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Issue: 17



Date: Dec. 17th 2018

# TYPE-CERTIFICATE DATA SHEET

No. EASA.IM.A.120

for BOEING 737

Type Certificate Holder:
The Boeing Company

1901 Oakesdale Ave SW Renton, WA 98057-2623 USA

For Models:	"Classic":	"Next Generation":	"Max":
	737-100	737-600	737-8
	737-200	737-700	737-9
	737-200C	737-800	

737-300 (737-800BCF) 737-400 737-900 737-500 737-900ER TCDS No.: IM.A.120 Boeing 737 Page 2 of 104

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# SECTION 1: 737-100, -200, -200C, -300, -400, -500 VARIANTS

### <u>l.General</u>

1. Type / Model / Variant: Boeing 737-100, -200, -200C, -300, -400, -500

2. Performance Class: A

3. Certifying Authority: Federal Aviation Administration (FAA)

BASOO Branch 2200 S 216th St

Des Moines, WA 98198 United States of America

4. Manufacturer: The Boeing Company

P.O. Box 3707

Seattle, WA 98124-2207 United States of America

5. EASA Validation Application Date The 737-100, -200, -200C, -300, -400 and -500 series

were not subject to a validation by JAA prior to EASA,

therefore they are accepted by EASA under the

provisions of EU Regulation 1702/2003.

6. FAA Type Certification Date: December 15, 1967 (737-100)

(First Type Certificate issuance)
December 21, 1967 (737-200)
October 29, 1968 (737-200C)
November 14, 1984 (737-300)
September 02, 1988 (737-400)
February 12, 1990 (737-500)

7. EASA Type Validation Date January 23, 1968 (737-130)

(First TC issued within EU MS by LBA Germany)

July 12, 1968 (737-204)

(First TC issued within EU MS by UKCAA)

September 9, 1969 (737-248C)

(First TC issued within EU MS by IAA Ireland)

January 29, 1985 (737-3T5)

(First TC issued within EU MS by UKCAA)

September 14, 1988 (737-4Y0)

(First TC issued within EU MS by UKCAA)

March 7, 1990 (737-505)

(First TC issued within EU MS by CAA Norway)

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SECTION 1: 737-100, -200, -200C, -300, -400, -500 VARIANTS - continued

# **II.**Certification Basis

1. FAA Type Certificate Data Sheet: No. A16WE

2. FAA Certification Basis: Refer to FAA Type Certificate Data Sheet (TCDS)

No. A16WE

3. JAA/EASA Airworthiness Requirements: In accordance with Regulation (EC) 1702/2003

FAR Part 25 as defined in FAA TCDS A16WE

4. Special Conditions: for adopted special conditions refer to FAA TCDS

A16WE, as supplemented by the following:

CRI PTC/E-10 Flammability Reduction System

INT/POL/25/12: Affected requirement FAR 25.981 (c),

JAR 25.1309, NPA 10-2004, JAR 21.16(a)(1)

(not applicable to the 737-100)

CRI E-15 PTC Fuel Tank Safety – Including Lightning Protection for

Structure

INT/POL/25/12: Affected requirement CS 25.981 Amdt 1,

CS 25.981(a)(3), CS 25.954

(applicable of the 737-300/-400/-500 only)

CRI E-16/PTC Fuel Tank Safety

INT/POL/25/12: Affected requirement CS 25.981 Amdt 1

(not applicable to 737-600)

CRI F-GEN10 PTC Non-rechargeable Lithium Batteries Installations

CS 25.601, 25.863, 25.869, 25.1301, 25.1309, 25.1353(c),

25.1529, 25.1360 (b)

CRI H-01 "Instructions for Continued Airworthiness (ICA) on Electrical

Wiring Interconnecting Systems (EWIS)"

Affected requirement Part 21A.16(b)(3), 21A.21(c)(3),

CS 25.1529 & Appendix H

5. Adopted FAA Exemptions: Refer to FAA TCDS A16WE

6. Adopted FAA Equivalent Safety Findings: Refer to FAA TCDS A16WE supplemented by the

following:

CRI F-GEN9-1 Minimum Mass Flow of Supplemental Oxygen "Component

Qualification"

Equivalent Safety with JAR 25.1443(c) (not applicable to the 737-100/-200C)

CRI F-GEN9-3 Crew Determination of Quantity of Oxygen in Passenger

Oxygen System

Equivalent Safety with JAR 25.1441(c) (not applicable to the 737-100/-200/-200C)

CRI G-GEN1 Instructions for Continued Airworthiness

Equivalent Safety with CS 25.1529

7. Environmental Protection Standards: Noise: ICAO Annex 16, Volume I

Special Federal Aviation Regulation 27 See also TCDSN EASA.IM.A.120 TCDS No.: IM.A.120 Boeing 737 Page 7 of 104

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SECTION 1: 737-100, -200, -200C, -300, -400, -500 VARIANTS - continued

# **III. Technical Characteristics and Operational Limitations**

Type Design Definition: Boeing Top Collector Drawing No. 65-73701

2. Description: Low wing jet transport with a conventional tail unit

configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings

3. Equipment: The basic required equipment as prescribed in the

applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

### 4. Dimensions:

Series	-100	-200/200C	-300	-400	-500
Length	28.65 m	30.48 m	33.4 m	36.45 m	31.01 m
Wingspan	28.35 m	28.35 m		28.88 m	
Height	11.28 m	11.28 m		11.13 m	

5. Engines

737-100, 200, and 200C: 2 Pratt and Whitney Turbofan Engines JT8D-7, JT8D-7A,

JT8D-7B, T8D-9, JT8D-9A, JT8D-15, JT8D-15A, JT8D-

17, and JT8D-17A

737-300, -400, -500: 2 CFM-56-3-B1, CFM-56-3B-2 or CFM-56-3C-1 Turbofan

Engines.

Refer to the Approved Airplane Flight Manual for aircraft engine and engine intermix eligibility.

For limitations see FAA TCDS no E3NE (Pratt and Whitney engines) or E2GL/E21EU (CFM engines) or approved Airplane Flight Manual.

6. Auxiliary Power Unit: Honeywell GTCP 85-129

Honeywell GTCP 36-280

Hamilton Sundstrand APS 2000

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives, See FAA TCDS A16WE and approved

Hydraulics) Airplane Flight Manual

9. Fluid Capacities: See appropriate Weight and Balance Manual,

Boeing Document D6-15066

10. Airspeed Limits: See approved Airplane Flight Manual

11. Maximum Operating Altitude: See approved Airplane Flight Manual

12. All Weather Capability: See approved Airplane Flight Manual

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SECTION 1: 737-100, -200, -200C, -300, -400, -500 VARIANTS - continued

13. Maximum Certified Masses: See approved Airplane Flight Manual for actual approved weights of individual airplanes

	-100/	/20(	-30	00	-4(	00	-50	00
	lbs	Kg	lbs	Kg	lbs	Kg	lbs	Kg
MTW	128600	58331	140000	63502	150500	68265	136500	61915
MTOW	128100	58105	139500	63276	150000	68038	136000	61688
MLW	107000	48534	116600	52888	124000	56245	110000	49895
MZFW	99000	44905	109600	49713	117000	53070	103000	46720

(Specified weights are Increased Design Weights approved post-initial Type Validation)

14. Centre of Gravity Range: See approved Airplane Flight Manual

15. Datum: See appropriate Weights and Balance Manual

The airplane reference origin of coordinates is a point located 540 inches forward of the center section wing front spar centerline, at buttock line zero, (i.e., aircraft fore/aft centerline as viewed in plane view) and at water line zero. (737-100 Series) All production body stations coincide numerically with moment arms. Horizontal distance of datum to nose gear jack point is 286 inches for the 737-100 Series, 250 inches for the 737-200 Series, and 207.7 inches for the 737-300 Series, 135.7 inches for the 737-400 Series, 261.7 inches for the 737-500 Series.

16. Mean Aerodynamic Chord: See appropriate Weights and Balance Manual

(MAC) Boeing Document No. D6-15066

17. Levelling Means: See approved Airplane Flight Manual

18. Minimum Flight Crew: Two (2): Pilot and Co-pilot, for all types of flight

19. Minimum Cabin Crew

The tables below provide the certified Maximum Passenger Seating Capacities (MPS), the corresponding cabin configuration (exit arrangement and modifications) and the associated numbers of cabin crew members used to demonstrate compliance with the evacuation certification requirements of CS 25.803. Additional cabin crew members may be required to comply with other regulatory requirements (e.g., cabin attendant direct view).

### B737-300

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 101 to 149 passengers: (I, III, I) exit arrangement	3
100 or fewer passengers: (I, III, I) exit arrangement	2

### B737-400

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 151 to 188 passengers: (I, III, III, I) exit arrangement	4
From 101 to 150 passengers: (I, III, III, I) exit arrangement	3
100 or fewer passengers: (I, III, III, I) exit arrangement	2

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SECTION 1: 737-100, -200, -200C, -300, -400, -500 VARIANTS - continued

# B737-500

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 101 to 140 passengers: (I, III, I) exit arrangement	3
100 or fewer passengers: (I, III, I) exit arrangement	2

20. Maximum Seating Capacity: For maximum number of passengers see item 20. Exits

Note: The maximum number of passengers approved for emergency evacuation is dependent on door configuration, see 20) below. See interior layout drawing for the maximum passenger capacities approved for each aeroplane delivered.

21. Exits:

	Type (LH and RH)	Maximum Passenger
-100	1-111-1	113 (124) *
-200	1-111-1	119 (136) *
-300	1-111-1	149
-400	-   -   -	188
-500	1-111-1	140

<sup>\*</sup> See FAA TCDS A16WE for details

22. Baggage/Cargo Compartment: See appropriate Weights and Balance Manual Boeing Document No. D6-15066

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SECTION 1: 737-100, -200, -200C, -300, -400, -500 VARIANTS - continued

23. Wheels and Tyres:

Nose Assy (Qty 2) Main Assy (Qty 4)

Speed Rating: See approved Airplane Flight Manual Refer to Boeing Wheel/Tire/Brake Interchangeability

Drawing for further details.

# IV. Operating and Service Instructions

1. Flight Manual: Since validation of the Boeing 737-100/-200/-200C/-300/-

400/-500 model was conducted by individual NAAs and not under JAA process, there is no generic JAA AFM format. It is the responsibility of the State of Registry to establish that the AFM for an individual aircraft contains appropriate and

relevant data and limitations.

2. Mandatory Maintenance

Instructions:

See FAA TCDS A16WE

Life Limited Parts and required inspection intervals are listed in the EASA approved Airworthiness Limitations Section (Section 9) of the Boeing Maintenance Planning

Data Document D6-38278.

3. Service Letters and Service

**Bulletins:** 

As Published by Boeing and approved by the FAA

4. Required Equipment:

# V.Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

1. Master Minimum Equipment List

No MMEL available (Not required per Commission Regulation (EU) No 69/2014 of 27 January 2014)

2. Flight Crew Data

No FCD available (Not required per Commission Regulation (EU) No 69/2014 of 27 January 2014)

3. Cabin Crew Data

No CCD available (Not required per Commission Regulation (EU) No 69/2014 of 27 January 2014)

# VI.Notes

- 1. Cabin Interior and Seating Configuration must be approved.
- 2. Additional information is provided in FAA Type Certificate Data Sheet A16WE.

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# SECTION 2: PERTINENT TO ALL NEXT GENERATION SERIES (NG: 737-600, -700, -800, -900, -900ER)

# **I.General**

1. Type / Model / Variant: Boeing 737-600, -700, -800, -900, -900ER

"Next Generation", NG – Series

2. Performance Class: Α

3. Certifying Authority:

Federal Aviation Administration (FAA) BASOO Branch

2200 S 216th St

Des Moines, WA 98198 United States of America

4. Manufacturer: The Boeing Company

P.O. Box 3707

Seattle, WA 98124-2207 United States of America

5. FAA Certification Application Date: See individual data (Section 3 to 7)

6. EASA Validation Application Date See individual data (Section 3 to 7)

7. FAA Type Certification Date: See individual data (Section 3 to 7)

8. EASA Type Validation Date See individual data (Section 3 to 7)

# **II.Certification Basis**

See individual data (Sections 3 to 7).

# **III. Technical Characteristics and Operational Limitations**

1. Production Basis: Manufactured under Production Certificate 700

2. Type Design Definition: See individual data (Section 3 to 7)

3. Description: Low wing jet transport with a conventional tail unit

> configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.

Dimensions:

Series	-700 -800 -600 -90			-900	-900ER	
Length	32.18 m	39.5 m	31.2 m	42.1 m	42.1 m	
	(105 ft 7 in)   (129 ft 6 in)   (102 ft 6 in)   (138 ft 2 in)   (138 ft 2 in)				(138 ft 2 in)	
Wingspan	34.32 m (112 ft 7 in)					
Span with Winglets	35.79 m (117 ft 5 in)					
Height	12.57 m (41 ft 3 in)					

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SECTION 2: PERTINENT TO ALL NEXT GENERATION SERIES (NG: 737-600, -700, -800, -900, -900ER) – continued

5. Engines: 2 CFM 56-7B or -7B/2 or -7B/3 or -7BE Series Turbofan

Engines. Refer to the Approved Airplane Flight Manual for engine limitations. The CFM56-7B/2 series have double annular combustors and provide the same thrust as the CFM56-7B series engines at the respective engine ratings and are approved for all models except the CFM56-7B-

18/2 engine rating.

The CFM56-7B/3 series are the so-called "Tech Insertion" engines, they have single annular combustors and provide the same thrust as the CFM56-7B series at the respective engine ratings.

The CFM56-7BE series have single annular combustors and provide the same thrust as the CFM56-7B series at the respective engine ratings.

Engine ratings and all approved models are referred to in: EASA TCDS E.004 "CFM International CFM56-7B

Engines"

6. Auxiliary Power Unit: Auxiliary Power Unit (APU): Allied Signal AS 131-9 [B]

Limitations: Refer to the APU TCDS / TSO

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives, Eligible Fuels:

Hydraulics): AS

ASTM Specification D-1655 Jet A, JAR A1

MIL-T-5624G; JP-5 MIL-T-83133; JP-8

Refer to Airplane Flight Manual for other approved fuels.

Eligible Oils: See CFM 56-7B ServiceBulletin 79-001 as

revised.

9. Fluid Capacities: Fuel Capacity:

26024 litres (6875 US Gallons), consisting of two wing tanks, each of 4875 litres (1288 US Gallons) capacity, and one centre tank, capacity 16274 litres (4299 US

Gallons).

Oil Capacity: 10.3 litres useable

10. Air Speeds: See Airplane Flight Manual

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude

12. All Weather Capability: Cat 3

13. Maximum Certified Masses: See individual data (Section 3 to 7)

14. Centre of Gravity Range: See Airplane Flight Manual

15. Datum: See Weights and Balance Manual

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SECTION 2: PERTINENT TO ALL NEXT GENERATION SERIES

(NG: 737-600, -700, -800, -900, -900ER) – continued

16. Mean Aerodynamic Chord: 3.9

(MAC)

3.96m (155.81 in)

17. Levelling Means: See approved Airplane Flight Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

19. Maximum Seating Capacity: See individual data (Section 3 to 7)

20. Exits: See individual data (Section 3 to 7)

21. Baggage/Cargo Compartment: See individual data (Section 3 to 7)

22. Wheels and Tyres: Speed Rating: 225 MPH, (-900ER: 235 MPH)

Nose Assy (Qty 2) Tyre: 27 x 7.75 - 15 or 27 x 7.75 - R15

Wheel: 27 x 7.75 – 15

Main Assy (Qty 4) Tyre: H43.5 x 16.0 - 21 or

H44.5 x 16.5 – 21

Wheel: HR44.5 x 16.5 – 21

Refer to Boeing Wheel/Tire/Brake Interchangeability

Drawing for further details

23. ETOPS: 737-600 / -700 / -800 / -900 / -900ER

The type design reliability and performance of this

airplane has been evaluated in accordance with AMC 20-6 and found suitable for extended range operations when

configured in accordance with Boeing Document D044A007 "737-600/-700/-800/-900/-900ER ETOPS Configuration, Maintenance and Procedures". This finding does not constitute approval to conduct extended range operations. ETOPS approval for the -600, -700, -800, -900, and -900ER is determined by NAA operating

policies

# IV.Operating and Servicing Instructions

1. Flight Manual: Since validation of the 737-700 model was conducted

under JAA process, there is a generic JAA/EASA AFM

format.

2. Mandatory Maintenance

Instructions:

CMRs

Model 737 MRB Report

Life Limited Parts and required inspection intervals are listed in the EASA approved Airworthiness Limitations Section (Section 9) of the Boeing Maintenance Planning

Data Document D626A001.

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SECTION 2: PERTINENT TO ALL NEXT GENERATION SERIES (NG: 737-600, -700, -800, -900, -900ER) – continued

3. Service Letters and As published by Boeing and approved by FAA. Service Bulletins:

4. Required Equipment: All equipment as prescribed in Section II (Certification

Basis) above must be installed in the aircraft.

# V.Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

1. Master Minimum Equipment List

- a. Master Minimum Equipment List (MMEL):
   The applicable certification specifications for the Boeing B737-600/-700/-800/-900/-900ER MMEL, reference D6-32545-ESEM, consist of JAR-MMEL/MEL Amendment 1, Section 1, Subpart A &B as recorded in CRI A-MMEL.
- b. Required for entry into service by EU operator.
- 2. Flight Crew Data
  - a. The Flight Crew data, With regard to the transition of the OEB recommendations to OSD FC documents for the Boeing B737-600/-700/-800/-900/-900ER, reference D926A105, the data are agreed on the basis of elect to comply with CS-FCD, Initial Issue, dated 31 Jan 2014.
  - b. Required for entry into service by EU operator.
  - c. Pilot Type Rating: "B737-300-900".

Note: These data cover the models B737-300/400/500/600/700/800/900/900ER. Differences are addressed in D926A105

- 3. Cabin Crew Data
  - a. The Cabin Crew Data has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-CCD, and as demonstrated by the "Boeing Document D611A099 Operational Suitability Data Cabin Crew Data Boeing 737NG" certification basis for the establishment of Operational Suitability Data (OSD) Cabin Crew for B737-600/-700/-800/-900/ER is CS-CCD, Initial Issue dated 31 January 2014.
  - b. Required for entry into service by EU operator.
  - c. The "Next Generation" B737-600; B737-700; B737-800; 737-900 aircraft models are determined to be variants to the aircraft model B737-900ER (with Mid Exit Door (MED) activated).

### VI. Notes:

- 1. Cabin Interior and Seating Configuration must be approved.
- 2. Additional information is provided in FAA Type Certificate Data Sheet A16WE.

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# SECTION 3: 737-700 Series

### I.General

1. Type / Model / Variant: Boeing 737-700

2. FAA Certification Application Date: February 04, 1993

3. JAA Validation Application Date: August 04, 1993

(Reference date for JAA validation)

4. FAA Type Certification Date: November 07, 1997

EASA/JAA Type Validation Date: February 18, 1998

# **II.Certification Basis**

1. FAA Type Certificate Data Sheet: No. A16WE

2. FAA Certification Basis: FAR Part 25 Amendment 25-77 except where

modified by the FAA Issue Paper G-1

3. JAR 25 Change 13, effective 5 October 1989 JAA/EASA Airworthiness Requirements:

Orange Paper 90/1, effective 11 May 1990 Orange Paper 91/1, effective 12 April 1991 JAR AWO Chg. 1, effective 29 November 1985 Orange Paper AWO/91/1, effective 28 November

1991 (Note also see AWO Change 2)

JAA IL-23 RVSM, effective April 1994 - (Boeing letter B-T111-96-1357 dated Dec 12, 1996)

The following NPAs have been applied:

			Accelerate Stop
		0= 400	Distances and Related
NPA 25,B,D,G-244	CRI A.11-17	25.109	Performances
			Discrete source
			damage due to rotor
NPA 25C-213	CRI C-17	25.571(e); 25.903	burst
		25.103; 25.107;	Stall and Stall Warning
		25.119; 25.125;	Speeds and
NPA 25B215	CRI B-02	25.143; 25.207	Manoeuvre Capability
		25.101-25.123;	Reduced Thrust
		25.149; 25.1582-	
NPA 25B-217	CRI B-04	25.1591	
NPA AWO 2			All Weather Operations
NPA AWO 5			All Weather Operations
			Flutter, Deformation
NPA 25.B,C,D-236	CRI C-05	25.629	and Fail Safe Criteria
NPA 25J-246	CRI J-03	25B1305	APU Instruments
			Design Dive Speed
			(JAR 25.335(b)(2) plus
NPA 25C260	CRI C-06	25.335(b)(2) with ACJ	ACJ at Ch.14)

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SECTION 3: 737-700 SERIES - continued

			Nose Wheel Steering
NPA 25C260		25.499(e)	(JAR 25.499(e))
			Harmonisation of
		Flight requirements+	JAR/FAR 25 Flight
NPA 25B261	B-08; B-11; B-13; B-15	201(d)	Requirements

In addition, the following requirements have been applied:

JAR AWO Change 2: All Weather Operations

Special Condition JAA/737-700/SC/C-07 (JAR 25.427(b)(3) FAA/JAA Harmonised version) in place of JAR 25.427(b)(3)

Static Ground Load Conditions (Jacking): JAR 25.519(b) in accordance with JAR 25 Amendment 25/96/1

Stalling Speeds for Structural Design (defined in CRI C-12)

Type III Emergency Exit Operating Handle Illumination JAR 25.811(e) at JAR 25 Chg. 14

### 3.1. Reversions:

The following reversions from the defined certification basis have been applied:

CRI A. 11-02	Pressurised Cabin Loads
JAR 25.365	Reversion to FAR 25.365 Amendment 0
CRI A. 11-04	Emergency Landing Dynamic Loads
JAR 25.562	Reversion to JAR 25 Change 12 which excludes para .562
CRI A. 11-05	Fatigue and Damage Tolerance
JAR 25.571	Partial Reversion to FAR 25.571 Amendment 0
CRI A. 11-06	Fasteners
JAR 25.607(a)	Reversion to FAR 25.607(a) Amendment 0
CRI A. 11-08	Lift and Drag Device Indicator
JAR 25.699(a)	Reversion to FAR 25.699 Amendment 0
CRI A. 11-11	Doors
JAR 25.783(f)	Reversion to FAR 25.783 Amendment 15
CRI A. 11-12	Seat, Berths, Safety Belts and Harness
JAR 25.785(a)	Reversion to JAR 25.785(a) Change 12
CRI A.11-13	Direct View and Cabin Attendant Seat
JAR 25.785h(1) & (2)	Reversion to FAR 25.785 Amendment 32
CRI A. 11-16	Equipment Systems and Installations
JAR 25.1309	Reversion to FAR 25.1309 Amendment 0
CRI A.11-23	Windshields and Windows
JAR 25.775(d)	Reversion to FAR 25.775(d) Amendment 0
CRI J-04	APU Fuel Shut Off Valve Indication
JAR 25A1141(f)(2)	Reversion to FAR 25.1141 Amendment 11

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SECTION 3: 737-700 SERIES - continued

### 4. Special Conditions:

The following JAA Special Conditions have been applied defined in their respective CRI:

Stall Warning Thrust Bias **CRI B-10** 

JAA/737-700/SC/B-10 Affected JAR 25.207(c) as amended by NPA 25B-215

CRI C-01 **Pressurised Cabin Loads** 

JAA/737-700/SC/C-01 INT/POL/25/7 Affected requirement JAR 25.365

**CRI C-11** Interaction of Systems and Structure Affected requirement JAR 25.302 JAA/737-700/SC/C-11

Brakes Requirements Qualification and Testing CRI D-01 INT/POL/25/6: Affected requirement JAR 25.735 JAA/737-700/SC/D-01

CRI D-04 Landing Gear Warning

JAA/737-700/SC/D-04 INT/POL/25/1: Affected requirement JAR 25.729(e)(2) to (4)

CRI D-14 Exit Configuration

Affected requirement JAR 25.807, JAR 25.562, JAR 25.813 JAA/737-700/SC/D-14

CRI D-GEN01 PTC Fire Resistance of Thermal Insulation Material

Affected requirement CS25.856 & Appendix F

CRI D-GEN02 PTC Application of Heat Release and Smoke Density

> Requirements to Seat Materials Affected Requirement CS 25.853(d) Appendix F Part IV & V Part 21 §21A.16B

CRI E-10 Installation of Seat Inflatable Restraint Systems

CRI PTC/E-10 Flammibility Reduction Systems (FRS)

INT/POL/25/12: Affected requirement FAR 25.981 (c),

JAR 25.1309, NPA 10-2004, JAR 21.16(a)(1)

Affected requirement JAR 25.1301

CRI E-16/PTC Fuel Tank Safety

Affected requirement CS 25.981 Amdt 1

CRI F-01 High Intensity Radiated Field (HIRF)

INT/POL/25/2: Affected requirement JAR 25.1431(a) JAA/737-700/SC/F-01

CRI F-02

JAA/737-700/SC/F-03

Protection from Effects of Lightning Strike; Direct Effects INT/POL/25/3: Affected requirement JAR 25X899 and JAA/737-700/SC/F-02

ACJ 25X899

**CRI F-03** Protection from Effects of Lightning Strike; Indirect Effects

INT/POL/25/4: Affected requirement JAR 25.581, 25.899

25.954, 25.1309

CRI PTC/F-17 EGPWS Airworthiness Approval

Affected requirement JAR 25.1301, JAR 25.1309(b)(c)(d),

JAR 25.1431(a)(c), JAR 25.1459

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SECTION 3: 737-700 SERIES - continued

CRI PTC/F-18 Multi-Sensor Navigation Systems for specified operational

use

Affected requirement JAR 25.1301, .1303, .1309, .1321,

.1322, .1331, .1431, .1457, .1541, .X1524, .1583

CRI PTC F-23 CIAP/IRNAV and NPS Human Factors Evaluation

Affected requirement INT/POL 25/14, JAR 25.771(a) and (e),

25.777(a), 25.1301, 25.1303, 25.1309, 25.1523

CRI PTC/F-27 GNSS Landing System (GLS) – Airworthiness Approval for

Category I Approach Operations

Affected requirement 25.1301, 25.1309, 25.1322, 25.1329, 25.1335, 25.1431, 25.1459, 25.1581, JAR-AWO, JAR-AWO

NPA AWO-9

CRI F-29 Lithium Ion Batteries

Affected requirement JAR 25.601, 25.863, 25.1309,

25.1353(c) and 25.1529

CRI F-30 Data Link Services for the Single European Sky

EUROCAE ED-120, ED-78A, ED-110B, ED-92A (Radio VDL/M2); Affected Requirements: JAR/FAR 25.1301, 25.1307, 25.1309, 25.1321, 25.1322, 25.1431, 25.1459, 25.1581, 25.1585, Commission Regulation (EC) No 29/2009

CRI F-31(PTC) Security Protection of Aircraft Systems and Networks

Affected requirement JAR 25.1309

CRI F-GEN10 PTC Non-rechargeable Lithium Batteries Installations

CS 25.601, 25.863, 25.869, 25.1301, 25.1309, 25.1353(c),

25.1529, 25.1360 (b)

CRI G-01 ETOPS Approval (180 minutes)

Affected Requirements JAA Information Leaflet No. 20

CRI H-01 "Instructions for Continued Airworthiness (ICA) on Electrical

Wiring Interconnecting Systems (EWIS)"

Affected requirement Part 21A.16(b)(3), 21A.21(c)(3),

CS 25.1529 & Appendix H

### 5. Exemptions/Deviations:

The following Partial JAA Exemption has been applied:

CRI D-02 Hydraulic System Proof Pressure Testing
JAA/737-700/PE/D-02 Partial Exemption Against JAR 25 1435(b)(1)

The following EASA Deviation has been applied:

CRI PTC D-22 Tech Insertion engines and New Thrust Reverser Cascades

Intermix for 737-600/-700/-800/-900 LN No. 1 Thru 2230 Deviation Against 25.305, 25.307(a), 25.601, 25.603(c),

26.613(a)(b), 25.1103(d) at Ch 13

CRI D-29 CFM 56-7B Technology Insertion Engines and new

Thrust Reverser Cascades

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SECTION 3: 737-700 SERIES - continued

6. Equivalent Safety Findings:

The following JAA Equivalent Safety Findings have been applied:

CRI PTC C-14 Landing Gear Safe Lives – Fatigue Scatter Factors

Equivalent Safety with JAR 25.571 Change 15

CRI D-06 Towbarless Towing

JAA/737-700/ES/D-06 Equivalent Safety with JAR 25X745(d)

CRI D-08 Forward and Aft Door Escape Slide Low Sill Height

JAA/737-700/ES/D-08 Equivalent Safety with JAR 25.809(f)(1)(ii)

CRI D-10 Overwing Hatch Emergency Exit Signs JAA/737-700/ES/D-10 Equivalent Safety with JAR 25.812(b)(1)(i)

CRI D-16 Automatic Overwing Exit

JAA/737-700/ES/D-16 Equivalent Safety with JAR 27.783(f)

CRI D-17 Oversized Type I Exits, Maximum Number of Passengers

JAA/737-700/ES/D-17 Equivalent Safety with JAR 25.807

CRI D-18 Slide/Raft Inflation Gas Cylinders

JAA/737-700/ES/D-18 Equivalent Safety with JAR 25X1436

CRI PTC/ D-19 Door Sill Reflectance

JAA/757-300/ES/D-19 Equivalent Safety with JAR 25.811(f)

CRI PTC/D-21 Emergency Exit Marking

Equivalent Safety with JAR 25.811(f)

CRI 9ER/ D-21 Door Sill Reflectance

Equivalent Safety with JAR 25.811(f)

CRI PTC/ D-23 Passenger Information Signs
JAA/737-700/ES/D-23 Equivalent Safety with JAR 853(d)

CRI E-09 Automatic Fuel Shut Off

JAA/737-700/ES/E-09 Equivalent Safety with JAR 25.979(b)(1)

CRI E-11 New Interior Arrangement with Passenger Service Unit

Life Vest Stowage

Equivalent Safety with JAR 25.1411(f)

(not applicable to the 737-600)

CRI F-15 Wing Position Lights

JAA/737-700/ES/F-15 Equivalent Safety with JAR 25.1389(b)(3)

CRI F-GEN 9-1 Minimum Mass Flow of Supplemental Oxygen "Component

Qualification"

Equivalent Safety with JAR 25.1443(c)

CRI F-GEN9-3 Crew Determination of Quantity of Oxygen in Passenger

Oxygen System

Equivalent Safety with JAR 25.1441(c)

CRI G-GEN1 Instructions for Continued Airworthiness

Equivalent Safety with CS 25.1529, CD25 Appendix H

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SECTION 3: 737-700 SERIES - continued

# 7. OSD requirements

- As defined in CRI A-MMEL issue 1: for B737-600/-700/-800/-900/-900ER, JAR-MMEL/MEL Amendment 1, Section 1, Subpart A & B is applicable.

- As defined in document D926A105: B737-600/-700/-800/-900/-900ER, CS-FCD, Initial Issue, dated 31 Jan 2014 is applicable
- As defined in CRI A-CCD issue 1: for B737-600/-700/-800/-900/-900ER, CS-CCD, Initial Issue dated 31 January 2014 is applicable.

8. Environmental Protection Standards: Noise: ICAO Annex 16, Volume I (Third Edition)

Fuel: ICAO Annex 16, Volume II (Second Edition)

See also TCDSN EASA.IM.A.120

# III. Technical Characteristics and Operational Limitations

1. Production Basis: Manufactured under Production Certificate 700

2. Type Design Definition: Defined by Boeing Top Drawing No. 001A0001-700 Rev.

AG, dated January 12, 1998, and later approved changes

and Production Revision Record (PRR) No. 38280.

(737-700 IGW) Boeing Top Drawing No. 001A0001-2703 Rev. CA, dated

October 13, 1998, and later approved changes and

Production Revision Record (PRR) No. 38280

3. Description: Refer to Section 2 (data pertinent to all NG Series)

4. Dimensions: Refer to Section 2 (data pertinent to all NG Series)

5. Engines:

CFM56-	7B20	7B22	7B24	7B26	7B27/B3
	7B20/2	7B22/3	7B24/2	7B26/B1	7B27/3B3
	7B20/3	7B22E	7B24/3	7B26/3F	7B27E/B3
	7B20E		7B24E	7B26E	
				7B26E/B1	
				7B26E/B2	
				7B26E/B2F	
				7B26E/F	

6. Auxiliary Power Unit: Refer to Section 2 (data pertinent to all NG Series)

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives,: Refer to Section 2 (data pertinent to all NG Series)

Hydraulics)

9. Fluid Capacities: Refer to Section 2 (data pertinent to all NG Series)

10. Airspeed Limits: See Airplane Flight Manual

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude

12. All Weather Capability: See Airplane Flight Manual

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SECTION 3: 737-700 SERIES - continued

### 13. Maximum Certified Masses:

	737-700*		737-700 IGW**	
Taxi and Ramp	155,000 lbs.	70,306 kg,	171,500 lbs.	77,791 kg.
Take-off	154,500 lbs.	70,080 kg.	171,000 lbs.	77,564 kg.
Landing	129,200 lbs.	58,604 kg.	134,000 lbs.	60,781 kg.
Zero Fuel	121,700 lbs.	55,202 kg.	126,000 lbs.	57,152 kg.

<sup>\*</sup> Specified weights for -700 are Increased Design Weights approved post-initial Type Validation

14. Centre of Gravity Range: Refer to Airplane Flight Manual

15. Datum: See Weights and Balance Manual

16. Mean Aerodynamic Chord: 3.96 m (155.81 in)

(MAC)

17. Levelling Means: See Weight and Balance Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

# 19. Minimum Cabin Crew

The table below provides the certified Maximum Passenger Seating Capacities (MPS), the corresponding cabin configuration (exit arrangement and modifications) and the associated numbers of cabin crew members used to demonstrate compliance with the evacuation certification requirements of CS 25.803. Additional cabin crew members may be required to comply with other regulatory requirements (e.g., cabin attendant direct view).

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 101 to 149 passengers: (I, III, I) exit arrangement	3
100 or fewer passengers: (I, III, I) exit arrangement	2

# 20. Maximum Seating Capacity: (-) Passengers

Note: The maximum number of passengers approved for emergency evacuation is 149 with JAA / 737-700/SC/D-14 applicable, otherwise 145.

See interior layout drawing for the maximum passenger capacities approved for each aeroplane delivered.

### 21. Exits:

B737-700	Number	Type	Size mm (inches)
1 Main Fwd LH	1	Type I	864W x 1829H (34 x 72),
2 Main Aft LH	1	Type I	762W x 1829H (30 x 72),
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W x 1651H (30 x 65 - both)
4 Overwing/Emergency left	1	Type III	508W x 914H (20 x 36)
5 Overwing/Emergency right	1	Type III	508W x 914H (20 x 36)
6 Flight Crew Emergency Exits	1 + 1	Sliding	483W x 508H (19 x 20 - both)

<sup>\*\*</sup> Reference Boeing PLOD B-T111-98-2097 (737-700 IGW Revision F)

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SECTION 3: 737-700 SERIES – continued 22. Baggage/Cargo Compartment:

Location	Class	Volume m <sup>3</sup> (ft <sup>3)</sup>
Front Fwd	D	11.37 (406)
Middle	N/A	N/A
Rear Aft	D	16.7 (596)
Underfloor	N/A	N/A

23. Wheels and Tyres: Refer to Section 2 (data pertinent to all NG Series)

24. ETOPS Operation: Refer to Section 2 (data pertinent to all NG Series)

25. Fuel Tank Flammability

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SECTION 3: 737-700 SERIES - continued

Reduction System (FRS): Aircraft which have made their first flight after 1 January

2012 must be equipped with a fuel tank Flammability

Reduction System (EASA SIB 2010-10)

Flammability Reduction Systems have been installed on aircraft line numbers 1820 and 1831 in December 2005, and then since mid 2008 on aircraft line number 2517,

2620 and on.

This system shall remain installed and operative and can only be dispatched inoperative in accordance with the

provisions of the MMEL

# IV. Operating and Servicing Instructions

1. Flight Manual: Airplane Flight Manual, Document No. D631A001.J01

2. Service Information: Maintenance Manual, Document No. D633A101

Maintenance Review Board Report Revision 1; 19 November 1997 or subsequent JAA approved revision

Airworthiness Limitations and Certification Maintenance Requirements: 737-600/700/800 Maintenance Planning Document (MPD) Document Section 9 Ref.: D626A001, Revision dated September 1997, and later revisions

thereof

Service Letters and Service Bulletins

3. Required Equipment: The approved equipment is listed in: (737-700) CRI A-10

# V.Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 3.II.7.

- 1. Master Minimum Equipment List (see section 2.V)
- 2. Flight Crew Data (see section 2.V)
- 3. Cabin Crew Data (see section 2.V)

### VI.Notes

1. Airplanes modified by Boeing design change "Lower Cabin Altitude" are capable of maintaining a cabin altitude of 6500 feet in lieu of the standard 8000 feet when operating at a cruising altitude of 41,000 feet. This modification has been approved by EASA STC 10042295.

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# SECTION 4: 737-800 Series

### 4.1 B737-800 Model

I. General

1. Type / Model / Variant: Boeing 737-800

2. FAA Certification Application Date: February 04, 1993

JAA Validation Application Date: August 04, 1993

(Reference date for JAA validation)

4. FAA Type Certification Date: March 13, 1998

5. EASA/JAA Type Validation Date: April 09, 1998

### **II. Certification Basis**

No. A16WE 1. FAA Type Certificate Data Sheet:

2. FAA Certification Basis: As for Boeing 737-700, see Section 3

3. JAA/EASA Airworthiness Requirements:

a. For aircraft without in-production winglets: As for Boeing 737-700, see Section 3

b. For aircraft with in-production winglets:

i. Applicable requirements for affected area:

The affected area are the wingtip position and anti-collision lights, light fixtures and wiring within the wingtip, the winglets, wing box, wing spars and wing skins.

The applicable requirements are defined in JAR 25 Change 14, effective 27 May 1994, Orange Paper 96/1, effective 19 April 1996, JAR AWO Change 2, effective 1st August 1996 and JAA IL-23-RVSM, effective April 1994.

Two Equivalent Safety Findings apply:

JAA/737-800/ES/F-01

(PTC) CRI F-01 Forward Wingtip (Winglet) 8.5v Position Lights-Intensities

Equivalent Safety with JAR 25.1389(b)(1), 25.1389(b)(2) 25.1391, 25.1395

JAA/737-800/ES/F-02

(PTC) CRI F-02 Forward Wingtip (Winglet) 8.5v Position Lights-Overlapping Intensities: Equivalent Safety with JAR 25.1389(b)(3) and 25.1395

ii. Applicable requirements for non-affected area

The non-affected area are in particular (but not limited to) engine struts, fuselage, empennage, landing gear.

The applicable requirements are those defined for Boeing 737-700 in Section 3

4. Special Conditions: As for Boeing 737-700, see Section 3

5. Exemptions/Deviations: As for Boeing 737-700, see Section 3 \* TCDS No.: IM.A.120 Boeing 737 Page 25 of 104
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SECTION 4: 737-800 SERIES - continued

6. Equivalent Safety Findings: As for Boeing 737-700, see Section 3

and the following:

CRI C-15/PTC Structural Certification Criteria for Large Antenna Installations

Equivalent Safety with JAR 25.23, 25.251, 25.301, 25.365, 25.571, 25.581, 25.603, 25.605, 25.609, 25.613, 25.629, 25.631, 25.841, 25.901, 25.1419, 25.1529, and Appendix H

CRI F-01 PTC Forward Wingtip (Winglet) 8.5 volt Position Litght Intensities

Equivalent Safety with JAR 25.1389(b), 25.1391, 25.1395

CRI F-02 PTC Forward Wingtip (Winglet) 8.5 volt Position Lights

Overlapping Intensities

Equivalent Safety with Jar 25.1389(b)(3) and 25.1395

7. OSD requirements

- As defined in CRI A-MMEL issue 1: for B737-600/-700/-800/-900/-900ER, JAR-MMEL/MEL Amendment 1, Section 1, Subpart A &B is applicable.

As defined in document D926A105: B737-600/-700/-800/-900/-900ER, CS-FCD, Initial Issue, dated 31 Jan 2014 is applicable

- As defined in CRI A-CCD issue 1: for B737-600/-700/-800/-900/-900ER, CS-CCD, Initial Issue dated 31 January 2014 is applicable.

8. Environmental Protection Standards: As for Boeing 737-700, see Section 3

### **III.Technical Characteristics and Operational Limitations**

Production Basis: Manufactured under Production Certificate 700

2. Type Design Definition: Defined by Boeing Top Drawing No. 001A0001-800 Rev. AK,

dated February 27, 1998, and later approved changes and

Production Revision Record (PRR) No. 38280.

3. Description: Refer to Section 2 (data pertinent to all NG Series)

4. Dimensions: Refer to Section 2 (data pertinent to all NG Series)

5. Engines:

CFM56-	7B24	7B26	7B27	7B27/B1
OI WISO	7B24/3	7B26/2	7B27/2	7B27/3B1
	7B24/3B1	7B26/3	7B27/3	7B27/3B1F
	7B24E	7B26/3F	7B27/3F	7B27/3B3
	7B24E/B1	7B26E	7B27E	7B27E/B1
		7B26E/F	7B27E/F	7B27E/B1F
				7B27E/B3

6. Auxiliary Power Unit: Refer to Section 2 (data pertinent to all NG Series)

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives,: Refer to Section 2 (data pertinent to all NG Series)

Hydraulics)

9. Fluid Capacities: Refer to Section 2 (data pertinent to all NG Series)

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SECTION 4: 737-800 SERIES - continued

10. Airspeed Limits: See Airplane Flight Manual

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude

12. All Weather Capability: See Airplane Flight Manual

### 13. Maximum Certified Masses:

Taxi and Ramp	174,900 lbs.	79,333 kg.
Take-off	174,200 lbs.	79,015 kg.
Landing	146,300 lbs.	66,360 kg.
Zero Fuel	138,300 lbs.	62,731 kg.

<sup>\*</sup> Specified weight approved post-initial Type Validation

14. Centre of Gravity Range: Refer to Airplane Flight Manual

15. Datum: See Weights and Balance Manual

16. Mean Aerodynamic Chord

(MAC):

3.96 m (155.81 in)

17. Levelling Means: See Weight and Balance Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

19. Maximum Seating Capacity: (-) Passengers

Note: The maximum number of passengers approved for emergency evacuation is 189 (with JAA/737-700/SC/D-14

applicable - or otherwise: 180).

See interior layout drawing for the maximum passenger capacities approved for each aeroplane delivered.

### 20. Exits:

B737-800	Number	Type	Size mm	(inches)
1 Main Fwd LH	1	Type I	864W x 1829H	(34 x 72),
2 Main Aft LH	1	Type I	762W x 1829H	(30 x 72),
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W x 1651H	(30 x 65-both)
4 Overwing/Emergency left	2	Type III	508W x 914H	(20 x 36)
5 Overwing/Emergency right	2	Type III	508W x 914H	(20 x 36)
6 Cockpit side window (2)	Flight Crew E	merg. Exits	483W x 508H	(19 x 20)

For crew emergency evacuation purposes, the side windows are available on both sides.

### 21. Baggage/Cargo Compartment:

Location	Class	Volume m <sup>3</sup> (ft <sup>3)</sup>
Front Fwd	D	19.6 (692)
Middle	N/A	N/A
Rear Aft	D	25.46 (899)
Underfloor	N/A	N/A

22. Wheels and Tyres: Refer to Section 2 (data pertinent to all NG Series)

23. ETOPS Operation: Refer to Section 2 (data pertinent to all NG Series)

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SECTION 4: 737-800 SERIES - continued

24. Fuel Tank Flammability

Reduction System (FRS): Aircraft which have made their first flight after 1 January 2012

must be equipped with a fuel tank Flammability Reduction

System (EASA SIB 2010-10)

Flammability Reduction Systems have been installed on aircraft line numbers 1820 and 1831 in December 2005, and then since mid 2008 on aircraft line number 2517, 2620 and

on.

This system shall remain installed and operative and can only be dispatched inoperative in accordance with the

provisions of the MMEL

# IV. Operating and Servicing Instructions

1. Flight Manual: Airplane Flight Manual, Document No. D631A001.J02

2. Service Information: Maintenance Manual, Document No. D633A101

Maintenance Review Board Report Revision 1; 19 November

1997 or subsequent JAA/EASA approved revision

Airworthiness Limitations and Certification Maintenance Requirements: 737-600/700/800 Maintenance Planning Document (MPD) Document Section 9 Ref.: D626A001, Revision Dated September 1997, and later revisions thereof

Service Letters and Service Bulletins

3. Required Equipment: The approved equipment is listed in: (737-700) CRI A-10

# V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 4.II.7.

- Master Minimum Equipment List (see section 2.V)
- Flight Crew Data (see section 2.V)
- Cabin Crew Data (see section 2.V)

### VI. Notes

None

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SECTION 4: 737-800 SERIES - continued

# 4.2 B737-800 Model – Boeing Converted Freighter Major Change

### I. General

The 737-800 BCF (Boeing Converted Freighter) is a 737-800 series passenger airplane that has been modified to operate in a freighter configuration.

This is a major change to the B737-800 model, not a new model. These aircraft remain 737-800 model aircraft for documentation purposes on this TCDS and with regard to the applicability of airworthiness directives.

Because of the magnitude of this design change, the certification basis for the changed aspects was required to be established and documented in accordance with section 21.101 (Changed Product Rule).

Paragraph numbering is consistent with that of section 4. Any paragraph not included in this section for the B737-800BCF is therefore unchanged from the B737-800 (including noise and emissions requirements).

1. Type-Model Variant: Boeing 737-800 BCF (Boeing Converted Freighter)

2. FAA Certification Application Date: October 29, 2014

3. EASA Validation Application Date: March 23, 2016

4. FAA Type Certificate Date: April 06, 2018

5. EASA Type Validation Date: April 12, 2018

### **II. Certification Basis**

FAA Type Certification Data Sheet: No. A16WE

2. FAA Certification Basis: 14 CFR Part 25 Amendment 25-0 through 25-138 except where modified by the FAA Issue Paper G-1

3. EASA Airworthiness Requirements for non-affected Area:

As for Boeing 737-800 baseline model, see Section 4.1.

4 EASA Airworthiness Requirements for affected Area:

Affected Area definition:

- Main Deck Cargo Door (MDCD).
- Modification of fuselage surround structure for installation of MDCD:

MDCD surround structure perimeter located from STA 360 to STA 500H (S-4R to S24L) with the MDCD located from STA 440 to STA 500D (S-3L to S-17L.)

Modification of floor structure to accommodate cargo loads and handling:
 The structure modified in Sections 41, 42, 44, 46 and 47, (STA 344, STA 986).

floor structure modified in Sections 41, 43, 44, 46 and 47. (STA 344 – STA 986)

- Removal of passenger interior configuration for installation of main deck Class E cargo compartment and supernumerary area.
- Installation of Class E main deck cargo Fire Detection System.
- Installation of new main deck Cargo Handling System (CHS) and Rigid Cargo Barrier (RCB) placards via third party STC.
- Airplane environmental control systems, mechanical, hydraulic, electrical systems revisions to support passenger to freighter modification.

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SECTION 4: 737-800 SERIES - continued

Applicable JAR/CS Requirements:

CS-25 Amendment 15, effective July 21, 2014 with

reversions identified in section 9.II.8.

CS-AWO, effective October 17 2003

# 5. Special Conditions:

The following Special Conditions have been defined in their respective CRI:

CRI D-30 PTC	Courier Compartment
	Affected requirement CS 25.857(e) amdt 15
CRI D-31 PTC	Access to class E cargo compartment in flight
	Affected requirement CS 25.855, 25.857, 25.1309, 25.1439,
	25.1443 at amdt 15
CRI F-GEN-11	Non-Rechargeable Lithium Batteries Installations
	Affected requirement CS 25.601, 25.863, 25.1353(c)

### 5. Deviations:

N/A

# 6. Equivalent Safety Findings:

The following JAA/EASA Equivalent Safety Findings have been applied:

CRI F-39 PTC	737-800 BCF installation of a common supplemental oxygen
	system for flight crew and supernumeraries
	Equivalent Safety with CS 25.1445(a) amdt 15

# 7. Operational Suitability Requirements:

As for Boeing 737-800, see Section 4.

### 8. Reversions

All reversions from the applicable airworthiness standards to earlier standard, as per Part 21.101(b), are listed below.

The following reversions from the applicable airworthiness standards contain additional requirements that can be found in the associated CRI.

Applicable paragraph	Reversion	Conditions associated to the reversions are given in the following CRIs
CS 25.365(e)(1)(2)	Pressurised Compartment loads, Engine disintegration fragments Reversion to FAR 25.365 Amendment 0	737-700 CRI A.11- 02, plus JAA/737- 700/SC/C-1
CS 25.734	Protection Against Wheel and Tyre Failures Reversion to JAR 25.729(f) at Change 13	
CS 25.795(b)(1)	Security Considerations Not applicable	
CS 25.1301	Function and installation Reversion to JAR 25.1301 at Change 13	CRI F-GEN-11, CRI F-GEN9-4

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SECTION 4: 737-800 SERIES - continued

Applicable paragraph	Reversion	Conditions associated to the reversions are given in the following CRIs
	EWIS Components: reversion to 25.1703-1733, except for 1707(c)	
CS 25.1301(b)	Function and installation: EWIS  Not applicable	CRI H-01
CS 25.1309	Equipment Systems and Installations Reversion to JAR 25.1309 at Change 13 with OP 90/1	CRI A.11-16, CRI F-GEN-11, CRI F-GEN9-4
CS 25.1309(d)	Equipment Systems and Installations: EWIS Not applicable	CRI H-01
CS 25.1322	Flight Crew Alerting Reversion to JAR 25.1322 at Change 13/14	
CS 25.1703-1733 excepted 1707(c)	Electrical Wiring Interconnection Systems (EWIS) Not applicable	CRI H-01

# **III. Technical Characteristics and Operational Limitations**

(Characteristics not mentioned below are identical to those of the B737-800 baseline model)

- 1. Type Design Definition: Boeing Top Project Drawing 800A0003
- 2. Maximum Certified Masses: There are no increases to the 737-800 Operational Weights.

Taxi and Ramp	174,900 lbs.	79,333 kg.
Take-off	174,200 lbs.	79,015 kg.
Landing	146,300 lbs.	66,360 kg.
Zero Fuel	138,300 lbs.	62,731 kg.

# 3. Maximum Seating Capacity

Maximum Passenger Capacity 0 (Zero) Passengers. Up to 6 (six) Supernumeraries within the Flight Deck and courier compartment. 2 (two) Flight Crew members.

### 20. Exits

B737-800BCF	Number	Type	Size mm	(inches)
1 Main Fwd LH	1	Type I	864W x 1829H	(34 x 72),
3 Service (Fwd, RH)	1	Type I	762W x 1651H	(30 x 65-both)
6 Cockpit side window (2)	Flight Crew E	merg. Exits	483W x 508H	(19 x 20)

For crew emergency evacuation purposes, the side windows are available on both sides. Overwing and Aft exits are deactivated.

# 4. Baggage/Cargo Compartment:

Location	Class	Volume m <sup>3</sup> (ft <sup>3)</sup>
Main Deck	Е	144.4 (5100)
Front Fwd	D	19.0 (670)
Middle	N/A	N/A
Rear Aft	D	25.0 (883)
Underfloor	N/A	N/A

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SECTION 4: 737-800 SERIES - continued

5. ETOPS Operation:

The 737-800BCF is not approved for ETOPS

### IV. Operating and Service Instructions

Airplane Flight Manual (AFM): Boeing Document D631A001

2. Service Information: Airworthiness Limitations and Certification Maintenance

Requirements: 737-600/700/800 Maintenance Planning Document (MPD) Document Section 9 Ref.: D626A001, Revision Dated September 1997, and later revisions thereof.

Service Letters and Service Bulletins as published by

Boeing and approved by the FAA.

4. Weight and Balance (WBM): Boeing Document D043A584

# V. Operating Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 9.II.7.

# 1. Master Minimum Equipment List

OSD MMEL requirements as per section 2.V.

The EASA MMEL is defined in Boeing document D6-32545-ESEM, revision 4 dated April 05<sup>th</sup>, 2018, or later approved revisions.

### 2. Flight Crew Data

OSD FCD requirements as per section 2.V.

The Flight Crew Data is defined in Boeing document D926A105, revision C dated November 24 2017 or later approved revisions.

### 3. Cabin Crew Data

OSD CCD requirements as per section 2.V.

### VI. Notes

Following STC must be installed in conjunction with this installation:

- -EASA.IM.A.S01078 LiteAir Aviation Products Inc. Window plugs (10015384)
- -10065167 Ventura Aerospace Inc. 9g Rigid Cargo barrier
- -10065171 Ancra International LLC Cargo Loading system
  - Airplanes modified by Boeing design change "Lower Cabin Altitude" are capable of maintaining a cabin altitude of 6500 feet in lieu of the standard 8000 feet when operating at a cruising altitude of 41,000 feet. This modification has been approved by EASA STC 10042295.

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# SECTION 5: 737-600 Series

# **I.General**

1. Type / Model / Variant: Boeing 737-600

2. FAA Certification Application Date: February 04, 1993

3. JAA Validation Application Date: August 04, 1993

(Reference date for JAA validation)

4. FAA Type Certification Date: August 12, 1998

5. EASA/JAA Type Validation Date: September 09, 1998

# **II.Certification Basis**

1. FAA Type Certificate Data Sheet: No. A16WE

2. FAA Certification Basis: As for Boeing 737-700, see Section 3

3. JAA/EASA Airworthiness Requirements: As for Boeing 737-700, see Section 3

4. Special Conditions: As for Boeing 737-700, see Section 3

5. Exemptions/Deviations: As for Boeing 737-700, see Section 3

6. Equivalent Safety Findings: As for Boeing 737-700, see Section 3

7. Operational Suitability Data: As for Boeing 737-700, see Section 3

8. Environmental Protection Standards: As for Boeing 737-700, see Section 3

# **III. Technical Characteristics and Operational Limitations**

1. Production Basis: Manufactured under Production Certificate 700

2. Type Design Definition: Defined by Boeing Top Drawing No. 001A0001-600 Rev.

AW, dated June 08, 1998, and later approved changes and

Production Revision Record (PRR) No. 38280.

3. Description: Refer to Section 2 (data pertinent to all NG Series)

4. Dimensions: Refer to Section 2 (data pertinent to all NG Series)

5. Engines:

CFM56-	7B18/3	7B20	7B22
OI WOO		7B20/2	7B22/2
		7B20/3	7B22/3
		7B20E	7B22E

6. Auxiliary Power Unit: Refer to Section 2 (data pertinent to all NG Series)

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives,: Refer to Section 2 (data pertinent to all NG Series)

Hydraulics)

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SECTION 5: 737-600 Series - continued

9. Fluid Capacities: Refer to Section 2 (data pertinent to all NG Series)

10. Airspeed Limits: See Airplane Flight Manual

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude

12. All Weather Capability: See Airplane Flight Manual

### 13. Maximum Certified Masses:

Taxi and Ramp	146,000 lbs.	66,224 kg.
Take-off	145,500 lbs.	65,997 kg.
Landing	120,500 lbs.	54,657 kg.
Zero Fuel	114,000 lbs.	51,709 kg.

14. Centre of Gravity Range: Refer to Airplane Flight Manual

15. Datum: See Weights and Balance Manual

16. Mean Aerodynamic Chord: 3.96 m (155.81 in) (MAC)

17. Levelling Means: See Weight and Balance Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

### 19. Minimum Cabin Crew

The table below provides the certified Maximum Passenger Seating Capacities (MPS), the corresponding cabin configuration (exit arrangement and modifications) and the associated numbers of cabin crew members used to demonstrate compliance with the evacuation certification requirements of CS 25.803. Additional cabin crew members may be required to comply with other regulatory requirements (e.g., cabin attendant direct view).

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 101 to 145 passengers: (I, III, I) exit arrangement	3
100 or fewer passengers: (I, III, I) exit arrangement	2

### 20. Maximum Seating Capacity: (-) Passengers

Note: The maximum number of passengers approved for emergency evacuation is 149 (with JAA/737-700/SC/D-14

applicable - or otherwise: 145).

See interior layout drawing for the maximum passenger capacities approved for each aeroplane

delivered.

# 21. Exits:

B737-600	Number	Туре	Size mm	(inches)
1 Main Fwd LH	1	Type I	864W: 1829H	(34 x 72),
2 Main Aft LH	1	Type I	762W: 1829H	(30 x 72),
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W: 1651H	(30 x 65-both)
4 Overwing/Emergency left	1	Type III	508W: 914H	(20 x 36)
5 Overwing/Emergency right	1	Type III	508W: 914H	(20 x 36)
6 Cockpit side window (2)	Flight Crew	Emerg. Exits	483W : 508H	(19 x 20)

For crew emergency evacuation purposes, the side windows are available on both sides.

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SECTION 5: 737-600 Series – continued 22. Baggage/Cargo Compartment:

Location	Class	Volume m <sup>3</sup> (ft <sup>3)</sup>
Front Fwd	D	7.59 (268)
Middle	N/A	N/A
Rear Aft	D	13.8 (488)
Underfloor	N/A	N/A

23. Wheels and Tyres: Refer to Section 2 (data pertinent to all NG Series)

24. ETOPS Operation: Refer to Section 2 (data pertinent to all NG Series)

25. Fuel Tank Flammability
Reduction System (FRS):

Aircraft which have made their first flight after 1 January
2012 must be equipped with a fuel tank Flammability

Reduction System (EASA SIB 2010-10)

Flammability Reduction Systems have been installed on aircraft line numbers 1820 and 1831 in December 2005, and then since mid 2008 on aircraft line number 2517, 2620 and on.

This system shall remain installed and operative and can only be dispatched inoperative in accordance with the provisions of the MMEL

# IV. Operating and Servicing Instructions

1. Flight Manual: Airplane Flight Manual, Document No. D631A001.J03

2. Service Information: Maintenance Manual, Document No. D633A101

Maintenance Review Board Report Revision 1;

19 November 1997 or subsequent JAA/EASA approved

revision

Airworthiness Limitations and Certification Maintenance Requirements: 737-600/700/800 Maintenance Planning Document (MPD) Document Section 9 Ref.: D626A001, Revision dated September 1997, and later revisions thereof

Service Letters and Service Bulletins

3. Required Equipment: The approved equipment is listed in: (737-700) CRI A-10

# V.Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 5.II.7.

- 1. Master Minimum Equipment List (see section 2.V)
- 2. Flight Crew Data

(see section 2.V)

3. Cabin Crew Data (see section 2.V)

### VI.Notes

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# SECTION 6: 737-900 Series

# I. General

1. Type / Model / Variant: Boeing 737-900

2. FAA Certification Application Date: October 14, 1997

3. JAA Validation Application Date: October 14, 1997

(Reference date for JAA validation)

4. FAA Type Certification Date: April 17, 2001

EASA/JAA Type Validation Date: April 19, 2001

# **II.Certification Basis**

1. FAA Type Certificate Data Sheet: No. A16WE

2. FAA Certification Basis: FAR Part 25 Amendment 25-91 except where

modified by the FAA Issue Paper G-1

JAA/EASA Airworthiness Requirements: Applicable JAR Requirements 3.

(Reference CRI 9/A-01)

JAR 25 Change 14, effective 27 May 1994 Orange Paper 96/1, effective 19 April 1996 JAR AWO Change 2, effective 01 August 1996

JAA IL-23 RVSM, effective April 1994

# The following NPAs have been applied:

			Accelerate Stop
			Distances and Related
NPA 25,B,D,G-244	CRI A.11-17	25.109	Performances
			Discrete source
			damage due to rotor
NPA 25C-213	CRI C-17	25.571(e); 25.903	burst
		25.103; 25.107;	Stall and Stall Warning
		25.119; 25.125;	Speeds and
NPA 25B215	CRI B-02	25.143; 25.207	Manoeuvre Capability
		25.101-25.123;	Reduced Thrust
		25.149; 25.1582-	
NPA 25B-217	CRI B-04	25.1591	
NPA AWO 2			All Weather Operations
NPA AWO 5			All Weather Operations
			Flutter, Deformation
NPA 25.B,C,D-236	CRI C-05	25.629	and Fail Safe Criteria
NPA 25J-246	CRI J-03	25B1305	APU Instruments
			Design Dive Speed
			(JAR 25.335(b)(2) plus
NPA 25C260	CRI C-06	25.335(b)(2) with ACJ	ACJ at Ch.14)
			Nose Wheel Steering
NPA 25C260		25.499(e)	(JAR 25.499(e))

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SECTION 6: 737-900 Series - continued

		JAR 25.415 and	Reference JAR 25.415
NPA 25C-260		JAR 25.519	and JAR 25.519
			Harmonisation of
		Flight requirements+	JAR/FAR 25 Flight
NPA 25B261	B-08; B-11; B-13; B-15	201(d)	Requirements
			Harmonisation of
			Structures
NPA 25C-282	C-05	25.629	Requirements

In addition, the following requirements have been applied:

JAR AWO Change 2: All Weather Operations

Special Condition JAA/737-700/SC/C-07: (JAR 25.427(b)(3)FAA/JAA Harmonised version) in place of JAR 25.427(b)(3)

Static Ground Load Conditions (Jacking): JAR 25.519(b) in accordance with JAR 25 Amendment 25/96/1

Stalling Speeds for Structural Design (defined in CRI C-12)

Type III Emergency Exit Operating Handle Illumination JAR 25.811(e) at JAR 25 Chg. 14 ETOPS Approval (180 Minutes): JAA Information Leaflet Number 20 (1st July 1995 Revised)

### 3.1.Reversions:

The following Reversions from the defined certification basis have been applied:

CRI A.11-04 Emergency Landing Dynamic Loads

JAR 25.562 Reversion to JAR 25 Change 12 excluding paragraph .562

Note: Special Condition JAA/737-700/SC/D-14 which is applicable to the model -900 requires compliance to 25.562 at change 13 (same as change 14) except for 25.562(c)(5) and (c)(6).

CRI A.11-06	Fasteners
JAR 25.607(a)	Reversion to FAR 25.607(a) Amendment 0
CRI A.11-08	Lift and Drag Device Indicator
JAR 25.699(a)	Reversion to FAR 25.699 Amendment 0
CRI A.11-11	Doors
JAR 25.783(f)	Reversion to FAR 25.783 Amendment 15
CRI A.11-12	Seat, Berths, Safety Belts and Harness
JAR 25.785(a)	Reversion to JAR 25.785(a) Change 12
CRI A.11-16	Equipment, Systems and Installations
JAR 25.1309	Reversion to FAR 25.1309 Amendment 0
CRI A.11-23	Windshields and Windows
JAR 25.775(d)	Reversion to FAR 25.775(d) Amendment 0
CRI J-04	APU Fuel Shut Off Valve Indication
JAR 25A1141(f)(2)	Reversion to FAR 25.1141 Amendment 11

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SECTION 6: 737-900 Series - continued

CRI 9/A.11-01 **Pressurised Cabin Loads** 

Reversion to FAR 25.365 Amendment 0 JAR 25.365

CRI 9/A.11-02 **Fuel Tank Access Covers** 

Reversion to FAR 25 963 (e)(1) Amendment 69 JAR 25.963(g)(1)

CRI 9/A11-03 Automatic Pilot System

JAR 25.1329 Reversion to JAR 25.1329 Change 13 and associated ACJ

CRI 9/A11-04 Electronic Display Systems

Reversion to JAR 25 Change 13 and associated ACJ AMJ 25-11

#### 4. Special Conditions:

The following JAA Special Conditions have been applied defined in their respective CRI:

JAA/737-700/SC/B-10 Stall Warning Thrust Bias

**CRI B-10** Affected Requirement JAR 25.207(c) as amended by NPA 25B-215

JAA/737-700/SC/C-01 **Pressurized Cabin Loads** 

INT/POL/25/7 Affected requirement JAR 25.365 CRI C-01

JAA/737-700/SC/C-11 Interaction of Systems and Structure

**CRI C-11** Affected requirement JAR 25.302

JAA/737-700/SC/D-01 Brakes Requirements Qualification and Testing INT/POL/25/6 Affected requirement JAR 25.735 **CRI D-01** 

JAA/737-700/SC/D-04 Landing Gear Warning

INT/POL/25/1: Affected requirement JAR 25.729(e)(2) to (4) **CRI D-04** 

JAA/737-700/SC/D-14 Exit Configuration

**CRI D-14** Affected Requirement: JAR 25.807, JAR 25.562, JAR

25.813

CRI PTC/E-10 Flammibility Reduction Systems (FRS)

INT/POL/25/12: Affected requirement FAR 25.981 (c),

JAR 25.1309, NPA 10-2004, JAR 21.16(a)(1)

CRI E-16/PTC Fuel Tank Safety

Affected requirement CS 25.981 Amdt 1

JAA/737-700/SC/F-01 High Intensity Radiated Field (HIRF)

CRI F-01 INT/POL/25/2: Affected requirement JAR 25.1431(a)

JAA/737-700/SC/F-02 Protection from Effects of Lightning Strike; Direct Effects

INT/POL/25/3: Affected requirement JAR 25X899 and ACJ CRI F-02

25X899

JAA/737-700/SC/F-03

Protection from Effects of Lightning Strike; Indirect Effects CRI F-03

INT/POL/25/4: Affected requirement JAR 25.581, 25.899,

25.954, 25.1309

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SECTION 6: 737-900 Series - continued

CRI PTC F-23 CIAP/IRNAV and NPS Human Factors Evaluation

Affected requirement INT/POL 25/14, JAR 25.771(a) and (e)

25.777(a), 25.1301, 25.1303, 25.1309, 25.1523

CRI PTC/F-27 GNSS Landing System (GLS) – Airworthiness Approval for

Category I Apporach Operations

Affected requirement 25.1301, 25.1309, 25.1322, 25.1329, 25.1335, 25.1431, 25.1459, 25.1581, JAR-AWO, JAR-AWO

NPA AWO-9

CRI F-29 Lithium Ion Batteries

Affected requirement JAR 25.601, 25.863, 25.1309,

25.1353(c) and 25.1529

CRI F-30 Data Link Services for the Single European Sky

EUROCAE ED-120, ED-78A, ED-110B, ED-92A (Radio VDL/M2); Affected Requirements: JAR/FAR 25.1301, 25.1307, 25.1309, 25.1321, 25.1322, 25.1431, 25.1459, 25.1581, 25.1585, Commission Regulation (EC) No 29/2009

CRI F-31(PTC) Security Protection of Aircraft Systems and Networks

Affected requirement JAR 25.1309

(not applicable to 737-600)

CRI F-GEN10 PTC Non-rechargeable Lithium Batteries Installations

CS 25.601, 25.863, 25.869, 25.1301, 25.1309, 25.1353(c), 25.1529, 25.1360 (b) (only for installation of Honeywell CVR

P/N 980-6032-003 and FDR P/N 980-4750-003)

CRI F-GEN-11 Non-rechargeable Lithium Batteries Installations

CS 25.601, 25.863, 25.1353(c) (for all installations not

covered by F-GEN 10)

CRI H-01 "Instructions for Continued Airworthiness (ICA) on Electrical

Wiring Interconnecting Systems (EWIS)"

Affected requirement Part 21A.16(b)(3), 21A.21(c)(3),

CS 25.1529 & Appendix H

### 5. Exemptions/Deviations:

The following partial JAA Exemption has been applied:

JAA/737-700/PE/D-02 Hydraulic System Pressure Testing

CRI D-02 Partial Exemption Against JAR 25 1435(b)(1)

The following EASA Deviation has been applied:

CRI PTC D-22 Tech Insertion Engines and New Thrust Reverser Cascades

Intermix for 737-600/-700/-800/-900 LN: 1 through 2230 Deviation Against 25.305, 25.307(a), 25.601, 25.603(c),

26.613(a)(b), 25.1103(d) at Ch 13

CRI D-29 CFM 56-7B Technology Insertion Engines and new

Thrust Reverser Cascades

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SECTION 6: 737-900 Series - continued

### 6. Equivalent Safety Findings:

JAA/737-900/ES/9/C-01 Material Strength Properties and Design Values CRI 9/C-01 Equivalent Safety with JAR 25.613

JAA/737-900/ES/9/C-04 Control Systems

CRI 9/C-04 Equivalent Safety with JAR 25.395(a)

CRI PTC C-14 Landing Gear Safe Lives – Fatigue Scatter Factors

Equivalent Safety with JAR 25.571 Change 15

JAA/737-900/ES/9/D-02 Environmental Control Systems (Packs Off Take-Off)

CRI 9/D-02 Equivalent Safety with JAR 25.831 (a)

JAA/737-700/ES/D-08 Forward and Aft Door Escape Slide Low Sill Height

CRI D-08 Equivalent Safety with JAR 25.809(f)(1)(ii)

JAA/737-700/ES/D-16 Automatic Overwing Exit

CRI D-16 Equivalent Safety with JAR 25.783(f)

JAA/737-700/ES/D-17 Oversized Type I Exits, Maximum Number of

CRI D-17 Passengers

JAA/737-700/ES/D-18 Slide/Raft Inflation Gas Cylinders

CRI D-18 Equivalent Safety with JAR 25X1436

CRI PTC/D-21 Emergency Exit Marking

Equivalent Safety with JAR 25.811(f)

JAA/737-700/ES/D-21 Door Sill Reflectance

CRI 9ER/ D-21 Equivalent Safety with JAR 25.811(f)

JAA/737-700/ES/D-23 Passenger Information Signs

CRI PTC/D-23 Equivalent Safety with JAR 25.853(d)

JAA/737-700/ES/E-09 Automatic Fuel Shut Off

CRI E-09 Equivalent Safety with JAR 25.979(b)(1)

JAA/737-700/ES/F-15 Wing Tip Position Lights

CRI F-15 Equivalent Safety with JAR 25.1389(b)(3)

CRI F-GEN 9-1 Minimum Mass Flow of Supplemental Oxygen "Component

Qualification"

Equvalent Safety with JAR 25.1443(c)

CRI F-GEN9-3 Crew Determination of Quantity of Oxygen in Passenger

Oxygen System

Equivalent Safety with JAR 25.1441(c)

CRI G-GEN1 Instructions for Continued Airworthiness

Equivalent Safety with CS 25.1529, CS25 Appendix H

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SECTION 6: 737-900 Series - continued

7. OSD requirements

- As defined in CRI A-MMEL issue 1: for B737-600/-700/-800/-900/-900ER, JAR-MMEL/MEL Amendment 1, Section 1, Subpart A & B is applicable.

- As defined in document D926A105: B737-600/-700/-800/-900/-900ER, CS-FCD, Initial Issue, dated 31 Jan 2014 is applicable
- As defined in CRI A-CCD issue 1: for B737-600/-700/-800/-900/-900ER, CS-CCD, Initial Issue dated 31 January 2014 is applicable.
- 8. Environmental Protection Standards: As for Boeing 737-700, see Section 3

# **III. Technical Characteristics and Operational Limitations**

1. Production Basis: Manufactured under Production Certificate 700

2. Type Design Definition: Defined by Boeing Top Drawing No. 001A0001-900 Rev.

HK, dated March 06, 2001, and later approved changes and Production Revision Record (PRR) No. 38906.

3. Description: Refer to Section 2 (data pertinent to all NG Series)

4. Dimensions: Refer to Section 2 (data pertinent to all NG Series)

5. Engines:

CFM56-	7B24	7B26	7B27	7B27/B1
	7B24/3	7B26/3	7B27/3	7B27/3B1
	7B24/3B1	7B26/3F	7B27/3F	7B27/3B3
	7B24E	7B26E	7B27E	7B27E/B1
	7B24E/B1	7B26E/F	7B27E/F	7B27E/B3

6. Auxiliary Power Unit: Refer to Section 2 (data pertinent to all NG Series)

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives,: Refer to Section 2 (data pertinent to all NG Series)

Hydraulics)

9. Fluid Capacities: Refer to Section 2 (data pertinent to all NG Series)

10. Airspeed Limits: See Airplane Flight Manual

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude

12. All Weather Capability: See Airplane Flight Manual

13. Maximum Certified Masses:

Taxi and Ramp	174,700 lbs.	79,242 kg.	
Take-off	174,200 lbs.	79,015 kg.	
Landing	147,300 lbs.	66,814 kg.	
Zero Fuel	140,300 lbs.	63,639 kg.	

14. Centre of Gravity Range: Refer to Airplane Flight Manual

15. Datum: See Weights and Balance Manual

16. Mean Aerodynamic Chord 3.96 m (155.81 in) (MAC):

17. Levelling Means: See Weight and Balance Manual

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SECTION 6: 737-900 Series - continued

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

#### 19. Minimum Cabin Crew

The table below provides the certified Maximum Passenger Seating Capacities (MPS), the corresponding cabin configuration (exit arrangement and modifications) and the associated numbers of cabin crew members used to demonstrate compliance with the evacuation certification requirements of CS 25.803. Additional cabin crew members may be required to comply with other regulatory requirements (e.g., cabin attendant direct view).

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 151 to 189 passengers: (I, III, III, I) exit arrangement	4
From 101 to 150 passengers: (I, III, III, I) exit arrangement	3
100 or fewer passengers: (I, III, III, I) exit arrangement	2

# 20. Maximum Seating Capacity: (-) Passengers

Note: The maximum number of passengers approved for emergency evacuation is 189 (with JAA/737-700/SC/D-14 applicable) or otherwise: 180 See interior layout drawing for the maximum passenger capacities approved for each aeroplane delivered.

### 21. Exits:

B737-900	Number	Type	Size mm	(inches)
1 Main Fwd LH	1	Type I	864W x 1829H	(34 x 72),
2 Main Aft LH	1	Type I	762W x 1829H	(30 x 72),
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W x 1651H	(30 x 65-
4 Overwing/Emergency left	2	Type III	508W x 914H	(20 x 36)
5 Overwing/Emergency right	2	Type III	508W x 914H	(20 x 36)
6 Cockpit side window (2)	Flight Crew	Emerg. Exits	483W x 508H	(19 x 20)

For crew emergency evacuation purposes, the side windows are available on both sides.

# 22. Baggage/Cargo Compartment:

Location	Class	Volume m <sup>3</sup> (ft <sup>3)</sup>	
Front Fwd	С	23.5 (830)	
Middle	N/A	N/A	
Rear Aft	С	28.2 (996)	
Underfloor	N/A	N/A	

23. Wheels and Tyres: Refer to Section 2 (data pertinent to all NG Series)

24. ETOPS Operation: Refer to Section 2 (data pertinent to all NG Series)

25. Fuel Tank Flammability Reduction System (FRS):

Aircraft which have made their first flight after 1 January 2012 must be equipped with a fuel tank Flammability Reduction System (EASA SIB 2010-10)

Flammability Reduction Systems have been installed on aircraft line numbers 1820 and 1831 in December 2005, and then since mid 2008 on aircraft line number 2517, 2620 and on.

This system shall remain installed and operative and can only be dispatched inoperative in accordance with the provisions of the MMEL TCDS No.: IM.A.120 Boeing 737 Page 42 of 104

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SECTION 6: 737-900 Series - continued

# IV.Operating and Servicing Instructions

1. Flight Manual: Airplane Flight Manual, Document No. D631A001.J04

2. Service Information: Maintenance Manual, Document No. D633A101

Maintenance Review Board Report Revision 3 together with MRBR Supplement for 737-900 as JAA Approved 12 January 2000; subsequent JAA approved revision

Airworthiness Limitations and Certification Maintenance Requirements: 737-600/700/800 Maintenance Planning Document (MPD) Document Section 9 Ref.: D626A001, Revision dated March 2001, and later revisions thereof

Service Letters and Service Bulletins.

3. Required Equipment: The approved equipment is listed in:

(737-900) CRI 9/A-10

# V.Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 6.II.7.

- 1. Master Minimum Equipment List (see section 2.V)
- 2. Flight Crew Data (see section 2.V)
- 3. Cabin Crew Data (see section 2.V)

# VI.Notes

None

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# **SECTION 7: 737-900ER**

# **I.General**

1. Type / Model / Variant: Boeing 737-900ER

2. FAA Certification Application Date: June 05, 2002

3. JAA Validation Application Date: January 10, 2002 (Reference date for JAA validation) June 05, 2002

4. FAA Type Certification Date: April 20, 2007

5. EASA/JAA Type Validation Date: April 22, 2008

# **II.Certification Basis**

FAA Type Certificate Data Sheet: No. A16WE

2. FAA Certification Basis: FAR Part 25 Amendment 25-108 except where

modified by the FAA Issue Paper G-1

3. JAA/EASA Airworthiness Requirements: Applicable JAR Requirements

(Reference CRI 9ER/A-01)\*

JAR 25 Change 15, effective 01 October 2000 JAR AWO Change 2, effective 01 August 1996

JAA IL-23 RVSM, effective April 1994

In addition to the -900 model the following NPAs have been applied in various CRIs:

NPA 25B, C, D-236 Flutter, Deformation and Fail Safe Criteria NPA 25C, D, F-314 Better Plan for Harmonization – Cabin Safety

NPA 25F-274 Introduction of MLS and Upgrade of Equipment Software Standards

NPA 25D-301 Issue 1 Doors

NPA 25D-336 Reinforced Cockpit Doors to Enhance Aeroplane Security
NPA 25D-320 Revised Standards for Cargo or Baggage Compartments in

Transport Category Aeroplanes

\* NOTE: CRIs initially raised for the model -700 as cross-referenced in CRI 9ER/A-01 as applicable do not have a prefix. CRIs initially raised for the model -900 as cross-referenced therein as applicable are identified by the prefix "9/". CRIs which are specific to the Boeing 737 submodel -900ER are identified by the prefix "9ER/".

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SECTION 7: 737-900ER Series - continued

### 3.1. Reversions:

JAR 25A1141(f)(2)

The following Reversions as defined by the respective (-700 or -900) CRI's, were identified and accepted as part of the JAA Validation of the Boeing 737-700 and -900 models and are requested by Boeing and agreed by EASA for the certification basis for the validation of the Boeing 737-900ER design change:

CRI A.11-06	Fasteners
JAR 25.607(a)	Reversion to FAR 25.607(a) Amendment 0
CRI A. 11-08	Lift and Drag Device Indicator
JAR 25.699(a)	Reversion to FAR 25.699 Amendment 0
CRI A.11-11	Doors
JAR 25.783(f)	Reversion to FAR 25.783(f) Amendment 15
CRI A. 11-16	Equipment, Systems and Installations
JAR 25.1309	Reversion to FAR 25.1309 Amendment 0
CRI A. 11-23	Windshields and Windows
JAR 25.775(d)	Reversion to FAR 25.775(d) Amendment 0
CRI 9/A. 11-03	Automatic Pilot System
JAR 25.1329	Reversion to JAR 25.1329 Change 13 and associated ACJ
CRI 9/A. 11-04	Electronic Display Systems
AMJ 25-11	Reversion to JAR 25 Change and associated ACJ
CRI J-04	APU Fuel Shut Off Valve Indication

The following reversions as defined by the respective CRI's have been identified to be not applicable for the EASA Validation of the Boeing 737-900ER model:

Reversion to FAR 25.1141 Amendment 11

JAR 25.571 ch. 15	Fatigue and Damage Tolerance
(CRI A.11-5)	Boeing requested re-reversion to Chg 15.

The following reversions as defined by the respective CRI's have been identified and accepted as part of the EASA Validation of the Boeing 737-900ER model:

JAR 25.571(c) CRI 9ER/C-14	Fatigue Safe-Life Scatter Factors – Harmonized Scatter Factor – JAR 25 Chg 15
JAR 25.365 CRI 9/A. 11-01 CRI 9ER/C-19	Pressurized Cabin Loads (partly) Reversion to FAR 25.365 Amendment 0 (with exception to the aft pressure bulkhead area, which is a significant change) JAR 25 Chr 15, CRI 9ER/C-19 applies
JAR 25.493 CRI 9ER/C-21	Braked Roll Conditions Reversion to Chg 14 based on unchanged area.
JAR 25.562 CRI 9ER/A.11-04	Emergency Landing Dynamic Loads Partly reversion to JAR 25 Change 12 excluding Paragraph 25.562. Partly NPA 25C,D, F-314 except for (c)(5) and (c)(6)
JAR 25.729(f) and 25.1309	Protection of Equipment on the Landing Gear and in Wheel Wells. Reversion to Change 14 including OP 96/1

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# 3.2. Elect to Comply:

Boeing elected to comply with the following requirements as part of the Models 737-700 and 737-900 JAA Validation. These updated CRIs are for the model (-900ER):

All Weather Operations CRI 9ER/B-07

JAR NPAs AWO 2 dtd. Nov 1991 and AWO 5 dtd. Jul 1994

Flutter, Deformation and Fail Safe Criteria CRI 9ER/C-05

JAR 25.629 in accordance with NPA-25B, C, D – 236

dated Dec 1996, SSG(98/8)

CRI 9ER/C-12 JAR Stalling Speeds for Structural Design

TGM/25/6 is to be used for B737-900ER while Boeing 25.333, 335(c)(d)(e), proposed to use CRI C-12. JAR 25 Chg 15 applies 479(a), 481(a), 729(a)

CRI 9ER/D-02 Towbarless Towing

> JAR 25X745(d) Introduce Special Condition CRI be reopened. INT/POL/25/13 instead of RNPA 25D-275

CRI 9ER/F-04 Software Policy

JAR 25.1309 Chg 15 applies

CRI PTC G-01 ETOPS Approval (180 minutes)

(Rev. Sep/1999) AMC 20-6

CRI PTC G-02 Aeroplane Flight Manual

JAR 25.1581, ACJ and AMJ 25.1581

CRI PTC G-03 ETOPS Approval (Performance Charts)

JAR 25.335(b)(2) **Design Dive Speed** 

JAR 25 Chg 15 applies

Round the Clock Gust JAR 25.427(b)(3)

No CRI issued JAR 25 Chg 15 applied – CRI C-07 not applicable

JAR 25.499(e) Nose Wheel Steering

JAR 25 Chg 15 applies

JAR 25.519(b) Jacking

JAR 25 Chg 15 applies

JAR 25.415 **Ground Gust** 

JAR 25 Chg 15 applies

### **Special Conditions:**

The following JAA Special Conditions as defined by the respective (-700) CRI's, were identified as part of the JAA Validation of the Boeing 737-700 model and are applicable to, and form part of, the EASA Certification Basis for the Validation Boeing 737-900ER model:

JAA/737-700/SC/B-10 Stall Warning Thrust Bias

**CRI B-10** Affected Requirement JAR 25-207(c)

JAA/737-700/SC/D-01 Brakes requirements qualification and testing

CRI D-01

Affected requirements JAR 25.735/NPA 25B,D,G-244 and JAA Interim Policy INT/POL/25/6

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JAA/737-700/SC/D-04 Landing gear warning

CRI D-04 Affected requirements JAR 25.729 (e)(2) to (4)

JAA/737-700/SC/D-14

CRI D-14

Exit Configuration

Affected requirements JAR 25.807, JAR 25.562 and JAR

25.813(c)(1)

JAA/737-700/SC/F-01 High I

**CRI F-01** 

High Intensity Radiated Field (HIRF)

INT/POL/25/2: Affected requirement JAR 25.1431(a)

JAA/737-700/SC/F-02

CRI F-02 ACJ 25X899 Protection from Effects of Lightning Strike; Direct Effects

INT/POL/25/3: Affected requirements: JAR 25X899 and

JAA/737-700/SC/F-03

CRI F-03

Protection from Effects of Lightning Strike; Indirect Effect INT/POL/25/4 Affected requirements: JAR 25.581, 25.899,

J5.954, 25.1309

CRI F-GEN10 PTC Non-rechargeable Lithium Batteries Installations

CS 25.601, 25.863, 25.869, 25.1301, 25.1309, 25.1353(c), 25.1529, 25.1360 (b) (only for installation of Honeywell CVR

P/N 980-6032-003 and FDR P/N 980-4750-003)

CRI F-GEN-11 Non-rechargeable Lithium Batteries Installations

CS 25.601, 25.863, 25.1353(c) (for all installations not covered

by F-GEN 10)

The following EASA Special Conditions have been applied defined in their respective CRI:

CRI D-GEN01 PTC Fire Resistance of Thermal Insulation Material

Affected requirement CS25.856 & Appendix F

CRI D-GEN02 PTC Application of Heat Release and Smoke Density

Requirements for Seat Materials Affected Requirements: CS 25.853(d); Appendix F part IV and V; Part 21 §21A.16B

CRI PTC/E-10 Flammibility Reduction Systems (FRS)

INT/POL/25/12: Affected requirement FAR 25.981 (c),

JAR 25.1309, NPA 10-2004, JAR 21.16(a)(1)

CRI E-16/PTC Fuel Tank Safety

Affected requirement CS 25.981 Amdt 1

CRI PTC F-23 CIAP/IRNAV and NPS Human Factors Evaluation

Affected requirement INT/POL 25/14, JAR 25.771(a) and (e),

25.777(a), 25.1301, 25.1303, 25.1309, 25.1523

CRI F-29 Lithium Ion Batteries

Affected requirement JAR 25.601, 25.863, 25.1309,

25.1353(c) and 25.1529

CRI F-30 Data Link Services for the Single European Sky

EUROCAE ED-120, ED-78A, ED-110B, ED-92A (Radio VDL/M2); Affected Requirements: JAR/FAR 25.1301, 25.1307, 25.1309, 25.1321, 25.1322, 25.1431, 25.1459, 25.1581, 25.1585, Commission Regulation (EC) No 29/2009

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CRI F-31(PTC) Security Protection of Aircraft Systems and Networks

Affected requirement JAR 25.1309

CRI H-01 "Instructions for Continued Airworthiness (ICA) on Electrical

Wiring Interconnecting Systems (EWIS)"

Affected requirement Part 21A.16(b)(3), 21A.21(c)(3),

CS 25.1529 & Appendix H

The following Special Conditions have been identified which are specific to the model

737-900ER:

CRI 9ER/C-11 Interaction of Systems and Structure

Affected requirement JAR 25.302

### Exemptions/Deviations:

The following Partial Deviation/Exemption has been applied:

JAA/737-700/PE/D-02 Hydraulic System Proof Pressure Testing
CRI D-02 Partial Deviation against JAR 25 1435(b)(1)

### 6. Equivalent Safety Findings:

The following Equivalent Safety Findings were identified as part of the JAA Validation of the models -700/-900 or 757-300 and have been requested by Boeing and agreed by EASA to be applicable for model -900ER:

CRI C-15/PTC Structural Certification Criteria for Large Antenna

Installations

Equivalent Safety with JAR 25.23, 25.251, 25.301, 25.365, 25.571, 25.581, 25.603, 25.605, 25.609, 25.613, 25.629, 25.631, 25.841, 25.901, 25.1419, 25.1529, and Appendix H

JAA/737-700/ES/D-16

CRI D-16

Automatic Overwing Exit (AOE) Equivalent Safety with JAR 25.783(f)

JAA/737-700/ES/D-17 CRI D-17 Oversized Type I Exits, Maximum Number of Passengers up to 145/145/180 Equivalent Safety with JAR 25.807

JAA/737-700/ES/D-18

D-18

Slide/Raft Inflation Gas Cylinders CRI Equivalent Safety with JAR 25X1436

JAA/757-300/ES/D-19

**CRI D-19** 

Emergency Exit Markings

JAR 25.811(f)

JAA/737-700/ES/E-09

**CRI E-09** 

Automatic Fuel Shut Off

Equivalent Safety with JAR 25.979(b)(1)

JAR 25.1411(f)

CRI E-11

New Interior Arrangement with Passenger Service Unit Life

Vest Stowage

Equivalent Safety with JAR 25.1411(f)

JAA/737-700/ES/F-15

CRI F-15

Wing Tip Position Lights

Equivalent Safety with JAR 25.1389(b)(3)

JAR 25.1443(c) Minimum Mass Flow of Supplemental Oxygen "Component

CRI F-GEN 9-1 Qualification"

Equivalent Safety with JAR 25.1443(c)

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JAR 25.1441(c) Crew Determination of Quantity of Oxygen in Passenger CRI F-GEN9-3 Oxygen System Equivalent Safety with JAR 25.1441(c) CS 25.1529 Instructions for Continued Airworthiness Equivalent Safety with CS 25.1529, CS25 Appendix H CRI G-GEN1 JAA/737-900/ES/9/C-01 Material Strength Properties and Design Values CRI 9/C-01 Equivalent Safety with JAR 25.613 JAA/737/900/ES/9/C-04 Control Systems CRI 9/C-04 Equivalent Safety with JAR 25.395(a)

JAA/737-900/ES/9/D-02 Environmental Control Systems (Packs Off Take-Off)

CRI 9/D-02 Equivalent Safety with JAR 25.831(a)

The following Equivalent Safety Findings have been agreed between Boeing and EASA specific to the model 737-900ER:

JAR25.810(a)(1)(ii)ch 15 Forward and Aft Door Escape Slide Low Sill Height Equivalent Safety with JAR 25.810(a)(1)(ii) For JAR 25.809(f)(1)(ii) **CRI 9ER/D-08** JAA/737-700/ES/D-16 **Automatic Overwing Exit** CRI 9ER/D-16 Equivalent Safety with JAR 25.783(f) JAR 25.963(g) **Fuel Tank Access Covers** CRI 9ER/C-20 Equivalent Safety with JAR 25.963(g) JAR 25.807(d) Maximum Passenger Seating Configuration **CRI 9ER/D-12** Over Sized Type II Exit Passageway Dimension JAR 25.813(a) CRI 9ER/D-20 Equivalent Safety with JAR 25.813(a) JAR 25.811(f) Door Sill Reflectance **CRI 9ER/D-21** 

JAR 25.795(a)(2) Reinforced Cockpit Doors

CRI 9ER/D-22 Acceptance of FAA Memorandum

PS-ANM100-2001-115-11

JAR 25.811(f) Emergency Exit Markings CRI 9ER/D-22 (Door Sill Reflectance)

JAR 25.791(a) Passenger Information Signs and Placards Use of CRI 9ER/D-23 Electrically Illuminated Signs in lieu of Placards

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# 7. OSD requirements

- As defined in CRI A-MMEL issue 1: for B737-600/-700/-800/-900/-900ER, JAR-MMEL/MEL Amendment 1, Section 1, Subpart A & B is applicable.

- As defined in document D926A105: B737-600/-700/-800/-900/-900ER, CS-FCD, Initial Issue, dated 31 Jan 2014 is applicable
- As defined in CRI A-CCD issue 1: for B737-600/-700/-800/-900/-900ER, CS-CCD, Initial Issue dated 31 January 2014 is applicable.
- 8. Environmental Protection Standards: As for Boeing 737-700, see Section 3

# **III. Technical Characteristics and Operational Limitations**

1. Production Basis: Manufactured under Production Certificate 700

2. Type Design Definition: Defined by Boeing Document 737-900ER Amended Type

Design Configuration, DDL 737-900ER Rev B, and later

approved changes

3. Description: Refer to Section 2 (data pertinent to all NG Series)

4. Dimensions: Length 42.1m (138 ft 2 in)

Span 34.32 m (112 ft 7 in) Height 12.57 m (41 ft 3 in)

5. Engines:

CFM56-	7B24	7B26	7B27	7B27/B1	7B27/B3
	7B24/3	7B26/3	7B27/3	7B27/3B1	7B27/3B3
	7B24/3B1	7B26/3F	7B27/3F	7B27/3B1F	7B27E/B3
	7B24E	7B26E	7B27E	7B27E/B1	
	7B24E/B1	7B26E/F	7B27E/F	7B27E/B1F	

6. Auxiliary Power Unit: Refer to Section 2 (data pertinent to all NG Series)

7. Propellers: N/A

8. Fluids (Fuel, Oil, Additives,: Refer to Section 2 (data pertinent to all NG Series)

Hydraulics)

9. Fluid Capacities: Refer to Section 2 (data pertinent to all NG Series)

10. Airspeed Limits: See Airplane Flight Manual

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude

12. All Weather Capability: See Airplane Flight Manual

13. Maximum Certified Masses:

Taxi and Ramp	188,200 lbs.	85,366 kg.
Take-off	187,700 lbs.	85,139 kg.
Landing	157,300 lbs.	71,350 kg.
Zero Fuel	149,300 lbs.	67,721 kg.

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14. Centre of Gravity Range: Refer to Airplane Flight Manual

15. Datum: See Weight and Balance Manual

16. Mean Aerodynamic Chord: 3.96 m (155.81 in)

(MAC)

17. Levelling Means: See Weight and Balance Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

### 19. Minimum Cabin Crew

The table below provides the certified Maximum Passenger Seating Capacities (MPS), the corresponding cabin configuration (exit arrangement and modifications) and the associated numbers of cabin crew members used to demonstrate compliance with the evacuation certification requirements of CS 25.803. Additional cabin crew members may be required to comply with other regulatory requirements (e.g., cabin attendant direct view).

Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 216 to 220 passengers: (C, III, III, I, C) exit arrangement	5
From 201 to 215 passengers: (C, III, III, II, C) or (C, III, III, I, C) exit	5
arrangement	
From 190 to 200 passengers: (C, III, III, II, C) or (C, III, III, I, C) exit	4
arrangement	
From 151 to 189 passengers: (I, III, III, I), (C, III, III, II, C) or (C, III, III, I,	4
C) exit arrangement	
From 101 to 150 passengers: (I, III, III, I), (C, III, III, II, C) or (C, III, III, I,	3
C) exit arrangement	
100 or fewer passengers: (I, III, III, I) exit arrangement	2

# 20. Maximum Seating Capacity: (-) Passengers

Note: The maximum number of passengers approved for emergency evacuation is 220 (with Passenger Passageway acc. CRI 9ER/D-20), or otherwise: 215 (with downsized Passageway acc. CRI 9ER/D-20), or otherwise

with blocked MED unserviceable: 189.

See interior layout drawing for the maximum passenger capacities approved for each aeroplane delivered.

### 21. Exits:

B737-900ER	Number	Туре	Size mm	(inches)
1 Main Fwd LH	1	Type I	864W:: 1829H	(34 x 72),
2 Main Aft LH	1	Type I	762W: 1829H	(30 x 72),
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W: 1651H	(30 x 65 – both)
4 Overwing/Emergency left	2	Type III	508W: 914H	(20 x 36)
5 Overwing/Emergency right	2	Type III	508W: 914H	(20 x 36)
6 Mid Emergency Door LH/RH	1+1	Type I(II)	660W: 1295H	(26 x 51)
7 Cockpit side window (2)	Flight Crew	Emerg. Exits	483W : 508H x 2	20(19

For crew emergency evacuation purposes, the side windows are available on both sides.

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# 22. Baggage/Cargo Compartment:

Location	Class	Volume m <sup>3</sup> (ft <sup>3)</sup>
Front Fwd	С	23.4 (825)
Middle	N/A	N/A
Rear Aft	С	28.2 (996)
Underfloor	N/A	N/A

23. Wheels and Tyres: Nose Assy (Qty 2) Tyre: 27 x 7.75 - 15 or 27 x 7.75 - R15

Wheel: 27 x 7.75 – 15

Main Assy (Qty 4) Tyre: H44.5 x 16.5 -

21 Wheel: H44.5 x 16.5 – 21

Speed Rating: 235 MPH refer to Section 2 (data

pertinent to all NG Series)

24. ETOPS Operation: Refer to Section 2 (data pertinent to all NG Series)

25. Fuel Tank Flammability Reduction System (FRS):

Aircraft which have made their first flight after 1 January

2012 must be equipped with a fuel tank

Flammability Reduction System (EASA SIB 2010-

10)

Flammability Reduction Systems have been installed on aircraft line numbers 1820 and 1831 in December 2005, and then since mid 2008 on aircraft line number 2517, 2620 and on.

This system shall remain installed and operative and can only be dispatched inoperative in accordance with the provisions of the MMEL.

# IV. Operating and Servicing Instructions

1. Flight Manual: Airplane Flight Manual, Document No. D631A001.J05 (04)

2. Service Information: Maintenance Manual, Document No. D633A101

Maintenance Review Board Document D626A001-MRBR

with MRBR Supplement for 737-900ER as EASA

approved June 12, 2006

Airworthiness Limitations and Certification Maintenance Requirements: 737-600/700/800/900 Maintenance Planning Document (MPD) Document Section 9 Ref.: D626A001, Revision (R2) dated March 2007, and later

revisions

Service Letters and Service Bulletins.

3. Required Equipment: The approved equipment is listed in: (737-700) CRI A-10

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SECTION 7: 737-900ER Series - continued

# V.Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 7.II.7.

- 1. Master Minimum Equipment List (see section 2.V)
- 2. Flight Crew Data (see section 2.V)
- 3. Cabin Crew Data (see section 2.V)

# VI.Notes

1. Airplanes modified by Boeing design change "Lower Cabin Altitude" are capable of maintaining a cabin altitude of 6500 feet in lieu of the standard 8000 feet when operating at a cruising altitude of 41,000 feet. This modification has been approved by EASA STC 10042295.

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# **SECTION 8: 737-8.737-9**

# I.General

1. Type/ Model/ Variant: Boeing 737-8, -9 "MAX"

2. Performance Class A

3. Certifying Authority Federal Aviation Administration (FAA)

BASOO Branch 2200 S 216th St

Des Moines, WA 98198 United States of America

4. Manufacturer The Boeing Company

P.O. Box 3707

Seattle, WA 98124-2207 United States of America

5. FAA Type Certification Application Date:

Model	FAA Type Certification Application Date
737-8	January 26, 2012
737-9	June 12, 2013

6. EASA Type Validation Application Date:

Model	EASA Type Validation Application Date
737-8	June 27, 2012
737-9	June 12, 2013

7. FAA Type Certificate Date:

Model	FAA Type Certificate Date
737-8	March 8, 2017
737-9	February 15, 2018

# 8. EASA Type Validation Date:

Model	EASA Type Validation Date
737-8	March 27, 2017
737-9	Oct. 15th 2018

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SECTION 8: 737-8/-9 - continued

# **II.Certification Basis**

1. Reference Date for Determining the Applicable Airworthiness Requirements:

Model	Reference Date for Determining the Applicable Airworthiness
	Requirements
737-8	June 30, 2012
737-9	June 12, 2013

2. Reference Date for Determining the Applicable Operational Suitability Requirements:

Model	Reference Date for Determining the Applicable Operational Suitability Requirements
737-8	June 30, 2012
737-9	June 12, 2013

3. FAA Type Certification Data Sheet: No. A16WE

4. FAA Certification Basis

Model	FAA Certification Basis
737-8	14 CFR Part 25 Amendment 25-0 through 25-137 plus 25-141 except where modified by the FAA Issue Paper G-1
737-9	Same as 737-8

5. EASA Airworthiness Requirements:

Model	EASA Airworthiness Requirements
737-8	Applicable JAR/CS Requirements (Reference CRI A-01)*
	CS-25 Amendment 11, effective July 4, 2011 with exceptions identified in <u>Table A</u> in Appendix A
	CS-AWO, effective October 17, 2003
737-9	Applicable JAR/CS Requirements (Reference CRI A-01)*
	CS-25 Amendment 12, effective July 13, 2012 with exceptions identified in <u>Table A</u> in Appendix A. CS-AWO, effective October 17, 2003

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SECTION 8: 737-8/-9 - continued

# 5.1 Special Conditions

The following Special Conditions have been defined in their respective CRI for 737-8/-9:

CRI – Special Condition	Title/ Applicable requirement
CRI C-02/MAX	Design Manoeuvre Requirements Affected requirement 25.331, 25.349, 25.351
CRI D-04/MAX	Towbarless Towing Affected requirement 25.745(d),
CRI D-15/MAX	Emergency Exits Configuration Affected requirement 25.807, 25.562, 25.813
CRI D-27/MAX	Installation of Inflatable Restraint Systems Affected requirement 25.562, 25.785
CRI D-GEN02 PTC	Application of Heat Release and Smoke Density Requirements to Seat Materials Affected Requirement 25.853(d) Appendix F Part IV & V
CRI E-05/MAX	Engine Cowl Retention Affected Requirement 25.901(b)(2), 25.901(c), 25.1193(f)(3)
CRI E-27/MAX	Fan blade loss, effects at airplane level Affected Requirement 25.901(c), 25.903(d)(1), 25.1309(b)
CRI E-32/MAX	Fire Extinguishing Plumbing and Wiring Connections Affected Requirement 25.901, 25.903, 25.1195
CRI PTC F-01 JAA/737-700/SC/F-01	High Intensity Radiated Fields (HIRF) Affected requirement JAR 25.1431(a)
CRI PTC F-03 JAA/737-700/SC/F-03	Protection from the Effects of Lightning Strike; Indirect Effects Affected requirement 25.581, 25X899, 25.954, 25.1309, 25.1316  Note: 25.1316 is affected but the CRI does not list this regulation.
CRI F-03/MAX	HIRF Protection INT POL 25/2 Issue 2: Affected requirement CS 25
CRI F-11/MAX	Airworthiness standard for aircraft operations under falling and blowing snow Affected requirement 25.1093(b), 25J1093(b)
CRI F-GEN-11	Non-Rechargeable Lithium Batteries Installations Affected requirement 25.601, 25.863, 25.1353(c)
CRI PTC F-17	EGPWS Airworthiness Approval Affected requirement 25.1301, 25.1309, 25.1322, 25.1431(a)(c), 25.1459, AMJ 25-11, AMJ 25.1309, AMJ 25.1322

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SECTION 8: 737-8/-9 - continued

CRI - Special Condition	Title/ Applicable requirement
CRI PTC F-27	Global Navigation Satellite System (GNSS) Landing System (GLS) - Airworthiness Approval for Category I Approach Operations Affected requirement 25.1301, 25.1309, 25.1322, 25.1329, 25.1431, 25.1459, 25.1581, JAR-AWO, JAR-AWO NPA AWO-9
CRI PTC F-29	Lithium – Ion batteries Affected requirement 25.601, 25.863, 25.1309, 25.1353(c), and 25.1529
CRI PTC F-31	Security Protection of Aircraft Systems and Networks Affected requirement 25.1309

#### 5.2 Deviations:

The following EASA deviations have been applied for 737-8/-9:

CRI - Deviation	Title/ Affected Requirement
CRI E-30/MAX	Time Limited Deviation to Special Condition CRI E-05/MAX (Engine cowl retention) Affected requirement: 737-7/-8/-9 CRI E-05/MAX, 25.901(b)(2), 25.901(c), 25.1193
CRI E-31/MAX	Fuel Quantity Indication System (FQIS) Electrostatics Threat Affected requirement: 25.899, 25.901(c), 25.981(a)(3), and 25.1309(b)(1)

Note: CRI E-30/MAX is a time limited Deviation. The 737-8/-9 airplanes cannot be operated after June 30, 2021, unless the appropriate design changes are incorporated by the owner or operator.

The following EASA deviation has been applied for 737-9/-7/-8200:

CRI - Deviation	Title/ Affected Requirement
	Right Main Fuel Tank Indication of Refuel System Failure at Full Fuel Tank Level Affected requirement: 25.979(b)(2)

Note: CRI E-36/MAX is a line number limited deviation. This line number limited deviation is for 737-9, 737-7 and 737-8200 airplanes delivered to EASA customers before line number 7650. Line number 7650 estimated delivery is late June or early July 2019. This deviation is also time limited: The 737-9, 737-7 and 737-8200 airplanes delivered to EASA customers before line number 7650 cannot be operated after October 05<sup>th</sup> 2022 (4 years after EASA certification), unless the appropriate design changes are incorporated by the owner or operator.

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SECTION 8: 737-8/-9 - continued

# 5.3 Equivalent Safety Findings:

The following JAA/EASA Equivalent Safety Findings have been applied:

CRI - ESF	Title/ Equivalent Safety Requirement	Affecte	d Model
		737-8	737-9
CRI B-05/MAX	Longitudinal Trim at Vmo Equivalent Safety with 25.161(a), 25.161(c)(3)	х	Х
CRI B-06/MAX	En route Climb Equivalent Safety with CS 25.123(a) and (b)	Х	х
CRI D-08 JAA/737-700/ES/D-08	Forward and Aft Door Escape Slide Low Sill Height Equivalent Safety with 25.810(a)(1)(ii)	Х	
CRI 9ER/D-08	Forward and Aft Door Escape Slide Low Sill Height Equivalent Safety with 25.810(a)(1)(ii)		Х
CRI D-16/NG JAA/737-700/ES/D-16	Automatic Overwing Exit Equivalent Safety with 27.783(f)	х	Х
CRI 9ER/D-16	Fuselage Doors Equivalent Safety with 25.783		Х
CRI D-17/NG JAA/737-700/ES/D-17	Oversized Type I Exits, Maximum Number of Passengers Equivalent Safety with 25.807	Х	X
CRI D-17/MAX	Packs off operation Equivalent Safety with 25.831(a)(b)(c)(d), 25.855(h)(2), 25.857(c)(1)(3), 25.858(d), 25.1309(b)(1), 25.1322	х	х
CRI D-18/NG JAA/737-700/ES/D-18	Slide/Raft Inflation Gas Cylinders Equivalent Safety with 25.1436	Х	Х
CRI D-18/MAX	Wing Flap Lever Position Equivalent Safety with 25.777(e)	Х	Х
CRI PTC/ D-19 JAA/757-300/ES/D-19	Emergency Exit Marking Equivalent Safety with 25.811(f)	Х	X
CRI 9ER/D-20	Over Sized Type II Exit Passageway Dimension Equivalent Safety with 25.813(a)		Х
CRI 9ER/ D-21	Door Sill Reflectance Equivalent Safety with 25.811(f)	Х	Х
CRI PTC/ D-23 JAA/737-700/ES/D-23	Passenger Information Signs Equivalent Safety with 25.791(a)	х	Х
CRI E-09/PTC JAA/737-700/ES/E-09	Automatic Fuel Shut Off Equivalent Safety with 25.979(b)(1)	Х	Х
CRI E-10/MAX	Strut and Aft Strut Fairing Compartments Equivalent Safety with 25.1183(a) (as invoked by 25.1182(a))	х	Х
CRI E-11/PTC	New Interior Arrangement with Passenger Service Unit Life Vest Stowage Equivalent Safety with 25.1411(b)(1)	х	Х
CRI E-12/MAX	Thrust Reverser Testing Equivalent Safety with 25.934	Х	Х

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CRI - ESF	Title/ Equivalent Safety Requirement	Affected Model	
		737-8	737-9
CRI E-20/MAX	LEAP_1B Fuel Filter Location Equivalent Safety with 25.997(d), 25.1305(c)(6)	х	х
CRI E-22/MAX	LEAP-1B areas adjacent to Designated Fire Zone (CS- 25.1182) Equivalent Safety with 25.1183, 25.1195, 25.1197, 25.1199, 25.1201, 25.1203 (as invoked by 25.1182(a))	Х	х
CRI E-24/MAX	Wing Leading Edge Slats Equivalent Safety with 25.867(a)	Х	Х
CRI E-28/MAX	Fire Testing of Firewall Sealants Equivalent Safety with 25.1191	х	Х
CRI E-29/MAX	Fueling Float Switch Installation Equivalent Safety with 25.901(c), 25.981(a)(3), 25.981(d), 25.1309(b)(1)	х	X
CRI E-33/MAX	Fuel Tank Ignition Prevention - Hot Surface Ignition Temperature Equivalent Safety with 25.863, 25.901, 25.981(a)(3)	х	х
CRI F-07/MAX	Green Arc for Powerplant Instrument Equivalent Safety with 25.1549(b)	х	х
CRI F-15/NG JAA/737-700/ES/F-15	Wingtip Position Lights Equivalent Safety with 25.1389(b)(3)	х	Х
CRI F-17/MAX	Leading Edge Flaps Transit - Flight Crew Indication Equivalent Safety with 25.1322(a)(1)(i)	х	х
CRI F-GEN 9-1	Minimum Mass Flow of Supplemental Oxygen "Component Qualification" Equivalent Safety with 25.1443(c)	х	х
CRI F-GEN9-3	Crew Determination of Quantity of Oxygen in Passenger Oxygen System Equivalent Safety with 25.1441(c)	х	х
CRI G-GEN1	Instructions for Continued Airworthiness Equivalent Safety with 25.1529, 25.1729, 25 Appendix H	х	Х
CRI J-03/MAX	APU Engine Mount Equivalent Safety with 25.865	х	Х
CRI F-40 PTC	First Aid Portable Pulse Oxygen System Equivalent Safety with 25.1443(d)	х	Х

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SECTION 8: 737-8/-9 - continued

# 5.4 Reversions

All reversions from the applicable airworthiness standards to earlier standard, as per Part 21.101(b), are listed in the Table A of appendix A.

The following reversions from the applicable airworthiness standards contain additional requirements that can be found in the associated CRI.

Applicable paragraph	Title/ Reversion	Conditions associated to	Affecte	d Model
		the reversions are given in the following CRIs	737-8	737-9
25.562	Emergency Landing Dynamic Loads (Partly reversion to JAR 25 Change 12 excluding 25.562. Partly NPA 25C,D, F-314 except for (c)(5) and (c)(6))	CRI A.11-04	X	
25.562	Emergency Landing Dynamic Loads (Partly reversion to JAR 25 Change 12 excluding 25.562. Partly NPA 25C,D, F-314 except for (c)(5) and (c)(6))	CRI 9ER/A.11-04		Х
25.607(a)	Fasteners Reversion to FAR 25.607(a) Amendment 0	CRI A. 11-06	Х	Х
25.783(f)	Doors Reversion to FAR 25.783 Amendment 15	CRI A. 11-11	Х	Х
25.785(h)(1), (h)(2)	Direct View and Cabin Attendant Seat Reversion to FAR 25.785 Amendment 32	CRI A.11-13	Х	х
25.1309	Equipment, Systems and Installations Reversion to FAR 25.1309 Amendment 0	CRI A. 11-16	Х	х
25.775(d)	Windshields and Windows Reversion to FAR 25.775(d) Amendment 0	CRI A.11-23	Х	Х
25.21(g)(1), 25.125(b)(2)(ii)(B), 25.143(j), 25.207(e), 25.253(c), and Appendix C	Flight in Icing Conditions Reversion to CS 25.21(g)(1), 25.125(b)(2)(ii)(B), 25.143(j), 25.207(e), 25.253(c), and Appendix C Amendment 2	B-07/MAX	Х	х
25.365(e)(1)	Pressurised Compartment loads, Engine disintegration fragments Reversion to FAR 25.365 Amendment 0	C-03/MAX	Х	Х
25.1322	Flight Crew Alerting Reversion to JAR 25,1322(b) at Amendment 13	F-14/MAX	Х	х

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Applicable paragraph	Title/ Reversion	Conditions associated to	Affected Model	
		the reversions are given in the following CRIs	737-8	737-9
25J1141(a), 25J1141(b)(1), 25J1141(c), 25J1141(d), 25J1141(e)	APU Fuel Shut-Off Valve Indication Reversion to B737-800 CRI J-04, Reversion to FAR 25.1141 Amendment 11	J-01/MAX	х	Х

Note: The Boeing Model 737-8/-9 was granted an exception per Part 21.101(b) for CS 25.795(c)(2) based on the demonstration and justification that security features were present in the type design. These security features must be in consideration in any subsequent type design change, modification, or repair, to ensure that the level of safety designed into the 737-8/-9 is maintained. In lieu of the following, compliance to CS 25.795(c)(2), at amendment 11 (737-8) and amendment 12 (737-9), may be shown:

'Modifications that reduce flight critical system separation or adversely impact survivability of systems are not acceptable.'

# 6. Environmental Protection Requirements:

Noise Requirements: ICAO Annex 16, Volume I (Sixth Edition, Amendment 10)

Fuel Venting and Exhaust Emission Requirements: ICAO Annex 16, Volume II (Third Edition, Amendment 8)

See also TCDSN EASA.IM.A.120

# 7. Operational Suitability Requirements:

JAR MMEL/MEL Amendment 1 CS-CCD Initial Issue January 31, 2014 CS-FCD Initial Issue January 31, 2014 TCDS No.: IM.A.120 Boeing 737 Page 61 of 104 Date: Dec. 17th 2018

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SECTION 8: 737-8/-9 - continued

# **III. Technical Characteristics and Operational Limitations**

# 1. Type Design Definition:

Model	Boeing Document
737-8	D926A006
737-9	D926A010

# 2. Description:

Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.

### 3. Equipment:

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

### 4. Dimensions:

Model	Fuselage Length	Height	Wingspan with Winglets
737-8	39.5 m (129 ft 6 in)	12.29 m (40 ft 4 in)	35.92 m (117 ft 10 in)
737-9	42.11 m (138 ft 2 in)	12.29 m (40 ft 4 in)	35.92 m (117 ft 10 in)

# 5. Engines:

Two CFM LEAP-1B Series Engines. Refer to the approved Airplane Flight Manual for engine limitations.

Engine ratings, engine limitations, and all approved models are referred to in: EASA TCDS E.115 "CFM International LEAP-1B Series Engines"

Engine Configurations	Mod	dels
	737-8	737-9
LEAP-1B25G05	Х	
LEAP-1B27G05	Х	Х
LEAP-1B28G05	Х	Х
LEAP-1B28B1G05	Х	Х
LEAP-1B25G06	Х	
LEAP-1B27G06	Х	Х
LEAP-1B28G06	Х	Х
LEAP-1B28B1G06	Х	Х

# 6. Auxiliary Power Unit:

Auxiliary Power Unit (APU): Honeywell 131-9 [B] Limitations: See approved Airplane Flight Manual

7. Propellers: N/A

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SECTION 8: 737-8/-9 - continued

8. Fluids (Fuel, Oil, Additives, Hydraulics):

### Eligible Fuels:

Kerosene jet fuels conforming to the Boeing D6-85140-101 document "Aviation Fuel and Fuel Additives Properties, Composition and Performance Requirements", are authorized for unlimited use with this airplane provided the limitations and requirements specified in the AFM are met. Kerosene jet fuels produced to other specifications and having properties meeting or exceeding the minimum requirements defined in the D6-85140-101 document are acceptable for use. The engines will operate satisfactorily with any of the approved fuels or any mixture thereof. Kerosene jet fuels specifications that have been shown to meet the fuel minimum performance and specification requirements as described in the D6-85140-101 documents are the following:

- Jet A, Jet A-1 as specified in ASTM D1655
- Jet A-1 as specified in UK MoD Def-Stan 91-091
- JP-5 as specified in MIL-DTL-5624
- JP-8 as specified in MIL-DTL-83133

The above list is not exhaustive: other fuel specification/designation (e.g. GOST 10227 [TS-1], GB 6537 [Chinese No. 3 Jet Fuel], etc.) may be used provided the D6-85140-101 requirements are met.

Fuel specifications are often changed and updated. It is the responsibility of the operator to ensure the fuel and any additive that are put in the fuel meet the requirements specified in the D6-85140-101 document and the AFM.

The approved fuel additives at the allowable maximum concentrations are listed in the Boeing D6-85140-101 document. A list of tolerated "incidental materials" and respective maximum concentrations allowed is also provided in the same Boeing D6-85140-101 document.

The use of any Wide Cut Fuel as defined in the D6-85140-101 document (e.g. Jet B as specified in ASTM D6615, JP-4 as specified in MIL-DTL-5624) is prohibited.

The maximum tank fuel temperature should not exceed 49°C (120°F).

Tank fuel temperature prior to take-off and inflight must not be less than -43°C (-45°F) or 3°C (5°F) above the fuel freezing point temperature, whichever is higher. The use of Fuel System Icing Inhibitor additives does not change the minimum fuel tank temperature limit.

Eligible Oils: Refer to the applicable associated manuals.

### 9. Fluid Capacities

Fuel Capacity:

25817 litres (6820 gallons), consisting of two wing tanks, each of 4819 litres (1273 gallons) capacity, and one center tank, capacity 16179 litres (4274 gallons).

Oil Capacity: 19.25 litres useable

10. Airspeed Limits: See Airplane Flight Manual.

11. Maximum Operating Altitude: 12,497 m (41,000 ft) pressure altitude TCDS No.: IM.A.120 Boeing 737 Page 63 of 104

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SECTION 8: 737-8/-9 - continued

12. Operating Limitations: See Airplane Flight Manual.

12.1 Approved Operations:

The airplane is approved for the following kinds of flight and operation, both day and night, provided the required equipment is installed and approved in accordance with the applicable regulations/specifications:

- Visual (VFR)
- Instrument (IFR)
- Icing Conditions
- Low weather minima (CAT I, II, III operations)
- RVSM
- Gear down dispatch
- Towbarless Towing
- Wet and Contaminated runway operations
- Extended Over-Water
- Narrow Runway

All Weather Capability

The aircraft is qualified to Cat III precision approach and autoland.

#### 12.2 Other Limitations:

Operational Limits Runway slope – ±3%

Maximum Takeoff and Landing Tailwind Component – 15 knots\* Maximum Operating Altitude – 41,000 feet pressure altitude

#### 10 Minute Takeoff Thrust

\* The capability of the airplane has been satisfactorily demonstrated for takeoff and manual and automatic landings with tailwinds up to 15 knots. This finding does not constitute operational approval to conduct take-offs and landings with tailwind components in excess of 10 knots.

# 13. Maximum Certified Masses: See Airplane Flight Manual.

Model	Maximum Ramp Wei		Maximum Weight	n Take-off	Maximum Weight	Landing	Zero Fuel	Weight
737-8	181,700	82,417	181,200	82,190	152,800	69,308	145,400	65,952
	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.
737-9	195,200	88,541	194,700	88,314	163,900	74,343	156,500	70,987
	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.

14. Centre of Gravity Range: See Airplane Flight Manual

15. Datum: See Weights and Balance Manual

16. Mean Aerodynamic Chord (MAC): 3.96m (155.81 in)

17. Levelling Means: See Airplane Flight Manual

18. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight

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SECTION 8: 737-8/-9 - continued

### 19. Minimum Cabin Crew:

The table below provides the certified Maximum Passenger Seating Capacities (MPS), the corresponding cabin configuration (exit arrangement and modifications) and the associated numbers of cabin crew members used to demonstrate compliance with the evacuation certification requirements of CS 25.803. Additional cabin crew members may be required to comply with other regulatory requirements (e.g., cabin attendant direct view).

737-8 Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 151 to 189 passengers: (I, III, III, I) exit arrangement	4
From 101 to 150 passengers: (I, III, III, I) exit arrangement	3
100 or fewer passengers: (I, III, III, I) exit arrangement	2

737-9 Passenger Seating Capacity & Cabin Configuration	Cabin crew
From 201 to 220 passengers: (C, III, III, I, C) exit arrangement	5
From 201 to 220 passengers: (C, III, III, II, C) exit arrangement	5
From 151 to 200 passengers: (C, III, III, I, C) or (C, III, III, II, C) exit arrangement	4
From 151 to 189 passengers: (I, III, III, I) exit arrangement	4
150 or fewer passengers: (C, III, III, I, C) or (C, III, III, II, C) exit arrangement	3
From 101 to 150 passengers: (I, III, III, I) exit arrangement	3
100 or fewer passengers: (I, III, III, I) exit arrangement	2

# 20. Maximum Seating Capacity:

Model	Maximum Number of Passengers Approved for Emergency Evacuation
737-8	189 passengers with special condition CRI D-15/MAX applied, otherwise 180 passengers
737-9	220 passengers with (C-III-III-I-C) exit arrangement; 215 passengers with a (C-III-III-II-C) exit arrangement and CRI 9ER/D-20 applied; 189 passengers with a (I-III-III-I) exit arrangement and special condition CRI D-15/MAX applied, otherwise 180 passengers.

See interior layout drawing for the maximum passenger capacities approved for each aeroplane delivered.

# 21. Baggage/ Cargo Compartment:

737-8:			737-9:		
Location	Class	Volume m <sup>3</sup>	Location	Class	Volume m <sup>3</sup>
Front Fwd	С	19.0 (672)	Front Fwd	С	23.2 (818)
Middle	N/A	N/A	Middle	N/A	N/A
Rear Aft	С	24.6 (869)	Rear Aft	С	28.2 (996)
Underfloor	N/A	N/A	Underfloor	N/A	N/A

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SECTION 8: 737-8/-9 - continued

22. Wheels and Tyres: Speed Rating: 225 MPH, 235 MPH

Model	Speed Rating	Nose Assy (Qty 2) Tyre	Wheel	Main Assy (Qty 4) Tyre	Wheel
737-8	225 MPH, 235 MPH	27 x 7.75R15/12PR	27 x 7.75 – 15	H44.5x16.5R21/30PR	HR44.5 x 16.5 – 21
737-9	225 MPH, 235 MPH	27 x 7.75R15/12PR	27 x 7.75 – 15	H44.5x16.5R21/32PR	HR44.5 x 16.5 – 21

Refer to Boeing Wheel/Tire/Brake Interchangeability Drawing for further details

#### 23. ETOPS:

The 737-8 and 737-9 have been evaluated in accordance with the type design requirements of CS 25.1535 and found suitable for up to and including 180-minute Extended Operations (ETOPS) when operated and maintained in accordance with Boeing Document No. D044A032, "Model 737 MAX ETOPS Configuration, Maintenance, and Procedures (CMP)". This finding does not constitute approval to conduct ETOPS.

#### 24. Exits:

B737-8	Number	mber Type Size mm (inches)	
1 Main Fwd LH	1	Type I	864W x 1829H (34 x 72)
2 Main Aft LH	1	Type I	762W x 1829H (30 x 72)
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W x 1651H (30 x 65, both)
4 Overwing/Emergency left	2	Type III	508W x 914H (20 x 36)
5 Overwing/Emergency right	2	Type III	508W x 914H (20 x 36)
6 Cockpit side window (2)	Flight Crew	Emerg. Exits	483W x 508H (19 x 20)

B737-9	Number	Туре	Size mm (inches)	
1 Main Fwd LH	1	Type I	864W x 1829H (34 x 72)	
2 Main Aft LH	1	Type I	762W x 1829H (30 x 72)	
3 Service (Fwd, RH, Aft, RH)	1+1	Type I	762W x 1651H (30 x 65, both)	
4 Overwing/Emergency left	2	Type III	508W x 914H (20 x 36)	
5 Overwing/Emergency right	2	Type III	508W x 914H (20 x 36)	
6 Mid Emergency Door LH/RH	1+1	Type I (II)	660W x 1295H (26 x 51)	
7 Cockpit side window (2)	Flight Crew I	Emerg. Exits	483W x 508H (19 x 20)	

For crew emergency evacuation purposes, the side windows are available on both sides.

# 25. Fuel Tank Flammability Reduction System (FRS):

The Fuel Tank Flammability Reduction System shall remain installed and operative and can only be dispatched inoperative in accordance with the provisions of the MMEL.

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SECTION 8: 737-8/-9 - continued

# IV.Operating and Service Instructions

1. Airplane Flight Manual (AFM): Boeing Document D631A002

2. Instructions for Continued Airworthiness and Airworthiness Limitations:

<b>Boeing Document</b>	Title
D626A009	737-7/8/8200/9/10 Maintenance Review Board (MRB) Report
D626A011-9-01	737-7/8/8200/9/10 Airworthiness Limitations
D626A011-9-02	737-7/8/8200/9/10 Airworthiness Limitations – Line No. Specific
D626A011-9-03	737-7/8/8200/9/10 Certification Maintenance Requirements
D626A011-9-04	737-7/8/8200/9/10 Special Compliance Items

#### 3. Service Information:

Boeing Document	Title
D626A011	737-7/8/8200/9/10 Maintenance Planning Document (MPD)
D633AM101	Airplane Maintenance Manual

4. Weight and Balance (WBM): Boeing Document D636A090

#### ٧. **Operating Suitability Data (OSD)**

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate IM.A.120 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014. Applicable OSD requirements are detailed in section 8.II.7.

1. Master Minimum Equipment List

The EASA MMEL is defined in Boeing document D639A001-02, revision 1 dated 20 Apr 2018, or later approved revisions.

#### 2. Flight Crew Data

The Flight Crew Data is defined in Boeing document D926A105, revision C dated 21 November 2017 or later approved revisions.

The Flight Crew Data is required for entry into service by EU operator.

### 3. Cabin Crew Data

- a. The Cabin Crew Data has been approved as per the defined Operational Suitability Data Certification Basis, namely CS-CCD- Initial Issue, and as demonstrated by the "Boeing Document D611A099 - Operational Suitability Data - Cabin Crew Data, B737NG and B737-8/-9 MAX, First Issue, Revision 2, dated 28 February 2018", or later approved revisions.
- b. Required for entry into service by EU operator.
- c. For Cabin Crew, the aircraft models: B737-9 MAX without Mid Exit Doors (MED) activated and B737-8 MAX are determined to be the same aircraft type.
- d. For Cabin Crew, the model B737-9 MAX with MED activated is determined to be a variant to the B737-8 MAX model.

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e. For Cabin Crew the model B737-9 MAX "with" or "without" MED activated is determined to be a variant to the aircraft model B737-900ER (with Mid Exit Door (MED) activated), thus, also a variant to the models: B737-600, B737-700, B737-800, B737-900, B737-900ER.

#### VI. **Notes**

SECTION 8: 737-8/-9 - continued

1. Cabin Interior and Seating Configuration must be approved.

- 2. 737-8 airplanes modified by Boeing Service Bulletin 737-21-1217 Lower Cabin Altitude (LCA) modification are capable of maintaining a cabin altitude of 6,500 feet in lieu of the standard 8,000 feet when operating at a cruising altitude of 41,000 feet. This modification has been approved for airplanes listed in Boeing Service Bulletin 737-21-1217 Revision 1, dated July 17, 2018, or later approved revision.
- 3. Additional information is provided in FAA Type Certificate Data Sheet A16WE.

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# **SECTION: ADMINISTRATIVE**

# **I.Acronyms and Abbreviations**

AFM Airplane Flight Manual APU **Auxiliary Power Unit** AWO All Weather Operations CAA Civil Aviation Authority

Certification Maintenance Requirements CMR

CRI Certification Review Item CS Certification Specification

EASA **European Aviation Safety Agency** 

EC **European Commission** ES(F) Equivalent Safety (Finding)

**ETOPS** Extended Range Operations with Two-Engined Aeroplanes

EU **European Union** 

EU MS **European Union Member States** 

**EWIS** Electrical Wiring Interconnection System

FAA Federal Aviation Administration FAR Federal Aviation Regulation **FRS** Flammibility Reduction Systems HIRF High Intensity Radiated Field

IAA Irish Aviation Authority

Instructions for Continued Airworthiness ICA ICAO International Civil Aviation Organization

**IGW Increased Gross Weight** JAA **Joint Aviation Authorities** JAR Joint Aviation Requirements

LBA Luftfahrt-Bundesamt (CAA Germany)

**MRB** Maintenance Review Board NAA **National Aviation Authority** 

NG **Next Generation** 

NPA Notice of Proposed Amendment

PTC Post Type Certificate SC **Special Condition** TC Type Certificate

TCDS Type Certificate Data Sheet

**TCDSN** Type Certificate Data Sheet for Noise

TSO **Technical Standards Order** 

# **II.Type Certificate Holder Record**

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# III.Change Record

Starting with issue 07

Issue	Date	Changes	TC issue
Issue 07	11/10/2011	Section 2-7.III.5 (NG): Addition of engine variants	Issue 02
		Section 2.III.17: Added term "approved" wrt AFM	07/07/2008
		Section 3.II.4: JAR 25.562 added to text CRI D-14	
		Section 3 II.4, 6.II.4, 7.II.4: CRI PTC/E-10 added	
		Section 7.II.3: Paragraph 4.4 MOCs deleted	
		Section 7.II.4: CRI PTC/D-GEN02 added	
		Section "Administrative" added	
Issue 08	03/11/2011	Section 3.II.4 Removal of the duplicate sentence before	
		CRI PTC/E-10.	
		Section 3.III.24 Added Fuel Tank Flammability	
		Reduction System Requirments	
		Section 4.III.24 Added Fuel Tank Flammability	
		Reduction System Requirments	
		Section 5.III.23 Corrected list to sequential numbers	
		Section 5.III.24 Added Fuel Tank Flammability	
		Reduction System Requirments	
		Section 6.II.4 Removal of the duplicate sentence before CRI PTC/E-10.	
		Section 6.III.23 Corrected list to sequential numbers	
		Section 6.III.24 Added Fuel Tank Flammability	
		Reduction System Requirments	
		Section 7.III.24 Added Fuel Tank Flammability	
		Reduction System Requirments	
Issue 09	12/07/2012	Section 1.II.4.and Section 2.II:	_
13346 03	12/01/2012	Introduction of CRI H-01 for ICA on EWIS	
Issue 10	10/01/2014	1st page: The Boeing Company address	
10040 10	10/01/2011	r page. The Beening company addition	
		Section 1.II.3, 3.II 3 JAA Airworthiness requirements:	
		- Change the title to JAA/EASA Airworthiness	
		Requirements	
		Section 3.II.3 JAA Airworthiness requirements:	
		- Change the title to JAA/EASA Airworthiness	
		Requirements	
		- Identification of applicable paragraphs and CRI	
		associated to each NPA.	
		- Correction of applicable paragraph 25.519(b) instead	
		of 25.X519(b)	
		- For the CRI C-11, removal of affected requirement	
		25.310(b)	
		- For the CRI D-14, addition of affected requirement JAR	
		25.813	
		- Addition of two Special Conditions: CRI F-29 and CRI	
		F-30	
		Sections 3. III.12; 4.III.12; 5.III.12; 6.III.12; 7.III.12: All	
		weather capability:	
		Reference to the AFM instead of the category.	
		Therefore to the Ar Willistead of the Category.	
		Section 6.II.3 JAA Airworthiness requirements:	
		- Change the title to JAA/EASA Airworthiness	
		Requirements	
		- Identification of applicable paragraphs and CRI	
		associated to each NPA.	
		- Correction of applicable paragraph 25.519(b) instead	
			1

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# SECTION: ADMINISTRATIVE - continued

Issue	Date	Changes	TC issue
		of 25.X519(b) -For the CRI D-14, addition of affected requirement JAR 25.813 -Addition of two Special Conditions: CRI F-29 and CRI F-30	
		Section 7 II.3 JAA/EASA Airworthiness Requirements -Change the title to JAA/EASA Airworthiness Requirements -For the CRI D-14, addition of affected requirement JAR 25.562 -Addition of two Special Conditions: CRI F-29 and CRI F-30	
Issue 11	14/12/2015	F-30  -Editorial changes to page one -OSD implementation in Sections V -Section 1.II.4: Addition of Special Condition CRIs PTC/E-10, E-15 PTC E-16/PTC and F-GEN10 PTC -Section 1.III.6: Addition of Equivalent Safety Finding CRIs F-GEN 9-1, F-GEN9-3 and G-GEN1 -Section 1.III.13: Updated the maximum weight values to incorporate increases that were approved post type validation -Section 1.III.22: Corrected typo "Oty" to Qty" -Section 2.III. Removed Special Condition CRI H-01 -Section 2.III.9: Corrected "Gall" to "Gallons" -Section 3.II.3.1: Added Reversion CRI A.11-13 -Section 3.II.4: Added Special Conditions CRIs D- GEN02 PTC, E-10, E-16/PTC, PTC F-23, PTC/F-17, PTC/F-18, PTC/F-27, F-31(PTC), F-GEN10 PTC, G-01 and H-01 -Section 3.II.5: Added Deviation CRI PTC D-22 -Section 3.II.6: Added Equivalent Safety Finding CRIs PTC C-14, PTC/D-21, 9ER/D-21, F-GEN 9-1, F-GEN9-3 and G-GEN1 -Section 3.III.13: Corrected the kilogram value of maximum taxi and ramp weight -Section 4.III.6: Added Equivalent Safety Finding CRIs C-15/PTC, F-01 PTC and F-02 PTC -Section 4.III.13: Updated the maximum taxi and ramp weights to incorporate increases that were approved post type validation. Also corrected the kilogram values of each of the certified masses -Section 5.III.13 Updated the maximum weight values to incorporate increases that were approved post type validation -Section 6.II.4: Added Special Condition CRI E-16/PTC, PTC F-23, PTC/F-27, F-31(PTC), F-GEN10 PTC and H-01 Section 6.II.5: Added Deviation CRI PTC D-22 -Section 6.II.6: Added Equivalent Safety Finding CRIs PTC C-14, PTC/D-21, 9ER/D-21, F-GEN 9-1, F-GEN9-3 and G-GEN1 -Section 6.III.3: Updated the maximum landing weight values to incorporate increases that were approved post type validation. Corrected the kilogram value of maximum taxi and ramp, take-off and landing weights.	Issue 02 07/07/2008

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SECTION: ADMINISTRATIVE - continued

Issue	Date	Changes	TC issue
		-Section 7.II.3.1: Corrected the JAR referenced under Reversion CRI A.11-5 from "2571" to "571". Moved	
		CRIs 9ER/F04 and 9ER/C-21 to present them in sequence	
		-Section 7.II.3.2: inserted CRI PTC/G-02	
		-Section 7.II.4: Added Special Condition CRIs F-GEN10 PTC, D-GEN01 PTC, D-GEN02 PTC, E-16/PTC, PTC	
		F-23, F-31(PTC) and H-01	
		-Section 7.II.6: Added Equivalent Safety Finding CRIs C-15/PTC, E-11, F-GEN 9-1, F-GEN9-3, G-GEN1, and	
		9ER/D-21. Moved several CRIs to present the listing in	
		sequence -Section 7.III.13: Corrected each of the kilogram values	
Issue 12	27/03/2017	-Section 8 "737-8" added. To be completed with inputs by CVU	Issue 02 07/07/2008
		-Page1: references to B737-8 and Max series added -Section 4.II.3: B737-800 Winglets affected/non-affected area as per letter B-H320-2000-00472	
		-Sections 3 to 7: applicable OSD requirements detailed in the respective sub-sections II	
Issue 13	28/07/2017	•	Issue 02
		-OSD data: statement "or later approved revisions" added to the document rev. number if mentioned.	07/07/2008
		-F-GEN-11 CRI added to sections 1.II, 3.II, 6.II and 7.II -clarification about F-GEN10 PTC applicability added in	
		sections 1.II, 3.II, 6.II and 7.II	
		-typos corrected	
Issue 14	12/04/2018	model and 4.2 for the B737-800 BCF significant major change	Issue 02 07/07/2008
		- Section 2.V OSD requirements explicitly stated Section 8: III.13 Weights corrected (metric values)	
Issue 15	13/09/2018		Issue 02 07/07/2008
		- Minimum Cabin Crew indications added in section III.19 for models -300/-400/-500/-600/-700/-900 and	07/07/2008
		-900ER - FAA postal address updated	
		- Lower Cabin Altitude Notes added in Section VI of B737-700/-800/-900ER/-8	
Issue 16	05/10/2018	- B737-9 Model added in Section 8	Issue 02
		<ul><li>former "Section 9" renumbered to "Section 8"</li><li>B737-9 certification basis integrated in Table A of Appendix A</li></ul>	07/07/2008
		Appendix A	
Issue 17	17/10/2018		lssue 02 07/07/2008

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# Appendix A **Detailed Certification Basis of the** <u>737-8/-9</u>

# TABLE A - 737-8/-9 CERTIFICATION BASIS

CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.1	Applicability	CS 11	CS 12	■ 737-8/-9 Airplane	
25.2	Removed [Special retroactive requirements]	N/A	N/A		Not applicable
25.20	Scope	CS 11	CS 12	■ 737-8/-9 Airplane	
25.21	Proof of Compliance	<b>-</b>	•		ciated CRI: B-07/MAX (Reversion) -9 Associated CRI: same as 737-8
	25.21	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.21(g)(1)	See CRI B- 07/MAX	See CRI B- 07/MAX	■ 737-8/-9 Airplane	
25.23	Load distribution limits	CS 11	CS 12	■ 737-8/-9 Airplane	
25.25	Weight limits	CS 11	CS 12	■ 737-8/-9 Airplane	
25.27	Center of gravity limits	CS 11	CS 12	■ 737-8/-9 Airplane	
25.29	Empty weight and corresponding center of gravity	CS 11	CS 12	■ 737-8/-9 Airplane	
25.31	Removable ballast	CS 11	CS 12	■ 737-8/-9 Airplane	
25.33	Propeller speed and pitch limits	N/A	N/A		Not applicable
25.101	General (Performance)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.103	Stall speed	CS 11	CS 12	■ 737-8/-9 Airplane	
25.105	Take-off	CS 11	CS 12	■ 737-8/-9 Airplane	
25.107	Take-off speeds	CS 11	CS 12	■ 737-8/-9 Airplane	
25.109	Accelerate-stop distance	CS 11	CS 12	■ 737-8/-9 Airplane	
25.111	Take-off path	CS 11	CS 12	■ 737-8/-9 Airplane	
25.113	Take-off distance and take-off run	CS 11	CS 12	■ 737-8/-9 Airplane	
25.115	Take-off flight path	CS 11	CS 12	■ 737-8/-9 Airplane	
25.117	Climb: general	CS 11	CS 12	■ 737-8/-9 Airplane	
25.119	Landing climb: All- engines- operating	CS 11	CS 12	■ 737-8/-9 Airplane	
25.121	Climb: One engine- inoperative	CS 11	CS 12	■ 737-8/-9 Airplane	
25.123	En route flight paths	<b>-</b>	1		Associated CRI: B-06/MAX (ESF) -9 Associated CRI: same as 737-8
	25.123	CS 11	CS 12	■ 737-8/-9 Airplane	
25.125	Landing				ciated CRI: B-07/MAX (Reversion) -9 Associated CRI: same as 737-8
	25.125	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.125(b)(2)(ii)(B)	See CRI B-07/MAX	See CRI B-07/MAX	■ 737-8/-9 Airplane	
25.143	General (Controllability and Maneuve	rability)	•		ciated CRI: B-07/MAX (Reversion) -9 Associated CRI: same as 737-8

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
	25.143	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.143(c)	N/A	N/A	■ 737-8/-9 Airplane	
	25.143(j)	See CRI B-07/MAX	See CRI B-07/MAX	■ 737-8/-9 Airplane	
25.145	Longitudinal control	CS 11	CS 12	■ 737-8/-9 Airplane	
25.147	Directional and lateral control	CS 11	CS 12	■ 737-8/-9 Airplane	
25.149	Minimum control speed	CS 11	CS 12	■ 737-8/-9 Airplane	
25.161	Trim				B Associated CRI: B-05/MAX (ESF) 7-9 Associated CRI: same as 737-8
	25.161	CS 11	CS 12	■ 737-8/-9 Airplane	
25.171	General.(Stability)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.173	Static longitudinal stability	CS 11	CS 12	■ 737-8/-9 Airplane	
25.175	Demonstration of static longitudinal stability	CS 11	CS 12	■ 737-8/-9 Airplane	
25.177	Static directional and lateral stability	CS 11	CS 12	■ 737-8/-9 Airplane	
25.181	Dynamic stability	CS 11	CS 12	■ 737-8/-9 Airplane	
25.201	Stall demonstration	CS 11	CS 12	■ 737-8/-9 Airplane	
25.203	Stall characteristics	CS 11	CS 12	■ 737-8/-9 Airplane	
25.205	Removed [Stalls: critical engine inoperative]	N/A	Does not exist		Not applicable
25.207	Stall warning				ociated CRI: B-07/MAX (Reversion) 7-9 Associated CRI: same as 737-8
	25.207	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.207(e)	CS 2, See CRI B- 07/MAX (see note)	CS 2, See CRI B- 07/MAX (see note)	■ 737-8/-9 Airplane	Note: CS 2 for non-icing aspects and CRI B-07/MAX for flight in icing aspects
	25.207(f), (h), (i)	N/A	N/A	■ 737-8/-9 Airplane	
25.231	Longitudinal stability and control	CS 11	CS 12	■ 737-8/-9 Airplane	
25.233	Directional stability and control	CS 11	CS 12	■ 737-8/-9 Airplane	
25.235	Taxiing condition	CS 11	CS 12	■ 737-8/-9 Airplane	
25.237	Wind velocities	CS 11	CS 12	■ 737-8/-9 Airplane	
25.251	Vibration and buffeting	CS 11	CS 12	■ 737-8/-9 Airplane	
25.253	High-speed characteristics	•			ociated CRI: B-07/MAX (Reversion) 7-9 Associated CRI: same as 737-8
	25.253	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.253(c)	See CRI B-07/MAX	See CRI B-07/MAX	■ 737-8/-9 Airplane	
25.255	Out-of-trim characteristics	CS 11	CS 12	■ 737-8/-9 Airplane	
25.261	Removed [Flight in rough air]	N/A	N/A		Not applicable
25.301	Loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.302	Interaction of systems and	CS 11	CS 12	■ 737-8/-9 Airplane	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.303	Factor of safety			No change except	for re-designation from JAR to CS
	25.303	CS 11	CS 12	■ 737-8/-9 Airplane	
25.305	Strength and deformation			elect-to-comply only ap	305(d). 737-700 CRI C-05 voluntary plied to 25.305(e),(f) for the 737-800 her apply to this exception proposal.
	25.305	CS 11	CS 12	■ 737-8/-9 Airplane	
25.307	Proof of structure	CS 11	CS 12	■ 737-8/-9 Airplane	
25.321	General (Flight Loads)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.331	Symmetric Manoeuvering conditions	•	l		Associated CRI: C-02/MAX (SC/IM) 7-9 Associated CRI: same as 737-8
	25.331	CS 11 with 25.331(c) at CS 13	CS 12 with 25.331(c) at CS 13	■ 737-8/-9 Airplane	
25.333	Flight Manoeuvering envelope	CS 11 with 25.333(b) at CS 13	CS 12 with 25.333(b) at CS 13	■ 737-8/-9 Airplane	
25.335	Design airspeeds	CS 11	CS 12	■ 737-8/-9 Airplane	
25.337	Limit maneuvering load factors	CS 11	CS 12	■ 737-8/-9 Airplane	
25.341	Gust and Turbulence Loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.343	Design fuel and oil loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.345	High lift devices	CS 11	CS 12	■ 737-8/-9 Airplane	
25.349	Rolling conditions	1	I		Associated CRI: C-02/MAX (SC/IM) 7-9 Associated CRI: same as 737-8
	25.349	CS 11 with 25.349(a) at CS 13	CS 12 with 25.349(a) at CS 13	■ 737-8/-9 Airplane	
25.351	Yaw Manoeuver conditions				Associated CRI: C-02/MAX (SC/IM) 7-9 Associated CRI: same as 737-8
	25.351	CS 13	CS 13	■ 737-8/-9 Airplane	
25.361	Engine and auxiliary power unit torque	CS 11	CS 12	■ 737-8/-9 Airplane	
25.362	Engine Failure Loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.363	Side Load on Engine and APU Mounts	CS 11	CS 12	■ 737-8/-9 Airplane	
25.365	Pressurized compartment loads	<del>_</del>			ciated CRIs: C-03/MAX (Reversion) 7-9 Associated CRI: same as 737-8
	25.365	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below	
	25.365(e)(1)	See CRI C- 03/MAX	See CRI C- 03/MAX	■ 737-8/-9 Airplane	Note: 737-800 JAR 25.365 at FAR 0 (per 737- 700 CRI A.11-02) and 25.365(e)(1) did not exist at FAR Amdt 25-0.  Note: 737-900ER JAR 25.365 at FAR 0 (per 737-900 CRI 9ER / A.11-01, 737-900 CRI 9ER/C-19) and 25.365(e)(1) did not exist at FAR Amdt 25-0.
25.367	Unsymmetrical loads due to engine failure	CS 11	CS 12	■ 737-8/-9 Airplane	
25.371	Gyroscopic loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.373	Speed control devices	CS 11	CS 12	■ 737-8/-9 Airplane	
25.391	Control surface loads: general	CS 11	CS 12	■ 737-8/-9 Airplane	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.393	Loads parallel to hinge line	CS 11	CS 12	■ 737-8/-9 Airplane	
25.395	Control system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.397	Control system loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.399	Dual control system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.405	Secondary control system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.407	Trim tab effects	N/A	N/A		Not applicable – the tabs are not used to control airplane trim
25.409	Tabs	CS 11	CS 12	■ 737-8/-9 Airplane	
25.415	Ground gust conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.427	Unsymmetrical loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.445	Outboard fins	CS 11	CS 12	■ 737-8/-9 Airplane	
25.457	Wing flaps	CS 11	CS 12	■ 737-8/-9 Airplane	
25.459	Special devices	CS 11	CS 12	■ 737-8/-9 Airplane	
25.471	General (Ground Loads)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.473	Landing load conditions and assumptions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.477	Landing gear arrangement	CS 11	CS 12	■ 737-8/-9 Airplane	
25.479	Level landing conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.481	Tail-down landing conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.483	One- gear landing conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.485	Side load conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.487	Rebound landing condition	CS 11	CS 12	■ 737-8/-9 Airplane	
25.489	Ground handling conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.491	Taxi, Takeoff and Landing Roll	CS 11	CS 12	■ 737-8/-9 Airplane	
25.493	Braked roll conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.495	Turning	CS 11	CS 12	■ 737-8/-9 Airplane	
25.497	Tail-wheel yawing	N/A	N/A		Not applicable
25.499	Nose-wheel yaw and steering	CS 11	CS 12	■ 737-8/-9 Airplane	
25.503	Pivoting	CS 11	CS 12	■ 737-8/-9 Airplane	
25.507	Reversed braking	CS 11	CS 12	■ 737-8/-9 Airplane	
25.509	Towing loads	CS 11	CS 12	■ 737-8/-9 Airplane	
25.511	Ground load: unsymmetrical loads on multiple-wheel units	CS 11	CS 12	■ 737-8/-9 Airplane	
25.519	Jacking & Tie-Down Provisions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.561	General (Emergency Landing Conditions)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.562	Emergency landing dynamic conditions		Note: Per Cexcept 25.56	737-8 Associated CRIs: D-15/MAX 737-9 Associated CRIs: same as -8 CRI D-15/MAX (SC), seats must cor 62(c)(5),(c)(6); therefore, the requir 1,(c)(6) for Passenger Seats in the	plus 9ER/A.11-04 (NG)(Reversion)  mply with JAR 25.562 Change 13  mement is "N/A" for

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
	25.562	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.562(c)(5), (c)(6)	N/A 737-700 CRI A.11-04	N/A 737-900ER CRI 9ER/ A.11-04	Interiors: Passenger Seats	
25.563	Structural ditching provisions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.571	Damage-tolerance and fatigue evaluation of structure.	CS 11	CS 12	■ 737-8/-9 Airplane	
25.581	Lightning protection	•			8 Associated CRIs:F-03 (NG)(SC) -9 Associated CRI: same as 737-8
	25.581	CS 11	CS 12	■ 737-8/-9 Airplane	
25.601	General (Design and Construction)			737-8 Associated CRIs: F-G	for re-designation from JAR to CS. EN-11 (SC), PTC F-29 (NG) (SC) -9 Associated CRI: same as 737-8
	25.601	CS 11	CS 12	■ 737-8/-9 Airplane	
25.603	Materials	CS 11	CS 12	■ 737-8/-9 Airplane	
25.605	Fabrication methods	CS 11	CS 12	■ 737-8/-9 Airplane	
25.607	Fasteners	•			d CRIs: A.11-06 (NG) (Reversion) 9 Associated CRI: same as 737-8
	25.607	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.607(a)	737-700 CRI A.11- 06	737-700 CRI A.11 -06	Systems – Flight Controls:  Aileron Actuator, Aileron Trim Actuator Elevator Actuator, Elevator, Rudder, Stabilizer, Captain Lateral Body and Wing Aileron Cable Runs Elevator Tab Mechanism Lateral Feel and Centering Unit Stabilizer input arm to Elevator Feel Computer	
25.609	Protection of structure			No change except f	for re-designation from JAR to CS.
	25.609	CS 11	CS 12	■ 737-8/-9 Airplane	
25.611	Accessibility provisions	•	•		
	25.611	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.611(b)	N/A	N/A	Interiors: EWIS components integral to the following interior design area: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.613	Material strength properties and Material Design Values	CS 11	CS 12	■ 737-8/-9 Airplane	
25.615	Removed [Design properties]	N/A	Does not exist		Not applicable
25.619	Special factors			No change except for	re-designation from JAR to CS

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
	25.619	CS 11	CS 12	■ 737-8/-9 Airplane	
25.621	Casting factors	CS 11	CS 12	■ 737-8/-9 Airplane	
25.623	Bearing factors			No change except for	re-designation from JAR to CS.
	25.623	CS 11	CS 12	■ 737-8/-9 Airplane	
25.625	Fitting factors	CS 11	CS 12	■ 737-8/-9 Airplane	
25.629	Aeroelastic stability requirements	CS 11	CS 12	■ 737-8/-9 Airplane	
25.631	Bird Strike Damage	CS 11	CS 12	■ 737-8/-9 Airplane	
25.651	Proof of strength	CS 11	CS 12	■ 737-8/-9 Airplane	
25.655	Installation	CS 11	CS 12	■ 737-8/-9 Airplane	
25.657	Hinges	CS 11	CS 12	■ 737-8/-9 Airplane	
25.671	General (Control Systems)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.672	Stability Augmentation and Automatic and Power-operated Systems	CS 11	CS 12	■ 737-8/-9 Airplane	
25.675	Stops	CS 11	CS 12	■ 737-8/-9 Airplane	
25.677	Trim systems	CS 11	CS 12	■ 737-8/-9 Airplane	
25.679	Control system gust locks	CS 11	CS 12	■ 737-8/-9 Airplane	
25.681	Limit load static tests	CS 11	CS 12	■ 737-8/-9 Airplane	
25.683	Operation tests	CS 11	CS 12	■ 737-8/-9 Airplane	
25.685	Control system details	CS 11	CS 12	■ 737-8/-9 Airplane	
25.689	Cable systems	1	I.	No change except	for re-designation from JAR to CS.
	25.689	CS 11	CS 12	■ 737-8/-9 Airplane	
25.693	Joints	CS 11	CS 12	■ 737-8/-9 Airplane	
25.697	Lift and Drag devices, controls	CS 11	CS 12	■ 737-8/-9 Airplane	
25.699	Lift and Drag device indicator	CS 11	CS 12	■ 737-8/-9 Airplane	
25.701	Flap and slat interconnection	CS 11	CS 12	■ 737-8/-9 Airplane	
25.703	Take-off Warning System	CS 11	CS 12	■ 737-8/-9 Airplane	
25.721	General (Landing Gear)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.723	Shock absorption tests	CS 11	CS 12	■ 737-8/-9 Airplane	
25.729	Retracting mechanism	CS 11	CS 12	■ 737-8/-9 Airplane	
25.731	Wheels	CS 11	CS 12	■ 737-8/-9 Airplane	
25.733	Tires	CS 11	CS 12	■ 737-8/-9 Airplane	
25.735	Brakes and braking systems	•	•		
	25.735	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below	
	25.735	JAR 13, JAR 15 (see note)	JAR 14, JAR 15 (see note)	Mech/Hyd – Landing Gear Systems:  Mechanical Brake Control System including Antiskid/Auto brake	Note: Within the brake control system, only the brake hydraulic system flow limiter and parking brake demonstration is certified to JAR 15.
25.745	Nose-wheel steering	1	<u> </u>		ociated CRI: D-04/MAX (SC/MOC) -9 Associated CRI: same as 737-8
	25.745	CS 11	CS 12	■ 737-8/-9 Airplane	

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	ECTION: Appendix A – contir				
CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.771	Pilot compartment	CS 11	CS 12	■ 737-8/-9 Airplane	
25.772	Pilot compartment doors	CS 11	CS 12	■ 737-8/-9 Airplane	
25.773	Pilot compartment view				
	25.773	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.773(b)	JAR 13	JAR 15	Environmental Control System: Windshield Wipers System	
	25.773(b),(c)	JAR 13	JAR 15	Environmental Control System: Window Heat System	
25.775	Windshield and windows	-			tted CRI: A.11-23 (NG)(Reversion) -9 Associated CRI: same as 737-8
	25.775	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.775(d)	737-700 CRI A.11- 23	737-700 CRI A.11- 23	Transparencies:  Flight Deck #1 Window Flight Deck #2 Window Flight Deck #3 Window Integrated Door Windows Passenger Window	
25.777	Cockpit controls				Associated CRI: D-18/MAX (ESF) -9 Associated CRI: same as 737-8
	25.777	CS 11	CS 12	■ 737-8/-9 Airplane	
25.779	Motion and effect of cockpit controls	CS 11	CS 12	■ 737-8/-9 Airplane	
25.781	Cockpit control knob shape	CS 11	CS 12	■ 737-8/-9 Airplane	
25.783	Fuselage Doors		applies to JAA/737-9 737-8 Ass	CRI A.11-11 applies to JAR 25.783(i) JAR 25.783(f) for AOE only. 100ER/ESF/9ER/D-16 applies to JA 100CER/ESF/9ER/D-116 applies to JA 100CER/ESF/9ER/D-116 applies to JA 100CER/ESF/9ER/D-116 applies to JAP 100CER/SESF/9ER/D	R 25.783 for MED only.
	25.783	CS 11	CS 12	Doors: ■ Forward Access Door	
	25.783	JAR 13	JAR 15	Doors:  Airstair Door  EE Access Door  Automatic Overwing Exit (AOE) Door  Mid Exit Door (MED) (-9 only)  EE Subsystems:  PSEU / Fuselage Doors	
	25.783	N/A	N/A	Transparencies: ■ Flight Deck #2 Window	
	25.783(a),(b),(h)	JAR 13	JAR 15	Interiors: - Emergency Exits	
	25.783 except 25.783(f)	JAR 13	JAR 15	Doors: Forward/Aft Cargo Door Forward/Aft Entry Door Forward/Aft Galley Door	
	25.783(f)	N/A (737-700 CRI A.11-11) (see note)	N/A (737-700 CRI A.11-11) (see note)	Doors: Forward/Aft Cargo Door Forward/Aft Entry Door Forward/Aft Galley Door	<b>Note:</b> JAR 25.783(f) at Change 10 is N/A at FAR 15 (737-700 CRI A.11-11)

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CS-	ECTION: Appendix A – continu				
25Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
	25.783(g)	N/A	N/A	Doors:  External Access Door, Lavatory Service Panel, Water Service Door, Access and Blowout Door, ECS Access Door	
25.785	Seats, berths, safety belts, and harnesses			737-8 Associated CRI: A.11-13 (N 737-9 Associated CRI: same as 73	
	25.785	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.785(b)	CS 13	CS 13	Interiors:  Medical Stretcher	
25.787	Stowage compartments			No change except for	or re-designation from JAR to CS.
	25.787	CS 11	CS 12	■ 737-8/-9 Airplane	
25.789	Retention of items of mass in passenger and crew compartment and galleys			No change except f	for re-designation from JAR to CS.
	25.789	CS 11	CS 12	■ 737-8/-9 Airplane	
25.791	Passenger information signs and placards				Associated CRI: PTC/D-23 (ESF) 9 Associated CRI: same as 737-8
	25.791	CS 11	CS 12	■ 737-8/-9 Airplane	
25.793	Floor surfaces			No change except f	for re-designation from JAR to CS
	25.793	CS 11	CS 12	■ 737-8/-9 Airplane	
25.795	Security consideration				Introduced at JAR Change 16.
	25.795	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>	
	25.795(b)(1)		N/A	737-9 Airplane: Security considerations (flight deck smoke protection)	
	25.795(c)(2)	N/A	N/A	737-8/-9 Airplane: Security considerations (survivability of systems)	
	25.795(c)(3)(i), (c)(3)(iii)	N/A	N/A	■ 737-8/-9 Airplane	
25.799	Removed [Water systems]	N/A	N/A		Not applicable
25.801	Ditching	CS 11	CS 12	■ 737-8/-9 Airplane	
25.803	Emergency evacuation	CS 11	CS 12	■ 737-8/-9 Airplane	
25.807	Emergency exits				Reference: NPA 25C,D,F-314. D-15/MAX (SC), D-17 (NG) (ESF) Associated CRIs: same as 737-8
	25.807	JAR 13 OP 93/1	JAR 15	■ 737-8/-9 Airplane	
25.809	Emergency exit arrangement	JAR 13 (see note)	JAR 15	■ 737-8/-9 Airplane	Note: JAR 25.809(f) and (h) at Change 13 moved to JAR 25.810(a) and (d) at Change 14 and it is now in CS 25.810(a) and (d)
25.810	Emergency egress assist means and escape routes	, ,	Note: CF	700/ESF/D-08 applies to CS 25.810 RI D-08 was issued against JAR 25 ever, to harmonize with the FAA, th JAR 25.810(a)(1)(ii) at Change 14	.809(f)(1)(ii) Change 13, originally. e same requirement was moved to which is now in CS25.810(a)(1)(ii).
					Associated CRI: D-08 (NG) (ESF) ociated CRI: 9ER/D-08 (NG)(ESF)
	25.810	CS 11	CS 12	■ 737-8/-9 Airplane	

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CS- 25Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.811	Emergency exit marking		7	737-8 Associated CRIs: 9ER/D-21 (N 737-	NG)(ESF) , PTC/D-19 (NG) (ESF) 9 Associated CRI: same as 737-8
	25.811	CS 11	CS 12	■ 737-8/-9 Airplane	
25.812	Emergency lighting	CS 11	CS 12	■ 737-8/-9 Airplane	
25.813	Emergency exit access and ease of operation	-	OP 93/1		igraph and 25.813(a) and (b) only. Associated CRI: D-15/MAX (SC) 3 737-8 plus 9ER/D-20 (NG)(ESF)
	25.813	JAR 13 OP 93/1	JAR 15	■ 737-8/-9 Airplane	
25.815	Width of aisle	CS 11	CS 12	■ 737-8/-9 Airplane	
25.817	Maximum number of seats abreast	I		No change except for	re-designation from JAR to CS
	25.817	CS 11	CS 12	■ 737-8/-9 Airplane	
25.819	Lower deck service compartments (including galleys)	N/A	N/A	·	Not applicable
25.820	Lavatory Doors	CS 11	CS 12	■ 737-8/-9 Airplane	
25.831	Ventilation				Associated CRI: D-17/MAX (ESF) 9 Associated CRI: same as 737-8
	25.831	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.831(b),(c)	JAR 13	JAR 15	Environmental Control System:  Advisory Ice Detection System Cargo Smoke Detection System Ice/Rain Protection – Air Data Sensor Heat System Window Heat System Windshield Wipers System	
25.832	Cabin ozone concentration	CS 11	CS 12	■ 737-8/-9 Airplane	
25.833	Combustion Heating systems	N/A	N/A		Not applicable
25.841	Pressurized cabins	CS 11	CS 12	■ 737-8/-9 Airplane	
25.843	Tests for pressurized cabins	CS 11	CS 12	■ 737-8/-9 Airplane	
25.851	Fire extinguishers				
	25.851	CS 11		■ 737-8 Airplane	
	25.851		CS 12	737-9 Airplane except as noted below	
	25.851(a)		CS 11	Flight Deck: Miscellaneous/Emergency Equipment Fire Extinguisher Installation Interiors: Portable Emergency Equipment and Life Line	
	25.851(c)		N/A	Flight Deck: Miscellaneous/Emergency Equipment Fire Extinguisher Installation Interiors: Portable Emergency Equipment and Life Line Lavatories	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes		
25.853	Compartment Interiors				ed CRI: D-GEN02/PTC (SC/MOC) 9 Associated CRI: same as 737-8		
	25.853	CS 11	CS 12	■ 737-8/-9 Airplane			
25.854	Lavatory fire protection	L			Introduced at JAR Change 14		
	25.854	CS 11	CS 12	■ 737-8/-9 Airplane			
25.855	Cargo or baggage compartments				Associated CRI: D-17/MAX (ESF) 9 Associated CRI: same as 737-8		
	25.855	CS 11	CS 12	■ 737-8/-9 Airplane			
25.856	Thermal/acoustic Insulation materials	CS 11	CS 12	■ 737-8/-9 Airplane			
25.857	Cargo compartment classification	L	1		Associated CRI: D-17/MAX (ESF) 9 Associated CRI: same as 737-8		
	25.857	CS 11	CS 12	■ 737-8/-9 Airplane			
25.858	Cargo or baggage compartment smoke or fire detection systems				Associated CRI: D-17/MAX (ESF) 9 Associated CRI: same as 737-8		
	25.858	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>			
	25.858	JAR 13	JAR 15	Environmental Control System: Cargo Smoke Detection System			
25.859	Combustion heater fire protection	N/A	N/A	,	Not applicable		
25.863	Flammable fluid fire protection 737-8 Associated CRIs: E-33/MAX (ESF), F-GEN-11 (SC), PTC F-29 (NG) (SC) 737-9 Associated CRIs: same as 737-8						
	25.863	CS 11	CS 12	737-8/-9 Airplane except as noted below			
	25.863(a), (b)(3)	JAR 13	JAR 15	Environmental Control System: Advisory Ice Detection System Cargo Smoke Detection System Ice/Rain Protection - Air Data Sensor Heat System RAM Air System, Inlet and Exhaust Ducts Window Heat System Windshield Wipers System			
25.865	Fire Protection of Flight Controls, Engine and Other Flight Structure	Mounts			Associated CRI: J-03/MAX (ESF) 9 Associated CRI: same as 737-8		
	25.865	CS 11	CS 12	■ 737-8/-9 Airplane			
25.867	Fire protection: other components	1	1		I Associated CRI: E-24/MAX (ESF) 9 Associated CRI: same as 737-8		
	25.867	CS 11	CS 12	■ 737-8/-9 Airplane			
25.869	Fire protection: systems	<u> </u>	I	1	Introduced at JAR Change 14.		
	25.869	CS 11	CS 12	737-8/-9 Airplane except as noted below	-		

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CS-25 Section No.	ECTION: Appendix A – continue  Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
	25.869(a)(1)	N/A	JAR 15	Environmental Control System:  Advisory Ice Detection System Cargo Smoke Detection System  Ice/Rain Protection – Air Data Sensor Heat System RAM Air System, Inlet and Exhaust Ducts Window Heat System Windshield Wipers System	
	25.869(a)(3)	N/A	N/A	Interiors: EWIS components integral to the following interior design area: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.  In lieu of compliance to 25.869(a)(3) and 25.1713, compliance to 25.869(a)(4) [JAR 15] may be shown for the noted areas.
	25.869(a)(4)	JAR 15	JAR 15	Interiors: EWIS components integral to the following Interiors design area: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.871	Leveling means	CS 11	CS 12	■ 737-8/-9 Airplane	
25.875	Reinforcement near propellers	N/A	N/A		Not applicable
25.899	Electrical bonding and protection against static electricity			13. It was r 737-8 Associated CRIs: E-3	titled JAR 25X899 at JAR Change e-designated to 25.899 at JAR 16. 1/MAX (Deviation), F-03 (NG)(SC) 9 Associated CRIs: same as 737-8
	25.899	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25X899	JAR 13	JAR 15	Avionics:  Cockpit Voice Recorder (CVR) System  Environmental Control System:  Advisory Ice Detection System  Cargo Smoke Detection System  Ice/Rain Protection – Air Data Sensor Heat System  Ram Air System Inlet and Exhaust Ducts  Window Heat System  Windshield Wipers System  Flight Controls/Flight Deck: Instruments: Floodlights  Mech/Hyd – Landing Gear Systems:  Mechanical Brake Control System including Antiskid/Auto brake	

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CS-25 Section No.	<b>Title</b> (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes	
25.901	Installation			29/MAX (ESF), E-30/MAX (E-30/MAX)	/MAX (SC), E-27/MAX (SC/IM), E- (Deviation), E-31/MAX (Deviation), 32/MAX (SC/IM), E-33/MAX (ESF) -9 Associated CRI: same as 737-8	
	25.901	CS 11	CS 12	■ 737-8/-9 Airplane	Note: Deviation E-30/MAX applies to 25.901(b)(2) and 25.901(c). Deviation E-31/MAX applies to 25.901(c).	
25.903	Engines				7/MAX (SC/IM), E-32/MAX (SC/IM) -9 Associated CRI: same as 737-8	
	25.903	CS 11	CS 12	■ 737-8/-9 Airplane		
25.904	Automatic takeoff thrust control system (ATTCS)	N/A	N/A		Not applicable	
25.905	Propellers	N/A	N/A		Not applicable	
25.907	Propeller vibration	N/A	N/A		Not applicable	
25.925	Propeller clearance	N/A	N/A		Not applicable	
25.929	Propeller deicing	N/A	N/A		Not applicable	
25.933	Reversing systems	CS 11	CS 12	■ 737-8/-9 Airplane		
25.934	Turbojet engine thrust reverser system tests 737-8 Associated CRI: E-1 737-9 Associated CRI: s					
	25.934	CS 11	CS 12	■ 737-8/-9 Airplane		
25.937	Turbo propeller-drag limiting systems	N/A	N/A		Not applicable	
25.939	Turbine engine operating characteristics	CS 11	CS 12	■ 737-8/-9 Airplane		
25.941	Inlet, engine, and exhaust compatibility	N/A	N/A		Not applicable	
25.943	Negative acceleration	CS 11	CS 12	■ 737-8/-9 Airplane		
25.945	Thrust or power augmentation system	N/A	N/A		Not applicable	
25.951	General (Fuel System)	CS 11	CS 12	■ 737-8/-9 Airplane		
25.952	Fuel system analysis and test	CS 11	CS 12	■ 737-8/-9 Airplane		
25.953	Fuel system independence	CS 11	CS 12	■ 737-8/-9 Airplane		
25.954	Fuel system lightning protection			737-8 737	3 Associated CRIs: F-03 (NG) (SC) -9 Associated CRI: same as 737-8	
	25.954	CS 11	CS 12	■ 737-8/-9 Airplane		
25.955	Fuel flow	CS 11	CS 12	■ 737-8/-9 Airplane		
25.957	Flow between interconnected tanks	CS 11	CS 12	■ 737-8/-9 Airplane		
25.959	Unusable fuel supply	CS 11	CS 12	■ 737-8/-9 Airplane		
25.961	Fuel system hot weather operation	CS 11	CS 12	■ 737-8/-9 Airplane		
25.963	Fuel tanks: general	CS 11	CS 12	■ 737-8/-9 Airplane		
25.965	Fuel tank tests	CS 11	CS 12	■ 737-8/-9 Airplane		
25.967	Fuel tank installations	CS 11	CS 12	■ 737-8/-9 Airplane		
25.969	Fuel tank expansion space	CS 11	CS 12	■ 737-8/-9 Airplane		
25.971	Fuel tank sump	CS 11	CS 12	■ 737-8/-9 Airplane		
25.973	Fuel tank filler connection	CS 11	CS 12	■ 737-8/-9 Airplane		
25.975	Fuel tank vents	CS 11	CS 12	■ 737-8/-9 Airplane		

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.977	Fuel tank outlet	CS 11	CS 12	■ 737-8/-9 Airplane	
25.979	Pressure Fuelling System				8 Associated CRI: E-09 (NG) (ESF) as 737-8 plus E-36/MAX (deviation)
	25.979	CS 11	CS 12	■ 737-8/-9 Airplane	Note: Deviation E-36/MAX applies to 25.979(b)(2).
25.981	Fuel tank ignition prevention				/MAX (ESF), E-31/MAX (Deviation), E-33/MAX (ESF) -9 Associated CRIs: same as 737-8
	25.981	CS 11	CS 12	■ 737-8/-9 Airplane	Note: Deviation E-31/MAX applies to 25.981(a)(3).
25.991	Fuel pumps	CS 11	CS 12	■ 737-8/-9 Airplane	
25.993	Fuel system lines and fittings	CS 11	CS 12	■ 737-8/-9 Airplane	
25.994	Fuel System Components	CS 11	CS 12	■ 737-8/-9 Airplane	
25.995	Fuel valves	CS 11	CS 12	■ 737-8/-9 Airplane	
25.997	Fuel strainer or filter				8 Associated CRI: E-20/MAX (ESF) 7-9 Associated CRI: same as 737-8
	25.997	CS 11	CS 12	■ 737-8/-9 Airplane	
25.999	Fuel system drains	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1001	Fuel jettisoning system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1011	General (Oil System)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1013	Oil tank	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1015	Oil tank tests	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1017	Oil lines and fittings	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1019	Oil strainer or filter	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1021	Oil system drains	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1023	Oil radiators	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1025	Oil valves	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1027	Propeller feathering system	N/A	N/A	•	Not applicable
25.1041	General (Cooling)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1043	Cooling tests	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1045	Cooling test procedures	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1091	Air intake	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1093	Air intake system deicing and anti-icing provisions	l			Associated CRI: F-11/MAX (SC/IM) 37-9 Associated CRI: same as 737-8
	25.1093	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1103	Air Intake system ducts and air duct systems				s: E-22/MAX (ESF), E-33/MAX (ESF) 37-9 Associated CRI: same as 737-8
	25.1103	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1121	General (Exhaust System)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1123	Exhaust piping	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1141	Powerplant controls: general	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1143	Engine Controls	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1145	Ignition switches	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1149	Propeller speed and pitch controls	N/A	N/A	•	Not applicable
25.1153	Propeller feathering controls	N/A	N/A	•	Not applicable
25.1155	Reverse thrust and propeller pitch settings below the flight regime	CS 11	CS 12	■ 737-8/-9 Airplane	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes			
25.1161	Fuel jettisoning system controls	N/A	N/A		Not applicable			
25.1163	Powerplant accessories	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1165	Engine ignition systems 737-8 Associated CRIs: E-22/MAX (ESF) 737-9 Associated CRIs: same as 737-8							
	25.1165	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1167	Accessory gearboxes	N/A	N/A		Not applicable			
25.1181	Designated fire zones: regions included	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1182	Nacelle areas behind firewalls, and engin attaching structures containing flammabl				E-10/MAX (ESF), E-22/MAX (ESF) -9 Associated CRIs: same as 737-8			
	25.1182	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1183	Flammable fluid-carrying components				: E-10/MAX (ESF), E-22/MAX (ESF) 7-9 Associated CRIs: same as 737-8			
	25.1183	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1185	Flammable fluids				-8 Associated CRI: E-22/MAX (ESF) 37-9 Associated CRI: same as 737-8			
	25.1185	CS11	CS 12	■ 737-8/-9 Airplane				
25.1187	Drainage and ventilation of fire zones	1	1		-8 Associated CRI: E-22/MAX (ESF) 87-9 Associated CRI: same as 737-8			
	25.1187	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1189	Shutoff means				-8 Associated CRI: E-22/MAX (ESF) 87-9 Associated CRI: same as 737-8			
	25.1189	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1191	Firewalls				-8 Associated CRI: E-28/MAX (ESF) 37-9 Associated CRI: same as 737-8			
	25.1191	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1193	Cowling and nacelle skin  737-8 Associated CRIs: E-05/MAX (SC), E-30/MAX (Deviation 737-9 Associated CRIs: same as 737							
	25.1193	CS 11 with 25.1193(e)( 3) at CS 13	CS 12 with 25.1193(e)( 3) at CS 13	■ 737-8/-9 Airplane	Note: Deviation E-30/MAX applies to CRI E-05/MAX (ref. 25.1193(f)(3)).			
25.1195	Fire extinguisher systems			737-8 Associated CRIs: E	E-22/MAX (ESF), E-32/MAX (SC/IM) 37-9 Associated CRIs: same as 737-8			
	25.1195	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1197	Fire extinguishing agents				-8 Associated CRI: E-22/MAX (ESF) 37-9 Associated CRIs: same as 737-8			
	25.1197	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1199	Extinguishing agent containers				-8 Associated CRI: E-22/MAX (ESF) 737-9 Associated CRI: same as 737-8			
	25.1199	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1201	Fire extinguishing system materials				-8 Associated CRI: E-22/MAX (ESF) 87-9 Associated CRI: same as 737-8			
	25.1201	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1203	Fire-detector system				-8 Associated CRI: E-22/MAX (ESF) 737-9 Associated CRI: same as 737-8			
	25.1203	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1207	Compliance	CS 11	CS 12	■ 737-8/-9 Airplane				
25.1301	Function and installation	737	-8 Associated		7 (NG)(SC), PTC/F-27 (NG)(SC/IM) as 737-8 plus 9ER/D-20 (NG)(ESF)			
	25.1301	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below				

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No.	Amdt	Amdt		
25.1301 25.1301 25.1301	JAR 13	JAR 15	Avionics:  Airborne Data Loading System  Air Traffic Control (ATC)  Cockpit Voice Recorder (CVR) System  Communications Management Unit (CMU) System  Flight Deck Audio System  Flight Deck Printer  High Frequency (HF) Communications System  Radio Nav Systems (ADF, DME, ELT, LRRA, VOR/MB)  Radio Nav Systems (GPS, ILS) - Honeywell  Satellite Communications (SATCOM) System  Traffic Collision Avoidance System (TCAS)  Very High Frequency (VHF) Communications System  Traffic Collision Avoidance System (TCAS)  Very High Frequency (VHF) Communications System  Doors:  Airstair Door  Automatic Overwing Exit (AOE) Door  Forward/Aft Cargo Door  Forward/Aft Cargo Door  Forward/Aft Galley Door  Mid Exit Door (MED) (-9 only)  EE Subsytems:  Aural Warning Module / Master Caution  Window Heat  Environmental Control System  Cargo Smoke Detection System  Advisory Ice Detection System  Cargo Smoke Detection System  Advisory Ice Detection System  Cargo Smoke Detection System  Advisory Ice Detection System  Advisory Ice Detection System  Cargo Smoke Detection System  Cargo Smoke Detection System  Advisory Ice Detection System  Cargo Smoke Detection System  Advisory Ice Detection System  Flight Controls:  Standby Compass  Flight Controls:  Flight Controls/Flight Deck Instruments:  Flight Controls/Flight Deck Instruments:  Floodlights	

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	CS-25	Title	737-8	737-9	System/Area	Notes
Filiath Deck:   Air Data System   Installations - Angle of Attack (AOA) Vanes     Air Data System Installations - Priot Probes and Elevator   Feel Probes     Air Data System Installation   - Priot Probes and Elevator   Feel Probes     Air Data System Installation   - Static Ports Installation   - Air Data System Installation   - Air Data System Installation   - Air Data System Installation   - Air Temperature (TAT)   Probes     Communications - Total Air Temperature (TAT)   Probes   - Communications   - Communications		(or subparagraph)	Amdt	Amdt		
	25.1301 (cont)				<ul> <li>Air Data System         Installations – Angle of         Attack (AOA) Vanes</li> <li>Air Data System Installations         – Pitot Probes and Elevator         Feel Probes</li> <li>Air Data System Installation         - Static Ports Installation         - Static Ports Installation         - Air Data System         Installations – Total Air         Temperature (TAT)         Probes</li> <li>Communications         Equipment Installations</li> <li>Crew Oxygen Installations</li> <li>Door – Flight Deck Access         System (FDAS)</li> <li>Flight Deck Observer         Seats</li> <li>Lighting/Floodlights/Map         Lights/Utility Lights/Dome         Lights/Chart Lights</li> <li>PC Power System</li> <li>Pilot Seats</li> <li>Standby Compass         System Installation</li> <li>Stowage and Linings –         except HUD provisions,         ceiling linings, closet         lining, and 2<sup>nd</sup> observer         stowage box</li> <li>Miscellaneous/Emergency         Equipment -         <ul> <li>Ashtray Installation</li> <li>Checklist holder               Installation</li> <li>Cher Holders Installation</li> <li>Emergency Locator</li></ul></li></ul>	

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CS-25	CTION: Appendix A – continued	727 0	727.0	System/Area	Notes
Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.1301 (cont)				Interiors:  AC Rails Attendant Control Panel (ACP) Attendant Partitions Attendant Seats Cabin Interphone Cabin (Passenger) Telecommunications Centerline Overhead Stowbox Class Dividers Closets Curtains, Curtain Tracks and Curtain Header, and Class Divider Curtains Dog-Houses Door and Doorway Linings/Headers Emergency Lighting Galleys General Lighting In-Flight Entertainment System Lavatories Lowered Ceilings Main Cabin Ceilings Overhead Stowage Bins Passenger Address System Passenger Seats Passenger Service Units (PSU) and PSU Video Monitors PC Power System Portable Emergency Equipment and Life Line PRAM Service Outlets Sidewalls Stowboxes Video Control Center Video Surveillance Water and Waste Systems Windscreens  Mech/Hyd — Landing Gear Systems: Mechanical Brake Control System including Antiskid/Auto brake	
	25.1301	JAR 14	JAR 15	Avionics: Radio Nav Systems (GLS, GPS, ILS) - Rockwell	
	25.1301(b)	N/A	N/A	EWIS components integral to the following interior design areas:	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1302	Installed Systems and Equipment for use by the flight crew	CS 11	CS 12	• 737-8/-9 Airplane	
25.1303	Flight and navigation instruments				
	25.1303	CS 11	CS 12	737-8/-9 Airplane except as noted below	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
	25.1303(a)(3)	JAR 13	JAR 15	Flight Deck:  Standby Compass System Installation	
25.1305	Powerplant instruments				Associated CRI: E-20/MAX (ESF) 9 Associated CRI: same as 737-8
	25.1305	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1307	Miscellaneous equipment	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1309	Equipment, systems and installations		05/MAX (E 29/MAX	Associated CRIs: 9ER/D-20 (NG)(E: ESF), D-04/MAX (SC/MOC), D-17/M ( (ESF), E-31/MAX (Deviation), F-03 PTC/F-27 (NG) (SC/IM), PTC/F-29 (NG) 737-	IAX (ESF), E-27/MAX (SC/IM), E- B(NG) (SC), PTC/F-17 (NG) (SC),
	25.1309	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>	Note: Deviation E-31/MAX applies to 25.1309(b)(1)
	25.1309	JAR 13 OP 90/1	JAR 15	Avionics:  Airborne Data Loading System Air Traffic Control (ATC) Communications Management Unit (CMU) System Flight Deck Printer High Frequency (HF) Communications System Radio Nav Systems (ADF, DME, ELT, LRRA, VOR/MB) Radio Nav Systems (GPS, ILS) Honeywell Satellite Communications (SATCOM) System Selective Call (SELCAL) System Traffic Collision Avoidance System (TCAS) Very High Frequency (VHF) Communication System  Doors: Airstair Door Automatic Overwing Exit (AOE) Door EE Access Door Mid Exit Door (MED) (-9 only)  EE Subsytems: Aural Warning Module/Master Caution Window Heat  Environmental Control System: Advisory Ice Detection System Cargo Smoke Detection System Ice/Rain Protection – Air Data Sensor Heat System RAM Air System, Inlet and Exhaust ducts Window Heat System Flight Controls: Standby Compass  Flight Controls/Flight Deck Instruments: Floodlights	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.1309 (cont)				Flight Deck:  Air Data System Installations — Angle of Attack (AOA) Vanes  Air Data System Installations — Pitot Probes and Elevator Feel Probes  Air Data System Installation - Static Ports Installation  - Static Ports Installation  - Air Data System Installations — Total Air Temperature (TAT) Probes  - Communications Equipment Installations - Crew Oxygen Installations - Crew Oxygen Installations - Crew Oxygen Installations - Door — Flight Deck Access System (FDAS) - Flight Deck Observer Seats - Lighting/Floodlights/Map Lights/Utility Lights/Dome Lights/Chart Lights - PC Power System - Pilot Seats - Standby Compass System Installation Miscellaneous/Emergency Equipment — - Emergency Locator Transmitter (ELT) Installation on P-18 panel - Fire Extinguisher Installation - Flashlights Installation - Flashlights Installation - Frotective Breathing Equipment (PBE) Installation  - Test Receptacle Installation  Interiors: - AC Rails - Attendant Control Panel (ACP) - Attendant Partitions - Cabin (Passenger) Telecommunications - Centerline Overhead Stowbox - Class Dividers - Closets - Door and Doorway Linings/Headers - Emergency Lighting - Galleys - General Lighting - In-Flight Entertainment System - Lavatories - Lowered Ceilings - Main Cabin Ceilings - Overhead Stowage Bins - Passenger Address System - Passenger Seats - Passenger Service Units (PSU) and PSU Video Monitors - PC Power Bystem - Passenger Service Units (PSU) and PSU Video Monitors - Portable Emergency Equipment and Life Line - PRAM	

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SECTION: Appendix A – continued							
CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes		
25.1309 (cont)				Service Outlets     Sidewalls     Video Control Center     Video Surveillance     Water and Waste     Systems     Windscreens			
	25.1309	JAR 13	JAR 15	Avionics: Cockpit Voice Recorder (CVR) System			
	25.1309	JAR 13	JAR 13	Avionics: Flight Deck Audio System			
	25.1309	JAR 13 OP 90/1, JAR 15 (see note)	JAR 14, JAR 15 (see note)	Mech/Hyd – Landing Gear Systems:  Mechanical Brake Control System including Antiskid/Auto brake	Note: Within the brake control system, only the brake hydraulic system flow limiter and parking brake demonstration is certified to JAR 15.		
	25.1309	JAR 14	JAR 15	Avionics: Radio Nav Systems (GLS, GPS, ILS) - Rockwell			
	25.1309	FAR 0	FAR 0	Avionics: Flight and Ground Crew Call Flight Interphone Service Interphone  Doors: Forward/Aft Cargo Door Forward/Aft Entry Door Forward/Aft Galley Door  Environmental Control System: Galley Vent System Windshield Wipers System			
	25.1309(d)	N/A	N/A	Interiors:  EWIS components integral to the following interior designs:  Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS- 25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.		

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.1310	Power source capacity and distribution				Introduced at JAR Change 16.
	25.1310	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1315	Negative acceleration	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1316	System lightning protection				-8 Associated CRI: F-03(NG)(SC) 9 Associated CRI: same as 737-8
	25.1316	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>	
	25.1316(a)	N/A	N/A	Avionics:  Air Data Inertial Reference System (ADIRS) Radio Nav Systems (GLS, GPS, ILS,LRRA)  Flight Controls – Autoflight System: Flight Control Computer (FCC)	
	25.1316 (b)	N/A	JAR 15	Avionics:  Air Traffic Control (ATC)  Communications Management Unit (CMU) System  Flight Deck Audio System  High Frequency (HF) Communications System  Radio Nav Systems (ADF, DME, VOR/MB)  Traffic Collision Avoidance System (TCAS)  Very High Frequency (VHF) Communications System  Environmental Control System:  Cargo Smoke Detection System  Ice/Rain Protection — Air Data Sensor Heat System  RAM Air System, Inlet and Exhaust Ducts  Window Heat System  Windshield Wipers System  Flight Controls/Flight Deck Instruments:  Integrated Standby Flight Display (ISFD)  Flight Deck: Crew Oxygen Installations  Door — Flight Deck Access System (FDAS)  Mech/Hyd — Landing Gear Systems:  Mechanical Brake Control System including Antiskid/Auto brake	

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CS-25	Title	737-8	737-9	System/Area	Notes				
Section No.	(or subparagraph)	Amdt	Amdt	.,					
	25.1316(b)	JAR 14 OP 96/1	JAR 15	Avionics:  Flight Management Computer System (FMCS) Stall Management Yaw Damper (SMYD) System					
	25.1316(b)	N/A	N/A	Flight Controls – Autoflight System: Integrated Flight System Accessory Unit (IFSAU)					
25.1321	Arrangement and visibility								
	25.1321	CS 11	CS 12	737-8/-9 Airplane except as noted below					
	25.1321(a),(d),(e)	JAR 13	JAR 15	Flight Controls/Flight Deck: Instruments: Integrated Standby Flight Display (ISFD)					
25.1322	Flight Crew Alerting		7		(SC/MOC), D-17/MAX, F-14/MAX AX (ESF), PTC/F-27 (NG)(SC/IM) Associated CRIs: same as 737-8				
	25.1322	See CRI F- 14/MAX	See CRI F- 14/MAX	■ 737-8/-9 Airplane					
25.1323	Airspeed indicating system								
	25.1323	CS 11	CS 12	737-8/-9 Airplane except as noted below					
	25.1323(a)	JAR 13	JAR 15	Flight Controls/Flight Deck Instruments: Integrated Standby Flight Display (ISFD)					
25.1325	Static pressure systems								
	25.1325	CS 11	CS 12	737-8/-9 Airplane except as noted below					
	25.1325(d)	JAR 13	JAR 15	Flight Controls/Flight Deck Instruments: Integrated Standby Flight Display (ISFD)					
25.1326	Pilot heat indication systems	CS 11	CS 12	■ 737-8/-9 Airplane					
25.1327	Direction Indicator	CS 11	CS 12	■ 737-8/-9 Airplane	At JAR 13, section called Magnetic direction indicator.				
25.1328	Removed [Direction Indicator]	N/A	N/A		Not applicable				
25.1329	Flight Guidance system	l	<u> </u>		l iated CRI: PTC/F-27 (NG)(SC/IM) 9 Associated CRI: same as 737-8				
	25.1329	CS 11	CS 12	■ 737-8/-9 Airplane					
25.1331	Instruments using power supply		<u> </u>	I					
	25.1331	CS 11	CS 12	737-8/-9 Airplane except as noted below					
	25.1331(a),(b)	JAR 13	JAR 15	Flight Controls/Flight Deck Instruments: Integrated Standby Flight Display (ISFD)					
25.1333	Instrument systems	CS 11	CS 12	■ 737-8/-9 Airplane					
L	1	L	L	I	i .				

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CS-25 Section	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
No.		7 11101	7 unac		
25.1337	Powerplant instruments	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1351	General (Electrical Systems and Equipment)	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1353	Electrical equipment and installation			737-8 Associated CRIs: F-G	c)(6)(ii), (c)(6)(iii),and(d). OP 90/1 applied to all 25.1353 exceptions. EN-11 (SC), PTC F-29 (NG) (SC) Associated CRIs: same as 737-8
	25.1353	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.1353(a), (b)	JAR 13 OP 90/1	JAR 15	Environmental Control System:  Advisory Ice Detection System Cargo Smoke Detection System Ice/Rain Protection — Air Data Sensor Heat System RAM Air System, Inlet and Exhaust Ducts Window Heat System Windshield Wipers System	
	25.1353(a), (b), (d)	JAR 13 OP 90/1	JAR 15	Interiors: EWIS components integral to the following interiors designs: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
	25.1353(b)	N/A	N/A	Interiors: EWIS components integral to the following interior designs: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1355	Distribution system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1357	Circuit protective devices	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1359	Removed [Electrical system fire and smoke protection]	N/A	Does not exist		Not applicable
25.1360	Precautions against injury			JAR 25X1360 was re-designa	Lated to 25.1360 at JAR 16; At JAR 13, designated as JAR 25X1360.
	25.1360	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25X1360	JAR 13	JAR 15	Environmental Control System:  Advisory Ice Detection System Cargo Smoke Detection System Ice/Rain Protection - Air Data Sensor Heat System	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
				<ul> <li>RAM Air System, Inlet and Exhaust Ducts</li> <li>Window Heat System</li> <li>Windshield Wipers System</li> </ul>	
				Flight Controls/Flight Deck Instruments:  Floodlights	
				Mech/Hyd – Landing Gear Systems:  Mechanical Brake Control System including Antiskid/Auto brake	
25.1362	Electrical supplies for emergency conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1363	Electrical system tests	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1365	Electrical appliances, motors, and trans	formers	•	•	Introduced at JAR Change 16
	25.1365	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>	
	25.1365(d)	N/A	N/A	Avionics:  Airborne Data Loading System  Air Traffic Control (ATC)  Cockpit Voice Recorder (CVR) System  Communications Management Unit (CMU) System  Flight Deck Audio System  Flight Deck Printer  High Frequency (HF) Communications System  Radio Nav Systems (ADF, DME, GLS, GPS, ILS, LRRA, VOR/MB)  Satellite Communications (SATCOM) System  Selective Call (SELCAL) System  Traffic Collision Avoidance System (TCAS)  Very High Frequency (VHF) Communications Systems  Environmental Control System:  Advisory Ice Detection System:  Advisory Ice Detection System:  RAM Air System, Inlet and Exhaust Ducts  Windshield Wipers System  Flight Deck:  PC Power System  Interiors:  Attendant Control Panel (ACP)  Cabin Interphone  Cabin (Passenger)  Telecommunications  Closets  Emergency Lighting  General Lighting  Galleys  In-Flight Entertainment	Note: Within the brake control system, only the brake hydraulic system flow limiter and parking brake demonstration is certified to JAR 15.

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt		System/Area	Notes
				System Lavatories Passenger Address System Passenger Seats PC Power System PRAM Service Outlets Video Control Center Video Surveillance Water and Waste Systems Windscreens  Mech/Hyd – Landing Gear Systems: Mechanical Brake Control System including Antiskid/Auto Brake	
2advanceme nts	Instrument light				
5.1381	25.1381	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>	
	25.1381	JAR 13	JAR 15	Flight Controls/Flight Deck Instruments: Floodlights	
				Flight Deck: Door – Flight Deck Access System (FDAS)	
	25.1381(a),(b)	JAR 13	JAR 15	Flight Controls/Flight Deck Instruments: Integrated Standby Flight Display (ISFD)	
25.1383	Landing lights	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1385	Position light system installation	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1387	Position light system dihedral angles	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1389	Position light distribution and intensities				Associated CRI: F-15 (NG) (ESF) 9 Associated CRI: same as 737-8
	25.1389	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1391	Minimum intensities in the horizontal plane of forward and rear position lights	CS 11	CS 12	• 737-8/-9 Airplane	
25.1393	Minimum intensities in any vertical plane of forward and rear position lights	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1395	Maximum intensities in overlapping beams of forward and rear position lights	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1397	Color specifications	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1401	Anti-collision light system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1403	Wing Icing Detection Lights	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1411	General (Safety Equipment)				Associated CRI: E-11 (NG) (ESF) 9 Associated CRI: same as 737-8
	25.1411	CS 11	CS 12	■ 737-8/-9 Airplane	

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Removed [Safety belts]							
	N/A	Does not exist		Not applicable			
Ditching Equipment	CS 11	CS 12	■ 737-8/-9 Airplane				
Removed [Pneumatic de- icer boot system]	N/A	Does not exist		Not applicable			
Ice protection							
25.1419	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>				
25.1419(e),(f),(g),(h)	N/A	N/A	■ 737-8/-9 Airplane				
Megaphones			No change except	for re-designation from JAR to CS			
25.1421	CS 11	CS 12	■ 737-8/-9 Airplane				
Public address system	CS 11	CS 12	■ 737-8/-9 Airplane				
Electronic Equipment	737-	8 Associated	CRIs: F-01 (NG) (SC), PTC/F-17				
25.1431	CS 11	CS 12	■ 737-8/-9 Airplane				
Vacuum systems	CS 11	CS 12	■ 737-8/-9 Airplane				
Hydraulic Systems							
25.1435	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>				
25.1435(a), (b)(2)	JAR 13, JAR 15 (see note)	JAR 13, JAR 15 (see note)	Mech/Hyd – Landing Gear Systems:  Mechanical Brake Control System including Antiskid/Auto brake	<b>Note:</b> Within the brake control system, <b>o</b> nly the brake hydraulic system flow limiter and parking brake demonstration is certified to JAR 15.			
25.1435(a), (b)(2)	JAR 13	JAR 15	Systems - Flight Controls:  Aileron Actuator Elevator Actuator Elevator Feel Actuator Elevator Feel Computer Elevator Feel Shift Module Elevator/Lateral Autopilot Actuators High Lift System Rudder Actuator Standby Rudder Actuator				
Pneumatic systems – high pressure  737-8 Associated CRI: D-18(NG) (ES 737-9 Associated CRI: same as 737-							
25.1436	CS 11	CS 12	■ 737-8/-9 Airplane				
Pressurization and low pressure pneumatic system		ı	No change except t	for re-designation from JAR to CS.			
25.1438	CS 11	CS 12	■ 737-8/-9 Airplane				
Protective breathing equipment	1	I .		I			
25.1439	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below				
25.1439(a)	JAR 13	JAR 15	Flight Deck:  Crew Oxygen Installations  Miscellaneous/Emergency				
	Ice protection 25.1419 25.1419(e),(f),(g),(h) Megaphones 25.1421 Public address system Electronic Equipment  25.1431 Vacuum systems Hydraulic Systems 25.1435 25.1435(a), (b)(2)  25.1435(a), (b)(2)  Pneumatic systems – high pressure  25.1436 Pressurization and low pressure pneumatic system 25.1438 Protective breathing equipment 25.1439	CS 11	Ce protection	CS 11			

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S	ECTION: Appendix A – continue	<u>d</u>			
CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
				<ul> <li>Protective Breathing Equipment (PBE) Installation</li> <li>Interiors:</li> <li>Portable Emergency</li> </ul>	
25.1441	Oxygen equipment and supply				Associated CRI: F-GEN9-3 (ESF)
		9 Associated CRI: same as 737-8			
	25.1441	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.1441(a)	JAR 13 (see note)	JAR 15	Flight Deck:  Crew Oxygen Installations  Interiors: Door and Doorway Linings/Headers Lavatories Passenger Service Units (PSU) and PSU Video Monitors Portable Emergency Equipment and Life Line	<b>Note:</b> For CS 25.1443 through 25.1453, see specific regulation for amendment level
	25.1441(c)	JAR 13	JAR 15	Interiors: Door and Doorway Linings/Headers Lavatories Passenger Service Units (PSU) and PSU Video Monitors	
25.1443	Minimum mass flow of supplemental oxy	rgen		iated CRIs: F-GEN9-1 (ESF), F-40/ iated CRI: same as 737-8	PTC (ESF POST-ATC ONLY)
	25.1443	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1445	Equipment standards for the oxygen distributing system	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1447	Equipment standards for oxygen dispensing units	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1449	Means for determining use of oxygen	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1450	Chemical oxygen generators	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1451	Removed [Fire protection for oxygen equipment]	N/A	Does not exist		Not applicable
25.1453	Protection of oxygen equipment from rupture	JAR 13	JAR 15	■ 737-8/-9 Airplane	
25.1455	Draining of fluids submit to freezing	•		No change except	for re-designation from JAR to CS
	25.1455	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1457	Cockpit voice recorder	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1459	Flight recorders	•	•		ls: PTC/F-17 (NG)(SC), PTC/F-27 (NG)(SC/IM) Associated CRIs: same as 737-8
	25.1459	CS 11	CS 12	■ 737-8/-9 Airplane	1 112 2.7
25.1461	Equipment containing high-energy rotors	3	1	No change except f	or re-designation from JAR to CS.
	25.1461	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1499	Removed [Domestic Services and Appliances]	N/A	N/A		Not applicable
25.1501	General (Operating Limitations and Information)	CS 13	CS 13	■ 737-8/-9 Airplane	

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
25.1503	Airspeed limitations: general	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1505	Maximum operating limit speed	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1507	Maneuvering speed	CS11	CS 12	■ 737-8/-9 Airplane	
25.1511	Flap extended speed	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1513	Minimum control speed	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1515	Landing gear speeds	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1516	Other speed limitations  Note: At JAR 13 this regulation was identified as 25X1516.	CS 11 (see note)	CS 12 (see note)	■ 737-8/-9 Airplane	No other speed limitations required for the 737-8/-9 type design
25.1517	Rough Air Speed, V <sub>RA</sub>	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1519	Weight, center of gravity, and weight distribution	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1521	Powerplant limitations	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1523	Minimum flight crew			No change except for	re-designation from JAR to CS.
	25.1523	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1524	Removed [Systems and equipment limitations]	N/A	N/A		Not applicable
25.1525	Kinds of operation	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1527	Ambient air temperature and operating altitude	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1529	Instructions for Continued Airworthiness			737-8 Associated CRIs: G 737-9	-GEN1 (ESF), PTC F-29 (NG)(SC) 9 Associated CRIs: same as 737-8
	25.1529	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1531	Maneuvering flight load factors	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1533	Additional operating limitations	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1535	ETOPS design approval	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1541	General (Markings and Placards)			No change except for	re-designation from JAR to CS.
	25.1541	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1543	Instrument markings: general	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1545	Airspeed limitation information	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1547	Magnetic direction indicator	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1549	Powerplant instruments		Т	737	Associated CRI: F-07/MAX (ESF) -9 Associated CRI: same as 737-8
	25.1549	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1551	Oil quantity indicator	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1553	Fuel quantity indicator	CS 11	CS 12	• 737-8/-9 Airplane	
25.1555	Control markings		T	T	re-designation from JAR to CS
	25.1555	CS 11	CS 12	• 737-8/-9 Airplane	
25.1557	Miscellaneous markings and placards			No change except for	re-designation from JAR to CS
	25.1557	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1561	Safety equipment	CC 14	CS 10	, , , , , , , , , , , , , , , , , , ,	re-designation from JAR to CS.
	25.1561	CS 11	CS 12	■ 737-8/-9 Airplane	

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CS-25	ECTION: Appendix A – continued  Title	737-8	737-9	System/Area	Notes
Section No.	(or subparagraph)	Amdt	Amdt	- Cystelli A Ca	Notes
25.1563	Airspeed placard	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1581	General (Aeroplane Flight Manual)				ated CRIs: PTC/F-27 (NG)(SC/IM) 9 Associated CRI: same as 737-8
	25.1581	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1583	Operating limitations	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1585	Operating procedures	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1587	Performance information	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1591	Performance information for operations with contaminated runway surface conditions	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1593	Exposure to volcanic cloud hazards	CS 13	CS 13	■ 737-8/-9 Airplane	
25.1701	Definition	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1703	Function and installation: EWIS				Introduced at CS Amdt 5
	25.1703	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.1703	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1705	Systems and functions: EWIS	I	1		Introduced at CS Amdt 5
	25.1705	CS 11	CS 12	<ul> <li>737-8/-9 Airplane except as noted below</li> </ul>	
	25.1705	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1707	System separation: EWIS		<u> </u>		Introduced at CS Amdt 5
	25.1707	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below	
	25.1707	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1709	System safety: EWIS	<u>l</u>	1	1	Introduced at CS Amdt 5
	25.1709	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.1709	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.

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CS-25	ECTION: Appendix A – continued  Title	737-8	737-9	System/Area	Notes			
Section No.	(or subparagraph)	Amdt	Amdt	<b>5,5</b> 50				
				<ul><li>Galleys</li><li>Lavatories</li><li>Passenger Seats</li><li>Windscreens</li></ul>				
25.1711	Component identification: EWIS Introduced at CS A							
	25.1711	CS 11	CS 12	737-8/-9 Airplane except as noted below				
	25.1711	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.			
25.1713	Fire protection: EWIS	l			Introduced at CS Amdt 5.			
	25.1713	CS 11	CS 12	737-8/-9 Airplane except as noted below				
	25.1713	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.  In lieu of compliance to 25.869(a)(3) and 25.1713, compliance to 25.869(a)(4) [JAR 15] may be shown for the noted areas.			
25.1715	Electrical bonding and protection against static electricity: EWIS Introduced a							
	25.1715	CS 11	CS 12	737-8/-9 Airplane except as noted below				
	25.1715	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.			
25.1717	Circuit protective devices: EWIS			1	Introduced at CS Amdt 5			
	25.1717	CS 11	CS 12	737-8/-9 Airplane except as noted below				
	25.1717	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.			
25.1719	Accessibility provisions: EWIS	1	1		Introduced at CS Amdt 5			
	25.1719	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below				
	25.1719	N/A	N/A	Interiors: EWIS components integral to the following design areas only:	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.			

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CS-25	ECTION: Appendix A – continued	System/Area	Notes		
Section No.	(or subparagraph)	737-8 Amdt	737-9 Amdt	System/Area	Notes
				<ul><li>Closets</li><li>Galleys</li><li>Lavatories</li><li>Passenger Seats</li><li>Windscreens</li></ul>	
25.1721	Protection of EWIS	•		1	Introduced at CS Amdt 5
	25.1721	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.1721	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1723	Flammable Fluid Protection: EWIS	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1725	Powerplants: EWIS	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1727	Flammable Fluid Shutoff Means: EWIS	CS 11	CS 12	■ 737-8/-9 Airplane	
25.1729	Instructions for Continued Airworthiness	s; EWIS			3 Associated CRIs: G-GEN1 (ESF) 9 Associated CRIs: same as 737-8
	25.1729	CS 11	CS 12	737-8/-9 Airplane except as noted below	
	25.1729	N/A	N/A	Interiors: EWIS components integral to the following design areas only: Closets Galleys Lavatories Passenger Seats Windscreens	All design areas comply with the EWIS requirements at CS-25 Amendment 11(-8) or Amendment 12 (-9) except the noted Interior areas.
25.1731	Powerplant and APU fire detector system; EWIS	CS 11	CS 12	■ 737-8/-9 Airplane	
25J901	Installation	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A901
25J903	Auxiliary power unit.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A903, 25B903
25J939	APU operating characteristics	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A9039
25J943	Negative acceleration	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A943
25J951	General.(Fuel System)	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B951
25J952	Fuel system analysis and test.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A952
25J953	Fuel system independence.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A953
25J955	Fuel flow.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B955
25J961	Fuel system hot weather operation.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B961
25J977	Fuel tank outlet.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B977
25J991	Fuel pumps.	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B991
25J993	Fuel system lines and fittings	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A993
25J994	Fuel system components	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A994

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CS-25	SECTION: Appendix A – continue Title	737-8	737-9	System/Area	Notes			
Section No.	(or subparagraph)	Amdt	Amdt	Oystellizatea	Notes			
25J995	Fuel valves	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A995			
25J997	Fuel strainer or filter	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B997			
25A999	Removed [Fuel system drains]	N/A	N/A		Not applicable			
25J1011	Oil system General	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1011, 25B1011			
25J1017	Oil lines and fittings	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1017			
25J1019	Oil filter	CS 11	CS 12	■ 737-8/-9 Airplane				
25J1021	Oil system drains	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1021			
25J1023	Oil radiators	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1023			
25J1025	Oil valves	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1025			
25J1041	General (Cooling)	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1041			
25J1043	Cooling tests	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1043			
25J1045	Cooling test procedures	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1045			
25J1091	Air intake	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1091, 25B1091			
25J1093	Air intake system icing protection			737-8	00/-900ER JAR 25A1093, 25B1093 Associated CRI: F-11/MAX (SC/IM) -9 Associated CRI: same as 737-8			
	25J1093	CS 11	CS 12	■ 737-8/-9 Airplane				
25J1103	Air intake system ducts	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1103			
25A1105, 25B1105	Air intake system screens	N/A	N/A		Not applicable			
25J1106	Bleed air duct systems	CS 11	CS 12	■ 737-8/-9 Airplane				
25J1121	General (Exhaust System)	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1121			
25J1123	Exhaust piping	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1123			
25J1141	APU controls 737-8 Associated CRIs: J-01/MAX (Reversion) 737-9 Associated CRI: same as 737-8							
	25J1141	CS 11	CS 12	■ 737-8/-9 Airplane except as noted below				
	25J1141(b)(2)	See CRI J- 01/ MAX	See CRI J- 01/ MAX	Propulsion – APU ■ APU Fuel Shut Off Valve (FSOV)	<b>Note</b> : FAR 25.1141(f) did not exist at Amdt 25-11 (737-700 CRI J-04)			
25J1163	APU accessories	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1163, 25B1163			
25J1165	APU ignition systems	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25B1165			
25J1181	Designated fire zone	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1181			
25J1183	Lines, fittings and components	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1183			
25J1185	Flammable fluids	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1185			
25J1187	Drainage and ventilation of fire zones	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1187			
25J1189	Shut-off means	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1189			
25J1191	Firewalls	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1191			
25J1193	APU compartment	1	I	<u>I</u>	737-800/-900ER JAR 25A1193			
	25J1193	CS 11 with 25J1193(e)(3) at CS 13	CS 12 with 25J1193(e)( 3) at CS 13	• 737-8/-9 Airplane				
25J1195	Fire extinguisher systems	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1195)			
25J1197	Fire extinguishing agents	CS 11	CS 12	■ 737-8/-9 Airplane	737-800/-900ER JAR 25A1197			

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CS-25 Section No.	Title (or subparagraph)	737-8 Amdt	737-9 Amdt		System/Area	Notes
25J1199	Extinguishing agent containers	CS 11	CS 12	•	737-8/-9 Airplane	737-800/-900ER JAR 25A1199
25J1201	Fire extinguishing system materials	CS 11	CS 12	•	737-8/-9 Airplane	737-800/-900ER JAR 25A1201
25J1203	Fire-detector system	CS 11	CS 12	•	737-8/-9 Airplane	737-800/-900ER JAR 25A1203
25J1207	Compliance	CS 11	CS 12	-	737-8/-9 Airplane	737-800/-900ER JAR 25A1207
25J1305	APU instruments	CS 11	CS 12	-	737-8/-9 Airplane	737-800/-900ER JAR 25A1305, 25B1305
25J1337	APU instruments	CS 11	CS 12	•	737-8/-9 Airplane	737-800/-900ER JAR 25A1337
25J1501	General (Operating Limitations)	CS 11	CS 12	•	737-8/-9 Airplane	
25J1521	APU limitations	CS 11	CS 12	-	737-8/-9 Airplane	737-800/-900ER JAR 25A1521
25J1527	Ambient air temperature and operating altitude	CS 11	CS 12	•	737-8/-9 Airplane	737-800/-900ER JAR 25A1527
25J1549	APU instruments	CS 11	CS 12	-	737-8/-9 Airplane	737-800/-900ER JAR 25A1549
25J1551	Oil quantity indicator	CS 11	CS 12		737-8/-9 Airplane	737-800/-900ER JAR 25A1551
25J1557	Miscellaneous markings and placards	CS 11	CS 12	•	737-8/-9 Airplane	
25J1583	Operating limitations	CS 11	CS 12	-	737-8/-9 Airplane	737-800/-900ER JAR 25A1583
Appendix A	Appendix A (Basic dimensions)	CS 11	CS 12	•	737-8/-9 Airplane	
Appendix C	Appendix C (Atmospheric Icing Conditions)		L		73	ciated CRI: B-07/MAX (Reversion) -9 Associated CRI: same as 737-8
	Appendix C	See CRI B- 07/MAX	See CRI B- 07/MAX	•	737-8/-9 Airplane	
Appendix D	Appendix D (Criteria for determining minimum flight crew)	CS 11	CS 12	•	737-8/-9 Airplane	
Appendix F	Appendix F (Flammability)		•		737-8	ed CRI: D-GEN02/PTC (SC/MOC) -9 Associated CRI: same as 737-8
	Appendix F	CS 11	CS 12	-	737-8/-9 Airplane	
Appendix H	Appendix H (Instructions for Continuing Airworthiness)					8 Associated CRI: G-GEN1 (ESF) -9 Associated CRI: same as 737-8
	Appendix H	CS 11	CS 12	•	737-8/-9 Airplane	
Appendix I	Appendix I (Automatic Takeoff Thrust Control System (ATTCS)	N/A	N/A			Not applicable
Appendix J	Appendix J	CS 11	CS 12	•	737-8/-9 Airplane	
Appendix K	Appendix K (Interaction of Systems and Structure)	CS 11	CS 12	•	737-8/-9 Airplane	
Appendix L	Appendix L	CS 11	CS 12	-	737-8/-9 Airplane	
Appendix M	Appendix M (Fuel Tank Flammability Reduction Means (FRM)	CS 11	CS 12	•	737-8/-9 Airplane	
Appendix N	Appendix N (Fuel Tank Flammability Exposure)	CS 11	CS 12	•	737-8/-9 Airplane	