



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

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## Master Minimum Equipment List (MMEL)

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Revision: 12a  
Date: 12/12/2014

### **EMBRAER**

**ERJ-170-100/200, ERJ-190-100/200, ERJ-190-100 ECJ**  
**Commercial Designations: ERJ-170, ERJ-175, ERJ-190,**  
**ERJ-195, LINEAGE 1000**

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ERJ-170, ERJ-190

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## Highlights of Change

EFFECTIVE ABOVE DATE, the Embraer ERJ-170, ERJ-190 Master Minimum Equipment List has been revised.

Several changes have been made in this revision:

1. DEFINITIONS SECTION: The Definition section will reference the current Policy Letter 25, MMEL DEFINITIONS. Operators are responsible for inclusion when developing individual Minimum Equipment Lists (MEL). Current Policy Letters may be found on the internet at <http://fsims.avs.faa.gov>.
2. The Preamble section will reference the current Policy Letter 34, MMEL AND MEL PREAMBLE or FAA MMEL Policy Letter PL-36, 14 CFR part 91 MEL APPROVAL. Operators are responsible for using the appropriate 14 CFR Part Preamble when developing individual Minimum Equipment Lists (MEL). Current Policy Letters may be found on the internet at <http://fsims.avs.faa.gov>.

EFFECTIVE ABOVE DATE, the Embraer ERJ-170, ERJ-190 Master Minimum Equipment List has been revised.

## ATA 34 NAVIGATION

- ITEM 31-00: Clarified relief applicability

## ATA 79 OIL

- ITEM 33-01: Added relief for Service Bulletin

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21	AIR CONDITIONING				
00-00	Environmental Control System Synoptic Displays (MFD ECS Page)	C	2	0	(O)MFD indications not addressed elsewhere in the MMEL may be inoperative.
00-01	Air Management System (AMS) Channels (except ECJ model)	C	2	1	Except for ER operations, one may be inoperative provided flight is conducted at or below FL 310.
21-04	Pilots Feet Outlet Shutoff Valves	C	2	0	
23-00	Gasper System	C	1	0	
24-01	Recirculation Fans	C	2	0	(M)May be inoperative provided affected fan is deactivated.
	1) Recirculation Fan Check Valves	C	2	0	(M)May be inoperative closed provided associated fan is deactivated.
24-02	Recirculation Air Filters	C	2	0	May be inoperative or missing provided Recirculation Fans (RECIRC) remain selected off.
		C	2	0	(M)May be inoperative or missing provided associated Recirculation Fan is deactivated.

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21 AIR CONDITIONING								
24-04 Recirculation System Smoke Detector (except ECJ model)	B	1	1	0				(O)Except for ER operations, may be inoperative or missing provided: a) Recirculation Fans (RECIRC) remain selected off, b) Both air conditioning packs are operating normally, and c) Live animals are not carried in the forward cargo compartment.
(ERJ-170-100/200)	B	1	1	0				(M)(O)May be inoperative or missing provided: a) Recirculation Fans (RECIRC) remain selected off, b) One air conditioning pack is operating normally, c) Live animals are not carried in the forward cargo compartment, and d) Both engine ITT margins are verified to be within limits.
(ERJ-190-100/200 except ECJ model)	B	1	1	0				(O)Except for ER operations, may be inoperative or missing provided: a) Recirculation Fans (RECIRC) remain selected off, b) One air conditioning pack is operating normally, and c) Live animals are not carried in the forward cargo compartment.
25-01 Emergency Ram Air Valve	C	1	1	0				(M)(O)Except for ER operations, may be inoperative provided: a) Air Conditioning Pack 01 is considered inoperative, b) Valve is secured open, and c) Flight is conducted at or below FL 310.

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		NUMBER INSTALLED			
		NUMBER REQUIRED FOR DISPATCH			
		REMARKS OR EXCEPTIONS			
21	AIR CONDITIONING				
25-03	Emergency Ram Air Check Valve	C	1	0	(O)Except for ER operations, may be inoperative open provided: a) Air Conditioning Pack 02 is considered inoperative, and b) Flight is conducted at or below FL 310.
25-06	Ram Air Inlet Door (Post-Mod. SB-170-21-0057 and Post-Mod. SB-190-21-0046)	C	2	0	(M) One or both may be inoperative provided: a) Both doors are secured open, and b) Both actuators are deactivated.
26-08	Aft Electronic Bay Ventilation System (ERJ-190-100ECJ)				
	1) Ventilation Fan 1	D	1	0	May be inoperative provided IFE is used in-flight only.
	2) Ventilation Fan 2	C	1	0	May be inoperative provided IFE is selected OFF.
	3) Airflow Switch	C	1	0	May be inoperative provided IFE is selected OFF.
27-01	Forward Cargo *** Compartment Fan	C	1	0	(M)May be inoperative provided: a) Fan is deactivated, and b) Live animals are not carried in the cargo compartment.

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21	AIR CONDITIONING					
27-03	Forward Cargo	C	1	0	(M)May be inoperative closed provided:	a) Fan is deactivated, and b) Live animals are not carried in the cargo compartment.
***	Compartment Check Valve					
		C	1	0	(O)May be inoperative open provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast, (ballast may be loaded in ULDs), and/or Fly Away Kits.	NOTE: Operator MELs must define which items are approved for inclusion in the Fly Away Kits, and which materials can be used as ballast.
27-04	Forward Cargo	C	1	0	(M)May be inoperative provided:	
***	Compartment Shutoff Valve					a) Valve is secured closed, b) Fan is deactivated, and c) Live animals are not carried in the cargo compartment.
		C	1	0	(O)May be inoperative provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast, (ballast may be loaded in ULDs), and/or Fly Away Kits.	NOTE: Operator MELs must define which items are approved for inclusion in the Fly Away Kits, and which materials can be used as ballast.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21	AIR CONDITIONING				
28-02	In-Flight Entertainment (IFE) System				
***					
	1) Ventilation Fan	D	1	0	(O)May be inoperative provided IFE is used in-flight only.
	2) Airflow Switch	D	1	0	(O)May be inoperative provided IFE is used in-flight only.
28-03	In-Flight Entertainment System (IFE) Ground-Shutoff-Valve	D	1	0	(M)(O)May be inoperative provided: a) Affected valve is secured closed, and b) IFE is used in-flight only.
***					
28-04	In-Flight Entertainment System (IFE) Vent-Shutoff-Valve	D	1	0	(M)May be inoperative provided: a) Affected valve is secured closed, and b) IFE is deactivated.
***					
28-08	Chiller Ventilation System				
***					
	1) Ventilation Fan	D	1	0	(M)May be inoperative provided: a) Ventilation fan is deactivated, and b) Chiller is deactivated.
	2) Airflow Switch	D	1	0	(M)May be inoperative provided: a) Ventilation fan is deactivated, and b) Chiller is deactivated.
28-09	Chiller Ground Shutoff Valve	D	1	0	(M)May be inoperative provided: a) Affected valve is secured closed, and b) Chiller is deactivated.
***					

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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2.	3.	4.
			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21 AIR CONDITIONING					
28-10	Chiller	D	1	0	(M)May be inoperative provided: a) Affected valve is secured closed, and b) Chiller is deactivated.
***	Vent Shutoff Valve				
28-12	Chiller	D	1	0	(M)May be inoperative provided alternate procedures are established and used.  NOTE: Any portion of the system that operates normally may be used.
***	Maintenance Panel				
29-02	Low Pressure Ground Connection Check Valves	C	2	1	(O)Except for ER operations, one may be inoperative open provided: a) Associated Air Conditioning Pack is considered inoperative, and b) Flight is conducted at or below FL 310.
		C	2	0	(O)Except for ER operations, may be inoperative open provided: a) Both Air Conditioning Packs are considered inoperative, b) Flight is conducted in an unpressurized configuration, and c) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
		C	2	0	May be inoperative closed.

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21 AIR CONDITIONING						
31-01 Cabin Pressure Control System (CPCS) Controller Channels						
1) Automatic Mode	C	2	1	1	One may be inoperative provided PRESN MAN FAIL Caution message is not displayed on EICAS.	
	C	2	0	0	(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.	
2) Manual Mode	C	2	0	0	Except for ER operations, may be inoperative provided: a) Automatic Mode on both channels operates normally, and b) Extended overwater flight is prohibited.	
(Continued)						

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21 AIR CONDITIONING								
31-01 Cabin Pressure Control System (CPCS) Controller Channels								
2) Manual Mode (continued)	C	2	0					(O)Except for ER operations, may be inoperative provided: a) Outflow Valve Indication on MFD operates normally, b) Outflow Valve is verified open, c) Extended overwater flight is prohibited, d) Flight is conducted in an unpressurized configuration, e) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and f) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
	C	2	0					(M)(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is removed, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are considered inoperative, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.

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21 AIR CONDITIONING					
31-02 Outflow Valve	C	1	0		(O)Except for ER operations, may be inoperative provided: a) Outflow Valve Indication on MFD operates normally, b) Outflow Valve is verified open, c) Extended overwater flight is prohibited, d) Flight is conducted in an unpressurized configuration, e) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and f) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
	C	1	0		(M)(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is removed, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are considered inoperative, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
31-05 Outflow Valve Indications on MFD	C	2	0		
31-07 Cabin Rate of Climb Indication on EICAS	C	1	0		May be inoperative provided Automatic Mode operates normally on both channels. (Continued)

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21 AIR CONDITIONING								
31-07 Cabin Rate of Climb Indication on EICAS (cont'd)		C	1	0				(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
		C	1	0				(M)(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is removed, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are considered inoperative, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
31-09 Cabin Differential Pressure Indication on EICAS		C	1	0				(O)May be inoperative provided: a) Cabin Altitude Indication operates normally, and b) A table is available to convert Cabin Altitude to Cabin Differential Pressure.  (Continued)

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21 AIR CONDITIONING								
31-09 Cabin Differential Pressure Indication on EICAS (cont'd)	C	1	1	0	0			(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
	C	1	1	0	0			(M)(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is removed, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are considered inoperative, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
31-11 Cabin Altitude Indication on EICAS	C	1	1	0	0			(O)May be inoperative provided: a) Cabin Differential Pressure Indication operates normally, and b) A table is available to convert Cabin Differential Pressure to Cabin Altitude.
(Continued)								

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21 AIR CONDITIONING								
31-11 Cabin Altitude Indication on EICAS (cont'd)	C	1	1	0				(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
	C	1	1	0				(M)(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is removed, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are considered inoperative, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.

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21 AIR CONDITIONING								
31-13 Landing Field Elevation (LFE) Indication on EICAS	C	1	1	0				(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
	C	1	1	0				(M)(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is removed, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are considered inoperative, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
32-01 Positive Pressure Relief Valve (Including Static Port and Tubing)	C	1	1	0				(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21	AIR CONDITIONING				
32-04	Negative Pressure Relief Valve	C	1	0	(O)Except for ER operations, may be inoperative provided: a) Outflow Valve is verified open, b) Extended overwater flight is prohibited, c) Flight is conducted in an unpressurized configuration, d) Both Ram Air Inlet Doors, if installed, are verified open before each flight, and e) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
32-14	Positive Pressure Relief Valve Indication on MFD	C	2	0	
51-00	Air Conditioning Packs	C	2	1	(O)Except for ER operations, one may be inoperative provided: a) Associated Air Conditioning Pack remains selected off, b) Both Ram Air Inlet Doors, if installed, are considered inoperative, and c) Flight is conducted at or below FL 310.
		C	2	0	(O)Except for ER operations, may be inoperative provided: a) Both Air Conditioning Packs remain selected off, b) Flight is conducted in an unpressurized configuration, c) Both Ram Air Inlet Doors, if installed, are considered inoperative, and d) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21 AIR CONDITIONING					
51-01 Pack Flow Control Valves	C	2	1	1	(M)(O)Except for ER operations, one may be inoperative provided: a) Affected valve is secured closed, b) Associated Air Conditioning Pack is considered inoperative, and c) Flight is conducted at or below FL 310.
	C	2	1	1	(O)Except for ER operations, one may be inoperative provided: a) Affected valve is verified closed, b) Associated Air Conditioning Pack is considered inoperative, and c) Flight is conducted at or below FL 310.
	C	2	0	0	(M)(O)Except for ER operations, may be inoperative provided: a) Affected valves are secured closed, b) Both Air Conditioning Packs are considered inoperative, c) Flight is conducted in an unpressurized configuration, and d) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21 AIR CONDITIONING					
51-02 Flow Sensing Venturi	C	2	1	1	(O)Except for ER operations, one may be inoperative provided: a) Associated Air Conditioning Pack is considered inoperative, and b) Flight is conducted at or below FL 310.
	C	2	0	0	(O)Except for ER operations, may be inoperative provided: a) Both Air Conditioning Packs are considered inoperative, b) Flight is conducted in an unpressurized configuration, and c) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.
51-08 Water Spray Nozzles	C	2	1	1	(O)Except for ER operations, one may be inoperative provided: a) Associated Air Conditioning Pack remains selected off, and b) Flight is conducted at or below FL 310.
	C	2	0	0	(M)May be inoperative provided affected Spray Nozzle is removed.
	C	2	0	0	(O)Except for ER operations, may be inoperative provided: a) Both Air Conditioning Packs remain selected off, b) Flight is conducted in an unpressurized configuration, and c) For ERJ-190-100ECJ, the Auxiliary Fuel system is considered inoperative.

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		NUMBER INSTALLED			NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
21 AIR CONDITIONING						
61-00	Cockpit Zone Temperature Control on Air Conditioning/ Pneumatic Panel (Cockpit Temperature "SET" Indication on MFD ECS Page)	C	1	0	May be inoperative provided Cockpit Temperature "ACTUAL" Indication operates normally.	
		C	1	0	Except for ER operations, may be inoperative provided Air Conditioning Pack 01 is not used.	
61-01	Cockpit Zone Temperature Sensor (Cockpit Temperature "ACTUAL" Indication on MFD ECS Page)	C	1	0	May be inoperative provided Cockpit Temperature "SET" Indication operates normally.	
		C	1	0	Except for ER operations, may be inoperative provided Air Conditioning Pack 01 is not used.	
61-05	Cockpit Zone Temperature Indication on MFD (SET or ACTUAL)				Deleted, Rev 6. (Included in items 21-61-00 and 21-61-01.)	

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21 AIR CONDITIONING						
62-00	Passenger Cabin Zone Temperature Control (Passenger Cabin Temperature "SET" Indication on MFD ECS Page)					
	1) Temperature Control on AIR COND/PNEUMATIC Panel	C	1	0		May be inoperative provided PAX/CABIN knob on the AIR COND/PNEUMATIC Panel is set to ATTEND position.
		C	1	0		Except for ER operations, may be inoperative provided Air Conditioning Pack 02 is not used.
	2) Temperature Control on Flight Attendant Panel(s)/CMS	C	-	0		May be inoperative provided temperature control knob on AIR COND/PNEUMATIC Panel is used.
		C	-	0		Except for ER operations, may be inoperative provided Air Conditioning Pack 02 is not used.
62-01	Passenger Cabin Zone Temperature Sensors (Passenger Cabin Temperature "ACTUAL" Indication on MFD ECS Page)	C	-	0		May be inoperative provided Passenger Cabin Temperature "SET" Indication operates normally.
		C	-	0		Except for ER operations, may be inoperative provided Air Conditioning Pack 02 is not used.

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21 AIR CONDITIONING					
62-04	Passenger Cabin Zone Temperature Indication on MFD (SET or ACTUAL)				Deleted, Rev 6. (Included in items 21-62-00 and 21-62-01.)
62-05	Trim Air Modulating Valves	C	2	0	(M)May be inoperative provided affected valve is secured closed.

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22	AUTO FLIGHT				
10-00	Autopilot Channels	B	2	0	May be inoperative provided operations do not require their use.
10-01	Autoland 1 ***	C	1	0	May be inoperative provided operations do not require its use.
10-02	Autoland 2 ***	C	1	0	May be inoperative provided operations do not require its use.
10-12	Mach Trim Channels (ERJ-190-100/200)	B	2	1	
10-14	Yaw Damper Channels	B	2	1	
10-16	Flight Director Channels	B	2	1	One channel may be inoperative provided operations do not require its use.
10-20	Takeoff/Go-Around (TO/GA) Buttons	C	2	1	
11-01	Guidance Panel (GP)				
	1) GP Channels	C	2	1	(O)Except for ER operations, one may be inoperative provided: a) Associated side TO/GA, AP/TRIM DISC and AP/FD TCS buttons are considered inoperative, and b) Alternate procedures are established and used.
	2) Flight Director (FD) Buttons	C	2	0	
	3) Autopilot (AP) Button	B	1	0	May be inoperative provided operations do not require its use.
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		NUMBER INSTALLED		NUMBER REQUIRED FOR DISPATCH	
				REMARKS OR EXCEPTIONS	
22 AUTO FLIGHT					
11-01	Guidance Panel (GP) (Cont'd)				
	4) Yaw Damper (YD) Button	C	1	0	
	5) Source (SRC) Button	C	1	0	May be inoperative provided operations do not require its use.
	6) Airspeed to Mach (PUSH IAS/MACH) Change Button	C	1	0	
	7) Navigation (NAV) Mode Button	C	1	0	May be inoperative provided procedures do not require its use.
	8) Heading (HDG) Mode Button	B	1	0	May be inoperative provided procedures do not require its use.
	9) Approach (APP) Mode Button	C	1	0	May be inoperative provided procedures do not require its use.
	10) Bank (BANK) Limiter Button	C	1	0	
	11) Heading Selector (HDG SEL) Knob	B	1	0	May be inoperative provided operations do not require its use.
	12) Heading Synchro- nization (PUSH SYNC) Button	C	1	0	
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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
22	AUTO FLIGHT				
11-01	Guidance Panel (GP) (Cont'd)				
13)	Flight Level Change (FLCH) Mode Button	C	1	0	May be inoperative provided procedures do not require its use.
14)	Vertical Navigation (VNAV) Mode Button	C	1	0	May be inoperative provided procedures do not require its use.
15)	Altitude Hold (ALT) Mode Button	C	1	0	May be inoperative provided operations do not require its use.
16)	Feet to Meter (PUSH FT-M) Change Button	C	1	0	May be inoperative provided operations do not require its use.
17)	Flight Path Angle (FPA) Mode Button	C	1	0	May be inoperative provided procedures do not require its use.
18)	Flight Path Angle Selector (FPA SEL) Knob	C	1	0	May be inoperative provided procedures do not require its use.
19)	Vertical Speed (VS) Mode Button	C	1	0	May be inoperative provided procedures do not require its use.
20)	Vertical Speed (VS DN UP) Selector Thumb Wheel	C	1	0	May be inoperative provided procedures do not require its use.
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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
22	AUTO FLIGHT				
11-01	Guidance Panel (GP) (Cont'd)				
	21) Autothrottle (A/T) Button	B	1	0	May be inoperative provided Autothrottle Channels are considered inoperative and not used.
11-02	Autopilot/Trim Disengage (AP/TRIM DISC) Buttons	C	2	1	One may be inoperative on non-flying pilot's side provided: a) Autopilot is not used below 1,500 feet AGL, and b) Operations do not require its use.
		B	2	0	May be inoperative provided Autopilot is not used.
11-03	Autopilot/Flight Director Touch Control Steering (AP/FD TCS) Buttons	C	2	0	
30-00	Autothrottle Channels	B	2	0	
30-12	Autothrottle Disconnect Buttons	C	2	1	
		B	2	0	May be inoperative provided Autothrottle is not used.
30-15	Electronic Thrust Trim System (ETTS)	C	2	0	

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
23 COMMUNICATIONS					
11-00 ***	High Frequency (HF) Communication System	D	-	-	Any in excess of those required by CFR may be inoperative.
		C	-	1	(O)May be inoperative while conducting operations that require two Long Range Communication Systems (LRCS) provided: a) SATCOM Voice or Data Link operates normally, b) Alternate procedures are established and used, c) SATCOM coverage is available over the intended route of flight, and d) If Inmarsat codes are not available while using SATCOM voice, prior coordination with the appropriate ATS facility is required.
NOTE: SATCOM is to be used only as a backup to normal HF communications unless otherwise authorized by appropriate ATS facilities.					
12-00	Very High Frequency (VHF) Communication System	D	-	-	Any in excess of those required by CFR may be inoperative provided: a) VHF 1 is operative, and b) Procedures do not require its use.
15-00 ***	Satellite Communication System (SATCOM)	C	-	0	(O)May be inoperative provided alternate procedures are established and used.
		D	-	0	May be inoperative provided procedures do not require its use.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
23 COMMUNICATIONS					
21-00 ***	Selective Call System (SELCAL)	C	-	0	(O)May be inoperative provided alternate procedures are established and used.
		D	-	0	May be inoperative provided procedures do not require its use.
	1) Channels				Deleted, Rev.8.
23-00 ***	Wireless Gatelink System	C	1	0	(M) May be inoperative provided alternate procedures are established and used.
		D	1	0	May be inoperative provided procedures do not require its use.
24-00 ***	Communication Management Function (CMF)	C	1	0	(O)May be inoperative provided alternate procedures are established and used.
		D	-	0	May be inoperative provided procedures do not require its use.
24-01 ***	Printer	C	1	0	(O)May be inoperative provided alternate procedures are established and used.
		D	1	0	May be inoperative provided procedures do not require its use.
25-00 ***	Controller Pilot Datalink Communication System (CPDLC)	C	2	0	(O) May be inoperative provided alternate procedures are established and used.
		D	2	0	May be inoperative provided procedures do not require its use.

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			3. NUMBER REQUIRED FOR DISPATCH	
23 COMMUNICATIONS			4. REMARKS OR EXCEPTIONS	
51-00	Cockpit/Cabin Interphone System			
	1) Flight Deck to Cabin, Cabin to Flight Deck Functions (except ECJ model)	B	-	-
	2) Flight Deck to Cabin, Cabin to Flight Deck Functions (ERJ-190-100ECJ)	D	-	-
51-01	Cockpit Alerting System (Chime/Light)			
	1) Flight Deck Call Lights (CAB) on Digital Audio Panel	B	3	0

(O)May be inoperative provided:  
 a) Flight deck to cabin and cabin to flight deck interphone functions operate normally on at least fifty percent of the cabin handsets, and  
 b) Alternate communication procedures between the affected flight attendant stations are established and used.

NOTE: Any station function(s) that operate normally may be used.

(O)May be inoperative provided operating rules do not require its use.

NOTE: Any station function(s) that operate normally may be used.

May be inoperative provided the flight deck chime operates normally.

NOTE: The flight deck chime must always be operative.

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23	COMMUNICATIONS				
51-02	Cockpit Speakers	C	2	0	May be inoperative provided: a) Procedures do not require its use, and b) Associated headset earphones or headphones are installed and operate normally.
51-03	Push To Talk (PTT) Switches				
1)	PTT MIC Switch on Glareshield Panel	C	2	0	(M)May be inoperative provided: a) Associated PTT/HOT MIC Switch on Yoke operates normally, and b) Affected switch is either verified failed open (non-transmitting position) or is deactivated.
2)	PTT/HOT Mic Switch on Yoke	C	2	0	(M) May be inoperative provided: a) Associated PTT MIC Switch on Glareshield Panel operates normally, and b) Affected switch is either verified failed open (non-transmitting position) or is deactivated.
51-08	Flight Deck Headsets/Headphones	D	-	-	Any in excess of those required by CFR may be inoperative
1)	Headset Boom Microphones	A	-	0	May be inoperative provided: a) Flight Data Recorder (FDR) operates normally, and b) Repairs are made within three flight days.
2)	Headset Earphones/Headphones	C	-	1	Either Captain's or First Officer's earphone/headphones may be inoperative provided associated flight deck speaker operates normally.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
23 COMMUNICATIONS					
51-11	Cockpit Hand Microphones	C	-	0	May be inoperative provided associated boom microphones operate normally.
52-00	Ramp Service Interphone System				
	1) Flight Deck to Ground Function (Airplanes Operating Under CFR Part 121) (Interphone Jack, CALL pushbutton, Horn)	C	-	0	(0)Flight interphone flight deck to ground/ground to flight deck function may be inoperative provided: a) Alternate procedures are established and used, and b) Nose gear/forward fuselage service interphone jack operates normally.  NOTE: Any portion of system which operates normally may be used.
		C	1	0	(0)Service interphone flight deck to ground/ground to flight deck function may be inoperative provided: a) Alternate procedures are established and used, and b) Nose gear/forward fuselage flight interphone jack operates normally.
		B	-	0	(0)May be inoperative provided alternate procedures are established and used.
	2) All Other Operations	C	-	0	(0)May be inoperative provided alternate procedures are established and used.
		D	-	0	May be inoperative provided procedures do not require its use.

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23 COMMUNICATIONS					
54-03 Iridium System ***	D	-	0		(M)May be inoperative provided it is deactivated.

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24	ELECTRICAL POWER				
00-00	Electrical Synoptic Displays (MFD Electrical Page)	C	2	0	(O)MFD indications not addressed elsewhere in the MMEL may be inoperative.
00-01	IDG Disconnect LED (Overhead Panel)	C	2	1	
00-05	Batteries 1 and 2 Voltage Indication on MFD Status Page	C	4	2	One indication per battery may be inoperative.
		C	4	0	May be inoperative provided affected battery voltage is available on MFD Electrical Page.
21-01	Engine Driven Generator (IDG, GCU, GLC)	A	2	1	(O) Except for ER operations, one may be inoperative provided: a) APU generator operates normally and is used throughout the flight, b) Affected IDG is disconnected and remains selected OFF, c) Flight is conducted at or below FL 330, and d) Repairs are made within two flight days.
22-01	APU Generator	C	1	0	(O)Except for ER operations, may be inoperative provided APU generator remains selected off.
24-00	Static Inverter	C	1	0	
32-01	Mid Cabin IFE Transformer Rectifier Unit (ERJ-190-100ECJ)	D	1	0	Deleted, Rev 10.

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24	ELECTRICAL POWER				
36-10	Batteries 1 and 2 C Temperature Sensors	4	2	2	One sensor per battery may be inoperative provided at least one temperature of associated battery on Electrical Synoptic Display (MFD Electrical Page) is verified to operate normally before each flight.
41-00 ***	DC External Power D System	1	0	0	
	1) DC GPU AVAIL/IN USE Pushbutton Lights	D 2	0	0	(O)May be inoperative provided alternate procedures are established and used.
42-00	AC External Power C System	1	0	0	(M)May be inoperative provided the system is deactivated.
	1) AC GPU AVAIL/IN USE Pushbutton Lights	C 4	0	0	(O)May be inoperative provided alternate procedures are established and used.
	2) AC GPU AVAILABLE Light on Flight Attendant Ground Service Panel	C 1	0	0	(O)May be inoperative provided alternate procedures are established and used.
	3) AC GPU IN USE Light on Flight Attendant Ground Service Panel	C 1	0	0	(O)May be inoperative provided alternate procedures are established and used.
	4) External AC Power Receptacle Shield	C 1	0	0	(M) May be cracked or damaged provided remaining shield prevents misaligned GPU connection.

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24	ELECTRICAL POWER				
52-03 ***	In-Flight Entertainment System (IFE) Auto Shutdown	C	1	0	(O)May be inoperative provided IFE RACK Power Switch is verified to operate normally before each departure.
54-00 ***	Electrical Outlets				
	1) Cockpit AC Electrical Outlet	D	-	0	
	2) Avionics Compartment Electrical Outlet	D	-	0	
	3) Galley/Wardrobe Electrical Outlet	D	-	0	
	4) Aft Baggage Compartment Electrical Outlet (ERJ 190-100 ECJ)	D	-	0	
	5) Cabin AC Electrical Outlets	D	-	0	

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25 EQUIPMENT/FURNISHINGS					
10-05	Eye Position Indicator	C	1	0	
10-07	Cockpit Convenience Item(s)				Deleted, Rev. 7.
10-09	Chart Holders				Deleted, Rev. 7.
11-01	Pilot Seats				
	1) Vertical Power Seat Adjustment Systems	C	2	0	(M)May be inoperative provided: a) Affected system is deactivated, and b) Vertical Manual Seat Adjustment System operates normally.
	2) Vertical Manual Seat Adjustment Systems	C	2	0	May be inoperative provided: a) Affected seat has failed in a position that permits normal pilots visibility, b) Full flight control movement is available, and c) Position of seat is acceptable to flight crew.
		C	2	0	May be inoperative provided Vertical Power Seat Adjustment System operates normally.
	3) Longitudinal Seat Adjustment Systems	C	2	0	May be inoperative provided backup system operates normally.
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				REMARKS OR EXCEPTIONS	
25 EQUIPMENT/FURNISHINGS					
11-01	Pilot Seats (Cont'd)				
	4) Lateral Seat Adjustment Systems	C	2	0	May be inoperative provided backup system operates normally.
		C	2	0	May be inoperative provided: a) It has failed with the affected seat at inboard position, and b) Seat is acceptable to affected crewmember.
	5) Lumbar Supports	C	2	0	May be inoperative provided seat is acceptable to affected crewmember.
	6) Armrests	C	4	0	(M)May be inoperative provided: a) Affected armrest is stowed in the retracted position, and b) Seat is acceptable to affected crewmember.
	7) Recline Functions	C	2	0	May be inoperative provided seat is acceptable to affected crewmember.
	8) Headrests	C	2	0	May be inoperative provided seat is acceptable to affected crewmember.
	9) Thigh Supports	C	4	0	May be inoperative provided seat is acceptable to affected crewmember.
11-02	Observer Seat (Including associated equipment)	A	1	0	May be inoperative provided: a) A passenger seat in the passenger cabin is made available to an FAA inspector for the performance of official duties, and b) Repairs are made within two flight days.
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25 EQUIPMENT/FURNISHINGS						
11-02	Observer Seat (Including associated equipment) (Cont'd)	A	1	0	0	May be inoperative provided: <ul style="list-style-type: none"> <li>a) Required minimum safety equipment (safety belt and oxygen) is available,</li> <li>b) Seat is acceptable to an FAA inspector for the performance of official duties, and</li> <li>c) Repairs are made within two flight days.</li> </ul> NOTE 1: These provisos are intended to provide for occupancy of the above seat by an FAA inspector when the minimum safety equipment (oxygen and safety belt) is functional and the inspector determines the conditions to be acceptable.  NOTE 2: The pilot-in-command will determine if the minimum safety equipment is functional for other persons authorized to occupy observer seat.
12-15	Sunvisors	C	2	0	0	May be inoperative or missing provided there are no visual restrictions to affected crewmember.
12-17	Direct Vision Window Sunshades	C	2	0	0	May be inoperative or missing provided there are no visual restrictions to affected crewmember.
13-03	Crew Baggage *** Stowage Straps in the Cockpit	D	-	0	0	(O)May be inoperative or missing provided crew baggage is properly stowed.

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25	EQUIPMENT/FURNISHINGS							
20-02	Overhead Storage Bin(s)/Cabin and Galley Storage Compartments/ Closets	C	-	-				(M)May be inoperative provided: a) Procedures are established to secure compartment CLOSED, b) Associated bin or compartment is prominently placarded DO NOT USE, c) Any emergency equipment located in affected compartment is considered inoperative, and d) Affected compartment is not used for storage of any item(s) except for those permanently affixed.  NOTE: If no partitions are installed, the entire overhead storage compartment is considered one bin or compartment.
		C	-	-				(M)(O)May be inoperative provided: a) Affected door(s) is removed, b) Associated bin or compartment is not used for storage of any items, except for those permanently affixed c) Associated bin or compartment is prominently placarded DO NOT USE, d) Procedures are established and used to alert crew members and passengers of inoperative bins, and e) Passengers are briefed that associated bin or compartment is not used
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25	EQUIPMENT/FURNISHINGS					
20-02	Overhead Storage Bin(s)/Cabin and Galley Storage Compartments/ Closets (Cont'd)					<p>NOTE 1: If no partitions are installed, the entire overhead storage compartment is considered one bin or compartment.</p> <p>NOTE 2: Any emergency equipment located in the associated compartment (permanently affixed) is available for use.</p>
***	1) Storage Compartment Key Locks	D	-	0		(M)May be inoperative in the unlocked position provided doors can be secured by other means.
20-03	Cabin/Galley Storage Latches (Dual Latch Installations)	C	-	-		One latch per compartment may be inoperative.
20-05	"Fasten Seat Belt While Seated" Signs or Placards	C	-	-		One or more signs or placards may be illegible or missing provided a legible sign or placard is readable from each occupied passenger seat.
20-07	Non-Essential Equipment & Furnishings (NEF)		-	0		<p>May be inoperative, damaged or missing provided that the item(s) is deferred in accordance with the operator's NEF deferral program. The NEF program, procedures and processes are outlined in the operator's (insert name) Manual. (M) and (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document.</p> <p>NOTE: EXTERIOR LAVATORY DOOR ASH TRAYS ARE NOT CONSIDERED NEF ITEMS.</p>

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25 EQUIPMENT/FURNISHINGS								
21-10	Passenger Seat(s)	D	-	-	-	-	-	May be inoperative provided: <ul style="list-style-type: none"> <li>a) Seat does not block an Emergency Exit,</li> <li>b) Seat does not restrict any passenger from access to the main aircraft aisle, and</li> <li>c) The affected seat(s) are blocked and placarded "DO NOT OCCUPY".</li> </ul> NOTE 1: A seat with an inoperative seat belt is considered inoperative.  NOTE 2: Inoperative seats do not affect the required number of Flight Attendants.  NOTE 3: Affected seat(s) may include the seat(s) behind and/or adjacent outboard seats.
	1) Recline Mechanism	D	-	-	-	-	-	(M)May be inoperative and seat occupied provided seat back is secured in the full upright position.
		D	-	-	-	-	-	May be inoperative and seat occupied provided seat back is immovable in the full upright position.
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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2.	NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
25 EQUIPMENT/FURNISHINGS						
21-10 Passenger Seat(s) (Cont'd)						
2)	Underseat Baggage Restraining Bars	C	-	-	(O)May be inoperative provided:	a) Baggage is not stowed under seat with inoperative restraining bar, b) Associated seat is placarded "DO NOT STOW BAGGAGE UNDER THIS SEAT", and c) Procedures are established to alert Cabin Crew of inoperative restraining bar.
3)	Armrest					
a)	Armrest with Recline Mechanism	D	-	-	(M)May be inoperative or missing and seat occupied provided:	a) Armrest does not block an Emergency Exit, b) Armrest does not restrict any passenger from access to the main aircraft aisle, and c) If armrest is missing, seat is secured in the full upright position.
b)	Armrest without Recline Mechanism	D	-	-	May be inoperative or missing and seat occupied provided:	a) Armrest does not block an Emergency Exit, and b) Armrest does not restrict any passenger from access to the main aircraft aisle.
4)	Seat Translation Mechanism	C	-	0	(M)May be inoperative provided seat is positioned and secured in the appropriate position for taxi, takeoff and landing.	

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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2.	NUMBER INSTALLED
25 EQUIPMENT/FURNISHINGS				
21-20 Flight Attendant Seat Assembly (Single or Dual Position) (except ECJ model)				
1) Required Flight Attendant Seats		B	-	-
				<p>3. NUMBER REQUIRED FOR DISPATCH</p> <p>4. REMARKS OR EXCEPTIONS</p> <p>(M)(O)One seat position or assembly (dual position) may be inoperative provided:</p> <ul style="list-style-type: none"> <li>a) Affected seat position or seat assembly is not occupied,</li> <li>b) Flight attendant(s) displaced by inoperative seat(s) occupies either an adjacent flight attendant seat or the passenger seat which is most accessible to the inoperative seat(s), so as to most effectively perform assigned duties,</li> <li>c) Alternate procedures are established and used as published in crewmember manuals,</li> <li>d) Folding type seat stows automatically or is secured in the retracted position, and</li> <li>e) Passenger seat assigned to flight attendant is placarded "FOR FLIGHT ATTENDANT USE ONLY".</li> </ul> <p>NOTE 1: An automatic folding seat that will not stow automatically is considered inoperative.</p> <p>(Continued)</p>

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25	EQUIPMENT/FURNISHINGS							
21-20	Flight Attendant Seat Assembly (Single or Dual Position) (except ECJ model) (Cont'd)							<p>NOTE 2: A seat position with an inoperative or missing restraint system is considered inoperative.</p> <p>NOTE 3: Individual operators, when operating with inoperative seats, will consider the locations and combinations of seats to ensure that the proximity to exits and distribution requirements of the applicable CFR are met.</p> <p>NOTE 4: If one side of a dual seat assembly is inoperative and a flight attendant is displaced to the adjacent seat, the adjacent seat must operate normally.</p>
	1) Required Flight Attendant Seats (Cont'd)							
	2) Excess Flight Attendant Seats	C	-	-				<p>(M)May be inoperative provided:</p> <p>a) Affected seat position or seat assembly is not occupied, and</p> <p>b) Folding type seat stows automatically or is secured in the retracted position.</p>
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25	EQUIPMENT/FURNISHINGS					
21-20	Flight Attendant Seat Assembly (Single or Dual Position) (except ECJ model) (Cont'd)					
	2) Excess Flight Attendant Seats (Cont'd)					
22-04	Passenger Service Unit (PSU) Test/Reset Switches (except ECJ model)	C	2	0		(O)May be inoperative provided alternate procedures are established and used.
23-16	Powered Window Shades (ERJ-190-100ECJ)	D	-	0		(M)May be inoperative provided: a) Window shade(s) can be manually moved to the open position using the appropriate tool, and b) System is deactivated.

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25 EQUIPMENT/FURNISHINGS						
25-00	Flight Attendant Panels (FAP) (except ECJ model)					
	1) Forward FAP	B	1	0		(O)May be inoperative provided: a) Aft FAP is operative, b) Passenger Service Unit (PSU) Test/Reset Switches are considered inoperative, and c) Lavatory Smoke Test Switches are considered inoperative.  NOTE: Any function on the FAP which operates normally may be used.
	2) Aft FAP	B	1	0		(O)May be inoperative provided: a) Forward FAP is operative, and b) Water/Waste System indications are considered inoperative.  NOTE: Any function on the FAP which operates normally may be used.
27-01	Drop-Down Window on Aft Cabin Divider (except ECJ model)	D	-	0		(M)May be inoperative provided it is removed or secured in the down position.

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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2.	NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
25 EQUIPMENT/FURNISHINGS						
30-03	Galley Waste Receptacles Access Doors/Covers	C	-	-	(M)(O)May be inoperative provided:	a) The container is empty and the access is secured to prevent waste introduction into the compartment, and b) Procedures are established to ensure that sufficient galley waste receptacles are available to accommodate all waste that may be generated on a flight.
34-03 ***	Wheelchair Restraint System	D	-	0	As required by regulations.	
40-03	Exterior Lavatory Door Ashtrays					
	1) Airplanes with more than one exterior lavatory door ashtrays installed	A	-	-	One may be missing provided it is replaced within 10 calendar days.	
	2) Airplanes with only one exterior lavatory door ashtray installed	A	1	0	May be missing provided it is replaced within 3 calendar days.	

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25 EQUIPMENT/FURNISHINGS						
45-01	Lavatory Waste Receptacle Access Door	C	-	-		(M)(O)May be inoperative provided: a) Associated lavatory waste receptacle is empty, b) Lavatory is used only by crewmembers, and c) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER".  NOTE: These provisos are not intended to prohibit lavatory use or inspections by crewmembers.
61-00	Emergency Locator Transmitter (ELT)					
***						
1)	Survival Type ELTs	D	-	-		Any in excess of those required by CFR may be inoperative or missing.
2)	Fixed ELTs	A	-	0		(M)May be inoperative provided: a) System is deactivated, and b) Repairs are made within 90 calendar days.
		A	-	0		May be missing provided repairs are made within 90 calendar days.
		D	-	0		(M)Any in excess of those required by CFR may be inoperative provided system is deactivated.
		D	-	0		Any in excess of those required by CFR may be inoperative or missing.

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25 EQUIPMENT/FURNISHINGS						
62-01	Emergency Medical Equipment					
	1) Automatic External Defibrillator (AED) and/or Associated Equipment	A	-	0		(O)May be incomplete, missing or inoperative provided: a) AED is resealed in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, and b) Repairs or replacements are made with-in 1 flight.
		D	-	-		Any in excess of those required by CFR may be incomplete, missing or inoperative.
	2) Emergency Medical Kit (EMK) and/or Associated Equipment	A	-	0		(O)May be incomplete, missing or inoperative provided: a) EMK is resealed in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, and b) Repairs or replacements are made with-in 1 flight.
		D	-	-		Any in excess of those required by CFR may be incomplete, missing or inoperative.
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			3. NUMBER REQUIRED FOR DISPATCH	
25 EQUIPMENT/FURNISHINGS			4. REMARKS OR EXCEPTIONS	
62-01	Emergency Medical Equipment (Cont'd)			
	3) First Aid Kit (FAK) and/or Associated Equipment	A	-	(O)If more than one is required by CFR, only one of the required first aid kits may be incomplete, missing or inoperative provided: a) FAK is resealed in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, and b) Repairs or replacements are made within 1 flight.
		D	-	Any in excess of those required by CFR may be incomplete, missing or inoperative.
62-02	Flotation Equipment (Crew and Passenger)	D	-	Any in excess of those required by CFR may be inoperative or missing provided required distribution is maintained.
62-03	Megaphones	D	-	Any in excess of those required by CFR may be inoperative or missing provided: a) Inoperative megaphone is removed from the passenger cabin, and b) Required distribution is maintained.
62-05	Pyrotechnic Signal Devices	D	-	Any in excess of those required by CFR may be inoperative or missing.

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25 EQUIPMENT/FURNISHINGS						
62-07	Flight Deck/ Attendant Flashlight and Holder Assemblies					
	1) Flashlight	C	-	-		May be inoperative or missing provided crewmember assigned to associated seat has a flashlight of equivalent characteristics readily available.
	2) Holder Assembly	C	-	-		May be inoperative or missing provided alternate stowage means are provided.
62-09 ***	Overwing Escape Hatch Lifeline	D	-	0		May be inoperative or missing provided airplane is not operated on extended overwater flights.

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25 EQUIPMENT/FURNISHINGS				4. REMARKS OR EXCEPTIONS
66-01 Life Raft ***	C	-	0	(M)(O) Any in excess of those required for the intended flight may be inoperative or missing for extended overwater flights provided: a) Required distribution is maintained, b) Inoperative life raft and its installed location are placarded inoperative, c) When practical, the inoperative life raft is secured out of sight, and d) Procedures are established and used to alert crew members of inoperative or missing equipment.
	D	-	0	(O) May be inoperative or missing provided: a) Extended overwater flights are not conducted, and b) Procedures are established and used to alert crew members of inoperative or missing equipment.

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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2. NUMBER INSTALLED		3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
26 FIRE PROTECTION						
10-01	Lavatory Smoke Detection System (ERJ-190-100ECJ)					
	1) Fwd and Mid Cabin Lavatory	C	-	-		(M)(O)May be inoperative provided: a) Lavatory waste receptacle is empty, and b) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER".
		C	-	-		For each lavatory, the lavatory smoke detection system may be inoperative provided: a) Lavatory waste compartment fire extinguisher is operative and b) Operating rules do not require a smoke detector.
	2) VIP Cabin Lavatory	C	-	-		(M)(O)May be inoperative provided: a) Lavatory waste receptacle is empty, and b) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER".
NOTE: These provisos are not intended to prohibit lavatory use or inspections by crewmembers.						
10-02	Mid Cabin (IFE) Rack Smoke Detection System (ERJ-190-100ECJ)	C	-	0		(M)May be inoperative provided system is deactivated.
12-00	APU Fire/Overheat Detection Loops	C	2	0		Except for ER operations, both loops may be inoperative provided APU is not used.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
26	FIRE PROTECTION				
14-00	Lavatory Smoke Detection System (except ECJ model)	C	-	-	(M)(O)For each lavatory, the lavatory smoke detection system may be inoperative provided: a) Lavatory waste receptacle is empty, b) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER", and c) Lavatory is used only by crewmembers.  NOTE 1: These provisos are not intended to prohibit lavatory use or inspections by crewmembers.  NOTE 2: Lavatory smoke detection system is not required for all-cargo operations.
14-01	Lavatory Smoke Test Switches on Flight Attendant Panel (except ECJ model)	C	-	0	(O)May be inoperative provided Lavatory Smoke Detector is tested once each flight day.

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26 FIRE PROTECTION

15-00 Cargo Compartment  
Smoke Detection  
System

1) Forward Cargo C  
Compartment  
Smoke  
Detectors

(ERJ-170-100/200) C 3

(ERJ-190-100/200 C 4  
except ECJ model)

-

0

1

2

(O)May be inoperative provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDS), and/or Fly Away Kits.

NOTE: Operator MELs must define which items are approved for inclusion in the Fly Away Kits, and which materials can be used as ballast.

May be inoperative provided live animals are not carried in the forward cargo compartment.

May be inoperative provided live animals are not carried in the forward cargo compartment.

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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2. NUMBER INSTALLED		3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
26	FIRE PROTECTION					
15-00	Cargo Compartment Smoke Detection System (Cont'd)					
	2) Aft Cargo Compartment Smoke Detectors	C	-	0		(O)May be inoperative provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away Kits.
	(ERJ-170-100/200)	C	2	1		
	(ERJ-190-100/200 except ECJ model)	C	3	2		
18-01 ***	In-Flight Entertainment System (IFE) Smoke Detector (except ECJ model)	D	1	0		(M)May be inoperative provided IFE system is deactivated.
22-00	APU Fire Extinguishing System	C	1	0		Except for ER operations, may be inoperative provided APU is not used.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
26	FIRE PROTECTION				
22-09	APU Fire Extinguisher Button Illumination	C	1	0	(O)May be inoperative provided APU FIRE Warning EICAS Message, Master Warning lights, APU Emergency Stop Button Illumination and Aural Warning are verified to operate normally.
		C	1	0	Except for ER operations, may be inoperative provided APU is not used.
23-00	Cargo Compartment Fire Extinguishing System				
1)	Forward Cargo Compartment Fire Extinguishing System	C	1	0	(O)May be inoperative provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast, (ballast may be loaded in ULDs), and/or Fly Away Kits.  NOTE: Operator MELs must define which items are approved for inclusion in the Fly Away Kits, and which materials can be used as ballast.
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26 FIRE PROTECTION				
23-00 Cargo Compartment Fire Extinguishing System (Cont'd)				
2) Aft Cargo/Baggage Compartment Fire Extinguishing System	C	1	0	(O)May be inoperative provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast (ballast may be loaded in ULDs), and/or Fly Away Kits.  NOTE: Operator MELs must define which items are approved for inclusion in the Fly Away Kits, and which materials can be used as ballast.
24-01 Portable Fire Extinguishers	D	-	-	Any in excess of those required by CFR may be inoperative or missing provided: 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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26	FIRE PROTECTION							
25-00	Lavatory Fire Extinguisher Systems (except ECJ model)	C	-	-				For each lavatory, the lavatory fire extinguisher system may be inoperative provided Lavatory Smoke Detector system operates normally.
		C	-	-				(M)(O)For each lavatory, the lavatory fire extinguisher system may be inoperative provided: a) Lavatory waste receptacle is empty, b) Lavatory door is locked closed and placarded, "INOPERATIVE - DO NOT ENTER", and c) Lavatory is used only by crewmembers.  NOTE 1: These provisos are not intended to prohibit lavatory use or inspections by crewmembers.  NOTE 2: A lavatory fire extinguisher system is not required for all-cargo operations.

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26	FIRE PROTECTION							
27-01	Lavatory Fire Extinguishing System (ERJ-190-100ECJ)							
	1) Fwd and Mid Cabin Lavatory	C	-	-	(M)(O)	May be inoperative provided:		a) Lavatory waste receptacle is empty, and b) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER".
		C	-	-	(M)(O)	For each lavatory, the lavatory fire extinguishing system may be inoperative provided:		a) Lavatory smoke detection system operates normally, and b) Operating rules do not require a fire detection system.
	2) VIP Cabin Lavatory	C	-	-	(M)(O)	May be inoperative provided:		a) Lavatory waste receptacle is empty, and b) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER".
<p>NOTE: These provisos are not intended to prohibit lavatory use or inspections by crewmembers.</p>								

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27 FLIGHT CONTROLS					
00-00 Flight Controls System					
1) System Faults (Applicable to Post-Mod. SB 170-31-0047, 170-31-0051, 190-31-0045, 190-31-0049, 190LIN-31-0009 and 190LIN-31-0012)	A	1	0	May be dispatched with FLT CTRL FAULT Advisory EICAS message system faults provided repairs are made within 48 hours.	
03-01 Flight Controls Panel					
1) Flight Control Mode Pushbuttons Illumination	C	3	0	(O) May be inoperative provided the associated pushbutton is verified operative and no ELEVATOR FAULT, RUDDER FAULT or SPOILER FAULT is present.	
2) Stick Shaker System Cutout Pushbutton Illumination	C	2	0	(O) May be inoperative provided the associated pushbutton is verified operative.	
03-04 Pitch Trim system Channel Cutout Pushbutton Illumination					
11-12 ROLL CONTROL DISC Advisory EICAS Message	B	1	0	(O)May be inoperative provided: a) Both control wheels are verified to be connected before each flight, and b) Autopilot Channels are considered inoperative.	

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
27	FLIGHT CONTROLS				
14-01	Roll Trim Position Indication on EICAS	C	1	0	(O)May be inoperative provided Ailerons are verified centered before each flight.
14-02	Aileron Trim System	C	1	0	(M)May be inoperative provided roll trim actuator is deactivated at neutral position.  NOTE: Roll Trim position indication on EICAS will be inoperative.
23-03	Rudder Pedal Adjustment System	C	2	0	May be inoperative provided Rudder Pedals position is acceptable to the affected flight crewmember.
		C	2	0	(M)May be inoperative provided Rudder Pedals may be adjusted to suit individual pilot requirements.
24-01	Yaw Trim Position Indication on EICAS	B	1	0	(O)May be inoperative provided Rudder is verified centered before each flight.
31-06	PITCH CONTROL DISC Advisory EICAS Message	B	1	0	(O)May be inoperative provided: a) Both control columns are verified to be connected before each flight, and b) Autopilot Channels are considered inoperative.
33-05	Elevator Thrust Compensation (ETC) Function				Deleted, rev 12.
33-06 ***	Tail Strike Avoidance (ERJ-190-100/200)	C	1	0	(O)May be inoperative provided tail strike avoidance procedures are established and used.

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		NUMBER INSTALLED		NUMBER REQUIRED FOR DISPATCH	
				REMARKS OR EXCEPTIONS	
27	FLIGHT CONTROLS				
36-01	Stick Shakers	B	2	1	(O)One may be inoperative provided Stall Warning System is verified to operate normally before each departure.
41-01	Pitch Trim Position Indication on EICAS	B	1	0	(M)(O)May be inoperative provided horizontal stabilizer position is set by means of markings on tail cone before each flight.
41-09	AUTO CONFIG TRIM Function				Deleted, rev 12.
43-02	Pitch Trim Switches				
	1) Pitch Trim Switches on Yoke	C	2	1	
	2) Backup Trim Switch on the Control Pedestal	C	1	0	May be inoperative provided both pitch trim switches on yokes are operating normally.

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			4. REMARKS OR EXCEPTIONS	
27	FLIGHT CONTROLS			
53-00	Slat/Flap Electrical System	B	4	3
				(M)(O)Slat Channel 01 or Flap Channel 02 may be inoperative provided: a) Slat Channel 02 and Flap Channel 01 are verified operative, and b) There are no obstacles in the Net Takeoff Flight Path above Level Off Height.  NOTE: Flaps or Slats will operate at half extension and retraction rates.
53-02	Slat/Flap Actuator Control Electronic (SF-ACE) Channels	B	4	3
				Deleted, Rev 12 (Included in item 27-53-00).

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
28 FUEL					
00-00 Fuel System Synoptic Displays (MFD Fuel Page)	C	2	0	0	(O)MFD indications not addressed elsewhere in the MMEL may be inoperative.
11-05 Drain Valves					
(ERJ-170-100/200)	C	4	3	3	(M)One may be inoperative provided there is no evidence of leakage.
(ERJ-170-100/200)	B	4	2	2	(M)One Inner Drain Valve and one Outer Drain Valve on the opposite side may be inoperative provided there is no evidence of leakage.
13-00 Auxiliary Fuel System (ERJ-190-100ECJ)	C	1	0	0	(M)May be inoperative provided: a) Both auxiliary tanks are empty, and b) Fuel Transfer Mode is selected OFF.
14-03 Fwd and Aft Auxiliary Tank Vent Shutoff Valves (ERJ-190-100ECJ)	C	2	0	0	(M)May be inoperative if affected valves are verified open during refueling and are closed after refueling panel is closed.
21-16 Crossfeed Override Function ***	C	1	0	0	Except for ER operations, may be inoperative.
21-33 FUEL AC PUMP 1(2) FAIL Advisory EICAS Messages	C	2	0	0	(O)May be inoperative provided associated pump is verified to operate normally before each flight.
	C	2	0	0	(M)May be inoperative provided associated pump is verified to operate normally before each flight

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
28 FUEL					
22-01 DC Pump	B	1	1	0	(M)May be inoperative provided: a) DC Pump is deactivated, b) DC Pump remains selected OFF, and c) AC power is available.
22-07 APU Fuel Shutoff Valve	C	1	1	0	(M)Except for ER operations, may be inoperative provided: a) APU is not used, and b) Valve is secured closed.
22-08 APU Fuel Feed Line	C	1	1	0	(M)Except for ER operations, may be inoperative provided: a) APU fuel feed line is drained, b) APU fuel SOV is secured closed, and c) APU is not used.
22-17 APU FUEL SOV CLOSED Status EICAS Message	B	1	1	0	(M)Except for ER operations, may be inoperative provided: a) APU is used only on the ground, and b) APU Fuel Shutoff Valve is verified closed after APU shutdown.
	C	1	1	0	Except for ER operations, may be inoperative provided APU is not used.
22-19 APU FUEL SOV FAIL Caution EICAS Message	B	1	1	0	(M)Except for ER operations, may be inoperative provided: a) APU is used only on the ground, and b) APU Fuel Shutoff Valve is verified closed after APU shutdown.
	C	1	1	0	Except for ER operations, may be inoperative provided APU is not used.

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28	FUEL				
23-00	Pressure Defueling/Refueling System	C	1	0	(M)May be inoperative provided airplane is refueled by gravity.
	1) Automatic Mode	C	1	0	(M) May be inoperative provided airplane is refueled by pressure manual mode or by gravity.
23-09	Fuel Quantity Indication on Refueling Panel	C	1	0	(M)May be inoperative provided airplane is refueled by pressure manual mode or by gravity.
23-13	Pressure Refueling/Defueling Adapter Cap	C	1	0	(M)May be inoperative or missing provided: a) Refueling receptacle is visually checked for contamination before each refueling, and b) No leakage can be detected after refueling is completed.
23-21	Defueling Shutoff Valve	C	1	0	(M)May be inoperative provided shutoff valve is secured closed.
23-27	RH/LH Tank Refueling Shutoff Valve Closed Indication Light on the Refueling Panel	C	2	0	(M)May be inoperative provided valve is confirmed closed prior to each refueling.
23-29	Defueling Shutoff Valve Open Indication Light on the Refueling Panel	C	1	0	(M)May be inoperative provided shutoff valve is verified closed and then after each subsequent defueling.
23-31	DEFUEL SOV OPEN Advisory EICAS Message	C	1	0	(M)May be inoperative provided shutoff valve is secured closed except for defueling.

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		REMARKS OR EXCEPTIONS			
28	FUEL				
41-00	Wing Fuel Quantity Indication on EICAS and MFD (Electrical Fuel Quantity Indicating)	A	6	3	(M)(O)Except for ER operations, indications for one wing tank may be inoperative provided: a) Fuel quantity in associated tank is verified by an alternate means, b) Fuel flow and fuel used indications are available, and are monitored throughout flight, c) Associated FUEL 1(2) LO LEVEL Warning EICAS message is operative, and d) Repairs are made within three flight days.
42-00	Magnetic Level Indicators	C	6	0	May be inoperative provided Fuel Quantity Indication on EICAS and MFD operates normally.
43-00	Fuel Temperature Indicating System	C	1	0	(O)May be inoperative provided Total Air Temperature (TAT) is used as an indication of fuel temperature and is limited to -37 degrees C.
44-00	FUEL 1(2) LO LEVEL Warning EICAS Message	C	2	1	(O)One may be inoperative provided associated fuel quantity indications are available on EICAS display and MFD and are monitored throughout the flight.
		B	2	0	(O)Both may be inoperative provided fuel quantity indications are available on EICAS display and MFD on both sides and are monitored throughout the flight.

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29 HYDRAULIC POWER					
00-00	Hydraulic System Synoptic Displays (MFD Hydraulic Page)	C	2	0	(O)MFD indications not addressed elsewhere in the MMEL may be inoperative.
11-01	Engine Driven Pumps (EDP)				
	1) Depressurization Function	C	2	1	May be inoperative on one EDP provided: a) Both Starter Control Valves (SCV) operate normally, b) Both Engine Bleed Valves operate normally, and c) Crossbleed valve operates normally.
		C	2	1	May be inoperative on one EDP provided: a) Both Starter Control Valves (SCV) operate normally, b) APU Pneumatic Bleed System operates normally, and c) Crossbleed valve operates normally.
	2) ENG PUMP SHUTOFF Pushbutton Illumination on Hydraulic Control Panel	C	2	0	(O) May be inoperative provided ENG PUMP SHUTOFF pushbutton is verified operative.
11-02	Systems 1 and 2 Electrical Pumps				Deleted, Rev. 2.

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		REMARKS OR EXCEPTIONS			
29	HYDRAULIC POWER				
11-03	Power Transfer Unit (PTU)				
	1) Automatic Activation Function	A	1	0	(O)May be inoperative provided: a) PTU is selected on before takeoff and landing, and b) Repairs are made within 3 flight days.
11-04	Systems 1 and 2 Filter Manifold Differential Pressure Indicators	A	6	4	One per system may be inoperative provided repairs are made within 3 flight days.
11-06	Systems 1 and 2 Case Drain Differential Pressure Indicators	A	2	0	May be inoperative provided repairs are made within 3 flight days.
11-10	Systems 1 and 2 Reservoirs Relief Bleed Valves	B	2	0	(M)Bleed function may be inoperative provided: a) Affected valve is verified for no evidence of leakage, and b) Associated reservoir quantity is verified adequate once each flight day.
11-27	Engine Driven Pump Pressure Attenuators				Deleted, Rev.4.
11-28	Engine Driven Pump Suction Attenuators				Deleted, Rev.4.
11-29	Systems 1 and 2 Electrical Pumps Pressure Attenuators				Deleted, Rev.4.

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29	HYDRAULIC POWER				
11-30	Systems 1 and 2 Accumulators Pressure Indicators	C	2	0	(M)May be inoperative provided affected accumulator pre-charge pressure is verified adequate once each flight day.
12-01	System 3 Electrical Pumps	C	2	1	Pump 3B may be inoperative provided it remains selected OFF.
12-02	System 3 Filter Manifold Differential Pressure Indicators	A	2	1	One may be inoperative provided repairs are made within 3 flight days.
12-04	System 3 Case Drain Differential Pressure Indicator	A	1	0	May be inoperative provided repairs are made within 3 flight days.
12-07	System 3 Reservoir Relief Bleed Valve	B	1	0	(M)Bleed Function may be inoperative provided: a) Affected valve is verified for no evidence of leakage, and b) Associated reservoir quantity is verified adequate once each flight day.
12-17	System 3 Electrical Pumps Pressure Attenuator	C	1	0	(M)May be missing provided affected attenuator connection remains capped.
12-18	System 3 Accumulator Pressure Indicator	C	1	0	(M)May be inoperative provided affected accumulator pre-charge pressure is verified adequate once each flight day.

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29	HYDRAULIC POWER				
13-00	Systems 1, 2 and 3 Ground Service Connections	C	9	0	(M)May be inoperative closed provided: a) Affected connection is verified for no evidence of leakage, and b) Associated Reservoir quantity is verified adequate.
31-01	Systems 1, 2 and 3 Pressure Indications on MFD	C	6	0	May be inoperative provided: a) HYD 1(2)(3) LO PRESS Caution message is not displayed on EICAS, and b) FLT CTRL BIT EXPIRED Caution EICAS message is not displayed on EICAS.
32-00	Systems 1 and 3 Quantity Indications on MFD	C	2	0	(M)May be inoperative provided quantity is verified adequate on associated Reservoir Quantity Indicator once each flight day.
32-01	Systems 2 Quantity Indication on MFD	C	1	0	(M)(O)May be inoperative provided: a) Quantity is verified adequate on associated Reservoir 2 Quantity Indicator once each flight day, and b) Takeoff and landings are accomplished with AC Pump 2B turned ON.
33-01	Systems 1, 2 and 3 Temperature Indications on MFD	C	6	0	(O)May be inoperative provided: a) HYD TEMP SENS FAIL Advisory message is not displayed on EICAS, and b) Alternate procedures are established and used.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
30	ICE AND RAIN PROTECTION				
00-00	Anti-Ice System Synoptic Displays (MFD Anti-Ice Page)	C	2	0	(O)MFD indications not addressed elsewhere in the MMEL may be inoperative.
11-00	Wing Anti-Icing System	C	1	0	May be inoperative provided airplane is not operated in known or forecast icing conditions.
11-01	Wing Anti-Ice Valves	C	2	0	(M)May be inoperative provided: a) Affected valve is secured closed, and b) Airplane is not operated in known or forecast icing conditions.
11-11	A-I WING VLV OPEN Status EICAS Message	C	1	0	(M)May be inoperative provided: a) Affected valve is secured closed, and b) Airplane is not operated in known or forecast icing conditions.
		C	1	0	(O)May be inoperative provided Wing Anti-Ice Valves are verified to operate normally before each flight.
11-13	A-I WING NO DISPATCH Caution EICAS Message	C	1	0	(M)May be inoperative provided: a) Affected valve is secured closed, and b) Airplane is not operated in known or forecast icing conditions.
		C	1	0	(O)May be inoperative provided Wing Anti-Ice Valves are verified to operate normally before each flight.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
30	ICE AND RAIN PROTECTION				
21-00	Engine Anti-Icing Systems	C	2	1	Except for ER operations, may be inoperative provided airplane is not operated in known or forecast icing conditions.
21-01	Engine Anti-Ice Valves	C	2	1	(M)Except for ER operations, one may be inoperative provided: a) Affected valve is secured closed, and b) Airplane is not operated in known or forecast icing conditions.
		C	2	0	(M)(O)May be inoperative provided: a) Affected valve is secured open, and b) Appropriate performance penalties are applied.
21-09	A-I ENG 1(2) VLV OPEN Status EICAS Message	C	2	1	(M)(O)Except for ER operations, one may be inoperative provided: a) Associated valve is secured closed, b) Airplane is not operated in known or forecast icing conditions, and c) Appropriate performance penalties are applied.
		C	2	0	(M)(O)May be inoperative provided: a) Associated valve is secured open, and b) Appropriate performance penalties are applied.
		C	2	0	(O)May be inoperative provided a) Associated Engine Anti-Ice Valve is verified to operate normally before each flight, b) Appropriate performance penalties are applied.

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					REMARKS OR EXCEPTIONS
30	ICE AND RAIN PROTECTION				
31-00	Air Data Smart Probe (ADSP) Heater Controllers	B	8	4	One Heater controller per ADSP may be inoperative.
33-00	Total Air Temperature (TAT) Heaters	B	2	1	(O)May be inoperative provided: a) TAT indications are displayed normally, and b) One Ice Detection System operates normally.
		B	2	0	Except for ER operations, may be inoperative provided: a) TAT indications are displayed normally, and b) Airplane is not operated in visible moisture or in known or forecast icing conditions.

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30	ICE AND RAIN PROTECTION				
41-00	Windshield Wiper Systems	C	2	0	May be inoperative provided: a) Airplane is not operated in precipitation within 5 nautical miles of the airport of takeoff or intended landing, and b) Operations do not require their use.
	1) Low Speed Mode	C	2	0	May be inoperative provided associated High Speed Mode operates normally.
	2) High Speed Mode	C	2	0	May be inoperative provided associated Low Speed Mode operates normally.
	3) Timer Mode	C	2	0	
	4) Parking Mode	C	2	0	(M)May be inoperative provided blades are positioned to provide an acceptable field of vision to flight crew.
42-00	Windshield Heating Systems	B	2	1	Except for ER operations, one may be inoperative provided airplane is not operated in known or forecast icing conditions.
43-01	Door Sill Heater ***	D	-	0	(M)May be inoperative provided system is deactivated.

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		NUMBER INSTALLED		NUMBER REQUIRED FOR DISPATCH	
				REMARKS OR EXCEPTIONS	
30	ICE AND RAIN PROTECTION				
71-02	Drain Mast Heaters	C	2	0	(M)(O)May be inoperative provided: a) Water supply to the associated galley and lavatory is secured off, and b) Procedures are established and used to ensure that the associated galley sink drain is not used.  NOTE: Potable water inflight drainage system will be inhibited.
71-03	Drain Port Heater	D	1	0	(O) May be inoperative provided the forward lavatory and galley sink drain are not used on ground if OAT is below 0°C (32°F).  NOTE 1: The forward lavatory and galley sinks may be used on ground if OAT is greater than the limit above.  NOTE 2: Potable water drainage system will be inhibited.
71-50	Freeze Protection Kit (FPK)	C	1	0	(M)Individual components may be inoperative provided: a) FPK is tested operational once each flight day, and b) Potable water system is drained when parking at or below water freezing conditions.  NOTE 1: Any portion of the system which operates normally may be used.  NOTE 2: Water system may be serviced and used.  (Continued)

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30 ICE AND RAIN PROTECTION						
71-50 Freeze Protection Kit (FPK) (Cont'd)	C	1	1	0	(M)May be inoperative provided: a) Water system is drained and not used, and b) Procedures are established and used to ensure that water system is not serviced.	
81-00 Ice Detector Systems	C	2	2	0	(O)May be inoperative provided Engine and Wing Anti-Icing Systems are operated manually.	

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31	INDICATING/RECORDING SYSTEMS				
00-00	Status Synoptic Displays (MFD Status Page)	C	2	0	(O)MFD indications not addressed elsewhere in the MMEL may be inoperative.
16-01	REMOTE CB TRIP Advisory EICAS Message	B	1	0	(M)May be inoperative provided: a) Associated circuit breaker monitor is verified to be inoperative, b) System associated with the thermal circuit breaker is verified to operate normally or deferred according to the applicable MMEL entry, and c) A visual inspection of the affected CB is performed once each flight day.
21-00	Clock System				
	1) Time Function on Digital Clock	C	1	0	May be inoperative provided at least one Time Function on MFD Status Page operates normally.
	2) Time Function on MFD Status Page	C	2	1	
		A	2	0	May be inoperative provided: a) Time Function on Digital Clock operates normally, b) At least one Cockpit Voice Recorder (CVR) operates normally, and c) Repairs are made within 3 flight days.

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31 INDICATING/RECORDING SYSTEMS						
22-00 Chronometer System						
	1) Chronometer Function on Digital Clock	C	1	0		May be inoperative provided at least one Chronometer Function on PFD operates normally.
	2) Elapsed Time Function on Digital Clock	C	1	0		
	3) Chronometer Function on PFD	C	2	1		
		C	2	0		May be inoperative provided Chronometer Function on Digital Clock operates normally.
31-00 Digital Voice-Data Recorder (DVDR) System						
	1) Cockpit Voice Recorder (CVR) Functions	C	2	1		
		A	2	0		May be inoperative provided: a) At least one Flight Data Recorder (FDR) Function operates normally, and b) Repairs are made within three flight days.
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31 INDICATING/RECORDING SYSTEMS								
31-00 Digital Voice-Data Recorder (DVDR) System (Cont'd)								
2) Flight Data Recorder (FDR) Functions		C	2	1				
		A	2	0				May be inoperative provided: <ul style="list-style-type: none"> <li>a) At least one Cockpit Voice Recorder (CVR) Function operates normally,</li> <li>b) Airplane is not dispatched from a designated airport as listed in the operator's MEL unless:                             <ul style="list-style-type: none"> <li>1 - The FDR failure occurs after pushback but prior to takeoff, or</li> <li>2 - The FDR repair was attempted but was not successful.</li> </ul> </li> <li>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 airport where repair must be accomplished prior to dispatch, and</li> <li>d) Repairs are made within three flight days.</li> </ul>
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31	INDICATING/RECORDING SYSTEMS					
31-00	Digital Voice-Data Recorder (DVDR) System (Cont'd)					
	2) Flight Data Recorder (FDR) Functions (Cont'd)					
	a) DFDR Recording Parameters Required by (CFR)	A	-	-		May be inoperative provided: a) At least one Cockpit Voice Recorder (CVR) operates normally, and b) Repairs are made within 20 calendar days.
	b) DFDR Recording Parameters Not Required by (CFR)	A	-	-		May be inoperative provided repairs are made prior to the completion of the next heavy maintenance visit.
***	3) CVR Independent Power Supply	C	-	0		
32-00	Quick Access Recorder (QAR)	D	1	0		
***						
41-03	Aircraft Personality Module (APM)	C	4	2		

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31	INDICATING/RECORDING SYSTEMS				
41-08	Modular Avionics Unit (MAU) Fans				
	1) MAU 1 Fans	C	4	3	
	2) MAU 2 Fans	C	3	2	
	3) MAU 3 Fans	C	3	2	
41-30	Configuration Monitor System (CMS)	C	2	1	
51-00	Aural Warning System				
	1) Channels	C	2	1	
51-01	Takeoff configuration (T/O CONFIG) Button	C	1	0	(O)May be inoperative provided Takeoff Configuration Warning is verified to be operative before each flight.
52-01	Master Warning/Caution Pushbuttons/Annunciators				
	1) Warning Lights	C	2	1	
	2) Warning Alarm Cancel Function	C	2	1	
	3) Caution Lights	C	2	1	
	4) Caution Alarm Cancel Function	C	2	1	

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31 INDICATING/RECORDING SYSTEMS					
60-00 Electronic Checklist (ECL)	C	1	0		(O) May be inoperative provided alternate procedures are established and used.
	D	1	0		May be inoperative provided procedures do not require its use.
61-01 Display Units (DU)	A	5	4		(O) RH MFD, RH PFD or LH PFD may be inoperative provided: a) All CCD buttons, knobs and touch pad operate normally on the associated side, b) Reversionary Panel Displays knobs are verified to operate normally, c) IESS operates normally, and d) Repairs are made within 3 flight days.
61-02 Reversionary Panel (ADS/IRS) Pushbutton Illumination	C	4	0		(O) May be inoperative provided associated pushbutton is verified operative.
61-04 EICAS Declutter Override (EICAS FULL) Button	D	1	0		

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31	INDICATING/RECORDING SYSTEMS					
61-10	Display Controller Panels					
1)	Horizontal Situation Indicator (HSI) Mode Selector Buttons	C	2	0		
2)	Weather Radar (WX) Buttons	D	2	0		
3)	FMS Source Selector Buttons	C	2	0		May be inoperative provided procedures do not require their use.
4)	RA/BARO Selector Knobs	C	2	0		May be inoperative provided the setting required for the intended approach is available.
5)	Decision Height/Minimum Descent Altitude (MINIMUMS) Selector Knobs	C	2	0		May be inoperative provided approach minimums do not require their use.
6)	VOR/Localizer (V/L) Source Selector Buttons	C	2	-		May be inoperative provided procedures do not require their use.
7)	Preview (PREV) Buttons	C	2	0		
(Continued)						

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31 INDICATING/RECORDING SYSTEMS						
61-10 Display Controller Panels (Cont'd)						
8) Flight Path Reference (FPR) Buttons	C	2	2	0		
9) ADF/VOR/FMS Bearings (Circle/Diamond) Selector Buttons	C	4	4	-		May be inoperative provided procedures do not require their use.
10) Standard Barometric Pressure (PUSH STD) Buttons	C	2	2	0		
11) IN/hPa Selector Knobs	C	2	2	0		May be inoperative provided required units for the intended flights are available.
62-01 Cursor Control Device (CCD)						
1) Format Location Buttons	B	6	6	5		One MFD or PFD button may be inoperative provided all remaining CCD buttons, knobs and touch pads operate normally on both sides.
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					REMARKS OR EXCEPTIONS
31 INDICATING/RECORDING SYSTEMS					
62-01	Cursor Control Device (CCD) (Cont'd)				
	2) Enter Buttons	B	4	3	One may be inoperative provided all remaining CCD buttons, knobs and touch pads operate normally on both sides.
	3) Inner Tuning Knobs	B	2	1	One may be inoperative provided all remaining CCD buttons, knobs and touch pads operate normally on both sides.
	4) Touch Pads	B	2	1	One may be inoperative provided all remaining CCD buttons and knobs operate normally on both sides.

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1.

ITEM

2. NUMBER INSTALLED

3. NUMBER REQUIRED FOR DISPATCH

4. REMARKS OR EXCEPTIONS

32 LANDING GEAR

33-01 Landing Gear Control Lever Lock Solenoid (Applicable to Post-Mod SB 170-32-0019 or with an equivalent Embraer incorporated modification)

41-02 AutoBrake System \*\*\*

D

44-17 Emergency/Parking Brake Accumulators Pressure Transducers

44-30 Emergency/Parking Brake Accumulators Pressure Indication on MFD

1

1

2

4

0

0

0

0

(M)(O)May be inoperative provided:  
 a) AutoBrake control knob is selected OFF and deactivated,  
 b) Brake temperature sensors and indications operate normally, and  
 c) Alternate procedures are established and used.

(M)May be inoperative provided:  
 a) AutoBrake Control Module is removed, and  
 b) Procedures do not require its use.

(M)May be inoperative provided associated accumulator charge is verified adequate once each flight day.

(M)May be inoperative provided associated accumulator charge is verified adequate once each flight day.

Deleted, Rev 4.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
32	LANDING GEAR				
47-01	Brake Temperature Sensors	C	4	3	(O)One may be inoperative provided: a) Landing Gear remains selected down for seven minutes after takeoff, b) Appropriate performance penalties are applied.
		C	4	0	(O)May be inoperative provided: a) Landing Gear remains selected down for seven minutes after takeoff, b) Brake cooling time according to AFM Quick Turn Around Weight limitations is complied with, and c) Appropriate performance penalties are applied.
47-15	Brake Temperature Indication on MFD	C	4	3	(O)One may be inoperative provided: a) Landing Gear remains selected down for seven minutes after takeoff, b) Appropriate performance penalties are applied.
		C	4	0	(O)May be inoperative provided: a) Landing Gear remains selected down for seven minutes after takeoff, b) Brake cooling time according to AFM Quick Turn Around Weight limitations is complied with, and c) Appropriate performance penalties are applied.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
32	LANDING GEAR				
49-11	Brake Assembly Wear Indicators	A	8	7	One may be inoperative or missing provided repairs are made within 30 calendar days
		C	8	4	One per brake assembly may be inoperative or missing.
49-13	Nose Wheel Spinbrakes	C	2	0	May be missing or removed.
49-15	Tire Pressure *** Indicators	D	-	0	
53-03	Rudder Pedals Nose Wheel Steering System	C	2	0	May be inoperative provided Handwheel Nose Wheel Steering System operates normally.
53-07	Nose Wheel Steering Disengage Switches				
	1) Steering Disengage Buttons on Yoke	C	2	1	(O)Left seat pilot side Steering Disengage Button may be inoperative.
	2) External Steering Disengage Switch	C	1	0	(O)May be inoperative provided: a) Steering Disengage Button is pressed before towing the airplane, and b) Parking brake and steering status are verified before towing the airplane.
61-11	Towing Indication Lights	C	2	0	(O)May be inoperative provided parking brake and steering status are verified before towing the airplane.

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				NUMBER REQUIRED FOR DISPATCH		
				REMARKS OR EXCEPTIONS		
33 LIGHTS						
10-00	Cockpit/Flight Deck/Flight Compartment and Instrument Lighting Systems	C	-	-	-	Individual lights may be inoperative provided 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 crewmembers' eyes, c) Lighting configuration and intensity is acceptable to the flight crew, and d) Flight deck emergency lighting is operative.
21-00	Cabin Interior Illumination System					
	1) All Models Except ECJ	C	-	-	-	Individual lights including up to 10 percent of the ceiling light lamps may be inoperative provided: a) Sufficient lighting remains for flight attendants to perform their assigned duties, b) No more than 2 adjacent ceiling light lamps in the longitudinal or lateral direction are inoperative, c) Remaining operational ceiling, forward entry area, forward galley area and aft entry area lighting must be functional in BRIGHT setting, and d) Cabin emergency lighting is operative.
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33 LIGHTS								
21-00 Cabin Interior Illumination System (Cont'd)								
1) All Models Except ECJ (Cont'd)		C	-	-				(O)Individual lights including up to 10 percent of the ceiling light lamps may be inoperative provided: a) Sufficient lighting remains for flight attendants to perform their assigned duties, b) No more than 2 adjacent ceiling light lamps in the longitudinal or lateral direction are inoperative, c) Remaining operational ceiling area lighting must be functional in BRIGHT setting, d) Photoluminescent Escape Path Route Marking System is charged 30 minutes prior to the first flight of each day, and e) Cabin emergency lighting is operative.
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33 LIGHTS								
21-00 Cabin Interior Illumination System (Cont'd)								
2) ERJ-190-100ECJ Model		C	-	-				Individual lights may be inoperative provided: a) No more than 10 per cent of the ceiling light lamps are inoperative, b) No more than 2 adjacent ceiling light lamps in the longitudinal or lateral direction are inoperative, and c) Cabin emergency lighting is operative.
23-00 Passenger Signs		C	-	-				(M)(O)No passenger, flight attendant seat or lavatory may be occupied from which a "No Smoking/Fasten Seat Belt/Return to Seat" sign is not readily legible, or that seat must be blocked and placarded "DO NOT OCCUPY".
		C	-	-				(O)"No Smoking/Fasten Seat Belt/Return to Seat" signs may be inoperative and the affected passenger seat(s), flight attendant seat(s) or lavatory may be occupied provided: a) The passenger address system operates normally and can be clearly heard throughout the cabin during flight, and b) The passenger address system is used to notify the flight attendant and passengers when seat belts should be fastened and when smoking is prohibited.

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33 LIGHTS						
23-09	Cockpit Sterile Light (except ECJ model)	C	-	0		(O)May be inoperative provided alternate procedures are established and used.
26-00	Courtesy Lights System	C	1	0		May be inoperative provided sufficient light is available at passenger entry area.
31-00	Forward and Aft Cargo/Baggage Compartment Lights	C	9	0		
32-00	Service Compartment Lights	C	-	0		
41-00	Landing Lights	C	3	2		
		C	3	0		May be inoperative for day operations.
42-00	Taxi Lights	C	3	0		
43-00	Navigation Lights	C	8	4		(M)Any light may be inoperative provided the following minimum configuration is complied with: a) One green light at the right forward wing tip position, b) One red light at the left forward wing tip position, and c) One white light at each aft wing tip position.
	1) EMBRAER 170/190/195 and EMBRAER 175 Pre-Mod. SB-170-57-0058	C	8	0		May be inoperative for day operations. (Continued)

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33	LIGHTS							
43-00	Navigation Lights (cont'd)							
	2) Airplanes with Enhanced Wing Tip or EMBRAER 175 Post-Mod. SB-170-57-0058	C	4	0				May be inoperative for day operations.
44-00	Wing Inspection Lights	C	2	0				(O)May be inoperative provided ground deicing procedures do not require their use.
45-00	Red Beacon Lights	C	2	0				May be inoperative for night operations provided strobe lights operate normally.
		C	2	0				May be inoperative for day operations.
46-00	Logo Lights	D	2	0				
47-00	Strobe Lights							
	1) EMBRAER 170/190/195 and EMBRAER 175 Pre-Mod. SB-170-57-0058	C	4	0				(M)May be inoperative provided red beacon lights operate normally.
	2) All configurations	C	4	0				May be inoperative for day operations.
50-21	Photoluminescent Escape Route Marking System (except ECJ model)	C	-	-				Up to 10 percent of any Photoluminescent Escape Route Marking section may be damaged or missing.

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33 LIGHTS								
50-25	External Emergency Lights (ERJ-190-100/200)	C	-	0				May be inoperative for day operations.

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34 NAVIGATION					
11-00	Integrated Electronic Standby System (IESS)				
	1) Standby Attitude Indication	C	1	0	May be inoperative provided not required by CFR.
		B	1	0	May be inoperative provided: a) All display units are operative, b) Operations are conducted in Day VMC only, and c) Operations are not conducted into known or forecast over-the-top conditions.
	2) STD Baro Button	C	1	0	May be inoperative provided BARO knob on the IESS operates normally.
	3) Brightness Buttons	C	2	0	May be inoperative provided brightness level is acceptable to the crew.
	4) CAGE Button	B	1	0	(O)May be inoperative provided IESS is reinitialized before each flight.
		B	1	0	May be inoperative provided IESS attitude indication is considered inoperative.
	5) VMO/MMO Barber Pole	C	1	0	May be inoperative provided VMO Flag is displayed.
15-03	Total Air Temperature (TAT) Sensors	B	2	1	(O)May be inoperative provided auto pilot and autothrottle are not coupled to the affected air data system.

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34 NAVIGATION						
15-05	Total Air Temperature (TAT) Indications					
15-07	Static Air Temperature (SAT) Indications	C	6	0		
15-09	True Airspeed (TAS) Indications	C	4	0		
23-00	Standby Magnetic Compass System	B	1	0		(O)May be inoperative provided any combination of three IRS stabilized Compass Systems are installed and operate normally.
		B	1	0		(O)May be inoperative provided: a) Any combination of two IRS stabilized Compass Systems operate normally, and b) Airplane is operated with Dual Independent Navigation Capability and under Positive Radar Control by ATC on the enroute portion of the flight.
		C	1	0		(O)May be inoperative provided: a) Any combination of two IRS stabilized Compass Systems operate normally, and b) Airplane is operated with Dual Independent Navigation Capability, and c) Two Global Positioning Systems operate normally.
25-00	Head Up Guidance System (HGS)	D	2	1		
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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
34	NAVIGATION				
25-00 ***	Head Up Guidance System (HGS)(Cont'd)	D -	0	0	May be inoperative provided approach minimums or operating procedures do not require its use.  NOTE: Any mode which operates normally may be used.
31-00	Radar Altimeter System				a)
	1) Applicable to Post-mod. SB 170-34-0032 and all EMBRAER 175/190/195	C 2	1	1	(M)May be inoperative provided: b) System is deactivated, and c) Approach minimums or operating procedures do not require its use.
	2) Applicable to all configurations	A -	0	0	(M)May be inoperative provided: a) System is deactivated, b) Approach minimums or operating procedures do not require its use, c) Ground Proximity Warning System (GPWS) Modes 1-4, Mode 5, Advisory Callouts and Windshear Mode are considered inoperative, d) Traffic Alert and Collision Avoidance System (TCAS) is considered inoperative, e) For ECJ models, the Internal Door Warning System is considered inoperative, f) For ECJ models, the Iridium System is considered inoperative, and g) Repairs are made within two flight days.

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34	NAVIGATION					
32-00	Very High Frequency Navigation Systems (VHF NAV)					
	1) VOR Systems	C	2	-		Any in excess of those required by CFR may be inoperative.
	2) ILS Systems	C	2	-		Any in excess of those required by CFR may be inoperative.
	3) Marker Beacon Systems	C	2	-		May be inoperative provided approach minimums do not require its use.
41-00	Enhanced Ground Proximity Warning System (EGPWS)					
	1) Ground Proximity Warning System (GPWS)	A	1	0		(O)May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two flight days.
	a) Modes 1-4	A	4	0		(O)May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two flight days.
	b) Test Mode	A	1	0		May be inoperative provided: a) GPWS is considered inoperative, and b) Repairs are made within two flight days.
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34	NAVIGATION					
41-00	Enhanced Ground Proximity Warning System (EGPWS) (cont'd)					
	1) Ground Proximity Warning System (GPWS) (cont'd)					
	c) Glideslope Deviation(s) (Mode 5)	C	-	1		
		B	-	0		
	d) Advisory Callouts	B	-	0		(O)May be inoperative provided alternate procedures are established and used.
		C	-	0		(O)May be inoperative provided: a) Advisory callout not required by CFR, and b) Alternate procedures are established and used.
	e) Windshear Warning and Flight Guidance System (Windshear Mode)	B	-	0		(O)May be inoperative provided alternate procedures are established and used.  NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedures.  (Continued)

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34 NAVIGATION						
41-00	Enhanced Ground Proximity Warning System (EGPWS) (cont'd)					
	2) Terrain System B - Forward Looking Terrain Avoidance (FLTA) and Terrain Clearance Floor (TCF) Functions	B	1	0		(O)May be inoperative provided alternate procedures are established and used.
***	3) Runway Awareness & Advisory System (RAAS)	C	1	0		
41-05	Steep Approach Mode	D	1	0		May be inoperative provided operations do not require its use.
42-00	Weather Radar System	C	-	-		Any in excess of those required by CFR may be inoperative.
	1) Stabilization Function	B	1	0		(M)May be inoperative provided: a) Antenna sweep is parallel to aircraft horizontal plane, and b) Antenna tilt operates normally.

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34 NAVIGATION						
43-00	Traffic Alert and Collision Avoidance System II (TCAS II)	B	-	0	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	0	(M)(O)May be inoperative provided: a) Not required by CFR, b) System is deactivated and secured, and c) Enroute or approach procedures do not require its use.
	1) Resolution Advisory (RA) Display System(s)	C	2	1	1	May be inoperative on non-flying pilot side.
		C	-	0	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.
	2) Traffic Alert Display System(s)	C	-	0	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.
	3) Audio Functions	B	1	0	0	May be inoperative provided enroute or approach procedures do not require use of TCAS.
***	4) Airspace Selection Function	C	-	0	0	

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34 NAVIGATION						
44-00 ***	Lightning Sensor System	D	-	0		
51-00	Distance Measuring Equipment (DME) Systems	D	2	-		Any in excess of those required by CFR may be inoperative.
52-00	ATC Transponders and Automatic Altitude Reporting Systems	B	2	0		May be inoperative provided: a) Operations do not require its use, and b) Prior to flight, approval is obtained from ATC facilities having jurisdiction over the planned route of flight.
		D	-	1		Any in excess of those required by CFR may be inoperative.
1)	Elementary and Enhanced Downlink Aircraft Reportable Parameters not Required by CFR	A	-	0		May be inoperative provided: a) Operations do not require its use, and b) Repairs are made prior to the completion of the next heavy maintenance visit.
2)	ADS-B Squitter Transmissions	A	-	0		May be inoperative provided: a) Operations do not require its use, and b) Repairs are made prior to completion of the next heavy maintenance visit.

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34 NAVIGATION						
52-03 Automatic Dependent Surveillance-Broadcast (ADS-B) System						Deleted, rev 12.
53-00 Automatic Direction Finder (ADF) System		D	-	-		Any in excess of those required by CFR may be inoperative.
56-00 Global Positioning System		C	-	0		May be inoperative provided procedures do not require its use.
		D	2	1		
61-00 Flight Management System (FMS)		C	-	0		(O)May be inoperative provided alternate procedures are established and used.
		D	2	1		May be inoperative provided procedures do not require its use.
1) 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						
61-02 Multifunction Control Display Unit (MCDU)	B	2	2	1		(O)MCDU 1 may be inoperative provided: a) VHF COMM 1 and 2 operate normally, b) VHF NAV 1 and 2 operate normally, c) All CCD buttons, knobs and touch pad operate normally on both sides, d) All display units operate normally, and e) Approach minimums or operating procedures do not require its use.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
35	OXYGEN				
10-08	Crew Oxygen Cylinder Charging Valve	C	1	0	(M)May be inoperative provided: a) There is no evidence of leakage, and b) Crew Oxygen Cylinder is removed for refilling or is replaced with a full one, if necessary.
11-01	Crew Oxygen Pressure Indication				
1)	Crew Oxygen Indication on MFD	C	1	0	(M)May be inoperative provided: a) Crew oxygen pressure is checked before each flight, b) Flight is not conducted over an area where the Minimum Enroute Altitude is above 10000 feet MSL, c) Both air conditioning packs operate normally, d) Pressurization system operates normally, and e) Flight is conducted at or below FL 250.
2)	Crew Oxygen Pressure Indication on Pressure Gauge Outside Airplane	C	1	0	(O)May be inoperative provided Crew Oxygen Pressure Indication on MFD is checked before each departure.
11-03	Oxygen Cylinder Pressure Relief Disc (Green Disc)	C	1	0	

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35 OXYGEN						
20-00 Passenger Oxygen System	B	1	1	0		(O)May be inoperative provided: a) Flight is not conducted over an area where the Minimum Enroute Altitude is above 14000 feet MSL, b) Both air conditioning packs operate normally, c) Pressurization system operates normally, d) Flight is conducted at or below FL 250, e) Portable Oxygen Cylinders and Masks are provided for all cabin crew members and for a 30 minute period for 10 per cent of the passengers, and f) Passengers are appropriately briefed.
	B	1	1	0		May be inoperative provided flight is conducted at or below 10,000 feet MSL.
1) Automatic Deployment System	C	1	1	0		(M)(O)May be inoperative provided: a) Manual deployment (OVRD)system operates normally, and b) Flight is conducted at or below FL 300.
2) Passenger Oxygen Dispensing Unit	C	-	-	0		(M)May be inoperative with no flight altitude restriction provided: a) Affected seats are placarded and blocked to prevent occupancy, and b) Units operate normally at all usable lavatory and flight attendant locations.

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35	OXYGEN							
20-02	Passenger Oxygen Dispensing Unit Door Electrical Latches (except ECJ model)	C	-	0				(M)(O)Automatic opening feature of the door latch(es) may be inoperative unlatched and kept closed by an alternative means provided: a) Associated Passenger Oxygen Dispensing Unit operates normally, b) Flight is conducted at or below FL 300, and c) Passenger(s) occupying the associated seat(s) is (are) briefed on oxygen mask procedure.
20-03	Passenger Oxygen Box Deploy Tool (except ECJ model)	C	-	0				(O)May be missing provided an alternative tool is available.
20-09	Lavatory Oxygen System (except ECJ model)	C	-	0				(O)May be inoperative provided: a) Lavatory door is locked closed and placarded "INOPERATIVE - DO NOT ENTER", and b) Lavatory is not used for any purpose.  NOTE: These provisos are not intended to prohibit lavatory inspections by crewmembers.
		C	-	0				(O)May be inoperative provided procedures are established and used to only allow use of the associated lavatory at or below FL 250.
21-04	Passenger Oxygen Masks Deployed ON Indication Light	C	1	0				

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			4. REMARKS OR EXCEPTIONS	
35 OXYGEN				
30-01	Portable Oxygen Cylinder and Masks	D	-	-
				(M)Any in excess of those required by CFR may be inoperative provided: a) Required distribution of serviceable cylinders is maintained throughout aircraft, and b) Cylinders not properly serviced are replaced, serviced or removed at the next available maintenance facility.
30-03	Protective Breathing Equipment (PBE)	D	-	-
				Any in excess of those required by CFR may be inoperative or missing.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
36 PNEUMATIC					
00-00 Engine Bleed Systems	C	2	1	1	(O)Except for ER operations, one may be inoperative provided: a) Associated engine bleed remains selected off, b) Crossbleed Valve operates normally, and c) Flight is conducted at or below FL 310.  NOTE: See AFM for Engine Airstart - Windmilling (Engine Airstart Envelope).
(Airplanes without forward cargo compartment ventilation installed or with cargo shutoff valve P/N 1001497-2)	C	2	1	1	(O)Except for ER operations, one may be inoperative provided: a) Associated engine bleed remains selected off, b) If Bleed 1 is affected, live animals are not carried in the cargo/baggage compartment, c) Airplane is not operated in known or forecast icing conditions, and d) Flight is conducted at or below FL 310.  NOTE: See AFM for Engine Airstart - Windmilling (Engine Airstart Envelope).  (Continued)

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36 PNEUMATIC								
00-00 Engine Bleed Systems (cont'd)								
(Airplanes with cargo shutoff valve P/N 1001497-1)	C	2	1	1	(O)	Except for ER operations, one may be inoperative provided:		<ul style="list-style-type: none"> <li>a) Associated engine bleed remains off,</li> <li>b) Airplane is not operated in known or forecast icing conditions,</li> <li>c) If Bleed 1 is affected, the forward cargo/aft baggage compartment shutoff valve is considered inoperative, and</li> <li>d) Flight is conducted at or below FL310.</li> </ul> <p>NOTE: See AFM for Engine Airstart - Windmilling (Engine Airstart Envelope).</p>
	C	2	0	0	(O)	Except for ER operations, may be inoperative provided:		<ul style="list-style-type: none"> <li>a) Both engine bleeds remain selected off,</li> <li>b) APU bleed is operating normally and supplying bleed air,</li> <li>c) Flight is conducted at or below FL 150, and</li> <li>d) Airplane is not operated in known or forecast icing conditions.</li> </ul> <p>NOTE: See AFM for Engine Airstart - Windmilling (Engine Airstart Envelope).</p> <p>(Continued)</p>

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36 PNEUMATIC  
  
00-00 Engine Bleed Systems  
(cont'd)  
  
(Airplanes without forward cargo compartment ventilation installed or with cargo shutoff valve (P/N 1001497-2))

C

2

0

(O)Except for ER operations, may be inoperative provided:  
a) Both engine bleeds remain selected off,  
b) Live animals are not carried in the cargo/baggage compartment,  
c) Flight is conducted in an unpressurized configuration,  
d) Airplane is not operated in known or forecast icing conditions, and  
e) For ERJ-190-100ECJ, the Auxiliary Fuel system, if installed, is considered inoperative.

NOTE: See AFM for Engine Airstart - Windmilling (Engine Airstart Envelope).  
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36 PNEUMATIC						
00-00 Engine Bleed Systems (cont'd)						
(Airplanes with cargo shutoff valve (P/N 1001497-1))	C	2	0		(O)Except for ER operations, may be inoperative provided: a) Both engine bleeds remain selected off, b) The forward cargo/aft baggage compartment shutoff valve is considered inoperative, c) Flight is conducted in an unpressurized configuration, d) Airplane is not operated in known or forecast icing conditions, and e) The Auxiliary Fuel system, if installed, is considered inoperative.	
						NOTE: See AFM for Engine Airstart - Windmilling (Engine Airstart Envelope).
00-01 Bleed Air Manifold Pressure Indications on MFD	C	2	0		(O)May be inoperative provided alternate procedures are established and used.	
10-01 Cross Bleed Valve	C	1	0		(M)(O)Except for ER operations, may be inoperative provided valve is verified closed and remains closed except for engine starting.	
						NOTE: See AFM for Engine Airstart-Windmilling (Engine Airstart Envelope). (Continued)

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36 PNEUMATIC					
10-01 Cross Bleed Valve (Cont'd)	C	1	0		(O)Except for ER operations, may be inoperative provided a) Flight is conducted in an unpressurized configuration, b) Airplane is not operated in known or forecasted icing conditions, and c) The Auxiliary Fuel System, if installed, is considered inoperative.
11-01 High Stage Bleed Valves	C	2	0		(M)(O)Except for ER operations, may be inoperative provided: a) Both High Stage Bleed Valve are secured closed, and b) Both Engine Bleed Systems are considered inoperative.
	C	2	1		(M)(O)Except for ER operations, one may be inoperative provided: a) Affected Engine Bleed Valve is secured closed, and b) Associated Engine Bleed System is considered inoperative.
11-03 Engine Bleed Valves	C	2	1		(M)(O)Except for ER operations, one may be inoperative provided: a) Affected Engine Bleed Valve is secured closed, and b) Associated Engine Bleed System is considered inoperative.
	C	2	0		(M)(O)Except for ER operations, both be inoperative provided: a) Both Engine Bleed Valves are secured closed, and b) Both Engine Bleed Systems are considered inoperative.
11-09 Fan Air Valves					Deleted, rev 10.

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36 PNEUMATIC								
11-12	Fan Air Inlet Doors (ERJ-170-100/200) (Pre-Mod SB 170-36-0008 or Post-Mod SB 170-54-0010)	C	2	0	(M)(O)	0	May be inoperative provided: a) Affected door is secured open, and b) Appropriate performance penalties are applied	
12-00	APU Pneumatic Bleed System	C	1	0		0	Except for ER operations, may be inoperative provided APU Bleed remains selected off.	
12-01	APU Bleed Shutoff Valve	C	1	0	(M)	0	Except for ER operations, may be inoperative provided: a) Valve is secured closed, and b) APU Bleed remains selected off.	
12-02	APU Bleed Check Valve	C	1	0		0	Except for ER operations, may be inoperative provided APU Bleed remains selected off.	
13-01	High Pressure Ground Connection Check Valve	B	1	0		0	May be inoperative closed provided APU Pneumatic Bleed System operates normally.	

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SYSTEM & SEQUENCE NUMBER	ITEM	1.	2.	NUMBER INSTALLED	3.	NUMBER REQUIRED FOR DISPATCH	4.	REMARKS OR EXCEPTIONS
36 PNEUMATIC								
21-00 BLEED 1(2) LEAK Caution EICAS message		C	2	1				(M)(O) Except for ER operations, BLEED 1 LEAK Caution EICAS message may be inoperative provided: a) Associated Engine Bleed valve is secured closed, b) Crossbleed valve remains closed, c) APU Pneumatic Bleed System is considered inoperative, d) Airplane is not operated in known or forecasted icing conditions, e) Forward cargo/aft baggage compartment shutoff valves are considered inoperative, and f) Flight is conducted at or below FL310.
		C	2	1				(M)(O) Except for ER operations, BLEED 2 LEAK Caution EICAS message may be inoperative provided: a) Associated Engine Bleed valve is secured closed, b) Crossbleed valve remains closed, c) Airplane is not operated in known or forecasted icing conditions, and d) Flight is conducted at or below FL310.

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		REMARKS OR EXCEPTIONS			
36 PNEUMATIC					
21-00 BLEED 1(2) LEAK Caution EICAS message (Cont'd)	C	2	0		(M)(O) Except for ER operations, may be inoperative provided: a) Both Engine Bleed valves are secured closed, b) APU Bleed Shutoff Valve is considered inoperative, c) Flight is conducted in an unpressurized condition, d) Airplane is not operated in known or forecasted icing conditions, e) Forward cargo/aft baggage compartment shutoff valves are considered inoperative, and f) The Auxiliary Fuel System, if installed, is considered inoperative.
30-00 Ozone Converters ***					Deleted, Rev.4.

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38	WATER/WASTE							
00-02	Water and Waste System Indications on Flight Attendant Panel (except ECJ model)	D	11	0				(M) May be inoperative provided alternate procedures are established and used.
10-00	Potable Water Systems	C	-	-				(M)Individual components may be inoperative provided: a) Associated components are deactivated or isolated, and b) Associated components are verified not to have leaks.  NOTE: Any portion of the system which operates normally may be used.
		C	-	-				(M)May be inoperative provided: a) System is drained, and b) Procedures are established to ensure that system is not serviced.
11-03	Lavatory Infrared Sensors (ERJ-190-100ECJ)	C	-	0				(M)May be inoperative provided associated lavatory. Door(s) is secured closed and placarded, "INOPERATIVE - DO NOT ENTER".
11-14 ***	Cockpit in-flight Drainage System	D	1	0				(M) May be inoperative provided: a) Aft Drain Valve is deactivated, and b) Alternate procedures are established and used.

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38 WATER/WASTE						
32-00 Vacuum Waste Systems	C	-	-	-		(M)Individual components may be inoperative provided: a) Associated components are deactivated or isolated, and b) Associated system components are verified not to have leaks.  NOTE: Any portion of the system which operates normally may be used.
	C	-	-	-		(M)Associated lavatory system(s) may be inoperative provided: a) Associated components are deactivated or isolated to prevent leaks, b) The Pilot-in-Command will determine if flight duration is acceptable with a FWD lavatory unusable, and c) Associated lavatory door(s) is secured closed and placarded, "INOPERATIVE - DO NOT ENTER".  NOTE: These provisions are not intended to prohibit inspections by crewmembers.
32-09 Vacuum Generator	A	1	1	0		May be inoperative powered on (running) continuously provided repairs are made within one flight day.
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38 WATER/WASTE								
32-09 Vacuum Generator (Cont'd)		C	1	0				(M) May be inoperative provided: a) Vacuum generator is deactivated, b) The Pilot-in-Command will determine if flight duration is acceptable with a FWD lavatory unusable, and c) Associated lavatory door(s) is secured closed and placarded, "INOPERATIVE - DO NOT ENTER".  NOTE: These provisions are not intended to prohibit inspections by crewmembers.
		C	1	0				(M)(O)May be inoperative provided: a) Vacuum generator is deactivated, and b) Procedures are established and used to only allow use of the lavatory at or above 18000 feet MSL.
34-01 Floor Drain *** System		C	-	0				(M) May be inoperative provided: a) The Pilot-in-Command will determine if flight duration is acceptable with a FWD lavatory unusable, and b) Associated lavatory door(s) is secured closed and placarded, "INOPERATIVE - DO NOT ENTER".  NOTE: These provisions are not intended to prohibit inspections by crewmembers.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
44 CABIN SYSTEMS					
11-00	Passenger Address System (PA)	B	1	0	(O)May be inoperative provided: a) Alternate, normal and emergency procedures and/or operating restrictions are established and used, and b) Flight attendant alerting system (audio and visual) operates normally.  NOTE: Any station function(s) that operate normally may be used.
		C	1	0	(O)May be inoperative provided: a) PA not required by CFR, and b) Alternate, normal and emergency procedures and/or operating restrictions are established and used.  NOTE: Any station function(s) that operate normally may be used.
12-01	Passenger Cabin Speakers	C	-	-	(M) May be inoperative provided any seat from which a passenger cannot clearly hear a passenger address announcement is blocked and placarded "DO NOT OCCUPY".
		C	-	0	May be inoperative provided Passenger Address System is considered inoperative.
12-02	Lavatory Speakers (except ECJ model)	C	-	0	(O)May be inoperative provided alternate procedures are established and used.

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44 CABIN SYSTEMS								
13-00 Cabin Service Interphone System								
	1) Cabin to Cabin B Function		2	0				(O)May be inoperative provided alternate communication procedures between the affected flight attendant stations are established and used.
		B	-	-				(O)May be inoperative provided: a) Cabin to cabin interphone functions operate normally on at least fifty percent of the cabin handsets, and b) Alternate communication procedures between the affected flight attendant stations are established and used.
								NOTE: Any station function(s) that operate normally may be used.

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44 CABIN SYSTEMS				
13-01	Flight Attendant Handsets			
	1) All Models Except ECJ	B	-	-
				(O)May be inoperative provided: a) Fifty percent of cabin handsets operate normally, and b) Alternate communication procedures between the affected Flight Attendants station(s) are established and used.
				NOTE 1: An operative handset at an inoperative flight attendant seat shall not be counted to satisfy the fifty percent requirement.
				NOTE 2: Any handset function(s) that operate normally may be used.
	2) ERJ-190-100ECJ Model	B	-	-
				Any in excess of those required by CFR may be inoperative.

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44 CABIN SYSTEMS								
13-07	Flight Attendant Alerting System (except ECJ model)							
	1) Flight Attendant Call Lights (Rainbow Lights)	B	-	0	(O)	May be inoperative provided:		a) PA system operates normally, b) If affected light is used for lavatory smoke detector alerting, an alternate lavatory smoke alert (audio or visual) is installed and operates normally, and c) Alternate procedures for contacting flight attendants are established and used. NOTE 1: Passenger to attendant call system is considered Non-Essential Equipment and Furnishing (NEF). NOTE 2: Any visual alerting system function(s) that operates normally may be used.
	2) Flight Attendant Chime	B	-	0	(O)	May be inoperative provided:		a) PA system operates normally, b) If affected chime is used for lavatory smoke detector alerting, an alternate lavatory smoke alert (audio or visual) is installed and operates normally, and c) Alternate procedures for contacting flight attendants are established and used. NOTE 1: Passenger to attendant call system is considered Non-Essential Equipment and Furnishing (NEF). NOTE 2: Any audio alerting system function(s) that operates normally may be used.

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44 CABIN SYSTEMS								
20-01 ***	In-Flight Entertainment System (IFE) Maintenance Panels (except ECJ model)	D	2	0	(M)May be inoperative provided alternate procedures are established and used.			NOTE: Any portion of the system which operates normally may be used.
20-03 ***	IFE System Reset Switch on IFE Flight Attendant Control Panel (except ECJ model)	D	1	0	(M)May be inoperative provided alternate procedures are established and used.			
51-00 ***	Cabin Surveillance System (CSS)	A	1	0	(O)May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within three flight days.			
		C	1	0	(O)May be inoperative provided: a) A peephole is installed and operates normally, and b) Alternate procedures are established and used.			
		D	1	0	(M)May be inoperative provided: a) System is deactivated, and b) CSS is not required by local regulations.			
	1) Video Unit	D	1	0	May be inoperative provided it is not required by local regulations.			
	2) Video Cameras	D	3	0	May be inoperative provided it is not required by local regulations.			NOTE: Any portion of the system which operates normally may be used

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45 CENTRAL MAINTENANCE COMPUTER						
45-01 Central Maintenance Computer (CMC)		C	1	0		May be inoperative provided procedures do not require its use.
45-03 Data-Loader *** Management Unit (DMU)		C	1	0		(M)May be inoperative provided alternate procedures are established and used.
		D	1	0		May be inoperative provided procedures do not require its use.
45-04 Database (DB) Module		C	1	0		(M)May be inoperative provided alternate procedures are established and used.
		D	1	0		May be inoperative provided procedures do not require its use.
45-05 Local Area Network (LAN)		C	1	0		May be inoperative provided procedures do not require its use.
<p>NOTE: Loading, installing, or restoring a software application or database will not be available to the maintenance personnel.</p>						

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46 INFORMATION SYSTEMS

21-00 Electronic

\*\*\* Flight Bag Systems (EFBs)

\*\*\* 1) Class 3 EFBs C - -

(O)May be inoperative provided alternate procedures are established and used.

NOTE: Any function, program or document which operates normally may be used.

D - 0

May be inoperative provided procedures do not require its use.

\*\*\* 2) Data Connectivity (Class 2) C - -

(O)May be inoperative provided alternate procedures are established and used.

D - 0

May be inoperative provided procedures do not require its use.

\*\*\* 3) Power Connection (Class 1 & 2) C - -

(O)May be inoperative provided alternate procedures are established and used.

D - 0

May be inoperative provided procedures do not require its use.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
46 INFORMATION SYSTEMS					
21-00	Electronic Flight Bag Systems (EFBs) (Cont'd)	***			
4)	Mounting Device (Class 2)	***	C -	0	(M)(O)May be inoperative provided: a) Associated EFB and hardware is secured by an alternate means or removed from the aircraft, and b) Alternate procedures are established and used.
			D -	0	(M)(O)May be inoperative provided: a) Associated EFB and hardware is secured by an alternate means or removed from the aircraft, and b) Procedures do not require its use.
41-00	Prerecorded Passenger Announcement System	***	C -	0	(O)May be inoperative provided alternate procedures are established and used.
			D -	0	May be inoperative provided procedures do not require its use.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
49 AIRBORNE AUXILIARY POWER					
00-00 Auxiliary Power Unit (APU)	C	1	0		(M)(O)Except for ER operations, may be inoperative provided: a) APU is deactivated, and b) Procedures are not dependent on its use.
61-00 APU Master Knob	C	1	0		(O) Except for ER operations, knob detents may be inoperative provided the APU is used on-ground only.

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50 CARGO & ACCESSORY COMPARTMENTS						
22-01	Cargo/Baggage Door Nets	D	2	0		May be inoperative or missing provided associated cargo compartment remains empty.
		D	2	0		(O) May be inoperative provided adjacent Cargo Nets are installed and the associated section remains empty.
22-02	Cargo Nets	D	-	-		May be inoperative or missing provided associated cargo/baggage section remains empty.
***	(except ECJ model)	A	-	-		(O) May be inoperative or missing provided: a) Acceptable cargo loading limits from an approved source, i.e., an Approved Cargo Loading Manual, or Weight and Balance Document are observed, and b) Repairs are made prior to the completion of the next heavy maintenance visit.
31-00	Cargo Compartment Linings	C	-	0		May be damaged or missing provided associated cargo compartment remains empty.

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				NUMBER REQUIRED FOR DISPATCH		
				REMARKS OR EXCEPTIONS		
50 CARGO & ACCESSORY COMPARTMENTS						
32-06 Blow-Out Panels	C	-	0			(O)May be inoperative provided procedures are established and used to ensure the associated compartment remains empty, or is verified to contain only empty cargo handling equipment, ballast, (ballast may be loaded in ULDs), and/or Fly Away Kits.  NOTE: Operator MELs must define which items are approved for inclusion in the Fly Away Kits, and which materials can be used as ballast.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
52 DOORS					
00-31	Aft Baggage Door Emergency Opening System (ERJ-190-100ECJ)	C	1	0	
30-20	Forward and Aft Cargo Compartment Door Gas Spring Actuators	C	4	2	One Gas Spring Actuator per door may be inoperative provided opposite Actuator Bellcrank and Actuator Rod operates normally.
30-22	Forward and Aft Cargo Compartment Door Actuator Bellcranks	C	4	2	One Actuator Bellcrank per door may be damaged or missing provided opposite Gas Spring Actuator and Actuator Rod operates normally.
30-24	Forward and Aft Cargo Compartment Door Actuator Rods	C	4	2	One Actuator Rod per door may be damaged or missing.
31-20	Fwd (Aft) Cargo Door Green Indicators	C	8	0	(O)Green latch and lock indicators may be missing provided: a) Affected door and its handle are verified completely flush with fuselage skin prior to each flight, and b) FWD (AFT) CARGO DOOR OPEN EICAS message is operative.
		C	4	0	(O)Green latch indicators may be missing provided: a) Affected door and its handle are verified completely flush with fuselage skin prior to each flight, and b) Associated lock (inner markings) indicators are present and checked green before each flight.

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52 DOORS						
31-28	Forward and Aft Cargo Door Closing Rods	C	2	0		(M)May be inoperative or missing provided alternate procedures are established and used.
		D	2	1		(M) May be inoperative or missing provided alternate procedures are established and used.
51-00	Cockpit Security Door Automatic Locking System	A	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 two flight days.
	1) Cockpit Door Control System					
	a) LOCK Pushbutton	A	1	0		May be inoperative provided: a) Cockpit Security Door Automatic Locking System is considered inoperative, and b) Repairs are made within two flight days.
	b) LOCK Pushbutton Light	B	1	0		
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		NUMBER INSTALLED		NUMBER REQUIRED FOR DISPATCH	
				REMARKS OR EXCEPTIONS	
52 DOORS					
51-00	Cockpit Security Door Automatic Locking System (Cont'd)				
	1) Cockpit Door Control System (Cont'd)				
	c) INHIB Pushbutton	A	1	0	May be inoperative provided: a) Cockpit Security Door Automatic Locking System is considered inoperative, and b) Repairs are made within two flight days.
	d) INHIB Pushbutton Light	B	1	0	
	e) UNLOCKED Annunciator ON Light	B	1	0	
	2) Flight Attendant Cockpit Door Control Panel				(O)May be inoperative provided: a) Door Chime operates normally, and b) Alternate procedures are established and used.
	a) Emergency Call Pushbutton	B	1	0	(O)May be inoperative provided alternate procedures are established and used
	b) Emergency Call Pushbutton Light	B	1	0	(O)May be inoperative provided alternate procedures are established and used
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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
52 DOORS					
51-00	Cockpit Security Door Automatic Locking System (Cont'd)				
	2) Flight Attendant Cockpit Door Control Panel (Cont'd)				
	c) Door Opening Sequence Inhibited Red Light	B	1	0	(O)May be inoperative provided alternate procedures are established and used
	d) Door Unlocked Green Light	B	1	0	(O)May be inoperative provided alternate procedures are established and used
	3) Maintenance Lock	D	1	0	
51-01	Cockpit Door Peephole	A	1	0	(O)May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within 3 flight days.
		C	1	0	(O)May be inoperative provided: a) Cabin Surveillance System (CCS) is installed and operates normally, and b) Alternate procedures are established and used.
60-00	Airstair ***	D	1	0	May be inoperative provided it is correctly stowed and locked for flight. NOTE: Any mode that operates normally may be used.

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52 DOORS								
70-00	Door Position Indications on MFD and Associated EICAS Messages	C	-	0				(M)(O)May be inoperative provided affected door is verified closed, latched and locked before each flight.
70-01	Passenger and Service Doors Indicators							
1)	Door Latch Visual Indicators	C	4	3				(M)May be inoperative provided: a) Affected door is verified closed, latched and locked before each flight, b) Latch mechanism is verified to operate normally, and c) Both door locked visual indicators on the affected door operate normally.  NOTE: The DOOR PAX (SERV) FWD (AFT) OPEN Warning EICAS message may be displayed.
2)	Door Locked Visual Indicators	C	8	4				(M)One on each door may be inoperative provided: a) Affected door is verified closed, latched and locked before each flight, b) Door latch visual indicator on the affected door operates normally, and c) Latch mechanism is verified to operate normally.  NOTE: The DOOR PAX (SERV) FWD (AFT) OPEN Warning EICAS message may be displayed.
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52 DOORS					
70-01	Passenger and Service Doors Indicators (Cont'd)				
3)	Escape Slide ARMED/DISARMED Indicators	C 4	4	3	(M)(O)May be inoperative provided: a) Indicator is covered to obscure ARMED/DISARMED sign, b) Girt bar indication is verified to operate normally, and c) Alternate procedures are established and used to indicate the Escape Slide status to the crew.
4)	Girt Bar Escape Slide Indicators	C 4	4	3	(M)May be inoperative provided: a) Escape Slide ARMED/DISARMED indication is verified to operate normally, and b) Girt bar is verified to operate normally.
70-02	Internal door Warning System (ERJ-190-100ECJ)	C 1	1	0	(M)(O)May be inoperative: a) Alternate procedures are established and used, and b) Internal doors are secured in the appropriate position for taxi, takeoff and landing.

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73 ENGINE FUEL & CONTROL								
21-01 Engine Full Authority Digital Electronic Control (FADEC) System								
1) System Faults	A	-	-	-	-	-		May be dispatched with system faults provided repairs are made in accordance with times established by the engine manufacturer in the airworthiness section of the Engine Manual, GEK 112031 (ERJ-170-100/200) or GEK 112081 (ERJ-190-100/200). No Extensions are authorized.
21-15 ENG 1(2) FUEL IMP BYPASS Caution EICAS Messages	C	2	2	1	1	1		(M)One may be inoperative provided associated fuel filter is changed once each flight day.
21-17 T2 Sensor Heaters (ERJ-170-100/200)	B	2	2	1	1	1		One may be inoperative provided: a) One Ice Detection System is operative, and b) Airplane is not operated in known or forecast icing conditions.
31-01 Fuel Low Pressure Switches	C	2	2	0	0	0		(O)May be inoperative provided associated Fuel AC Pump remains selected ON during the entire flight except when fuel crossfeed is required.
31-07 ENG 1(2) FUEL LO PRESS Caution EICAS Messages	C	2	2	0	0	0		(O)May be inoperative provided associated Fuel AC Pump remains selected ON during the entire flight except when fuel crossfeed is required.

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74 IGNITION  00-00 Ignition Channels				Deleted, Rev. 4. (Included in item 73-21-01)

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77 ENGINE INDICATING					
31-00 HP Vibration Indications on EICAS	C	2	1		

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		NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH		
		REMARKS OR EXCEPTIONS			
78	ENGINE EXHAUST				
30-00	Thrust Reverser Systems	C	2	1	(M)(O)One may be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.
34-04	ENG 1(2) REV DEPLOYED Warning EICAS Message	C	2	1	(M)(O)One may be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.
34-06	ENG 1(2) REV PROT FAULT Caution EICAS Message	C	2	1	(M)(O)One may be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.
34-08	ENG 1(2) REV FAIL Caution EICAS Message	C	2	1	(M)(O)One may be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.
34-10	ENG 1(2) REV TLA FAIL Caution EICAS Message	C	2	1	(M)(O)One may be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.

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78 ENGINE EXHAUST					
34-12 ENG 1(2) REV INHIBIT Status EICAS Message	C	2	1		(M)(O)One may be inoperative provided: a) Affected thrust reverser is locked in the forward thrust position, and b) Appropriate performance penalties are applied.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
79	OIL				
31-00	Oil Quantity Indications on MFD	C	4	2	(M)(O)Except for ER operations, indications from one engine may be inoperative for provided: a) Oil quantity is serviced before each flight, and b) Oil Pressure Indication is available and is monitored throughout the flight.
31-03	Oil Tank Oil Level Indicators (ERJ-170-100/200)	C	2	0	(M)May be inoperative provided alternate procedures are established and used to verify oil level when servicing is performed.
31-07	ENG 1(2) OIL LO LEVEL Caution EICAS Message	C	2	1	(M)(O)One may be inoperative provided: a) Oil quantity is serviced before each flight, and b) Oil Pressure Indication is available and is monitored throughout the flight.
33-01	Low Oil Pressure Switch				
	(Applicable to Pre-Mod. SB 170-31-0028 and Pre-Mod. SB 190-31-0015)	C	2	1	(O)One may be inoperative provided: a) Oil Pressure Indication is available and is monitored throughout the flight, and b) ENG 1(2) OIL LO PRESS warning EICAS message on the opposite engine operates normally.
	(Applicable to Post-Mod. SB 170-31-0028 and Post-Mod. SB 190-31-0015)	C	2	0	(O)May be inoperative provided oil pressure indication is available.

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			NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH	REMARKS OR EXCEPTIONS
79	OIL				
33-09	ENG 1(2) OIL LO PRESS Warning EICAS Message (Applicable to Pre-Mod. SB 170-31-0028 and Pre-Mod. SB 190-31-0015).	C	2	1	(O)One may be inoperative provided Oil Pressure Indication is available and is monitored throughout the flight.
34-07	ENG 1(2) OIL IMP BYPASS Advisory EICAS Message	C	2	1	(M)One may be inoperative provided: a) ENG 1(2) CHIP DETECTED Maintenance Message is confirmed not present on MFD Engine Maintenance Page before each flight, and b) Oil filter is inspected for presence of contaminants once each flight day.

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		NUMBER INSTALLED	NUMBER REQUIRED FOR DISPATCH		
		REMARKS OR EXCEPTIONS			
80	STARTING				
10-01	Starter Control Valve (SCV)	C	2	1	(M)(O)One may be inoperative provided manual override starting procedures are used.  NOTE: See AFM for windmilling start on associated engine.
10-05	Engine Start/Stop Switch Cover	C	2	0	