



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

Master Minimum Equipment List (MMEL)

Revision: 7
Date: 08/12/215

AGUSTAWESTLAND S.p.A

**A109, A109A, A109A II, A109C, A109E,
A109K2
(TCDS H7EU)**

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

AIRCRAFT:

**A109, A109A, A109A II, A109C, A109E,
A109K2**

REVISION NO. 7

DATE: 08/12/215

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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 is 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 System Code 24 represents the “Electrical Power” system, and Component Code 10, represents the “Alternator-Generator Drive” system.</p>
Page	VII	Added Page VII titled “Incorporated Policy Letters”.
Page	VIII IX	Updated Page VIII & IX “Guidelines For (M) & (O) Procedures”, by revising the “Explanation” column.
64		Added Section 64 to incorporate STC’s for additional relief.
		Other minor editing as noted by change bars in the right hand column.

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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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INCORPORATED POLICY LETTERS

JASC	Item	Description
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This section has been added to identify all of the Policy Letters that have been incorporated into this MMEL. Providing the reference to the specific Policy Letter used to establish the available relief should assist in the development of an operators MEL and provide source information for clarification. In addition to the Policy Letter number, the Revision Level, Date, and brief subject description, are included. Policy Letters are indicated under the "JASC Code & Item No." in parenthesis, e.g. (PL-106). Please refer to the referenced Policy Letter if you have any questions relating to their incorporation into this MMEL.

2310	-01	Policy Letter 106, Rev. 5, June 6, 2014 (HF)	
2311	-01	Policy Letter 95, Rev. 2, January 15, 2012 (VHF & UHF)	
2312	-01	Policy Letter 95, Rev. 2, January 15, 2012 (VHF & UHF)	
2370	-01	Policy Letter 29, Rev. 5, August 10, 2010 (CVR)	
2370	-02	Policy Letter 29, Rev. 5, August 10, 2010 (CVR)	
2500	-01	Policy Letter 116, Rev. 3, December 17, 2012 (NEF)	
2562	-01	Policy Letter 120, Rev. 1, January 20, 2009 (ELT)	
3130	-01	Policy Letter 87, Rev. 10, August 10, 2010 (FDR)	
3130	-02	Policy Letter 87, Rev. 10, August 10, 2010 (CVR/FDR)	
3300	-01	Policy Letter 127, Rev. 0, June 7, 2010 (NVIS)	
3444	-02	Policy Letter 54, Rev. 10, October 31, 2005 (TAWS)	
3445	-01	Policy Letter 32, Rev. 7, July 7, 2006 (TCAS I)	
3445	-02	Policy Letter 32, Rev. 7, July 7, 2006 (TCAS II)	
3452	-01	Policy Letter 76, Rev. 6, July 30, 2013 (Transponders & AARS)	
3452	-02	Policy Letter 105, Rev. 1, January 20, 2009 (ADSB)	
3461	-01	Policy Letter 98, Rev. 0, January 20, 1999 (Navigation Databases) Flight Management System (FMS)	
3461	-02	Policy Letter 98, Rev. 0, January 20, 1999 (Navigation Databases) Navigation Management System (NMS)	

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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:

2100	-01	(M) Procedure to meet proviso.	
2100	-02	(M) Procedure to ensure system is deactivated and secured.	
2140	-01	(M) Procedure to meet proviso.	
2310	-01	(O) Alternate procedure established as required under 14 CFR.	
2340	-01	(O) Procedure to meet proviso.	
2340	-02	(O) Procedure to meet proviso.	
2500	-01	(M) & (O) Procedures to meet proviso.	
2520	-02	(M) Procedure to meet proviso. (O) Procedure to meet proviso.	
2520	-03	(M) &/or (O) Procedures may be required to meet proviso.	
2520	-04	(M) &/or (O) Procedures may be required to meet proviso.	
2520	-05	(M) &/or (O) Procedures may be required to meet proviso.	
2520	-06	(M) &/or (O) Procedures may be required to meet proviso.	
2550	-01	(M) &/or (O) Procedures may be required to meet proviso.	
2550	-02	(M) &/or (O) Procedures may be required to meet proviso.	
2562	-01	(M) Procedure to meet proviso. (M) Procedure to meet proviso.	
2620	-01	(M) Procedure to meet proviso.	
3230	-01	(M) Procedure to meet proviso.	
3260	-01	(M) Procedure to meet proviso.	
3260	-02	(M) Procedure to meet proviso.	
3260	-03	(M) Procedure to meet proviso.	
3320	-01	(O) Procedure to meet proviso.	
3444	-02	(O) Procedure to meet proviso.	
3445	-01	(M) Procedure to meet proviso. (M) Procedure to meet proviso.	
3445	-02	(M) Procedure to meet proviso. (M) Procedure to meet proviso. (O) Procedure to meet proviso. (O) Procedure to meet proviso.	

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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:

3452	-01	(O) Procedure to meet proviso.	
3461	-01	(O) Procedure to meet proviso.	
3461	-02	(O) Procedure to meet proviso.	
3500	-02	(M) May be in operative provided system is deactivated and secured.	
6321	-01	(M) Procedure to meet proviso.	
6400	-01	(M) May be inoperative provided System is deactivated and secured.	
6400	-02	(M) May be inoperative provided System is deactivated and secured.	
7100	-01	(M) May be inoperative provided System is deactivated and secured.	
7160	-01	(M) May be inoperative provided System is deactivated and secured.	

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

21. AIR CONDITIONING						
2100-01 ***	Environmental Control System	C	-	0	(M) May be inoperative provided: a) Heater air is not required for defrosting/defogging, and b) System is deactivated and secured.	
2100-02 ***	Air Conditioner Freon	C	-	0	(M) May be inoperative provided the system is deactivated and secured.	
2140-01 ***	Heater	C	-	0	(M) May be inoperative provided: a) Heater air is not required for defrosting/defogging, and b) System is deactivated and secured.	

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		4. REMARKS & EXCEPTIONS	

22. AUTO FLIGHT					
2210-01 ***	Automatic flight Control System (AFCS)	C	-	0	May be inoperative for VFR.
2210-02 ***	Attitude Hold	C	-	0	May be inoperative for VFR.

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23. COMMUNICATIONS (Cont'd)						
2311-01 (PL-95)	Communications Systems (UHF) Note: Operators must list type of equipment installed	D	-	-	Two HF Transceivers required for IFR per RFM (Except A-109E). 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.	
2312-01 (PL-95)	Radio-Communication (VHF) Transmitters and Receivers. Note: Operators must list type of equipment installed	D	-	-	Two HF Transceivers required for IFR per RFM (Except A-109E). 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 ***	Cabin Speaker/ Passenger Interphone System	A	-	0	(O) May be inoperative provided: a) Alternate normal and emergency procedures and/or operating restrictions are established and utilized, b) Appropriate oral briefing is given to passengers, and c) Aircraft may continue flight or a series of flights for maximum of 15 hours, OR d) For non-passenger carrying operations.	
2340-02 ***	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.	

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		4. REMARKS & EXCEPTIONS	

23. COMMUNICATIONS (Cont'd)						
2370-01 *** (PL-29)	Cockpit Voice Recorder (CVR) (Aircraft <i>Without</i> a Flight Data Recorder installed in the aircraft.) NOTE: See Item 3130-01 for aircraft equipped with both CVR and FDR.	A	1	0	May be inoperative provided repairs are made within three flight days.	
***	Independent Power Source	C	1	0		
2370-02 *** (PL-29)	Cockpit Voice Recorder (CVR) (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 CFR.	
***	Independent Power Source	C	1	0		

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24. ELECTRICAL POWER						
2422-01	Inverters (Except A109E)	B	3	2	One may be inoperative for IFR provided RFM limitations are complied with. Two may be inoperative for VFR.	
2422-02	Inverters (A109E)	B	2	1	One may be inoperative for VFR provided RFM limitations are complied with.	
2435-01	Starter/Generator	B	2	1	(M) One generator may be inoperative for day VFR provided the inoperative generator is deactivated.	
2450-01	Ammeter, Dual Indicator	C	1	0	One indicator needle may be inoperative.	

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25. EQUIPMENT/FURNISHINGS						
2500-01 (PL-116)	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) and/or (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	2	1	If harness becomes inoperative and is required by 14 CFR, seat must be blocked and placarded.	
2520-01	Passenger Seat Belts and/or Shoulder Harness	C	-	0	One for each occupied seat. If belt and/or shoulder harness are inoperative or missing, seat must be blocked and placarded.	
2520-02 ***	EMS Equipment Special/Mission Equipment (Cargo Hook, Rescue Hoist, Loud-speaker, EMS Equipment, etc.)	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.	
2520-03 ***	LifePort, Inc. - Medical System (STC SR01525NY) (A109E Only)	C	-	-	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	
2520-04 ***	LifePort, Inc. - Stretcher (STC SR01865LA) (A109E Only)	C	-	-	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)						
2520-05 ***	Spectrum Aeromed, Inc. – Air Ambulance Conversion (STC SR02257CH)	C	-	-	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	
2520-06 ***	Spectrum Aeromed, Inc. - EMS ITS Deck (STC SR02894CH) (A109E & A109K2 Only)	C	-	-	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	
2550-01 ***	Cargo Suspension System	C	-	0	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	
2550-02 ***	Hoist	C	-	0	May be inoperative, damaged, or missing. (M) and/or (O) procedures may be required.	
2560-01 ***	Helicopter Flotation Devices	C	-	0	As required by 14 CFR.	
2560-02 ***	First Aid Kit	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing.	
2561-01 ***	Personal Flotation	C	-	-	As required by 14 CFR.	

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25. EQUIPMENT/FURNISHINGS (Cont'd)						
2562-01	Emergency Locator Transmitter (ELT)					
(PL-120)						
***	Survival Type ELTs	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing.	
***	Fixed ELTs	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 inoperative or missing.	

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26. FIRE PROTECTION					
2610-01 ***	Baggage Smoke Detector	B	-	0	
2620-01 ***	Engine Fire Extinguisher System (For Non Category "A" Operations)	B	-	0	(M) May be inoperative, provided the inoperative system is deactivated and secured.
2622-01 ***	Portable Fire Extinguisher	D	-	1	Any in excess of those required by 14 CFR may be inoperative or missing provided: <ul style="list-style-type: none"> a) The inoperative fire extinguisher is tagged inoperative, removed from the installed location, and placed out of sight so it cannot be mistaken for a functional unit, and b) Required distribution is maintained.

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27. FLIGHT CONTROLS					
2700-01	Force Trim System	C	1	0	May be inoperative for VFR. NOTE: With copilot's cyclic removed, jumper is required for force trim operation on pilot's cyclic.

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28. FUEL					
2822-01	Airframe Fuel Boost Pump:				
	1) S/N 7101 thru 7129	B	2	1	One may be inoperative for VFR provided: a) Both Fuel Boost Pump Caution Systems are operative, and b) RFM Limitations are complied with.
	2) S/N 7130 and subsequent (Except A109E)	B	4	2	One may be inoperative in each tank for VFR.
3) A109E	B	2	1	One may be inoperative in each tank for VFR.	
2822-02 ***	Fuel Boost Pump Caution System				
	1) S/N 7101 thru 7129	C	2	1	One system may be inoperative provided both Boost Pumps are operative.
	2) S/N 7130 and subsequent (Except A109E)	B	4	3	One system may be inoperative provided respective Fuel Boost Pump is inoperative.
3) A109E	B	2	0	May be inoperative provided Fuel Pressure indicating System is operative.	

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		3. NUMBER REQUIRED FOR DISPATCH	
		4. REMARKS & EXCEPTIONS	

28. FUEL (Cont'd)						
2841-01 ***	Extended Range (ER) Fuel Tank Indicating System 1) All Models (Except A109E) 2) A109E	C	-	0	May be inoperative provided: a) Flight is not predicated on its use, and b) Quantity (Weight) of fuel in ER tank is verified prior to flight.	
		C	-	0	May be inoperative provided: a) Flight is not predicated on its use, and b) Total Quantity (Weight) of fuel in ER tank is verified prior to flight.	
2842-01 ***	Fuel Flow Indicator	C	-	0	May be inoperative provided flight is not predicated on its use.	
2844-01	Fuel Pressure Indicator 1) All Models (Except A109E) 2) A109E	C	1	0	May be inoperative provided Fuel Boost Pump Caution System (Item 2822-02) is operative.	
		B	2	0	May be inoperative provided Fuel Boost Pump Caution System (Item 2822-02) is operative.	

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		4. REMARKS & EXCEPTIONS			
29. HYDRAULIC POWER					
2931-01	Main and Emergency Charging Lights (S/N 7256 and subsequent)	C	2	0	May be inoperative provided pilot monitors hydraulic pressure indicators.

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		4. REMARKS & EXCEPTIONS	

30. ICE AND RAIN PROTECTION						
3030-01	Pitot Tube Heat System	C	-	0	May be inoperative provided: a) Flight is in VFR conditions, b) Ambient temperature is above +4°C (39°F), and c) Operations are not conducted in visible moisture.	
3040-01 ***	Windshield Wiper System	C	-	0		
3080-01	Engine Anti-Ice (De-Ice Lights) 1) “ENG DE ICE” Advisory (A109C only)	B	2	0	May be inoperative provided: a) Flight is in VFR conditions, b) Ambient temperature is above +4°C (39°F), and c) Operations are not conducted in visible moisture.	
	2) “ENG DE ICE” Caution Lights (All except A109E)	B	2	0	May be inoperative provided: a) Flight is in VFR conditions, b) Ambient temperature is above +4°C (39°F), and c) Operations are not conducted in visible moisture.	

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31. INSTRUMENTS						
3120-01	Clock (Displaying Hours, Minutes, and Seconds with Sweep-Second Pointer or Digital Presentation)	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.	
3120-02 ***	Elapsed Timer	C	-	0	May be inoperative for VFR provided Clock (Item 3120-01) or an alternate time source is operative.	
3120-03 ***	Hour Meter	C	-	0		

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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)	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	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.
***	FDR Recording Parameters <u>not required</u> by 14 CFR	A	-	-	May be inoperative provided repairs are made prior to the completion of the next scheduled maintenance visit.

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31. INSTRUMENTS (Cont'd)						
3130-02 *** (PL-87)	Flight Data Recorder (FDR) System installed for an operator <i>other than</i> a holder of an air carrier or commercial operator certificate.	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.	
3132-01 ***	Aircraft/Engine Monitoring System	C	-	0		

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32. LANDING GEAR						
3230-01	Landing Gear Extension/Retraction System	C	1	0	(M) May be inoperative provided: a) Landing gear handle is secured in the down position, and b) RFM airspeed limitations for gear down operations are complied with.	
3260-01	Landing Gear Position Indicating System	B	1	0	(M) May be inoperative provided: a) Landing gear handle is secured in the down position, and b) RFM airspeed limitations for gear down operations are complied with.	
3260-02 ***	Landing Gear Up Caution System (With radio altimeter) (Audio/Voice, Visual)	C	-	0	(M) May be inoperative provided: a) Landing gear handle is secured in the down position, and b) RFM airspeed limitations for gear down operations are complied with.	
3260-03	Landing Gear Emergency Extension System	C	1	0	(M) May be inoperative provided: a) Landing gear handle is secured in the down position, and b) RFM airspeed limitations for gear down operations are complied with.	
3260-04 ***	Nose Wheel Unlock Warning System	C	-	0		

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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.	
3300-02 ***	Aviation Specialties Unlimited - Night Vision Goggle Compatible Lighting System (STC SR01476SE)	C	-	-	May be inoperative for Day operations.	
3310-01	Cockpit Instrument Lighting System	C	-	-	Individual lights may be inoperative provided remaining lights are: a) Sufficient to clearly illuminate all required instruments, controls, and other devices for which it is provided, b) Positioned so that direct rays are shielded from flight crewmembers eyes, and c) Lighting configuration and intensity is acceptable to the flight crew.	
3310-02	Overhead Map Lights	C	2	1	May be inoperative for Day VFR Operations.	
		C	2	0		

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33. LIGHTS (Cont'd)						
3320-01	Passenger Notice System (Fasten Seat Belt- No Smoking)	B	-	0	(O) May be inoperative provided: a) Passengers are not carried, b) Alternative procedures are used for passenger notification, OR c) Cabin Speaker/Passenger Interphone System (Item 2340- 01) is installed and operative.	
3320-02 ***	Cabin Lighting System	C	-	0	May be inoperative provided: a) Day operations only, OR b) Inoperative lights do not exceed fifty (50) percent of the total installed.	
3340-01	Position Light System	C	1	0	May be inoperative for Day operations, OR As required by 14 CFR.	
3340-02	Anti-Collision Light System	B	1	0	May be inoperative for Day operations. OR As required by 14 CFR.	
3340-03	Landing Lights	C	-	0	May be inoperative for Day operations.	
3340-04 ***	Strobe Light System	C	-	0	May be inoperative for Day operations.	
3340-05 ***	External Utility Lights(s)	C	-	0	May be inoperative for Day operations.	
3340-06 ***	Supplemental Lighting System	C	-	0	May be inoperative for Day operations.	
3340-07 ***	Searchlight (Retractable)	C	-	0	May be inoperative for Day operations.	
		C	-	0	May be inoperative for Night operations if the Landing Lights (Item 3340-03) are operational.	

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33. LIGHTS (Cont'd)						
3340-08 ***	DeVore Aviation Corp. of America - LED Tail Rotor Floodlights (STC SH4676SW)	C	-	0	May be inoperative for Day operations.	
3340-09 ***	Agusta Aerospace Corp. - Aft Controllable Searchlight (STC SR01676NY)	C	-	0	May be inoperative for Day operations.	

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34. NAVIGATION						
3410-01 ***	GPS/COMM/NAV Note: Operators must list type of equipment installed					
	GPS & NAV (System/Function)	B	-	-	As required by 14 CFR: a) System/Function may be inoperative provided navigation is not predicated on it's use, b) 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.	
	COMM (System/Function)	B	-	-	As required by 14 CFR: a) System/Function may be inoperative provided navigation is not predicated on it's use, b) 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.	
3411-01	Sensitive Altimeter Adjustable for Barometric Pressure	B	2	1	Copilots may be inoperative for single pilot VFR.	

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		4. REMARKS & EXCEPTIONS		

34. NAVIGATION (Cont'd)					
3413-01	Instantaneous Vertical Speed Indicator (IVSI) or Vertical Speed Indicator (VSI)	B	-	-	Copilot's may be inoperative for single pilot operations. Pilot's must be operative for Category "A" Operations and for IFR.
3414-01	Airspeed Indicator	B	2	1	Copilot's may be inoperative for single pilot VFR.
3420-01	Attitude Direction Indicator (ADI) or Electronic Attitude Direction Indicator (EADI)	B	2	1	Copilot's may be inoperative for single pilot VFR.
3421-01 ***	Standby Attitude Indicator	B	-	0	As required by 14 CFR.
3422-01	Horizontal Situation Indicator (HSI) or Electronic Horizontal Situation Indicator (EHSI)	B	2	1	Copilot's may be inoperative for single pilot VFR.
3423-01	Magnetic Direction Indicator	C	2	1	Copilots may be inoperative.
3424-02	Slip-Skid Indicator	B	2	1	Copilots may be inoperative.
3425-01 ***	Flight Director	C	-	-	As required by 14 CFR.
3432-01 ***	Navigation Systems (ILS) Note: Operators must list type of equipment installed	C	-	0	As required by 14 CFR.
3434-01 ***	Marker Beacon	C	-	0	May be inoperative provided navigation is not predicated on its use.

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34. NAVIGATION (Cont'd)						
3434-02 ***	Max-Viz EVS-1000 Enhanced Vision System (STC SR02150NY) (A109E Only)	C	-	0		
3442-01 ***	Weather Radar System	C	-	0	As required by 14 CFR.	
3444-01 ***	Radar Altimeter	B	-	-	As required by 14 CFR.	
3444-02 *** (PL-54)	Terrain Awareness and Warning System (TAWS)(EGPWS)	C	1	0	(O) May be inoperative provided alternate procedures are established and used. NOTE: Any mode that operates normally may be used.	
3445-01 *** (PL-32)	Traffic Alert and Collision Avoidance System (TCAS I)	B C	-	0 0	(M) May be inoperative provided: a) System is deactivated and secured, b) Enroute or approach procedures do not require its use. (M) May be inoperative provided: a) Not required by 14 CFR, b) System is deactivated and secured, c) Enroute or approach procedures do not require its use.	

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34. NAVIGATION (Cont'd)						
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.	
	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.		

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34. NAVIGATION (Cont'd)					
3445-02 (Cont'd) (PL-32) ***	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	
3451-01 ***	DME	C	-	0	As required for IFR per applicable RFM.
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.
		D	-	1	
	1) Elementary and Enhanced Downlink Aircraft Reportable Parameters <u>not required</u> by 14 CFR	A	-	0	May be inoperative, provided: a) Operations do not require its use, and b) Repairs are made prior to completion of next scheduled maintenance visit.
		D	-	0	May be inoperative provided operations do not require its use.
2) ADS-B Squitter Transmissions	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, the 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 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 flight crew.
	3) Data Link Transmitter(s)	D	-	0	NOTE: In some aircraft the Data Link transmission is an integral part of the transponder and relief is provided in that section.
	4) Data Link Receivers	D	-	0	
	5) ADS-B Applications	D	-	0	
3452-03 ***	Altitude Encoding System	C	-	-	As required by 14 CFR.
3454-01 ***	Navigation System (VOR) Note: Operators must list type of equipment installed	C	-	-	As required by 14 CFR.
3455-01 ***	Navigation System (ADF)	C	-	-	As required by 14 CFR.

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34. NAVIGATION (Cont'd)						
3457-01 ***	Garmin AT, Inc. - Garmin 400W/500W GPS-WAAS (STC SR02232LA) (Except A109K2)	C	-	-	As required by 14 CFR.	
3457-02 ***	Surface Navigation System (GPS) Note: Operators must list type of equipment installed	C	-	-	As required by 14 CFR.	
3460-01 ***	Moving Map Display	C	-	0	As required by 14 CFR.	
3461-01 *** (PL-98)	Flight Management System (FMS) Navigation Databases	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) Navigation Databases	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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34. NAVIGATION (Cont'd)					
3461-03 ***	Flight Data Monitoring System (STC SR03055CH)	C	-	-	As required by 14 CFR.

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35. OXYGEN						
3500-01 ***	Oxygen Systems and Masks	C	-	0	As required by 14 CFR.	
3500-02 ***	Sikorsky Aircraft Corp. - LOX System (STC SR01124NY-D)	C	-	0	(M) May be inoperative provided system is deactivated and secured.	

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		4. REMARKS & EXCEPTIONS	

52. DOORS					
5270-01	External Power Door Caution Light	C	1	0	May be inoperative provided a visual check verifies that the door is closed and latched prior to flight.
5270-02	Door Caution System	C	-	0	May be inoperative provided a visual check verifies that the door is closed and latched prior to flight.
5270-03	Baggage Door Caution System	C	-	0	May be inoperative provided a visual check verifies that the door is closed and latched prior to flight.
5270-04 ***	Sponson Mounted Baggage Compartment Door Micro Camera	C	-	0	

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AIRCRAFT: A109, A109A, A109A II, A109C, A109E, A109K2		REVISION NO. 7 DATE: 08/12/215		PAGE NO. 63-1	
JASC SYSTEM & TITLE		1. REPAIR CATEGORY			
JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED			
		3. NUMBER REQUIRED FOR DISPATCH			
		4. REMARKS & EXCEPTIONS			
63. MAIN ROTOR DRIVE					
6321-01 ***	Rotor Brake System	C	-	0	(M) May be inoperative provided: a) Maintenance inspection determines Rotor Disc is free, and b) System is deactivated and secured.

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AIRCRAFT: A109, A109A, A109A II, A109C, A109E, A109K2		REVISION NO. 7 DATE: 08/12/215	PAGE NO. 64-1
JASC SYSTEM & TITLE		1. REPAIR CATEGORY	
JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED	
		3. NUMBER REQUIRED FOR DISPATCH	
		4. REMARKS & EXCEPTIONS	

64. TAIL ROTOR

6400-01 ***	Dart Aerospace USA, Inc. - Tail Rotor Pedal Lockout Kit (STC SR02258SE)	C	-	-	(M) May be inoperative provided System is deactivated and secured.	
6400-02 ***	Bell Helicopter Textron, Inc. - Tail Rotor Pedal Lockout Kit (STC SR01844AT)	C	-	-	(M) May be inoperative provided System is deactivated and secured.	

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AIRCRAFT: A109, A109A, A109A II, A109C, A109E, A109K2		REVISION NO. 7 DATE: 08/12/215		PAGE NO. 77-1	
JASC SYSTEM & TITLE		1. REPAIR CATEGORY			
JASC CODE & ITEM NO.	COMPONENT DESCRIPTION	2. NUMBER INSTALLED			
		3. NUMBER REQUIRED FOR DISPATCH			
		4. REMARKS & EXCEPTIONS			
77. ENGINE INDICATING					
7710-01	Tachometer Triple Indicator (N2, NR)	B	1	0	One or both N2's may be inoperative provided respective engine torque is operative. The NR must be operative.