# EUROPEAN AVIATION SAFETY AGENCY

# MASTER MINIMUM EQUIPMENT LIST (SUPPLEMENT)

EMBRAER 170/175/190/195

**REVISION 9** 

# MASTER MINIMUM EQUIPMENT LIST

Revision: 9 Date: 30 September 2014

# SUPPLEMENT

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#### **REVISION 9**

This Master Minimum Equipment List (MMEL) Supplement is approved by the European Aviation Safety Agency (EASA) at the hereafter revision under the type certificate (EASA TC EASA.IM.A.001) as part of the Operational Suitability Data (OSD) as per Regulation (EU) 748/2012 as amended by Regulation (EU) No 69/2014.

This EASA MMEL Supplement must only be used in conjunction with the ANAC Approved MMEL at **Revision 10 (dated September 30th, 2014)**.

Signed by

1 Laurent Gruz

**Regional Transport Aeroplanes Section** 

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# **REVISION RECORD**

<b>REVISION No.</b>	ISSUE DATE	INCORPORATED BY	DATE
Original	20 February 2004		
Revision 1	30 May 2005		
Revision 2	30 June 2005		
Revision 3	30 September 2005		
Revision 4	31 July 2006		
Revision 5	26 November 2007		
Revision 6	30 April 2009		
Revision 7	6 January 2012		
Revision 8	13 June 2014		
Revision 9	30 September 2014		

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# **REVISION HIGHLIGHTS**

## **Revision 1**

Guidance	Base documents updated.	
ATA 27	Flight Controls	
27-53-02	Slat/Flap Actuator Control Electronic (SF-ACE) Channels	New Supplement entry to indicate that they must be operative.
ATA 32	Landing Gear	
32-33-01	Landing Gear Control Lever Locking System	New Supplement entry to indicate that it must be operative.
ATA 34	Navigation	
34-31-00	Radar Altimeter System	New Supplement entry to align rectification period with that for an inoperative GPWS.
34-41-00	Ground Proximity Warning System	New Supplement entry to align with JAA policy and to prevent dispatch in case of EGPWS continuous warnings or cautions.

# **Revision 2**

Revision 2 has been primarily issued to reflect the incorporation of the EMBRAER 175 model as addressed in the revised ANAC MMEL at Revision 2.

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# **Revision 3**

Definitions	Included reference to Extended Overwater Operations.		
ATA 52	Flight Controls		
52-00-00	Passenger and Service Doors	Removed proviso (a) according to TGL 26.	
52-21-00	Overwing Escape Hatch	New entry applicable to EMBRAER 190 only.	
52-70-00	Door Position Indication on MFD and associated EICAS Message	Changed the number installed and required for dispatch to accommodate the EMBRAER 170 and EMBRAER 190 models.	
<b>Revision 4</b>			

Revision 4 has been issued to reflect the incorporation of the EMBRAER 195 model as addressed in the revised ANAC MMEL at Revision 4.

ATA 22	AUTO FLIGHT CONTRO	L SYSTEM
22-10-14	Yaw Damper Channels	Removed from JAA Supplement.
22-10-16	Flight Director Channels	Removed from JAA Supplement.
22-11-02	Autopilot/TrimDisengage (AP/TRIM DISC) Buttons	Updated according to ANAC Rev. 4.
ATA 25	EQUIPMENT/FURNISHIN	IGS
25-20-07	Passenger Convenience Item(s)	Remained in accordance with the ANAC previous Rev. 3. JAA/EASA has not established a policy for Non-Essential Furnishings.
ATA 34	NAVIGATION	
34-31-00	Radar Altimeter System	Removed reference to FADEC version.
34-41-00	Ground Proximity Warning System (GPWS)	Deleted proviso referencing predictive windshear as it is not installed on these aircraft. Changed proviso b) for a NOTE.
ATA 52	DOORS	
52-21-00	Overwing Escape Hatch	Included EMBRAER 195.

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Definitions	Added Definition 28 to EASA regulations for ETOPS.		
ATA 22	AUTO FLIGHT CONTROL SYSTEM		
22-11-02	Autopilot/Trim Disengage	Removed from JAA Supplement. Thus, relief is valid in	
	(AP/TRIM DISC) Buttons	accordance with ANAC MMEL.	
ATA 23	COMMUNICATIONS		
23-11-00	High Frequency (HF)	Inclusion in accordance with TGL 26.	
	Communication System		
ATA 25	EQUIPMENT/FURNISHIN	GS	
25-11-01	Pilot Seats: Vertical Power		
	Seat Adjustment System		
25-61-00	Emergency Locator	Revised in accordance with TGL 26.	
	Transmitter (ELT) System		
25-65-00	Emergency Evacuation Slides System	Revised in accordance with TGL 26.	
ATA 28	FUEL		
28-41-00	Fuel Quantity Indication on MFD	Removed from JAA Supplement. Thus, relief is valid in accordance with ANAC MMEL.	
ATA 34	NAVIGATION		
34-42-00	Weather Radar System:	Changed proviso for clarification.	
	Stabilization Function		
ATA 35	OXYGEN		
35-20-00	Passenger Oxygen System	New item in JAA Supplement.	
ATA 52	DOORS		
52-00-00	Passenger and Service	Revised in accordance with TGL 26.	
	Doors		
52-00-30	Passenger and Service	Revised in accordance with TGL 26.	
	Doors Emergency Opening		
	Assisting System		
52-21-00	Overwing Escape Hatch	Revised in accordance with TGL 26.	
Editorial corr	ection on pages S52-2, S523, S5	52-4, S52-6 and S52-8.	

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This revision reflects the incorporation of the 190-100 ECJ (Lineage 1000) model as addressed in the ANAC MMEL at Revision 6.			
Preamble	Revision 6. Revised text to clarify "Rectification Interval Extensions"		
Definitions	Revised several references from JAR-OPS 1 to EU-OPS.		
	Revised Definition 28 and added	the ECJ model ETOPS approval.	
<b>ATA 25</b> 25-65-00	EQUIPMENT/FURNISHINGSEmergency Escape SlidesAdded restriction to ECJ model.		
<b>ATA 26</b> 26-10-01	FIRE PROTECTION Lavatory Smoke Detection System	New item in JAA Supplement.	
ATA 34	NAVIGATION		
34-11-00	Integrated Electronic	Added a new condition (5) according to ANAC MMEL.	
34-31-00	Standby System (IESS) Radar Altimeter System	Added new remarks for ECJ models.	
<b>ATA 44</b> 44-13-00	CABIN SYSTEMS Cabin Service Interphone	Added restriction to ECJ model.	
11 15 00	System		
ATA 46	INFORMATION SYSTEMS		
46-20-00	Electronic Flight Bag	Added new item according to TGL 26.	
A TT A 50	DOODG		
ATA 52 52-00-00	<b>DOORS</b> Passenger and Service	Added restriction to ECJ model.	
	Doors		
52-00-30	Passenger and Service Doors Emergency Opening	Added restriction to ECJ model.	
	Assisting System		
52-21-00	Overwing Escape Hatch	Added restriction to ECJ model.	
52-31-20	Fwd (Aft) Cargo Door Green Inciators	New supplement entry to indicate that all must be operative.	
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This Revisio	in reflects the JAA Supplement co	nversion to an EASA Supplement.
Preamble	Updated text to CLARIFY	
Guidance	"Guidance for use of this Supp	ement" updated
ATA 23	COMMUNICATIONS	
23-51-02	Cockpit Speakers	New item in EASA Supplement.
23-51-08	Flight Deck Headsets/Headphones	Revised in accordance to TGL 26.
ATA 25	EQUIPMENT/FURNISHIN	GS
25-61-00	Emergency Locator Transmitter (ELT) System	Removed word system from item title.
ATA 27	FLIGHT CONTROLS	
27-03-04	Pitch Trim System Channel Cutout Pushbutton Illumination	New item in EASA Supplement.
27-53-02	Slat/Flap Actuator Control Electronic (SF-ACE) Channels	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
ATA 29	HYDRAULIC POWER	
29-11-04	Systems 1 and 2 Filter Manifold Differential Pressure Indicator	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
29-11-06	Systems 1 and 2 Case Drain Differential Pressure Indicator	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
29-12-02	System 3 Filter Manifold Differential Pressure Indicator	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
29-12-04	System 3 Case Drain Differential Pressure Indicator	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.

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# **Revision 7**

ATA 34	NAVIGATION	
34-11-00	Integrated Electronic Standby System	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
34-31-00	Radar Altimeter System	Added request for deactivation of the system.
34-41-00	Ground Proximity Warning System	Updated according to ANAC Rev. 7 and TGL 26.
34-61-00	Flight Management System	Revised in accordance to TGL 26.
<b>ATA 46</b> 46-21-00	<b>INFORMATION SYSTEMS</b> Electronic Flight Bag Systems	Updated according to ANAC Rev. 7.

# ATA 50 CARGO AND ACCESSORY COMPARTMENTS

Recorder (DVDR) System

50-22-02 Cargo / Baggage Nets New item in EASA Supplement.

ATA 22	AUTO FLIGHT CONTROL SYSTEM		
22-11-01-15	Altitude Hold (ALT) Mode Button	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.	
ATA 23	COMMUNICATIONS		
23-51-00	Cockpit/Cabin Service Interphone System	Revised in accordance to CS MMEL.	
ATA 25	EQUIPMENT/FURNISHIN	GS	
25-11-02	Observer Seat (Including Associated Equipment)	Revised in accordance to CS MMEL.	
25-20-07	Passenger Convenience Item(s)	Added repair interval.	
25-62-01	Emergency Medical Equipment	Revised in accordance to CS MMEL.	
25-66-01	Life Rafts	New item in EASA Supplement.	
ATA 30	ICE AND RAIN PROTECT	TION	
30-41-00	Windshield Wiper System	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.	
ATA 31	INDICATING / RECORDIN	NG SYSTEMS	
31-31-00	Digital Voice-Data	Revised in accordance to CS MMEL.	

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ATA 33	LIGHTS	
33-45-00	Red Beacon Lights	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
ATA 34	NAVIGATION	
34-42-00	Weather Radar System	Revised in accordance to CS MMEL.
34-52-00	ATC Transponder and Automatic Altitude Reporting System	Revised in accordance to CS MMEL.
ATA 44	CABIN SYSTEMS	
44-11-00	Passenger Address	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
44-13-00	Cabin Service Interphone System	Removed from EASA Supplement. Thus, relief is valid in accordance with ANAC MMEL.
44-13-01	Flight Attendant Handset	Revised in accordance to CS MMEL.
ATA 52	DOORS	
52-00-00	Passenger and Service Doors	Revised in accordance to CS MMEL.

## **Revision 9**

Definitions Definition for ETOPS and ER operations were placed as item 11, including the note related to EMBRAER 190 ECJ (Lineage 1000). Updated subsequent list numbers.

#### **REVISION HIGHLIGHTS**

**Revision Highlights** 

Editorial corrections of Revision 8 highlights.

# ATA 34 NAVIGATION

34-52-00

ATC Transponder and Automatic Altitude

**Reporting System** 

Updated reference to ACAS MMEL item.

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#### PREAMBLE

## **Introduction**

The following is applicable for operators under European air operations regulations (Regulation Air Operations). Paragraph 1.c.2 of Annex I to Article 5 (essential requirements for airworthiness) of Regulation (EC) No 216/2008 (the 'Basic Regulation') requires that all equipment installed on an aircraft required for type certification or by operating rules shall be operative. However, paragraph 2.a.3 of Annex IV to Article 8 (essential requirements for air operations) of the Basic Regulation also allows the use of a Minimum Equipment List (MEL) where compliance with certain equipment requirements is not necessary in the interests of safety under all operating conditions. Experience has shown that with the various levels of redundancy designed into aircraft, operation of every system or installed items may not be necessary when the remaining operative equipment can provide an acceptable level of safety.

#### **Purpose and limitations**

This Master Minimum Equipment List (MMEL) is developed by the applicant and holders of (Supplemental) Type Certificate and approved by the European Aviation Safety Agency to improve aircraft use and thereby providing more convenient and economic air transportation for the public. This MMEL includes those items related to airworthiness, air operations, airspace requirements and other items the Agency finds may be inoperative and yet maintain an acceptable level of safety by appropriate conditions and limitations; it does not contain obviously required items such as wings, flaps, and rudders. In order to maintain an acceptable level of safety, the MMEL establishes limitations on the duration of and conditions for operation with inoperative items. Unless specifically allowed by this MMEL, an inoperative item may not be removed from the aircraft.

## **Utilisation**

The MMEL is the basis for the development of individual operator's MEL which take into consideration the operator's particular aircraft equipment configuration and operational conditions. An operator's MEL may differ in format from the MMEL, but shall not be less restrictive than the MMEL. The individual operator's MEL, when approved, allows operation of the aircraft with inoperative items of equipment for a certain period of time until rectification can be accomplished.

The MEL cannot deviate from Airworthiness Directives, or any other additional mandatory requirements. It is important to remember that all items related to the airworthiness and the operational regulations of the aircraft not listed on the MMEL shall be operative.

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## PREAMBLE (Cont.)

Suitable conditions and limitations in the form of placards, maintenance procedures, crew operating procedures and other restrictions as prescribed in this MMEL shall be specified in the MEL to ensure that an acceptable level of safety is maintained. It is important that rectifications be accomplished at the earliest opportunity.

When an item is discovered to be inoperative, it is reported by making an entry in the continuing airworthiness record system or the operator's technical log, as applicable. Following sufficient fault identification, the item is then either rectified or deferred following the MEL or other approved means of compliance acceptable to the competent authority and the Agency prior to further operation. MEL conditions and limitations do not relieve the operator from determining that the aircraft is in a condition for safe operation with items inoperative.

Prior to operation with any item inoperative acceptance by the crew is required in accordance with the continuing airworthiness management procedures.

Operators shall establish a controlled and sound rectification programme including the parts, personnel, facilities, procedures and schedules to ensure timely rectification

# Operators should include guidance in the MEL to deal with any failures which occur between the commencement of the flight and the start of the take-off.

When developing the MEL, compliance with the stated intent of the preamble, definitions and the conditions and limitations specified in this MMEL is required.

#### **Multiple inoperative items**

Operators are responsible for exercising the necessary operational control to ensure that an acceptable level of safety is maintained. The exposure to additional failures during continued operation with inoperative items shall also be considered. Wherever possible, account has been taken in this MMEL of multiple inoperative items. However, it is unlikely that all possible combinations of this nature have been accounted for. Therefore, when operating with multiple inoperative items, the inter-relationships between those items and the effect on aircraft operation and crew workload shall be considered.

## **Rectification interval extension**

The operator may be permitted, by its competent authority, to extend the rectification intervals of the MEL.

This MMEL has been evaluated taking into account a one-time extension of the rectification intervals of category B, C and D.

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## **DEFINITIONS AND SYMBOLOGY**

- 1. 'Airplane Flight Manual' (AFM) means the document required for type certification and approved by the Agency. The AFM for the specific aircraft is listed on the applicable Type Certificate Data Sheet.
- 2. 'Alternate procedures are established and used' or similar statement, means that alternate procedures (if applicable), to the affected process, must be drawn up by the operator as part of the MEL approval process, so that they have been established before the MEL document has been approved. Such alternate procedures are normally included in the associated operations (O) procedure.
- 3. **'Any in excess of those required by regulations'** means that the listed item is required by applicable legislation (e.g. Part OPS, Single European Sky legislation or the applicable airspace requirements) must be operative and only excess items may be inoperative. When the item is not required, it may be inoperative for the time specified by its rectification interval category. Whenever this condition is used in the MMEL, the applicable regulations for the intended flight routes and the resulting dispatch restrictions need to be clarified at the operator's MEL level.
- 4. **'As required by (operational) regulations'** means that the listed item of equipment is subject to certain provisions (restrictive or permissive) expressed in the applicable legislation (e.g. regulation Air Operations, Single European Sky legislation or the applicable airspace requirements). When the equipment is not required, it may be inoperative for the time specified by its rectification interval category.
- 5. **'Calendar Day'** means a 24-hour period from midnight to midnight based on either UTC or local time, as selected by the operator. All calendar days are considered to run consecutively.
- 6. **'Combustible Material'** means the material which is capable of catching fire and burning. In particular: if a MEL item prohibits loading of combustible (or flammable or inflammable) material, no material may be loaded except the following:
  - 1) Cargo handling equipment (unloaded, empty or with ballast);
  - 2) Fly away kits (excluding e.g. cans of hydraulic fluid, cleaning solvents, batteries, capacitors, chemical generators, etc.);

Note: If serviceable tyres are included, they should only be inflated to a minimum pressure that preserves their serviceability; and

- 3) Inflight service material (return catering only closed catering trolleys/boxes, no newspapers, no alcohol or duty free goods).
- 7. **'Commencement of flight'** is the point when an aircraft begins to move under its own power for the purpose of preparing for take-off.
- 8. **'Considered Inoperative'** as used in the dispatch conditions, means that item must be treated for dispatch, taxiing and flight purposes as though it were inoperative. The item shall not be used or operated until the original deferred item is repaired. Additional actions include: documenting the item on the dispatch release (if applicable), placarding, and complying with all remarks, exceptions, and related MMEL provisions, including any (M) and (O) procedures and observing the rectification interval.

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#### DEFINITIONS AND SYMBOLOGY (Cont.)

- 9. **'Daylight'** means the period between the beginning of morning civil twilight and the end of evening civil twilight relevant to the local aeronautical airspace; or such other period, as may be prescribed by the appropriate authority.
- 10. **'Day of discovery'** means the calendar day that a malfunction was recorded in the aircraft maintenance record/log book.
- 11. **'ETOPS'** or **'ER operations'** refers to extended range operations of a two- engine airplane as defined by Part-SPA.

NOTE: Only EMBRAER 190 ECJ (Lineage 1000) model is approved for ETOPS by EASA.

- 12. **'Flight'** for the purposes of this MMEL, means the period of time between the moment when an aircraft begins to move under its own power, for the purpose of preparing for take-off, until the moment the aircraft comes to a complete stop on its parking area, after the first landing.
- 13. **'Flight Day'**, a 24-hour period from midnight to midnight based on either UTC or local time, as selected by the operator, during which at least one flight is initiated for the affected aircraft.
- 14. **'Icing Conditions'** means an atmospheric environment that may cause ice to form on the aircraft or in the engine(s) as defined in the AFM/RFM.
- 15. **'If installed'** means that the item is either optional or is not required to be installed on all aircraft covered by the MMEL.
- 16. **'Inoperative'** means that the item does not accomplish its intended purpose or is not consistently functioning within its approved operating limits or tolerances.
- 17. **'Is not used'** in the provisions, remarks or exceptions for an MMEL item may specify that another item relieved in the MMEL 'is not used'. In such cases, crew members should not activate, actuate, or otherwise utilise that item under normal operations. It is not necessary for the operators to accomplish the (M) procedures associated with the item. However, operations-related provisions, (O) procedures must be complied with. An additional placard must be affixed, to the extent practical, adjacent to the control or indicator for the item that is not used to inform crew members that an item is not to be used under normal operations.
- 18. **'Intended flight route'** corresponds to any point on the route including diversions to reach alternate aerodromes required to be selected by the operational rules.
- 19. 'Item' means component, instrument, equipment, system or function.
- 20. '(M)' indicates a requirement for a specific maintenance procedure which must be accomplished prior to operation with the listed item inoperative. Normally these procedures are accomplished by maintenance personnel, however, other personnel may be qualified and authorised to perform certain functions. The satisfactory accomplishment of all maintenance procedures, regardless of who performs them, is the responsibility of the operator. Appropriate procedures are required to be published as part of the Operator's Manual or MEL.
- 21. 'Master Minimum Equipment List' means a document approved by the Agency that establishes the aircraft equipment allowed to be inoperative under conditions specified therein for a specific type of aircraft.

#### MASTER MINIMUM EQUIPMENT LIST

Revision: 9 Date: 30 September 2014

#### SUPPLEMENT

## EMBRAER 170/175/190/195

#### DEFINITIONS AND SYMBOLOGY (Cont.)

- 22. 'Maximum distance from an adequate aerodrome for two-engine aeroplanes' as defined in SPA.ETOPS and CAT.OP.AH.140.
- 23. 'Minimum Equipment List' means a document established as specified under 8.a.3. of Annex IV to Regulation (EC) No 216/2008 and approved by the competent authority, in accordance with ORO.MLR.105, that authorises an operator to dispatch an aircraft with aircraft equipment inoperative as per CAT.IDE.A/H.105 or NCC.IDE.A/H.105 under the conditions specified therein.
- 24. **'Notes'** provide additional information for flight crew or maintenance consideration. Notes are used to identify applicable material which is intended to assist with compliance, but do not relieve the operator of the responsibility for compliance with all applicable requirements. Notes are not a part of the dispatch conditions.
- 25. 'Number Installed' is the number (quantity) of items normally installed in the aircraft.

This number represents the aircraft configuration considered in developing this MMEL. Should the number be a variable (e.g. passenger cabin items), or not applicable, a number is not required; a '-' is then inserted.

<u>Note</u>: Where the MMEL shows a variable number installed, the MEL should reflect the actual number installed, as far as practical.

26. **'Number required for dispatch'** is the minimum number (quantity) of items required for operation provided the conditions specified are met. Should the number be a variable (e.g. passenger cabin items) or not applicable, a number is not required; a '-' is then inserted.

<u>Note</u>: Where the MMEL shows a variable number required for dispatch, the MEL should reflect the actual number required for dispatch, as far as practical, or an alternate means of configuration control approved by the competent authority.

27. '-' in the Number Installed Column (respectively Number Required for Dispatch Column) indicates a variable number (quantity) of the item installed (respectively item required) or not applicable.

<u>Note</u>: Where the MMEL shows a variable number installed, the MEL should reflect the actual number installed, as far as practical.

28. '(**O**)' indicates a requirement for a specific operational procedure which must be accomplished in planning for and/or operating with the listed item inoperative. Normally these procedures are accomplished by the flight crew; however, other personnel may be qualified and authorised to perform certain functions. The satisfactory accomplishment of all procedures, regardless of who performs them, is the responsibility of the operator. Appropriate procedures are required to be published as a part of the operator's manual or MEL.

Note: The (M) and (O) symbols are required in the operator's MEL.

29. **'Operating minima'** means the set of requirements associated to operations requiring a specific approval (refer to Part-SPA).

#### MASTER MINIMUM EQUIPMENT LIST

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## SUPPLEMENT

## EMBRAER 170/175/190/195

## DEFINITIONS AND SYMBOLOGY (Cont.)

30. **'Placarding'** Each inoperative item must be placarded, as applicable, to inform and remind the crew members and maintenance personnel of the item's condition.

<u>Note</u>: To the extent practical, placards should be located adjacent to the control or indicator for the item affected; however, unless otherwise specified, placard wording and location will be determined by the operator.

31. **'Rectification intervals'** Inoperative items or components, deferred in accordance with the MEL, must be rectified at or prior to the rectification intervals established by the following letter designators:

## Category A

No standard interval is specified. However, items in this category shall be rectified in accordance with the conditions stated in the MMEL.

- (i). Where a time period is specified in calendar days or flight days, the interval excludes the day of discovery.
- (ii). Where a time period is specified other than in calendar days or flight days, it shall start at the point when the defect is deferred in accordance with the operator's approved MEL.

## Category B

Items in this category shall be rectified within three (3) calendar days, excluding the day of discovery.

#### Category C

Items in this category shall be rectified within ten (10) calendar days, excluding the day of discovery.

## Category D

Items in this category shall be rectified within one hundred and twenty (120) calendar days, excluding the day of discovery.

- 32. **'Remarks or Exceptions'** include statements either prohibiting or allowing operation with a specific number of items inoperative, provisos (conditions and limitations), notes, (M) and/or (O) symbols, as appropriate for such operation.
- 33. 'Required Cabin Crew Seat' is a seat in the aircraft cabin which meets the following conditions:
  - 1) Where the certification of the cabin requires this seat to be occupied by a qualified cabin crew member as specified in the Operations Manual;
  - 2) This seat is a part of the station to which a qualified cabin crew member is assigned for the flight; and
  - 3) The qualified cabin crew member assigned to the station is a member of the minimum cabin crew designated for the flight.
- 34. **'Visible Moisture'** means an atmospheric environment containing water in any form that can be seen in natural or artificial light; for example, clouds, fog, mist, rain, sleet, hail, or snow.

#### MASTER MINIMUM EQUIPMENT LIST

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## SUPPLEMENT

## EMBRAER 170/175/190/195

#### **GUIDANCE FOR USE OF THIS SUPPLEMENT**

- 1. This Supplement is applicable to all ERJ 170-100, ERJ 170-200, ERJ 190-100, ERJ 190-100 ECJ and ERJ 190-200 models which have the commercial designation of EMBRAER 170, EMBRAER 175, EMBRAER 190, LINEAGE 1000 and EMBRAER 195, respectively.
- 2. This Supplement defines the standard of MMEL recommended for the above aircraft type by the European Aviation Safety Agency (EASA) by identifying the differences from the ANAC MMEL.
- 3. The information presented in the ANAC MMEL for the aircraft type is acceptable to EASA except where superseded by an item in this supplement.

<u>NOTE</u>: Items within this supplement will use the same reference number as the corresponding item in the ANAC MMEL. Where an item in this supplement does not appear in the ANAC MMEL, the number will be preceded by "E", and the sequential reference will commence from "1" again. (e.g. E52-1 would be the first EASA specific item in ATA Chapter 52). Such items will be placed at the end of the related chapter.

- 4. Unless otherwise stated within this Supplement, the definitions contained in the ANAC MMEL are applicable. However, EASA equivalents must be assumed in reading and applying both.
- 5. This supplement is based upon the ANAC approved EMBRAER 170/175/190/195 MMEL at Revision 10 dated September 30th, 2014. Additional MMEL alleviation provided by later issues of the ANAC MMEL must <u>not</u> be used until this EASA Supplement has been updated to confirm that issue as the base document.
- 6. The text presented in **bold** format within this document highlights parts of the EASA MMEL Supplement entry which differ from the ANAC MMEL entry.

# MASTER MINIMUM EQUIPMENT LIST

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# SUPPLEMENT

## EMBRAER 170/175/190/195

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(1) System & Sequence Numbers Item			tion Int						
		(3) Number installed							
			(4) N	lumber requ	ired for dispatch				
				(5) Rema	rks or Exceptions				
22 Auto Flight Control System									
-10-00 Autopilot Channels	В	2	0	use.	noperative provided	-	-		
					perations.				
-11-01 Guidance Panel (GP)									
3) Autopilot (AP) Button	В	1	0	May be in	noperative provided	operations do	o not require its use.		
					his system is requi operations.	red to be ope	erative for RVSM		
15) Altitude Hold (ALT) Mode Button				(deleted t	rom supplement on	Revision 8)			

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EMBRAER 170/175/190 (1) System & Sequence Numbers	1		tion In		525-1				
Item	$\frac{1}{2}$	(3) Number installed							
		(3)1							
			(4) N	umber required for dispatch					
22 Communications				(5) Remarks or Exceptions					
23 Communications									
-11-00 High Frequency (HF) Communication System	D	-	-	Any in excess of those required <b>for the</b> be inoperative.	intended route may				
	C	-	1	(O) Any in excess of one may be inoper route that requires two Long Ran Systems, provided:					
				(a) SATCOM air-ground communica Air Navigation Service Provider(s the route to be flown,					
				(b) SATCOM Voice or Data transfer operative,	functions are				
				(c) Prior to each flight, coordination appropriate Air Navigation Servi established where INMARSAT co are not available whilst using SAT function, and	ce Provider(s) is odes, or equivalent,				
				(d) Alternate communication proceed and used.	ures are established				
				NOTE 1: SATCOM is to be used or normal HF communications unless o by the appropriate Air Navigation Serv	therwise authorized				
				NOTE 2: For all routes, consider the ne	eed for TCAS.				
-51-00 Cockpit/Cabin Service Interphone System									
1) Flight Deck to Cabin, Cabin to Flight Deck Functions (except ECJ model)	В	-	-	<ul> <li>(O) May be inoperative provided:</li> <li>a) An adequate number of interphone accessible by each required cabin crassigned area or from the nearest as operative,</li> <li>b) Alternate procedures are established</li> </ul>	rew from its ssigned area are d and used, and				
				c) Flight crew compartment interphor system is operative					
2)Flight Deck to Cabin, Cabin to Flight Deck Functions (EMBRAER 190 ECJ)	D	-	-	<ul><li>(O) May be inoperative provided operatir require its use.</li><li>NOTE: Any station function(s) that opera used.</li></ul>	-				

AIRCF	RAFT E <b>MBRAER 170/175/19</b> 0	)/195	REV DAT	ISION F·	V NO: Revision 8 13 June 2014	PAGE <b>S23-2</b>
	em & Sequence Numbers		ectifica			040-4
nen	1	1	(3) N	umber	installed	
				(4) N	umber required for dispatch	
					(5) Remarks or Exceptions	
23 Con	nmunications					
-51-02	Cockpit Speakers	C	2	0	May be inoperative provided proce use.	edures do not require its
-51-08	Headset with Boom Microphone	D	-	-	Any in excess of one headset (inclu microphone) for each required cre flight deck duty may be inoperativ	w member on

AIRCRAFT		REVISION NO:   Revision 5   PAGE							
EMBRAER 170/175/190		DATE: 26 November 2007 S25-1							
(1) System & Sequence Numbers Item	(2) R	) Rectification Interval							
		(3) N	umber	installed					
		(4) Number required for dispatch							
25 Equipment/Furnishings				(5) Remarks or Exceptions					
-11-01 Pilot Seats									
1) Vertical Power Seat Adjustment System	D	2	0	(M) May be inoperative provided:					
r tegasiment 5 ystern				(a) Affected system is deactivated, and					
				(b) Vertical manual seat adjustment syst	em operates normally.				
2) Vertical Manual Seat Adjustment System	В	2	0	May be inoperative provided:					
r ajustilent bystem				<ul> <li>(a) Affected seat has failed in a position pilot visibility,</li> </ul>	h that permits normal				
				(b) Full flight control movement is avai	lable, and				
				(c) Seat is acceptable to the affected flig	ght crew member.				
	В	2	0	May be inoperative provided vertical po system operates normally.	wer seat adjustment				
7) Recline Function	В	2	0	May be inoperative provided seat is according to the seat of the s	eptable to the affected				

AIRCRAFT			ISION		PAGE				
EMBRAER 170/175/19 (1) System & Sequence Numbers	-		DATE: 13 June 2014 S25-2						
Item	(2) 1								
		(3) Number installed							
			(4) N	lumber required for dispatch					
25 Equipment/Furnishings		(5) Remarks or Exceptions							
11-02 Observer Seat (Including Associated Equipment)	С	1	0	May be inoperative provided a passen passenger cabin is made available to a performance of official duties.					
	С	1	0	May be inoperative provided:					
				(a) Required minimum safety equipm oxygen) is available, and	nent (safety belt and				
				(b) Seat is acceptable to the inspecto performance of official duties.	r for the				
				NOTE 1: These provisos are intended occupancy of the above seat by an insp minimum safety equipment (oxygen an functional and the inspector determine be acceptable.	pector when the nd safety belt) is				
				NOTE 2: The pilot-in-command will d minimum safety equipment is function authorized to occupy the observer sea	nal for other persons				
-20-07 Passenger Convenience Item(s)	D	-	0	Passenger convenience items, as express those related to passenger convenience, of entertainment such as, but not limited to, movie equipment, ash trays, stereo equip reading lamps. Items addressed elsewher shall not be included. (M) and (O) proce and included in the air carrier's appropria	comfort, or , galley equipment, oment, overhead re in this document dures may be required				

AIRCRAFT EMBRAER	2 170/175/190/1	195	REV DAT	ISION E·	NO: <b>Revision 8</b> 13 June 2014	PAGE <b>\$25-3</b>	
(1) System & Sequer Item			ectifica	tion In	terval		
			(3) Number installed				
				(4) N	umber required for dispatch		
					(5) Remarks or Exceptions		
25 Equipment/Furni	ishings						
61-00 Emergency *** Locator Trans (ELT)	smitter						
1) Survival T	Type ELTs	D	-	-	Any in excess of the minimum requi inoperative provided the inoperativ placarded inoperative, removed fro location, and placed out of sight so i for a functional unit.	e equipment is m the installed	
2) Fixed ELT	Гs	A	-	0	May be inoperative provided repair further flights or 25 flying hours, w		
		D	-	-	Any in excess of those required by r inoperative.	regulations may be	
-62-01 Emergency Equipment	Medical						
1) Automat		А	-	0	(O) May be incomplete, missing or in-		
and/or As					(a) AED is resealed in a manner that that can not be mistaken for a ful		
Equipme: ***	nt				(b) Repairs or replacements are made	e within 3 flight cycles.	
		D	-	-	Any in excess of those required by r incomplete, missing or inoperative.	regulations may be	
2) Emergen Kit (EMI Associate		A	-	-	The required emergency medical k for flight to a destination where rep can be made but not to exceed a ma calendar days.	pairs or replacements	
		D	-	-	Any in excess of those required by r incomplete, missing or inoperative.	regulations may be	
3) First Aid and/or As Equipme	ssociated	A	-	-	If more than one is required, only o aid kits may be incomplete for two o		
		D	-	-	Any in excess of those required by r incomplete, missing or inoperative.	regulations may be	
-65-00 Emergency Slides Syste (except EC.	em	A	4	3	(M) (O) One may be inoperative or m of 5 flights provided associated door i inoperative. Refer to item 52-00-00 Pa Doors.	is considered	

(1) System & Sequence Numbers Item       (2) Rectification Interval         (3) Number installed       (3) Number required for dispatch         (5) Remarks or Exceptions       (5) Remarks or Exceptions         (6-01 Life Raft ***       C       -         (1) System & Sequence Numbers       (2) Rectification Interval         (3) Number installed       (4) Number required for dispatch         (5) Remarks or Exceptions       (5) Remarks or Exceptions         (6-01 Life Raft       C       -         (7) Home required distribution is maintained,       (1) Inoperative life raft and its installed location are placarded inoperative,         (8) Inoperative life raft and its installed location are placarded inoperative,       (2) When practical, the inoperative life raft is secure of sight, and         (1) D       -       -       (0) May be inoperative or missing equipment.         (1) D       -       -       (0) May be inoperative or missing equipment.         (1) Procedures are established and used to alert crew members of inoperative or missing equipment.       (1) Procedures are established and used to alert crew members of inoperative or missing equipment.	AIRCRAFT EMBRAER 170/175/19	0/195	REV DAT	'ISION 'E:	NO: Revision 8 13 June 2014	PAGE <b>S25-4</b>				
(3) Number installed         (3) Number installed         (4) Number required for dispatch         (5) Remarks or Exceptions         (6-01 Life Raft         ***         (6-01 Life Raft         (7) C         -         (M)(O) Any in excess of those required for the intend flight may be inoperative or missing for flights over or provided that:         (a) Required distribution is maintained,         (b) Inoperative life raft and its installed location are placarded inoperative,         (c) When practical, the inoperative life raft is secur of sight, and         (d) Procedures are established and used to alert cree members of inoperative or missing equipment.         D       -         (O) May be inoperative or missing provided that:         (a) Flights over water are not conducted, and         (b) Procedures are established and used to alert crew	(1) System & Sequence Numbers									
25 Equipment/Furnishings       C       -       (M)(O) Any in excess of those required for the interest flight may be inoperative or missing for flights over a provided that: <ul> <li>(a) Required distribution is maintained,</li> <li>(b) Inoperative life raft and its installed location are placarded inoperative,</li> <li>(c) When practical, the inoperative life raft is secur of sight, and</li> <li>(d) Procedures are established and used to alert creater members of inoperative or missing equipment.</li> </ul> D         -         (O) May be inoperative or missing provided that:           (a) Flights over water are not conducted, and         (b) Procedures are established and used to alert crew	item		(3) Number installed							
25 Equipment/Furnishings       C       -       (M)(O) Any in excess of those required for the intend flight may be inoperative or missing for flights over or provided that: <ul> <li>(a) Required distribution is maintained,</li> <li>(b) Inoperative life raft and its installed location are placarded inoperative,</li> <li>(c) When practical, the inoperative life raft is secur of sight, and</li> <li>(d) Procedures are established and used to alert cremembers of inoperative or missing equipment.</li> </ul> D         -         -         (O) May be inoperative or missing provided that: <ul> <li>(a) Flights over water are not conducted, and</li> <li>(b) Procedures are established and used to alert crewed the intendent of the</li></ul>			(4) Number required for dispatch							
66-01 Life Raft       C       -       (M)(O) Any in excess of those required for the intend flight may be inoperative or missing for flights over or provided that: <ul> <li>(a) Required distribution is maintained,</li> <li>(b) Inoperative life raft and its installed location are placarded inoperative,</li> <li>(c) When practical, the inoperative life raft is secur of sight, and</li> <li>(d) Procedures are established and used to alert cree members of inoperative or missing equipment.</li> </ul> <li>D</li> <li>-</li> <li>(O) May be inoperative or missing provided that:         <ul> <li>(a) Flights over water are not conducted, and</li> <li>(b) Procedures are established and used to alert crew</li> </ul> </li>					(5) Remarks or Exceptions					
<ul> <li>****</li> <li>flight may be inoperative or missing for flights over y provided that: <ul> <li>(a) Required distribution is maintained,</li> <li>(b) Inoperative life raft and its installed location are placarded inoperative,</li> <li>(c) When practical, the inoperative life raft is secur of sight, and</li> <li>(d) Procedures are established and used to alert cremembers of inoperative or missing equipment.</li> </ul> </li> <li>D <ul> <li>-</li> <li>(O) May be inoperative or missing provided that:</li> <li>(a) Flights over water are not conducted, and</li> <li>(b) Procedures are established and used to alert crewer</li> </ul> </li> </ul>	25 Equipment/Furnishings									
D       -       (b) Inoperative life raft and its installed location are placarded inoperative,         (c) When practical, the inoperative life raft is secure of sight, and       (d) Procedures are established and used to alert cree members of inoperative or missing equipment.         D       -       (O) May be inoperative or missing provided that:         (a) Flights over water are not conducted, and       (b) Procedures are established and used to alert crew		C	-	-	flight may be inoperative or missing					
D       -       (C) When practical, the inoperative life raft is secure of sight, and         (D)       -       (C)         (D)       -       (D)         (D)       -       -					(a) Required distribution is main	tained,				
D       -       -       (0) Procedures are established and used to alert cremembers of inoperative or missing equipment.         D       -       -       (0) May be inoperative or missing provided that:         (a)       Flights over water are not conducted, and       (b) Procedures are established and used to alert crew						stalled location are				
D - (O) May be inoperative or missing equipment. (a) Flights over water are not conducted, and (b) Procedures are established and used to alert crew						ve life raft is secured ou				
<ul><li>(a) Flights over water are not conducted, and</li><li>(b) Procedures are established and used to alert crew</li></ul>										
(b) Procedures are established and used to alert crew		D	-	-	(O) May be inoperative or missing p	provided that:				
					(a) Flights over water are not con	nducted, and				

AIRCRAFT EMBRAER 170/175/190	/195	REV DAT	ISION Έ·	NO: Revision 6 30 April 2009	PAGE <b>S26-1</b>				
(1) System & Sequence Numbers Item			tion Int						
nem		(3) Number installed							
		(4) Number required for dispatch							
				(5) Remarks or Exceptions					
26 Fire Protection									
-10-01 Lavatory Smoke Detection System (ERJ-190-100ECJ)									
1) Fwd and Mid Cabin Lavatory	С	-	-	<ul> <li>(M)(O)May be inoperative provided:</li> <li>a) Lavatory waste receptacle is empty,</li> <li>b) Lavatory door is locked closed and particular set of the set</li></ul>	placarded				
2) VIP Cabin Lavatory	С	-	-	<ul> <li>(M)(O)May be inoperative provided:</li> <li>a) Lavatory waste receptacle is empty,</li> <li>b) Lavatory door is locked closed and provided results of the second second</li></ul>	placarded				
				NOTE: These provisos are not intender use or inspections by crewmembers.	d to prohibit lavatory				

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	tem & Sequence Numbers			tion In		
nen	1	+	(3) N	umber	installed	
				(4) N	umber required for dispatch	
					(5) Remarks or Exceptions	
<u>27 Flig</u>	ht Controls					
-03-04	Pitch Trim System Channel Cutout Pushbutton Illumination	С	1	0	<ul><li>(M) May be inoperative provided:</li><li>(a) Pitch trim channels are verified</li></ul>	-
					(b) Associated pushbutton is verifi	ed operative.
-41-01	Pitch Trim Position Indication on EICAS	A	1	0	(M) (O) May be inoperative <b>for one f</b> horizontal stabilizer position is set by tail cone before each flight.	<b>light only</b> provided means of markings on

AIRCRAFT EMBRAER 170/175/190/19		/ISION N FE:	IO:	Revision 13 June 2			PAGE <b>S30-1</b>		
	2) Rectifica		val						
	(3) N	Number ins	stalled						
		(4) Number required for dispatch							
20 Ice and Pain Protoction		(	(5) Rema	arks or Exce	eptions				
<u>30 Ice and Rain Protection</u>			(1.1.7.1	C	D				
-41-00 Windshield Wiper System			deleted	from supple	ement on Re	evision 8)			

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(1) System & Se	equence Numbers		ectifica			10 2014	551-1
Item		+	(3) N	umber	installed		
				(4) N	Number required for	r dispatch	
					(5) Remarks or H	Exceptions	
<u>31 Indicating / ]</u> <u>Systems</u>	Recording						
-21-00 Clock S	System						
	e Function on tal Clock	C	1	0		tive provided at least of ge operates normally.	one Time Function on
,	e Function on O Status Page	C	2	1			
		А	2	0	May be inoperat	-	
						tion on Digital Clock	
					(b) At least one operates no	e Cockpit Voice Reco ormally,	order (CVR) function
					(c) The aeropl flights, and		8 further consecutive
						on the MFD Status P	lapsed since the Time age was found to be
	Voice Data er (DVDR)						
	xpit Voice order (CVR) tion	A	2	1	May be inopera calendar days.		rs are made within 10
		А	2	0	May be inoperat	ive provided:	
					(a) At least one operates no	e Flight Data Recorde ormally,	er (FDR) function
						ft does not exceed 8 h the inoperative fun	
					(c) <b>Repairs ar</b>	e made within 72 ho	urs.
					(continued)		

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EMBRAER 170/175/190 (1) System & Sequence Numbers		DAT ectifica		13 June 2014 terval	<b>S31-2</b>			
Item	(2) R							
		(3) Number installed						
		(4) Number required for dispatch						
				(5) Remarks or Exceptions				
31 Indicating / Recording				(5) Kemarks of Exceptions				
<u>Systems</u>								
-31-00 Digital Voice Data Recorder (DVDR) System (continued)								
2) Flight Data Recorder (FDR) Function	А	2	1	May be inoperative provided repairs calendar days.	are made within 10			
	А	2	0	May be inoperative provided:				
				(a) At least one Cockpit Voice Record operates normally,	er (CVR) function			
				(b) The aircraft does not exceed 8 fu flights with the inoperative funct				
				(c) <b>Repairs are made within 72 hour</b>	·s.			
a) DFDR Required Recording Parameters	A	-	-	Up to 5 % of the required parameters for a maximum of 90 calendar days o maintenance inspection, whichever of	r until the next			
3) CVR Independent Power Supply ***	C		0					

	AIRCRAFT EMBRAER 170/175/190/1	95 REVISION NO:	Revision 8 13 June 2014	PAGE <b>\$33-1</b>
(3) Number installed (4) Number required for dispatch (5) Remarks or Exceptions	(1) System & Sequence Numbers (		15 Juii 2014	555-1
33 Lights     (4) Number required for dispatch	Item	(3) Number installe	d	
33 Lights (5) Remarks or Exceptions				
<u>33 Lights</u>				
	22 Lights	(5) R	emarks or Exceptions	
45-00 Red Beacon Lights (deleted from supplement on Revision 8)				
	45-00 Red Beacon Lights	(dele	ted from supplement on Rev	ision 8)

AIRCH	RAFT E <b>MBRAER 170/175/19</b> 0	)/105	REV DAT	ISION	NO: Revision 7 6 January 2012	PAGE <b>S34-1</b>
(1) Syst	tem & Sequence Numbers		ectifica			534-1
Iten	1	$\frac{1}{2}$	(3) N	umber	installed	
					umber required for dispatch	
				(4) I		
<u>34 Nav</u>	vigation				(5) Remarks or Exceptions	
-11-00	Integrated Electronic Standby System (IESS)					
	(1) Standby Attitude Indication	С	1	0	May be inoperative provided not requ	ired by local regulations
		В	1	0	May be inoperative provided:	
					(a) All Display Units are operative,	
					(b) Operations are conducted in Day sight of the ground.	VMC only, <b>and in</b>
	(2) STD Baro Button	C	1	0	May be inoperative provided BARO poperates normally.	knob on the IESS
	(3) Brightness Buttons	C	2	0	May be inoperative provided brightnee the crew.	ess level is acceptable to
	(4) CAGE Button	В	1	0	(O) May be inoperative provided IES each flight.	S is reinitialized before
		В	1	0	May be inoperative provided IESS attaconsidered inoperative.	titude indication is
	(5) VMO/MMO Barber Pole	C	1	0	May be inoperative provided VMO F	lag is displayed.

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EMBRAER 170/175/19 (1) System & Sequence Numbers		DA7 ectifica	tion In		14	<b>S34-2</b>
Item						
		(3) N	umber	installed		
			(4) N	umber required for disp	oatch	
				(5) Remarks or Except	otions	
34 Navigation						
-31-00 Radar Altimeter System	C	2	1	(M) May be inoperati	ve provided.	
51 00 Rudui Finimeter System		_	1	(a) System is deactiv	-	
				(b) Approach minim require its use.	ums or operating	procedures do not
	А	-	0	(M) May be inoperati	ve provided:	
				(a) System is deacti	vated,	
				(b) Approach minim require its use,	ums or operating	procedures do not
					ry Callouts and W	m (GPWS) Modes 1-4, /indshear Mode are
				(d) Traffic Alert and considered inope		ance System (TCAS) is
				(e) For ECJ models, considered inope		r Warning System is
				(f) For ECJ models, inoperative, and,		m is considered
				(g) Repairs or repla further flights o whichever occu	or 25 flying hours	ried out within 6 s or 2 calendar days,
-32-00 Very High Frequency Navigation Systems (VHF NAV)						
1) VOR Systems	C	2	-	Any in excess of thos inoperative.	se required by re	gulations may be
2) ILS Systems	C	2	-	Any in excess of thos inoperative.	se required by re	egulations may be
3) Marker Beacon Systems	C	2	-	May be inoperative partice require its use.	rovided approach	minimums do not
		I		1		

AIRCRAFT EMBRAER 170/175/190/195			REVISION NO:Revision 7PAGEDATE:6 January 2012\$34-3					
EMBRAER 170/175/19 (1) System & Sequence Numbers	-		TE: ation In	6 January 2012 terval	S34-3			
Item	_ ``			installed				
		(3) N						
			(4) N	Number required for dispatch				
				(5) Remarks or Exceptions				
34 Navigation								
41-00 Terrain Awareness and Warning System (TAWS)								
1) Ground Proximity	А	1	0	(O) May be inoperative provided:				
Warning System (GPWS)				(a) Alternate procedures are establish	ed and used, and			
				(b) Repairs or replacements are cal further flights or 25 flying hours or whichever occurs first.				
	С	1	0	(O) May be inoperative provided:				
				(a) It is not required by local regulation	ons, and			
				(b) Alternate procedures are establish	ed and used.			
a) Modes 1 to 4	А	4	0	(O) May be inoperative provided:				
				(a) Alternate procedures are establish	ed and used, and			
				(b) Repairs or replacements are cal further flights or 25 flying hours or whichever occurs first.				
	С	4	0	(O) May be inoperative provided:				
				(a) It is not required by local regulation	ons, and			
				(b) Alternate procedures are establish	ed and used.			
b) Test Mode	А	1	0	(O) May be inoperative provided:				
				(a) GPWS is considered inoperative,	and			
				(b) Repairs or replacements are can further flights or 25 flying hours or whichever occurs first.				
				(Continued)				

	RAFT			ISION		PAGE
	EMBRAER 170/175/190		DAT		6 January 2012	<b>S34-4</b>
(1) Syst Iten	tem & Sequence Numbers	(2) Re	ectifica	tion In	terval	
	-	+	(3) N	umber	installed	
				(4) N	umber required for dispatch	
				(.)1		
<u>34 Nav</u>	rigation				(5) Remarks or Exceptions	
-41-00	Terrain Awareness and Warning System (TAWS)					
	c) Glideslope Deviation (Mode 5)	С	2	1		
		С	2	0	May be inoperative provided it is not regulations.	required by local
		В	2	0	May be inoperative.	
***	d) Advisory Callouts	С	-	0	(O) May be inoperative provided alt established and used.	ernate procedures are
					NOTE: Check Flight Manual limita minimums.	tions for approach
***	e) Windshear Warning and Flight Guidance System (Windshear	С	1	0	(O) May be inoperative provided alternestablished and used.	nate procedures are
	Mode)				NOTE: Operator's alternate procedure reviewing windshear avoidance an procedures.	
***	2) Terrain System - Forward Looking Terrain Avoidance (FLTA) and Premature Descent Alert (PDA) Functions	В	1	0	(O) May be inoperative provided alter established and used.	nate procedures are
***	3) Runway Awareness and Advisory System	С	1	0		

	RAFT	1105		VISION		PAGE
	EMBRAER 170/175/190 tem & Sequence Numbers		DA7 ectifica		13 June 2014 terval	S34-5
Iter	n		(3) N	lumber	installed	
			(3) N			
				(4) N	lumber required for dispatch	
					(5) Remarks or Exceptions	
<u>34 Na</u>	vigation					
42-00	Weather Radar System	С	-	0	May be inoperative provided operati daylight VMC.	ons are conducted in
		С	-	0	May be inoperative provided no thun potentially hazardous weather condi- detectable with the airborne weather forecasted along the route.	tions, regarded as
					Note: The route corresponds to any p including diversions to reach alterna required by the operational rules	
	1) Stabilization Function	С	1	0	(M) May be inoperative provided:	
					(a) Antenna sweep is verified parallel plane, and	to aircraft horizontal
					(b) Antenna tilt is operated manually.	
-43-00	Traffic Alert and Collision Avoidance	А	-	0	(M)(O) May be inoperative provided th and secured <b>and</b> :	ne system is deactivated
	System II (TCAS II)				(a) It is not reasonably practicable commencement of the flight, and	
					(b) If the aeroplane is intended to be which ACAS operation is requir more than 10 calendar days with completely inoperative.	ed it may not fly for
					NOTE: Local airspace requirement more restrictive rectification	
	1) Resolution Advisory (RA) Display System(s)	С	2	1	(O) May be inoperative on the non-flyi	ng pilot side.
		С	-	0	(O) May be inoperative provided:	
					(a) All Traffic Alert (TA) display ele command audio functions are op	
					(b) <b>TA only mode is selected by the</b>	crew.
	2) Traffic Alert (TA) Display System (s)	С	-	0	(O) One or more may be inoperative RA display and audio functions are o	

AIRCRAFT	1105		VISION		PAGE
EMBRAER 170/175/190 (1) System & Sequence Numbers		DA7 ectifica	tion In	30 September 2014	<b>S34-6</b>
Item	(2) R				
		(3) N	lumber	installed	
			(4) N	umber required for dispatch	
				(5) Remarks or Exceptions	
34 Navigation				(5) Remarks of Exceptions	
-52-00 ATC Transponder and Automatic Altitude Reporting System	В	2	0	One or more may be inoperative j obtained from the Air Navigation when required for the intended fli	Service Provider(s)
				Note 1: An SSR transponder with function is defined as a transpond least, Elementary Surveillance cap	ler which can provide, at
				Note 2: Elementary Surveillance ( including Aircraft Identification a Reporting) is required in Europea airspace.	and Pressure Altitude
				Note 3: Altitude reporting, provid transponder Mode S function, is r operation. Refer to item 34-43-00 inoperative.	required for ACAS II
				Note 4: Altitude reporting, provid transponder Mode S function, is r RVSM airspace.	
	D	2	-	Any in excess of those required m	ay be inoperative.
1) Elementary and Enhanced Downlink Aircraft Reportable Parameters not Required by local regulations ***	D	-	0	One or more Downlinked Aircraf which provide Enhanced Surveill when not required for the intende	ance, may be inoperative
	C	-	0	One or more Downlinked Aircraf which provide Enhanced Surveill when required for the intended fli	ance, may be inoperative
				Note: Enhanced surveillance capa Mode S EHS notified airspace.	bility is required in
2) ADS-B Squitter Transmissions ***	D	-	0	One or more extended squitter tra inoperative when not required for route.	
	С	-	0	One or more extended squitter tra inoperative when required for the	

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EMBRAER 170/175/190	r	DATE:13 June 2014S34-7Rectification Interval					
(1) System & Sequence Numbers Item	(2) R	ectifica	ation In	terval			
item		(3) N	lumber	installed			
			T				
			(4) N	lumber required for dispatch			
				(5) Remarks or Exceptions			
34 Navigation							
-61-00 Flight Management System (FMS)	С	-	0	(O) May be inoperative provided alterestablished and used.	rnate procedures are		
	D	2	1	May be inoperative provided procedu use.	res do nor require its		
1) Navigation Databases	C	-	0	(O) One or more may be inoperative froute where conventional (non-RNAV sufficient, provided:			
NOTE: Database(s) which is/are out of date is/are				<ul> <li>(a) Current aeronautical information available for the entire route and to be used, and</li> </ul>			
considered to be inoperative.				(b) Navigation database information	is disregarded.		
	С	-	1	Any in excess of one may be inoperati (a) The operative database must be u departures, arrival and approach	ip to date for routes,		
				require the use of navigation Data			
				(b) This up to date Database is readil flight crew member(s) responsible	•		
	A	-	0	(O) One or more may be out of date for calendar days provided:	or a maximum of 10		
				(a) Area Navigation (RNAV) departu approach procedures do not depe amended in the current database	end on the data		
				(b) Before each flight, current aerona used to verify the database Navig coordinates, frequencies, status (a suitability of Navigation Facilities intended route, and	ation Fixes, the as applicable) and		
				(c) Radio navigation aids, which are for departure, arrival and approa which have been amended in the cycle, are manually tuned and ide	ach procedures and current database		
				(Continued)			

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) System & Sequence Numbers (2) I	ification Interval	554-0
EMBRAER 170/175/190/195	DATE:       13 June 2014         iffication Interval       3) Number installed         3) Number installed       (4) Number required for dispatch         (5) Remarks or Exceptions       (5) Remarks or Exceptions         •       0       (0) One or more may be ou calendar days provided:         (a) Conventional (Non-RN: approach procedures, v assistance are used as a procedures which have database cycle,         (b) Before each flight, curr used to verify the datab coordinates, frequencie suitability of Navigation intended route, and         (c) Radio navigation aids, v for departure, arrival a	t of date for a maximum of 10 AV) departure, arrival and when available, or ANSP n alternative to RNAV been amended in the current ent aeronautical information is ase Navigation Fixes, the s, status (as applicable) and n Facilities required for the which are required to be flown nd approach procedures and led in the current database

AIRCRAFT			ISION		PAGE		
EMBRAER 170/175/190 (1) System & Sequence Numbers		DAT		6 January 2012	\$35-1		
Item	(2) Rectification Interval						
	(3) Number installed						
			(4) N	umber required for dispatch			
<u>35 Oxygen</u>				(5) Remarks or Exceptions			
-20-00 Passenger Oxygen System	В	1	0	(O) May be inoperative provided:			
System				(a) Flight is not conducted over an are Enroute Altitude is above 14000 ft			
				(b) Both air conditioning packs operat	e normally,		
				(c) Pressurization system operates nor	mally,		
				(d) Flight is conducted at or below FL	250,		
				(e) Portable oxygen units are provid members and for 10 percent of t an hour (supplemental oxygen),	he passengers for half		
				(f) Passengers are appropriately briefe	ed.		
	В	1	0	(O) May be inoperative provided:			
				(a) Maximum altitude is limited to a 10,000 ft MSL,	a pressure altitude of		
				(b) All air-conditioning packs opera	te normally,		
				(c) All other components of the pre- operate normally, and	ssurization system		
				(d) Passengers are appropriately br	iefed.		
1) Automatic	С	1	0	(M) (O) May be inoperative provided:			
Deployment System				(a) Manual deployment (OVRD) system and	em operates normally,		
				(b) Flight is conducted at or below FL	300.		
2) Passenger Oxygen Dispensing Unit	C	-	0	(M) May be inoperative with no flight a provided:	altitude restriction		
				(a) Affected seats are placarded and b occupancy, and	locked to prevent		
				(b) Units operate normally at all usabl attendant locations.	e lavatory and flight		

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EMBRAER 170/175/190	DATE: 13 June 2014 S44-1							
(1) System & Sequence Numbers Item	(2) R	Rectification Interval						
nem	ł	(3) Number installed						
		(-)						
			(4) N	umber required for dispatch				
44 Cabin Systems				(5) Remarks or Exceptions				
-11-00 Passenger Address				(deleted from supplement on Revisi	o <b>n 8</b> )			
-13-00 Cabin Service Interphone System (except ECJ model)				(deleted from supplement on Revisi	on 8)			
-13-01 Flight Attendant Handset	В	_	_	<ul> <li>(O) One or more may be inoperative a) At least 50 % of the cabin hands</li> <li>b) One handset is operative at each door,</li> <li>c) Operative handsets are located a seats, and</li> <li>d) Alternate procedures are establiable</li> </ul>	et is operative, pair of floor level exit t operative cabin crew			
(EMBRAER 190 ECJ)	D	-	-	Any in excess of those required by r inoperative.	egulations may be			

AIRCRAFT			REVISION NO: Revision 7 PAGE						
EMBRAER 170/175/190/195									
(1) System & Sequence Numbers Item	(2) Rectification Interval								
	(3) Number installed								
			(4) N	Number required for dispatch					
				(5) Remarks or Exceptions					
46 Information Systems									
-21-00 Electronic Flight Bag *** Systems (EFBs)									
	C	-	0	(M)(O) May be inoperative provided are established and used where open dependant upon the use of the affect Note: Any EFB function which open used.	rating procedures are ted EFB.				
1) Mounting Device	C	-	1	(M) (O) Any in excess of one may be the affected EFB is secured by an al					
	C	-	0	(M) (O) May be inoperative provide (a) The associated EFB is used in ac EFB stowage criteria, and (b) Alternate procedures are establi operating procedures are dependan affected EFB.	cordance with Class 1 shed and used where				
2) Data Connectivity	C	-	1	(M) (O) Any in excess of one may be inoperative provide an alternative means of data connectivity is used.					
	C	-	0	(M) (O) May be inoperative provide are established and used where oper dependant upon the use of the affect Note: Any EFB function which oper used.	rating procedures are ted EFB.				
3) Power Connection	C	-	- 1 (M) (O) Any in excess of one may be inoperat an alternative power source is available and of for the planned duration of use of the affected		able and can be used				
	C	-	0	(M) (O) May be inoperative provide are established and used.	d alternate procedures				

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EMBRAER 170/175/190		DAT		6 January 2012	S50-1				
(1) System & Sequence Numbers Item	(2) R	Rectification Interval							
		(3) N	umber	installed					
			(4) N	umber required for dispatch					
50 Cargo and Accessory Compartments				(5) Remarks or Exceptions					
-22-02 Cargo / Baggage Nets ***	D	-	0	May be inoperative or missing pro baggage compartment remains em					
(except ECJ model)	D	-	0	(O) May be inoperative or missin cargo loading limits from an app Approved Cargo Loading Manu Manual or Weight and Balance of	ng provided acceptable proved source, i.e., an al, Cargo Handling				

AIRCRAFT EMBRAER 170/175/190/195		REVISION NO:Revision 8PAGEDATE:13 June 2014\$52-1			
(1) System & Sequence Number Item	rs (2) R	ectifica	tion In	terval	
		(3) N		installed	
			(4) N	umber required for dispatch	
52 Doors				(5) Remarks or Exceptions	
-00-00 Passenger and Service Doors	А	4	3	(M)(O) One may be inoperative provided:	for a maximum of 5 flights
(except ECJ model)				(a) The passenger number reduct and cabin safety procedures a	
				(b) Adequate cabin safety proce used,	dures are established and
				(c) Affected door/exit is closed	and locked,
				(d) The affected door/exit is not boarding, nor for any purpose board,	
				(e) Affected door/exit is marked utilization, as applicable, and	
				(f) All the door/exit markings, s with the affected door/exit ma applicable.	
				NOTE: Reference may be made guidance relating to passenger n	
-00-30 Passenger and Service Doors Emergency	А	4	3	(M) (O) One may be inoperative of <b>of 5 flights</b> provided:	or missing <b>for a maximum</b>
Opening Assisting System (except ECJ model)				(a) Associated door is considered 52-00-00 Passenger and Serv	

AIRCRAFT		REVISION NO: Revision 6 PAGE						
			DAT		30 April 2009	S52-2		
(1) Syst Item	em & Sequence Numbers	(2) R	ectifica	tion In	terval			
Item	1	(3) Number installed						
			(=)=.					
				(4) N	umber required for dispatch			
					(5) Remarks or Exceptions			
<u>52 Doc</u>	<u>DTS</u>							
-21-00	Overwing Escape Hatch (EMBRAER 190/195	А	2	1	(M) (O) One may be inoperative <b>for a</b> provided:	maximum of 5 flights		
	except ECJ model)				(a) Remaining main entry doors are fu	ally operational, and,		
					(b) Associated door is considered in item 52-00-00 Passenger and Ser			
-31-20	Fwd (Aft) Cargo Door Green Indicators	-	-	-	All must be operative.			
-51-00	Cockpit Security Door	А	1	0	(M) (O) May be inoperative provided:			
	Automatic Locking				(a) Automatic locking system is deact	ivated,		
	System				(b) Mechanical Latch operates normative the door,	lly and is used to lock		
					<ul> <li>(c) Alternate procedures are established and unlocking the flight deck door Latch, and</li> </ul>			
					(d) Repairs are made within <b>four flig</b>	nts.		
					Note: These dispatch conditions only countries which require secured doo			
		В	1	0	(M) (O) May be inoperative provide	d:		
					(a) Automatic locking system is dea locking system is used, and	ctivated, and no other		
					(b) Alternate procedures are establi access to the flight deck.	shed and used for		
					(Continued)			

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EMBRAER 170/175/190 (1) System & Sequence Numbers		ectifica		26 November 2007 terval	\$52-3		
Item		(3) N	umber	installed			
			(4) N	umber required for dispatch			
				(5) Remarks or Exceptions			
52 D.				(5) Remarks of Exceptions			
<u>52 Doors</u>							
-51-00 Cockpit Security Door Automatic Locking System (Continued)							
1) Cockpit Door Control Panel							
a) LOCK Pushbutton	А	1	0	(M) (O) May be inoperative provided:			
				(a) Automatic locking system is deact	ivated,		
				(b) Mechanical Latch operates normal the door,	lly and is used to lock		
				(c) Alternate procedures are establi locking and unlocking the flight Mechanical Latch, and			
				(d) Repairs are made within four fli	ights.		
				Note: These dispatch conditions o countries which require sec			
	В	1	0	(M) (O) May be inoperative provide	d:		
				(a) Automatic locking system is dea locking system is used, and	activated, and no other		
				(b) Alternate procedures are establi access to the flight deck.	ished and used for		
				(Continued)			

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EMBRAER 170/175/190		DAT		26 November 2007 S52-4				
(1) System & Sequence Numbers Item	(2) R	ectifica	tion In	terval				
	1	(3) Number installed						
			(4) N	lumber required for dispatch				
			(1)1					
				(5) Remarks or Exceptions				
52 Doors								
-51-00 Cockpit Security Door Automatic Locking System (Continued) 1) Cockpit Door Control Panel (Continued)								
b) LOCK Pushbutton Light	C	1	0	May be inoperative provided the LOCK Pushbutton is verified to operate normally.				
c) INHIB Pushbutton	А	1	0	(M) (O) May be inoperative provided:				
				(a) Automatic locking system is deactivated,				
				(b) Mechanical Latch operates normally and is used to lock the door,				
				(c) Alternate procedures are established and used for locking and unlocking the flight deck door using the Mechanical Latch, and				
				(d) Repairs are made within four flights.				
				Note: These dispatch conditions only apply to and from countries which require secured doors.				
	В	1	0	(M) (O) May be inoperative provided:				
				(a) Automatic locking system is deactivated, and no other locking system is used, and				
				(b) Alternate procedures are established and used for access to the flight deck.				
				(Continued)				

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EMBRAER 170/175/190/195			E:	<b>20 February 2004</b>	S52-5				
(1) System & Sequence Numbers Item	(2) R	ectifica	tion Int	terval					
	(3) Number installed								
			(4) N	umber required for dispatch					
				(5) Remarks or Exceptions					
52 Decem				(*)					
<u>52 Doors</u>									
-51-00 Cockpit Security Door Automatic Locking System (Continued)									
1) Cockpit Door Control Panel (Continued)									
d) INHIB Pushbutton Light	С	1	0	May be inoperative provided the IN verified to operate normally.	HIBIT Pushbutton is				
e) UNLOCKED Annunciator ON	С	1	0	(O) May be inoperative provided:					
Light				(a) Door Chime operates normally, an	ıd				
				(b) The LOCK and INHIBIT Pusht operate normally.	outtons are verified to				
				(Continued)					

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EMBRAER 170/175/190		5     DATE:     26 November 2007     S52-6       ) Rectification Interval					
(1) System & Sequence Numbers Item	(2) R	ectifica	tion In	terval			
		(3) N	umber	installed			
			(4) N	umber required for dispatch			
			(1)1				
				(5) Remarks or Exceptions			
52 Doors							
-51-00 Cockpit Security Door Automatic Locking System (Continued) 2) Flight Attendant							
Cockpit Door Control Panel							
a) Emergency Call Pushbutton	А	1	0	( <b>M</b> ) (O) May be inoperative provided:			
				(a) Automatic locking system is deactiva	ited,		
				(b) Mechanical Latch operates normal lock the door,	lly and is used to		
				(c) Alternate procedures are established locking and unlocking the flight de Mechanical Latch, and			
				(d) Repairs are made within four fligh	ıts.		
				Note: These dispatch conditions only countries which require secure			
	В	1	0	(M) (O) May be inoperative provided:			
				(a) Automatic locking system is deacti locking system is used, and	vated, and no other		
				(b) Alternate procedures are establish access to the flight deck.	ed and used for		
				(Continued)			

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EMBRAER 170/175/190 (1) System & Sequence Numbers		DAT ectifica		20 February 2004 rerval	852-7			
Item								
	(3) Number installed							
	(4) Number required for dispatch							
				(5) Remarks or Exceptions				
52 Doors								
-51-00 Cockpit Security Door Automatic Locking System (Continued)								
2) Flight Attendant Cockpit Door Control Panel (Continued)								
b) Emergency Call Pushbutton Light	С	1	0	(O) May be inoperative provided altern established and used <b>for access to the</b>				
c) Door Opening Sequence Inhibited Red Light	С	1	0	(O) May be inoperative provided altern established and used <b>for access to the</b>				
d) Door Unlocked Green Light	С	1	0	(O) May be inoperative provided altern established and used <b>for access to the</b>				
				(Continued)				

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EMBRAER 170/175/1 (1) System & Sequence Numbers		DAT ectifica		26 November 2007 terval	S52-8
Item		(3) N	umbor	installed	
		(3) 1			
			(4) N	lumber required for dispatch	
				(5) Remarks or Exceptions	
52 Doors					
-51-00 Cockpit Security Door					
Automatic Locking System (Continued)					
3) Door Chime	Α	1	0	( <b>M</b> ) (O) May be inoperative provided:	
				(a) Automatic locking system is deacting	vated,
				(b) Mechanical Latch operates norm lock the door,	nally and is used to
				(c) Alternate procedures are establis locking and unlocking the flight of Mechanical Latch, and	
				(d) Repairs are made within <b>four fligh</b>	its.
				Note: These dispatch conditions or countries which require secu	
	В	1	0	(M) (O) May be inoperative provided	1:
				(a) Automatic locking system is dea locking system is used, and	ctivated, and no other
				(b) Alternate procedures are establisaccess to the flight deck.	shed and used for
4) Maintenance Lock	D	1	0		
5) Mechanical Latch	D	1	0		

AIRCRAFT			ISION		PAGE
EMBRAER 170/175/190	/195	DAT	E:	30 September 2005	S52-9
(1) System & Sequence Numbers Item	(2) Re	ectifica	tion Inte	erval	
		(3) N	umber in	nstalled	
			(4) Nu	mber required for dispatch	
				(5) Remarks or Exceptions	
<u>52 Doors</u> -70-00 Door Position Indication	C	_	_	(M) (O) <b>Two</b> may be inoperative pro	wided affected door is
on MFD and associated EICAS Message				verified closed, latched and locked b	