) *** (PL-32)	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.	
	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 Functions	B	1	0	May be inoperative provided enroute or approach procedures do not require use of TCAS.	
***	5) Airspace Selection Function	C	-	0		
3446-01 ***	Thunderstorm Detection System	C	-	0	As required by 14 CFR.	
3451-01	DME	D	-	-	Any in excess of those required by 14 CFR may be inoperative.	

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34. NAVIGATION (Cont'd)						
3452-01 (PL-76)	ATC Transponders & 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.	
***	1) Elementary and Enhanced Downlink Aircraft Reportable Parameters not required by 14 CFR	D	-	1	Any in excess of those required by 14 CFR may be inoperative.	
***	2) ADS-B Squitter Transmission	A	-	0	May be inoperative, provided: a) Operations do not require its use, and b) Repairs are made prior to completion of next scheduled maintenance visit.	
***		D	-	0	May be inoperative provided operations do not require its use.	
		C	-	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Any ADS-B Out function that operates normally may be used.	

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34. NAVIGATION (Cont'd)

3452-02 *** (PL-105)	Automatic Dependent Surveillance-Broadcast (ADS-B) System	D	-	0	May be inoperative provided it is not required by 14 CFR. 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 the same as that of 14 CFR required equipment.	
	1) Cockpit Display and Traffic Information (CDTI)	D	-	0	NOTE: Cockpit Display of Traffic 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 flight crew.	
	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		
3454-01	Navigation Systems (VOR)	C	-	0	As required by 14 CFR.	
3455-01	Navigation Systems (ADF)	C	-	0	As required by 14 CFR.	
3457-01	Navigation Systems (Long Range) (212, 412, 412CF, 412EP 36087 thru 36999)	C	-	0	As required by 14 CFR.	

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34. NAVIGATION (Cont'd)

3460-01	Flight Director (412EP 36087 thru 36999, and 37002 thru 37999)	C	2	0	As required by 14 CFR.	
3461-01 *** (PL-98)	Flight Management System (FMS)	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.	
3461-02 *** (PL-98)	Navigation Management System (NMS)	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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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED				
		3. NUMBER REQUIRED FOR DISPATCH				
		4. REMARKS OR EXCEPTIONS				
35. OXYGEN						
3510-01 ***	Oxygen System and Masks (Crew and Passengers)	C	-	0	As required by 14 CFR.	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED			
		3. NUMBER REQUIRED FOR DISPATCH			
		4. REMARKS OR EXCEPTIONS			
45. CENTRAL MAINTENANCE SYSTEM					
4500-01 ***	Health and Usage Monitoring System (HUMS) (Non credit system) (212, 412CF, 412EP 36087 thru 36999, and 37002 thru 37999)	B	-	0	
4500-02 ***	Aircraft/Engine Monitoring System (212, 412, 412CF, 412EP 36087 thru 36999)	C	-	0	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED				
		3. NUMBER REQUIRED FOR DISPATCH				
		4. REMARKS OR EXCEPTIONS				
52. DOORS						
5260-01 ***	Retractable Passenger Steps (Powered) (412, 412EP 36087 thru 36999, and 37002 thru 37999)	C	-	0	(M) May be inoperative provided: a) Steps are in the stowed (down) position, and b) System is deactivated and secured.	
5270-01	Door Caution System	C	1	0	May be inoperative provided it is determined by visual check that doors are closed and latched.	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED	
		3. NUMBER REQUIRED FOR DISPATCH	
		4. REMARKS OR EXCEPTIONS	

63. MAIN ROTOR DRIVE						
6320-01	Transmission Oil Temperature Indicating System (212, 412, 412CF, 412EP 36087 thru 36999)	B	1	0	May be inoperative provided: a) Transmission Oil Temperature Warning Light System (Item 6320-03) is operative, b) Transmission Oil Pressure Indicating System (Item 6320-02) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	
	(412EP 37002 thru 37999, or STC SR09600RC incorporated)	B	1	0	May be inoperative provided: a) Transmission Oil Temperature Warning System (Item 6320-04) is operative, b) Transmission Oil Pressure Indicating System (Item 6320-02) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	
6320-02	Transmission Oil Pressure Indicating System (212, 412, 412CF, 412EP 36087 thru 36999)	B	1	0	May be inoperative provided: a) Transmission Oil Pressure Warning Light System (Item 6320-05) is operative, b) Transmission Oil Temperature Indicating System (Item 6320-01) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED	
		3. NUMBER REQUIRED FOR DISPATCH	
		4. REMARKS OR EXCEPTIONS	

63. MAIN ROTOR DRIVE (Cont'd)						
6320-03	Transmission Oil Temperature Warning Light System (212, 412, 412CF, 412EP 36087 thru 36999)	B	1	0	May be inoperative provided: a) Transmission Oil Temperature Indicating System (Item 6320-01) is operative, b) Transmission Oil Pressure Warning Light System (Item 6320-05) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	
6320-04	Transmission Oil Temperature Warning System (412EP 37002 thru 37999, or STC SR09600RC incorporated)	B	1	0	May be inoperative provided: a) Transmission Oil Temperature Indicating System (Item 6320-01) is operative, b) Transmission Oil Pressure Warning System (Item 6320-06) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	
6320-05	Transmission Oil Pressure Warning Light System (212, 412, 412CF, 412EP 36087 thru 36999)	B	1	0	May be inoperative provided: a) Transmission Oil Pressure Indicating System (Item 6320-02) is operative, b) Transmission Oil Temperature Warning Light System (Item 6320-03) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	

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		4. REMARKS OR EXCEPTIONS	

63. MAIN ROTOR DRIVE (Cont'd)						
6320-06	Transmission Oil Pressure Warning System (412EP 37002 thru 37999, or STC SR09600RC incorporated)	B	1	0	May be inoperative provided: a) Transmission Oil Pressure Indicating System (Item 6320-02) is operative, b) Transmission Oil Temperature Warning System (Item 6320-04) is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	
6321-01	Rotor Brake System	C	1	0	(M) May be inoperative provided: a) It is determined by visual inspection that pucks are fully retracted, and b) System is deactivated and secured.	
6321-02	Rotor Brake Warning Lights (212, 412, 412CF, 412EP 36087 thru 36999)	C	-	0	May be inoperative if Rotor Brake System (Item 6321-01) is deactivated and secured.	
6321-03	Rotor Brake Warnings (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	-	0	May be inoperative if Rotor brake System (Item 6321-01) is deactivated and secured.	
6340-01	Mast Torque System (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	1	0	May be inoperative if RFM limitations are observed.	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED				
		3. NUMBER REQUIRED FOR DISPATCH				
		4. REMARKS OR EXCEPTIONS				
67. ROTORS FLIGHT CONTROL						
6700-01	Force Trim System	C	1	0	May be inoperative for VFR.	
6710-01	Cyclic Stick Centering Indicator (412, 412CF, 412EP 36087 thru 36999, and 37002 thru 37999)	B	2	0	Refer to RFM for limitations.	

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JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED				
		3. NUMBER REQUIRED FOR DISPATCH				
		4. REMARKS OR EXCEPTIONS				
73. ENGINE FUEL AND CONTROL						
7321-01	Engine Fuel Control (Automatic Mode) (212, 412, 412CF, 412EP 36087 thru 36999)	B	2	1	One may be inoperative provided: a) For non-passenger carrying operations, and b) Aircraft shall not depart airport where repairs or replacements can be made.	
7331-01 ***	Fuel Flow Indicator System	D	-	0		

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		3. NUMBER REQUIRED FOR DISPATCH		
		4. REMARKS OR EXCEPTIONS		

77. ENGINE INDICATING

7700-01	Engine Out Warning System (212, 412, 412CF, 412EP 36087 thru 36999)	B	2	1	(O) One may be inoperative provided: a) Alternate procedures are established and utilized for engine failure identification, and b) Aircraft shall not depart airport where repairs or replacements can be made.	
7712-01	Dual Torque Pressure Indicator (212, 412)	C	-	1	(O) One may be inoperative provided the operative indicator is at the station of the pilot manipulating flight controls.	
7712-02	Triple Torque Indicator (412EP 36087 thru 36999)	C	-	1	(O) One may be inoperative provided the operative indicator is at the station of the pilot manipulating flight controls.	
7714-01	Tachometer, Triple Indicating (212, 412, 412CF, 412EP 36087 thru 36999)	C	-	1	(O) One may be inoperative provided the operative indicator is at the station of the pilot manipulating flight controls.	

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		4. REMARKS & EXCEPTIONS				
79. ENGINE OIL						
7931-01	Engine Oil Pressure Indication (212, 412, 412CF, 412EP 36087 thru 36999)	C	1	0	May be inoperative provided: a) Engine Oil Pressure Warning System is operative, b) Engine Oil Temperature Indicating System is operative, and c) Aircraft shall not depart airport where repairs or replacements can be made.	
7931-02	Engine Oil Pressure Indication (412EP 37002 thru 37999, or STC SR09600RC incorporated)	C	1	0	May be inoperative provided respective CAS message "ENG OIL PRESS" and engine oil temperature indications are operative.	