

European Aviation Safety Agency

**Acceptable Means of Compliance and
Guidance Material to
Certification Specifications
for
Normal-Category Aeroplanes
(CS-23)**

Issue 1¹

20 December 2017

¹ For the date of entry into force of this Issue, kindly refer to Decision 2017/025/R in the [Official Publication](#) of the Agency.

Summary of amendments

Chapter	Action	Issue no	Amended by ED Decision
AMC1 CS-23 Subpart A	New	Issue 1	
AMC1 CS-23 Subpart B through G. (ASTM F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	New	Issue 1	
AMC2 CS-23 Subpart B through G. (CS-23 Amendment 4)	New	Issue 1	
AMC3 CS-23 Subpart B through G. (CS-VLA Amendment 1)	New	Issue 1	

SUBPART A — GENERAL

AMC1 CS 23.2000 Applicability

The applicability of the acceptable means of compliance (AMC) is limited to the scope of CS-23 (Amendment 5 and later). The applicability of the individual AMC that are provided in Subpart B through G can be restricted to a specific type of design, type of operation or any other criterion. The applicability of each AMC is therefore specified within that AMC. Demonstration of compliance using a published AMC outside of that applicability does not provide for presumption of compliance with the related requirement.

AMC1 CS 23.2010 Accepted means of compliance

The AMC to certification specifications (CS) for Normal-Category Aeroplanes (CS-23 Amendment 5 and later) illustrate means, but not the only means, by which a requirement contained in CS-23 can be met. Satisfactory demonstration of compliance using the AMC shall provide for presumption of compliance with the related requirement. The AMC are a way to facilitate certification tasks for the applicant and the competent authority. Due to changes in technology or application of technology in a way that has not been considered or not (yet) included in the AMC, the appropriate application of this AMC in the certification of a design requires a review by the authority.

CS-23 Amendment 5 maintains the existing level of safety of CS-23 Amendment 4 and CS-VLA Amendment 1, except for areas addressing loss of control and icing, for which the safety level was increased. Achieving this level of safety through compliance with CS-23 Amendment 5 for a given certification project may require the use of additional means of compliance beyond those provided in this AMC, depending on the details of the specific design.

For example, the ASTM standard accepted by this AMC does not contain provisions that address powered trim system runaways. Therefore, in order to maintain the level of safety that was in CS-23 Amendment 4, applicants proposing the use of F3264-17 as a means of complying with CS 23.2300 for an aeroplane with a powered trim system would need to supplement the standards of F3264-17 with additional means of compliance to demonstrate safe controllability after a probable trim system runaway. To do this, applicants could use CS 23.677(d) from Amendment 4, or other means accepted under CS 23.2010 of Amendment 5.

Similarly, applicants may propose designs with novel or unusual features for which neither F3264-17 nor the EASA Certification Specifications (CS-23 Amendment 4 and CS-VLA Amendment 1) contains appropriate AMC for showing compliance with CS-23 Amendment 5. Therefore, applicants proposing the use of the AMC to CS-23 as a means of complying with CS-23 Amendment 5 for aeroplanes with novel or unusual design features may need to gain acceptance of additional means of compliance under CS 23.2010.

AMC1 CS-23 Subpart B through Subpart G contains means of compliance that consist of a listing of consensus standards at their specific revisions that have been reviewed by EASA and accepted as AMC to CS-23. The table provided in Sections B through G identifies which consensus standard contains an accepted demonstration of compliance with the requirement. The scope and content of the referenced consensus standard can, however, differ from the overall scope of CS-23 or the objectives of the requirement. Therefore, using such a referenced consensus standard requires the applicant to identify what is applicable within that consensus standard and to seek agreement with

the authority for agreement of the selected consensus standard and applied paragraphs. This is the so-called building-block flexibility that is built into the CS-23.

The listing in AMC1 Subpart B through Subpart G is consistent with the administrative ASTM standard F3264 at the revision as specified in the header of the table. The AMC1 is therefore basically a copy of ASTM F3264, except when it is considered necessary to include or exclude specific standards. This is identified in the remarks column of the table.

When EASA has established that there is the need to deviate from some of the content of a specific referenced consensus standard in order to meet the level of safety of CS-23 Amendment 5, this is stated in the remarks column in this AMC to CS-23.

AMC2 CS-23 Subpart B through Subpart G contains means of compliance that refer to the previous Amendment 4 of CS-23. These AMC are included for the (administrative) convenience of both the applicant and EASA when using an existing certification basis. A table is provided in Sections B through G that identifies which CS-23 Amendment 4 requirements contain an accepted demonstration of compliance with the requirement. This AMC2 CS-23 Subpart B through Subpart G is applicable for fixed wing aeroplanes with a passenger-seating configuration of 19 or less and a maximum certificated take-off mass of 8 618 kg (19 000 pounds) or less.

Before the entry into force of Amendment 5 of CS-23, CS-23 was included in the certification basis that often required complementing special conditions (refer to point 21.A.16B of Part 21²) when the certification specification did not contain adequate or appropriate safety standards for the product. These special conditions can be applied to complement AMC2 when required.

AMC3 CS-23 Subpart B through Subpart G contains means of compliance that refer to the previous Amendment 1 of CS-VLA. These AMC are included for the (administrative) convenience of both the applicant and EASA when using an existing certification basis. A table is provided in Sections B through G that identifies which CS-VLA Amendment 1 requirements contain an accepted demonstration of compliance with the requirement. This AMC3 CS-23 Subpart B through Subpart G is applicable to aeroplanes with a single engine (spark- or compression-ignition) having not more than two seats, with a maximum certificated take-off weight of not more than 750 kg and a stalling speed in the landing configuration of not more than 83 km/h (45 knots)(CAS), to be approved for day VFR only. This AMC3 is applicable for non-aerobatic operations including:

- any manoeuvre incident to normal flying;
- stalls (except whip stalls); and
- lazy eights, chandelles, and steep turns, in which the angle of bank is not more than 60°.

Before the entry into force of Amendment 5 of CS-23, CS-VLA was included in the certification basis that often required complementing special conditions (refer to point 21.A.16B in Part 21) when the certification specification did not contain adequate or appropriate safety standards for the product. These special conditions can be applied to complement AMC3 when required.

² Regulation (EU) No 748/2012 of 3 August 2012 laying down implementing rules for the airworthiness and environmental certification of aircraft and related products, parts and appliances, as well as for the certification of design and production organisations (OJ L 224, 21.8.2012, p. 1). <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1473415871666&uri=CELEX:32012R0748>

Availability of referenced consensus standards

The referenced consensus standard documents are available from their issuing standards body:

- ASTM documents may be purchased from:
 - ASTM International
 - 100 Barr Harbor Drive, PO Box C700
 - West Conshohocken, Pennsylvania
 - 19428-2959, USA
 - (Website: www.astm.org)

SUBPART B — Flight

AMC1 CS-23 Subpart B available for the listed requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART B - Flight	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2100 <i>Mass and centre of gravity</i>	5.1 <i>Weight/Mass and Centre of Gravity:</i> F3082/F3082M-17 Standard Specification for Weights and Centers of Gravity of Aircraft F3114-15 Standard Specification for Structures	With reference to ASTM F3264-17 paragraph 5.1, F3082-17 has been updated to the latest revision and F3114-15 is added as a means of complying with CS 23.2100.
23.2105 <i>Performance data</i>	5.2 <i>Performance Data:</i> F3179/F3179M-16 Standard Specification for Performance of Aeroplanes	
23.2110 <i>Stall speed</i>	5.3 <i>Stall Speed:</i> F3179/F3179M-16 Standard Specification for Performance of Aeroplanes	
23.2115 <i>Take-off performance</i>	5.4 <i>Takeoff Performance:</i> F3179/F3179M-16 Standard Specification for Performance of Aeroplanes	
23.2120 <i>Climb requirements</i>	5.5 <i>Climb Requirements:</i> F3179/F3179M-16 Standard Specification for Performance of Aeroplanes	
23.2125 <i>Climb information</i>	5.6 <i>Climb Information:</i> F3179/F3179M-16 Standard Specification for Performance of Aeroplanes	
23.2130 <i>Landing</i>	5.7 <i>Landing:</i> F3179/F3179M-16 Standard Specification for Performance of Aeroplanes	
23.2135 <i>Controllability</i>	5.8 <i>Controllability:</i> F3173/F3173M-15 Standard Specification for Handling Characteristics of Aeroplanes	
23.2140 <i>Trim</i>	5.9 <i>Trim:</i> F3173/F3173M-15 Standard Specification for Handling Characteristics of Aeroplanes	

CS-23 Amdt 5 SUBPART B - Flight	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2145 <i>Stability</i>	5.10 <i>Stability:</i> F3173/F3173M-15 Standard Specification for Handling Characteristics of Aeroplanes	
23.2150 <i>Stall characteristics, stall warning, and spins</i>	5.11 <i>Stall Characteristics, Stall Warning, and Spins:</i> F3180/F3180M-16 Standard Specification for Low-Speed Flight Characteristics of Aeroplanes	
23.2155 <i>Ground and water handling characteristics</i>	5.12 <i>Ground and Water Handling Characteristics:</i> F3173/F3173M-15 Standard Specification for Handling Characteristics of Aeroplanes	
23.2160 <i>Vibration, buffeting, and high-speed characteristics</i>	5.13 <i>Vibration, Buffeting, and High-Speed Characteristics:</i> F3173/F3173M-15 Standard Specification for Handling Characteristics of Aeroplanes	
23.2165 <i>Performance and flight characteristics requirements for flight in icing conditions</i>	5.14 <i>Performance and Flight Characteristics Requirements for Flight in Icing Conditions:</i> F3120/F3120M-15 Standard Specification for Ice Protection for General Aviation Aircraft	
23.2170 <i>Operating limitations</i>	5.15 <i>Operating Limitations:</i> F3174/F3174M-15 Standard Specification for Establishing Operating Limitations and Information for Aeroplanes	

SUBPART C — Structures

AMC1 CS-23 Subpart C available for the listed requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART C - Structure	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2200 <i>Structural design envelope</i>	6.1 <i>Structural Design Envelope:</i> F.3116/F3116M-15 Standard Specification for Design Loads and Conditions	
23.2205 <i>Interaction of systems and structures</i>	TBD	Consensus standard in development
23.2210 <i>Structural-design loads</i>	6.3 <i>Structural Design Loads:</i> F3116/F3116M-15 Standard Specification for Design Loads and Conditions	
23.2215 <i>Flight load conditions</i>	6.4 <i>Flight Load Conditions:</i> F3116/F3116M-15 Standard Specification for Design Loads and Conditions	
23.2220 <i>Ground and water load conditions</i>	6.5 <i>Ground and Water Load Conditions:</i> F3116/F3116M-15 Standard Specification for Design Loads and Conditions	
23.2225 <i>Component loading conditions</i>	6.6 <i>Component Loading Conditions:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3116/F3116M-15 Standard Specification for Design Loads and Conditions	
23.2230 <i>Limit and ultimate loads</i>	6.7 <i>Limit and Ultimate Loads:</i> F3114-15 Standard Specification for Structures	
23.2235 <i>Structural strength</i>	6.8 <i>Structural Strength:</i> F3114-15 Standard Specification for Structures	
23.2240 <i>Structural durability</i>	6.9 <i>Structural Durability:</i> F3115/F3115M-15 Standard Specification for Structural Durability for Small Aeroplanes F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	With reference to ASTM F3264-17 paragraph 6.9, F3061-17 has been added as a means of complying with CS 23.2240.

CS-23 Amdt 5 SUBPART C - Structure	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2245 <i>Aeroelasticity</i>	6.10 <i>Aeroelasticity:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3093/F3093M-15 Standard Specification for Aeroelasticity Requirements	
23.2250 <i>Design and construction principles</i>	6.11 <i>Design and Construction Principles:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3114-15 Standard Specification for Structures	
23.2255 <i>Protection of structure</i>	6.12 <i>Protection of Structure:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3114-15 Standard Specification for Structures F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation	
23.2260 <i>Materials and processes</i>	6.13 <i>Materials and Processes:</i> F3114-15 Standard Specification for Structures	
23.2265 <i>Special factors of safety</i>	6.14 <i>Special Factors of Safety:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3114-15 Standard Specification for Structures	
23.2270 <i>Emergency Conditions</i>	6.15 <i>Emergency Conditions:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3083/F3083M-16 Standard Specification for Emergency Conditions, Occupant Safety and Accommodations	

SUBPART D — Design and Construction

AMC1 CS-23 Subpart D available for the listed requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART D – Design and Construction	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2300 <i>Flight control systems</i>	7.1 <i>Flight Control Systems:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation	Except as follows: For Level 1 single-engine airplanes with a stall speed in the landing configuration (V_{50}) of more than 45 knots, ASTM F3264-17, paragraph 7.1 does not include means for showing that the airplane is protected from loss of control when any one connecting or transmitting element in the primary flight control system fails. If applying for certification of a Level 1 single-engine airplane with a V_{50} greater than 45 knots, applicants may use the requirements of CS 23.677(b)(1) at Amendment 4 as a means of complying with this aspect of CS 23.2300, or may propose a different means of compliance in accordance with CS 23.2010. For powered trim, applicants may use the provisions of CS 23.677(d) at Amendment 4 as a means of complying with CS 23.2010.
23.2305 <i>Landing gear systems</i>	7.2 <i>Landing Gear Systems:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	
23.2310 <i>Buoyancy for seaplanes and amphibians</i>	7.3 <i>Buoyancy for Seaplanes and Amphibians:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	
23.2315 <i>Means of egress and emergency exits</i>	7.4 <i>Means of Egress and Emergency Exits:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3083/F3083M-16 Standard Specification for Emergency Conditions, Occupant Safety and Accommodations	

CS-23 Amdt 5 SUBPART D – Design and Construction	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2320 <i>Occupant physical environment</i>	7.5 <i>Occupant Physical Environment:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3227/F3227M-17 Standard Specification for Environmental Systems in Small Aircraft F3083/F3083M-16 Standard Specification for Emergency Conditions, Occupant Safety and Accommodations F3114-15 Standard Specification for Structures F3117-15 Standard Specification for Crew Interface in Aircraft	
23.2325 <i>Fire protection</i>	7.6 <i>Fire Protection:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3234/F3234M-17 Standard Specification for Exterior Lighting in Small Aircraft F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation F3083/F3083M-16 Standard Specification for Emergency Conditions, Occupant Safety and Accommodations	With reference to ASTM F3264-17 paragraph 7.6, F3065-15 has been removed and ASTM F3066-15 has been added as a means of complying with CS 23.2325.
23.2330 <i>Fire protection in designated fire zones</i>	7.7 <i>Fire Protection in Designated Fire Zones and Adjacent Areas:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3114-15 Standard Specification for Structures F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation F3083/F3083M-16 Standard Specification for Emergency Conditions, Occupant Safety and Accommodations	With reference to ASTM F3264-17 paragraph 7.7, ASTM F3066-15 and F3083-16 have been added as means of complying with CS 23.2325.
23.2335 <i>Lightning protection</i>	7.8 <i>Lightning Protection:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	
23.2340 <i>Design and construction information</i>	none	No AMC expected

SUBPART E — Powerplant

AMC1 CS-23 Subpart E available for the listed requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART E – Powerplant	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2400 <i>Powerplant installation</i>	8.1 Powerplant Installation: F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3065/F3065M-15 Standard Specification for Installation and Integration of Propeller Systems F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation	
23.2405 <i>Power or thrust control systems</i>	8.2 Power or Thrust Control Systems & 8.5 Reversing Systems: F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3065/F3065M-15 Standard Specification for Installation and Integration of Propeller Systems	With reference to ASTM F3264-17 paragraph 8.2 and 8.5, ASTM F3066-15 has been considered not relevant as a means of complying with CS-23.2405 and therefore not included.
23.2410 <i>Powerplant installation hazard assessment</i>	8.3 Powerplant Installation Hazard Assessment: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3065/F3065M-15 Standard Specification for Installation and Integration of Propeller Systems F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation F3117-15 Standard Specification for Crew Interface in Aircraft	With reference to ASTM F3264-17 paragraph 8.3, ASTM F3063-16a, F3064-15, F3065-15 and F3117-15 have been added as a means of complying with CS 23.2410.

CS-23 Amdt 5 SUBPART E – Powerplant	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2415 <i>Powerplant installation ice protection</i>	8.4 <i>Powerplant Installation Ice Protection:</i> F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation	With reference to ASTM F3264-17 paragraph 8.4, ASTM F3063-16a has been added as a means of complying with CS 23.2415.
23.2420 <i>reserved</i>	---	
23.2425 <i>Powerplant operational characteristics</i>	8.6 <i>Powerplant Operational Characteristics:</i> F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3065/F3065M-15 Standard Specification for Installation and Integration of Propeller Systems F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation F3117-15 Standard Specification for Crew Interface in Aircraft	With reference to ASTM F3264-17 paragraph 8.6, ASTM F3065-15 and F3117-15 have been added as a means of complying with CS 23.2425
23.2430 <i>Powerplant installation, energy storage and distribution systems</i>	8.7 <i>Fuel and Energy Storage and Distribution Systems:</i> F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation	With reference to ASTM F3264-17 paragraph 8.7, ASTM F3061-17 has been considered not relevant as a means of complying with CS 23.2430 and therefore not included.
23.2435 <i>Powerplant installation support systems</i>	8.8 <i>Powerplant Induction, Exhaust, and Support Systems:</i> F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems	With reference to ASTM F3264-17 paragraph 8.8, ASTM F3066-15 has been considered not relevant as a means of complying with CS 23.2435 and therefore not included.

CS-23 Amdt 5 SUBPART E – Powerplant	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2440 <i>Powerplant installation fire protection</i>	8.9 Powerplant Installation Fire Protection: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation	With reference to ASTM F3264-17 paragraph 8.9, ASTM F3063-16a has been added as a means of complying with CS 23.2440.
23.2445 <i>Powerplant installation information</i>	<i>none</i>	No AMC expected

SUBPART F — Systems and Equipment

AMC1 CS-23 Subpart F available for the listed requirements of CS-23 are provided in the following table.

CS-23 Amdt 5	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
SUBPART F – Systems and Equipment		
23.2500 <i>General requirements on systems and equipment function</i>	9.1 Systems and Equipment Function and Safety Requirements: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3230-17 Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3235-17a Standard Specification for Electrical Storage Batteries in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3229/F3229M-17 Standard Practice for Static Pressure System Tests in Small Aircraft F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3066/F3066M-15 Standard Specification for Powerplant Systems Specific Hazard Mitigation F3117-15 Standard Specification for Crew Interface in Aircraft	With reference to ASTM F3264-17 paragraph 9.1, updated ASTM F3235-17a is included as a means of complying with CS 23.2500.
23.2505 <i>General requirements on equipment installation</i>	9.2 Equipment Function and Installation Requirements: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3230-17 Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3235-17a Standard Specification for Electrical Storage Batteries in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3117-15 Standard Specification for Crew Interface in Aircraft	With reference to ASTM F3264-17 paragraph 9.2, updated ASTM F3235-17a is included as a means of complying with CS 23.2505

CS-23 Amdt 5 SUBPART F – Systems and Equipment	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2510 <i>Equipment, systems, and installations</i>	9.3 <i>Equipment, Systems, and Installation:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3230-17 Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3235-17a Standard Specification for Electrical Storage Batteries in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3229/F3229M-17 Standard Practice for Static Pressure System Tests in Small Aircraft F3227/F3227M-17 Standard Specification for Environmental Systems in Small Aircraft	With reference to ASTM F3264-17 paragraph 9.3, updated ASTM F3235-17a is included as a means of complying with CS 23.2510
23.2515 <i>Electrical and electronic system lightning protection</i>	9.4 <i>Electrical and Electronic System Lightning Protection:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	
23.2520 <i>High-intensity radiated fields (HIRF) protection</i>	9.5 <i>High Intensity Radiated Fields (HIRF) Protection:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3236-17 Standard Specification for High Intensity Radiated Field (HIRF) Protection in Small Aircraft	
23.2525 <i>System power generation, storage, and distribution</i>	9.6 <i>System Power Generation, Storage, and Distribution:</i> F2490-05 Standard Guide for Aircraft Electrical Load and Power Source Capacity F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3235-17a Standard Specification for Electrical Storage Batteries in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3117-15 Standard Specification for Crew Interface in Aircraft	With reference to ASTM F3264-17 paragraph 9.6, updated ASTM F3235-17a is included as a means of complying with CS 23.2525
23.2530 <i>External and cockpit lighting</i>	9.7 <i>External and Cockpit Lighting:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3234/F3234M-17 Standard Specification for Exterior Lighting in Small Aircraft F3117-15 Standard Specification for Crew Interface in Aircraft	

CS-23 Amdt 5 SUBPART F – Systems and Equipment	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2535 <i>Safety equipment</i>	9.8 <i>Safety Equipment:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	
23.2540 <i>Flight in icing conditions</i>	9.9 <i>Flight in Icing Conditions:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3120/F3120M-15 Standard Specification for Ice Protection for General Aviation Aircraft	
23.2545 <i>Pressurised systems elements</i>	9.10 <i>Pressurized System Elements:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft	
23.2550 <i>reserved</i>		
23.2555 <i>Installation of recorders (e.g. cockpit voice recorders and flight data recorders)</i>	9.12 <i>Installation of Cockpit recorders:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3228-17 Standard Specification for Flight Data and Voice Recording in Small Aircraft 9.13 <i>Installation of Flight Data Recorders:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3228-17 Standard Specification for Flight Data and Voice Recording in Small Aircraft	

SUBPART G — Flight Crew Interface and other Information

AMC1 CS-23 Subpart G available for the listed requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2600 <i>Flight crew compartment</i>	10.1 <i>Flightcrew Compartment Interface:</i> F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3117-15 Standard Specification for Crew Interface in Aircraft	Except as follows: ASTM F3264-17 does not contain standards for windshield luminous transmittance. Windshield luminous transmittance must be addressed in showing compliance with CS 23.2600(a). Applicants may use the provisions of CS 23.775(e) at amendment as a means of complying with CS 23.2600(a), or may propose a different means of compliance in accordance with CS 23.2010. ASTM F3264-17 does not contain standards that ensure the required pilot compartment view is provided in conditions of fog or frost formation on the internal portion of the windshield and side windows. Pilot compartment view with formation of fog or frost must be addressed in showing compliance with CS 23.2600(a). Applicants may use the provisions of CS 23.773(b) at Amendment 4 as a means of complying with this aspect of CS 23.2600(a), or may propose a different means of compliance in accordance with CS 23.2010.

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2605 <i>Installation and operation information</i>	10.2 Installation and Operation Information: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3232/F3232M-17 Standard Specification for Flight Controls in Small Aircraft F3233/F3233M-17 Standard Specification for Instrumentation in Small Aircraft F3231/F3231M-17 Standard Specification for Electrical Systems in Small Aircraft F3227/F3227M-17 Standard Specification for Environmental Systems in Small Aircraft F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems F3117-15 Standard Specification for Crew Interface in Aircraft F3120/F3120M-15 Standard Specification for Ice Protection for General Aviation Aircraft	
23.2610 <i>Instrument markings, control markings and placards</i>	10.3 Instrument Markings, Control Markings, and Placards: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3063/F3063M-16a Standard Specification for Design and Integration of Fuel/Energy Storage and Delivery System Installations for Aeroplanes F3117-15 Standard Specification for Crew Interface in Aircraft	
23.2615 <i>Flight, navigation, and powerplant instruments</i>	10.4 Flight, Navigation, and Powerplant Instruments: F3061/F3061M-17 Standard Specification for Systems and Equipment in Small Aircraft F3062/F3062M-16 Standard Specification for Installation of Powerplant Systems F3064/F3064M-15 Standard Specification for Control, Operational Characteristics and Installation of Instruments and Sensors of Propulsion Systems	
23.2620 <i>Aeroplane Flight Manual</i>	10.5 Airplane Flight Manual: F3117-15 Standard Specification for Crew Interface in Aircraft F3174/F3174M-15 Standard Specification for Establishing Operating Limitations and Information for Aeroplanes	

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	(Ref ASTM F44 F3264-17 Standard Specification for Normal Category Aeroplanes Certification)	Remarks
23.2625 <i>Instructions for Continued Airworthiness</i>	10.6 <i>Instructions for Continued Airworthiness:</i> F3120/F3120M-15 Standard Specification for Ice Protection for General Aviation Aircraft F3117-15 Standard Specification for Crew Interface in Aircraft	

SUBPART B — Flight

AMC2&3 CS-23 Subpart B available for the requirements of CS-23 are provided in the following table.

CS-23 Amdt 5	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
SUBPART B - Flight				
23.2100 <i>Mass and centre of gravity</i>	23.21 Proof of compliance 23.23 Load distribution limits 23.25 Weight limits 23.29 Empty weight and corresponding center of gravity 23.31 Removable ballast 23.871 Levelling means		VLA.21 Proof of compliance VLA.23 Load distribution limits VLA.25 Weight limits VLA.29 Empty weight and corresponding center of gravity VLA.871 Levelling means	
23.2105 <i>Performance data</i>	23.45 Performance - General		VLA.45 Performance - General	
23.2110 <i>Stall speed</i>	23.49 Stalling speed		VLA.49 Stalling speed	
23.2115 <i>Take-off performance</i>	23.51 Takeoff speeds 23.53 Takeoff performance 23.55 Accelerate-stop distance 23.57 Takeoff path 23.59 Takeoff distance and takeoff run 23.61 Takeoff flight path		VLA.51 Takeoff speeds	
23.2120 <i>Climb requirements</i>	23.63 Climb: General 23.65 Climb: All engines operating		VLA.65 Climb: All engines operating	
23.2125 <i>Climb information</i>	23.66 Takeoff climb: one engine inoperative 23.67 Climb: One engine inoperative 23.69 En route climb/descent 23.71 Glide: single engine airplanes		None	
23.2130 <i>Landing</i>	23.73 Reference landing approach speed 23.75 Landing distance 23.77 Balked landing		VLA.75 Landing distance VLA.77 Balked landing	

CS-23 Amdt 5 SUBPART B - Flight	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2135 <i>Controllability</i>	23.141 Flight Characteristics -General 23.143 Controllability and Manoeuvrability - General 23.145 Longitudinal control 23.147 Directional and lateral control 23.149 Minimum control speed 23.151 Acrobatic manoeuvres 23.153 Control during landings 23.155 Elevator control force in manoeuvres 23.157 Rate of roll		VLA.141 Flight Characteristics -General VLA.143 Controllability and Manoeuvrability - General VLA.145 Longitudinal control VLA.153 Control during landings VLA.155 Elevator control force in manoeuvres VLA.157 Rate of roll	
23.2140 <i>Trim</i>	23.161 Trim		VLA.161 Trim	
23.2145 <i>Stability</i>	23.171 Stability – General 23.173 Static longitudinal stability 23.175 Demonstration of static longitudinal stability 23.177 Static directional and lateral stability 23.181 Dynamic stability		VLA.171 Stability – General VLA.173 Static longitudinal stability VLA.175 Demonstration of static longitudinal stability VLA.177 Static directional and lateral stability VLA.181 Dynamic stability	
23.2150 <i>Stall characteristics, stall warning, and spins</i>	23.201 Wings level stall 23.203 Turning Flight and accelerated turning stalls 23.207 Stall Warning 23.221 Spinning	CS 23.2150 (b) and (c) are not covered by AMC2. Applicants may use the provision in ASTM F3180-16 to show compliance with CS 23.2150	VLA.201 Wings level stall VLA.203 Turning Flight and accelerated turning stalls VLA.207 Stall Warning VLA.221 Spinning	CS 23.2150 (b) and (c) are not covered by AMC3. Applicants may use the provision in ASTM F3180-16 to show compliance with CS 23.2150
23.2155 <i>Ground and water handling characteristics</i>	23.231 Longitudinal stability and control 23.233 Directional stability and control 23.235 Operation on unpaved surfaces 23.237 Operation on water 23.239 Spray characteristics		VLA.231 Longitudinal stability and control VLA.233 Directional stability and control VLA.235 Operation on unpaved surfaces VLA.239 Spray characteristics	

CS-23 Amdt 5 SUBPART B - Flight	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2160 <i>Vibration, buffeting, and high-speed characteristics</i>	23.251 Vibration and buffeting 23.253 High-speed characteristics		VLA.251 Vibration and buffeting	
23.2165 <i>Performance and flight characteristics requirements for flight in icing conditions</i>	23.1419 Ice Protection		None	
23.2170 <i>Operating limitations</i>	23.1501 General 23.1505 Airspeed limitations 23.1507 Manoeuvring speed 23.1511 Flap extended speed 23.1513 Minimum control speed 23.1519 Weight and centre of gravity 23.1527 Maximum operating altitude		VLA.1501 General VLA.1505 Airspeed limitations VLA.1507 Manoeuvring speed VLA.1511 Flap extended speed VLA.1519 Weight and centre of gravity	

CS-23 Amdt 5 SUBPART C - Structure	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2215 <i>Flight load conditions</i>	23.331 Symmetrical flight conditions 23.333 (c) Flight envelope 23.347 Unsymmetrical flight loads 23.349 Rolling conditions 23.351 Yawing conditions 23.367 Unsymmetrical loads due to engine failure		VLA.331 Symmetrical flight conditions VLA.333 Flight envelope VLA.347 Unsymmetrical flight loads VLA.349 Rolling conditions VLA.351 Yawing conditions	
23.2220 <i>Ground and water load conditions</i>	23.477 Landing gear arrangement 23.479 level landing conditions 23.481 Tail down landing conditions 23.483 One-wheel landing conditions 23.485 Side load conditions 23.493 Braked roll conditions 23.505 Supplementary conditions for skiplanes 23.529 Hull and main float landing conditions 23.531 Hull and main float takeoff conditions 23.731 Wheels	With Appendix C With Appendix C, D	VLA.477 Landing gear arrangement VLA.479 level landing conditions VLA.481 Tail down landing conditions VLA.483 One-wheel landing conditions VLA.485 Side load conditions VLA.493 Braked roll conditions VLA.505 Supplementary conditions for skiplanes VLA.731 Wheels	With Appendix C
23.2225 <i>Component loading conditions</i>	23.302 Canard or tandem wing configurations 23.361 Engine torque 23.363 Side load on engine mount 23.365 Pressurized cabin loads 23.369 Rear lift truss 23.371 Gyroscopic and aerodynamic loads 23.373 Speed control devices 23.391 Control surface loads 23.393 Loads parallel to hinge line 23.395 Control system loads 23.397 Limit control forces and torques 23.399 Dual control system		VLA.361 Engine torque VLA.363 Side load on engine mount VLA.369 Rear lift truss VLA.373 Speed control devices VLA.391 Control surface loads VLA.395 Control system loads VLA.397 Limit control forces and torques VLA.399 Dual control system VLA.405 Secondary control system VLA.407 Trim tab effects VLA.409 Tabs VLA.415 Ground gust conditions	With Appendix B

CS-23 Amdt 5 SUBPART C - Structure	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.405 Secondary control system 23.407 Trim tab effects 23.409 Tabs 23.415 Ground gust conditions 23.421 Balancing loads 23.423 Manoeuvring loads 23.425 Gust loads 23.427 Unsymmetrical loads 23.441 Manoeuvring loads 23.443 Gust loads 23.445 Outboard fins or winglets 23.455 Ailerons 23.459 Special devices 23.497 Supplementary conditions for tail wheels 23.499 Supplementary conditions for nose wheels 23.533 Hull and main float bottom pressures 23.535 Auxiliary float loads 23.659 Mass Balance	With Appendix I	VLA.421 Balancing loads VLA.423 Manoeuvring loads VLA.425 Gust loads VLA.427 Unsymmetrical loads VLA.441 Manoeuvring loads VLA.443 Gust loads VLA.445 Outboard fins or winglets VLA.447 Combined loads on tail surfaces VLA.449 Additional loads applicable to V-tails VLA.455 Ailerons VLA.457 Wing flaps VLA.459 Special devices VLA.497 Supplementary conditions for tail wheels VLA.499 Supplementary conditions for nose wheels VLA.659 Mass Balance	With Appendix B With Appendix B With Appendix B With Appendix B With Appendix B
23.2230 <i>Limit and ultimate loads</i>	23.301 (a) Loads 23.303 Factors of safety		VLA.301 Loads VLA.303 Factors of safety	
23.2235 <i>Structural strength</i>	23.305 Strength and deformation 23.307 Proof of structure 23.641 Proof of strength - Wings 23.651 Proof of strength - Control surfaces 23.659 Mass Balance 23.681 (a) Limit load static tests - Control System 23.723 Shock absorption tests		VLA.305 Strength and deformation VLA.307 Proof of structure VLA.641 Proof of strength - Wings VLA.651 Proof of strength - Control surfaces VLA.659 Mass Balance VLA.681 Limit load static tests - Control System VLA.723 Shock absorption tests VLA.725 Limit drop tests	

CS-23 Amdt 5 SUBPART C - Structure	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.725 Limit drop tests 23.726 Ground load dynamic tests 23.727 Reserve energy absorption drop tests 23.729 (a) Landing gear extension and retraction system 23.737 Skis 23.843 (a) Pressurization tests 23.1435 (a)(1) Hydraulic Systems		VLA.726 Ground load dynamic tests VLA.727 Reserve energy absorption drop tests VLA.729 Landing gear extension and retraction system VLA.737 Skis VLA.1436 Hydraulic manually-powered brake systems	
23.2240 <i>Structural durability</i>	23.571 Metallic pressurized cabin structures 23.572 Metallic wing, empennage, and associated structures 23.573 Damage tolerance and fatigue evaluation of structure 23.574 Metallic damage tolerance and fatigue evaluation of commuter category airplanes 23.575 Inspections and other procedures 23.627 Fatigue strength 23.1461 Equipment containing high-energy rotors		VLA.572 Metallic wing, empennage, and associated structures VLA.627 Fatigue strength	
23.2245 <i>Aeroelasticity</i>	23.629 Flutter 23.687 Spring devices 23.677 (c) Trim systems		VLA.629 Flutter VLA.687 Spring devices VLA.677 Trim systems	
23.2250 <i>Design and construction principles</i>	23.601 General 23.603 Materials and workmanship 23.683 Operation tests 23.687 Spring devices 23.689 Cable systems 23.731 Wheels 23.733 (a), (c) Tires 23.735 (b) Brakes		VLA.601 General VLA.603 Materials and workmanship VLA.683 Operation tests VLA.687 Spring devices VLA.689 Cable systems VLA.731 Wheels VLA.733 Tires VLA.735 Brakes	

CS-23 Amdt 5 SUBPART C - Structure	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.775 (b), (c), (d) Windshields and windows 23.783 (b), (c)(1), (e) Doors 23.807 (d)(2) Emergency Exits 23.859 (b) through (i) Combustion heater fire protection 23.1323 Airspeed indicating system 23.1325 (a) through (e) Static Pressure System 23.1435 (a)(3), (c) Hydraulic Systems 23.1445 (a), (b) Oxygen distribution system		VLA.775 Windshields and windows VLA.783 Exits VLA.807 Emergency Exits VLA.1323 Airspeed indicating system VLA.1325 Static Pressure System VLA.1436 Hydraulic manually-powered brake systems	
23.2255 <i>Protection of structure</i>	23.607 Fasteners 23.609 Protection of Structure 23.611 Accessibility 23.689 (a)(3) Cable systems		VLA.607 Self-locking nuts VLA.609 Protection of Structure VLA.611 Accessibility VLA.689 Cable systems	
23.2260 <i>Materials and processes</i>	23.603 Materials and workmanship 23.605 Fabrication methods 23.613 Material strength properties and design values		VLA.603 Materials and workmanship VLA.605 Fabrication methods VLA.613 Material strength properties and design values	
23.2265 <i>Special factors of safety</i>	23.619 Special factors 23.621 Casting factors 23.623 Bearing factors 23.625 Fitting factors 23.657 Hinges 23.681 (b) Limit load static tests - Control System 23.693 Joints 23.785 Seats, berths, litters, safety belts, and shoulder harnesses		VLA.619 Special factors VLA.621 Casting factors VLA.623 Bearing factors VLA.625 Fitting factors VLA.657 Hinges VLA.681 Limit load static tests - Control System VLA.693 Joints VLA.785 Seats, safety belts, and harnesses	
23.2270 <i>Emergency Conditions</i>	23.561 Emergency Landing Conditions - General	With Appendix J	VLA.561 Emergency Landing Conditions - General VLA.785 Seats, safety belts, and harnesses	

CS-23 Amdt 5 SUBPART C - Structure	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.562 Emergency landing dynamic conditions 23.785 Seats, berths, litters, safety belts, and shoulder harnesses 23.787 Baggage and cargo compartments 23.1411 (b) Safety equipment - General		VLA.787 Baggage compartments VLA.1411 Safety equipment - General	

SUBPART D — Design and Construction

AMC2&3 CS-23 Subpart D available for the requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART D – Design and Construction	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2300 <i>Flight control systems</i>	23.655 Installation 23.671 (a) Control systems - General 23.672 (b), (c) Stability augmentation and automatic and power-operated systems 23.673 Primary flight controls 23.675 Stops 23.677 (a), (b) Trim systems 23.679 (c) Control system locks 23.683 Operation tests 23.685 Control system details 23.687 Spring devices 23.697 Wing flap controls 23.701 Flap interconnection 23.1329 (b) Automatic Pilot System		VLA.655 Installation VLA.671 Control systems - General VLA.673 Primary flight controls VLA.675 Stops VLA.677 Trim systems VLA.679 Control system locks VLA.683 Operation tests VLA.685 Control system details VLA.687 Spring devices VLA.697 Wing flap controls VLA.701 Flap interconnection	
23.2305 <i>Landing gear systems</i>	23.721 General 23.729 (b), (c), (g) Landing gear extension and retraction system 23.735 (a), (b), (c), (e) Brakes 23.745 Nose/Tail wheel steering		VLA.729 Landing gear extension and retraction system VLA.735 Brakes	
23.2310 <i>Buoyancy for seaplanes and amphibians</i>	23.751 Main float buoyancy 23.755 Hulls 23.757 Auxiliary floats		VLA.751 Main float buoyancy VLA.757 Auxiliary floats	

CS-23 Amdt 5 SUBPART D – Design and Construction	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2315 <i>Means of egress and emergency exits</i>	23.783 (a), (b), (c)(2), (c)(3), (c)(4), (c)(5), (c)(6), (d), (f), (g) Doors 23.787 Baggage and cargo compartments 23.803 Emergency evacuation 23.805 Flight crew emergency exits 23.807 (a), (b)(1), (b)(2), (b)(3), (b)(4), (b) (5), (b)(6) (d)(1), (d)(3), (d)(4), (c), (e) Emergency exits 23.811 Emergency exit marking 23.812 Emergency lighting 23.813 Emergency exit access 23.815 Width of aisle		VLA.783 Exits VLA.787 Baggage compartments VLA.807 Emergency exits	
23.2320 <i>Occupant physical environment</i>	23.831 (a), (b), (c) Ventilation 23.841 (a), (b)(1), (b)(2), (b)(3), (b)(4), (b)(8), (c), (d)(1), (d)(2),(d)(3) Pressurized cabins 23.843 Pressurization tests 23.771 (b), (c) Pilot compartment 23.775 (a), (h)(1) Windshields and windows 23.791 Passenger information signs 23.1441 Oxygen Equipment and supply 23.1443 Minimum mass flow of supplemental oxygen 23.1445 Oxygen distribution system 23.1447 Equipment standards for oxygen dispensing units 23.1449 Means for determining use of oxygen 23.1450 (a), (b) Chemical oxygen generators 23.1451 Fire protection for oxygen equipment 23.1461 Equipment containing high-energy rotors		VLA.831 Ventilation VLA.771 Pilot compartment VLA.775 Windshields and windows	

CS-23 Amdt 5 SUBPART D – Design and Construction	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2325 <i>Fire protection</i>	23.1453 Protection of oxygen equipment from rupture 23.851 Fire extinguishers 23.853 Passenger and crew compartment interiors 23.855 Cargo and baggage compartment fire protection 23.859 (a) Combustion heater fire protection 23.863 Flammable Fluid Fire Protection 23.1337 (a) Powerplant instruments installation 23.1351 Electrical system: General 23.1359 (a), (c) Electrical System fire protection 23.1383 (d) Taxi and landing lights 23.1385 (d) Position light system installation	With Appendix F With Appendix F With Appendix F	VLA.853 Passenger and crew compartment interiors VLA.857 Electrical bonding VLA.863 Flammable Fluid Fire Protection VLA.1337 Powerplant instruments installation VLA.1351 Electrical system: General VLA.1384 External lights	With Appendix F
23.2330 <i>Fire protection in designated fire zones</i>	23.865 Fire protection of flight controls, engine mounts, and other flight structure 23.1359 (a), (b) Electrical System fire protection 23.1365 (b) Electrical Cables and equipment	With Appendix F	VLA.865 Fire protection of flight controls and other flight structure VLA.1365 Electrical Cables and equipment	
23.2335 <i>Lightning protection</i>	23.867 Electrical bonding and protection against lightning and static electricity 23.1365 Electrical Cables and equipment		VLA.857 Electrical bonding VLA.1365 Electrical Cables and equipment	
23.2340 <i>Design and construction information</i>	23.1523 Minimum Flight Crew 23.1524 Maximum passenger seating configuration 23.1529 Instructions for continued airworthiness 23.1541 Markings and placards: General	With Appendix G	VLA.1529 Instructions for continued airworthiness VLA.1541 Markings and placards: General	

SUBPART E — Powerplant

AMC2&3 CS-23 Subpart E available for the requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART E – Powerplant	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
23.2400 <i>Powerplant installation</i>	23.33 Propeller speed and pitch limits 23.901 Installation 23.903 (a), (b), (d) through (g) Engines and auxiliary power units 23.905 (a), (b), (d) through (h) Propellers 23.907 Propeller vibration 23.909 (a), (c), (d), (e) Turbocharger systems 23.925 Propeller clearance 23.934 Turbojet and turbofan engine thrust reverser systems tests 23.943 Negative acceleration 23.951 Fuel System - General 23.955 Fuel Flow 23.957 (b) Flow between interconnected tanks 23.963 (b), (c) Fuel tanks: general 23.967 (a), (b) Fuel tank installation 25.975 Fuel tank vents and carburettor vapour vents 27.979 Pressure fuelling systems 23.997 (a), (c), (d) Fuel strainer or filter 23.999 Fuel system drains 23.1001 (a) through (f) Fuel jettisoning system 23.1011 Oil system General 23.1013 Oil tanks 23.1015 Oil tank tests 23.1017 Oil lines and fittings 23.1019 Oil strainer or filter 23.1021 Oil system drains		VLA.33 Propeller speed and pitch limits VLA.901 Installation VLA.903 Engine VLA.905 Propeller VLA.907 Propeller vibration VLA.909 Supercharger VLA.925 Propeller clearance VLA.943 Negative acceleration VLA.951 Fuel System - General VLA.955 Fuel Flow VLA.957 Flow between interconnected tanks VLA.963 Fuel tanks: general VLA.967 Fuel tank installation VLA.975 Fuel tank vents and carburettor vapour vents VLA.999 Fuel system drains VLA.1011 Oil system General VLA.1013 Oil tanks VLA.1015 Oil tank tests VLA.1017 Oil lines and fittings VLA.1019 Oil strainer or filter VLA.1021 Oil system drains VLA.1023 Oil radiators VLA.1041 Cooling – General VLA.1047 Cooling test procedures for reciprocating engine powered airplanes VLA.1061 Installation VLA.1063 Coolant tank tests	

CS-23 Amdt 5 SUBPART E – Powerplant	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.1023 Oil radiators 23.1027 Propeller feathering system 23.1041 Cooling – General 23.1043 Cooling tests 23.1045 Cooling test procedures for turbine engine powered airplanes 23.1047 Cooling test procedures for reciprocating engine powered airplanes 23.1061 Installation 23.1063 Coolant tank tests 24.1097 Carburettor de-icing fluid system capacity 23.1099 Carburettor de-icing fluid system detail design 23.1101 Induction air preheater design 23.1103 Induction system ducts 23.1105 Induction system screens 23.1107 Induction system filters 23.1109 Turbocharger bleed air system 23.1111 Turbine engine bleed air system 23.1121 Exhaust System - General 23.1125 Exhaust heat exchangers 23.1141 (b), (c), (d) Powerplant controls: general 23.1163 Powerplant accessories 23.1165 Engine ignition systems 23.1193 Cowling and nacelle 23.1197 Fire extinguishing agents 23.1199 Extinguishing agent containers 23.1201 Fire extinguishing system materials 23.1203 (b), (c) Fire detector system		VLA.1101 Carburettor air preheater design VLA.1103 Induction system ducts VLA.1105 Induction system screens VLA.1121 Exhaust System - General VLA.1125 Exhaust heat exchangers VLA.1141 Powerplant controls: general VLA.1163 Powerplant accessories VLA.1165 Engine ignition systems VLA.1193 Cowling and nacelle	
23.2405 <i>Power or</i>	23.904 Automatic power reserve system	With Appendix H	None	

CS-23 Amdt 5 SUBPART E – Powerplant	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
<i>thrust control systems</i>	23.933 Reversing systems			
23.2410 <i>Powerplant installation hazard assessment</i>	23.903(b) through (g) Engines and auxiliary power units 23.909(b), (c) Turbocharger systems 23.937 Powerplant operating characteristics 23.953 Fuel system independence 23.955 Fuel flow 23.959 Unusable fuel supply 23.991 Fuel pumps 23.1001(h) Fuel jettisoning system 23.1011 General 23.1027 Propeller feathering system 23.1109 Turbocharger bleed air system 23.1141(e) Powerplant controls: general 23.1143(g) Engine controls 23.1147 Mixture controls 23.1163 Powerplant accessories 23.1437 Accessories for twin-engine aeroplanes		VLA.903 Engine VLA.909 Supercharger VLA.955 Fuel flow VLA.959 Unusable fuel supply VLA.991 Fuel pumps VLA.1011 General VLA.1141 Powerplant controls: general VLA.1143 Engine controls VLA.1147 Mixture controls VLA.1163 Powerplant accessories	
23.2415 <i>Powerplant installation ice protection</i>	23.929 Engine installation ice protection 23.1093 Induction system icing protection 23.975 Fuel tank vents and carburettor vapour vents 23.997 Fuel strainer or filter 23.1105 Induction system screens		VLA.1093 Induction system icing protection VLA.975 Fuel tank vents and carburettor vapour vents VLA.1105 Induction system screens	
23.2420 <i>reserved</i>				
23.2425 <i>Powerplant operational characteristics</i>	23.903(b), (d) through (g) Engines 23.905(c) Propellers 23.909(a) Turbocharger systems 23.934 Turbojet and turbofan engine thrust		VLA.903 Engine VLA.905 Propeller VLA.909 Supercharger	

CS-23 Amdt 5 SUBPART E – Powerplant	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	reverser systems tests 23.939 Turbopropeller-drag limiting systems 23.943 Negative acceleration 23.1142 Auxiliary power unit controls 23.1145 Ignition switches 23.1165 Engine ignition systems		VLA.943 Negative acceleration VLA.1145 Ignition switches VLA.1165 Engine ignition systems	
23.2430 <i>Powerplant installation, energy storage and distribution systems</i>	23.951 Fuel System - General 23.953 Fuel system independence 23.954 Fuel system lightning protection 23.955 Fuel flow 23.957 Flow between interconnected tanks 23.959 Unusable fuel supply 23.961 Fuel system hot weather operation 23.963(a), (d), (e) Fuel tank: general 23.965 Fuel tank tests 23.967(a), (c), (d), (e) Fuel tank installation 23.969 Fuel tank expansion space 23.971 Fuel tank sump 23.973 Fuel tank filler connection 23.975 Fuel tank vents and carburettor vapour vents 23.977 Fuel tank outlet 23.979 Pressure fuelling systems 23.991 Fuel pumps 23.993 Fuel system lines and fittings 23.994 Fuel system components 23.997(b), (d), (e) Fuel strainer or filter 23.999 Fuel system drains 23.1001(a) through (f) Fuel jettisoning system 23.1337(a) Powerplant instruments installation	Provisions of AMC2 cover only fuel systems	VLA.951 Fuel System - General VLA.955 Fuel flow VLA.957 Flow between interconnected tanks VLA.959 Unusable fuel supply VLA.961 Fuel system hot weather operation VLA.963 Fuel tank: general VLA.965 Fuel tank tests VLA.967 Fuel tank installation VLA.969 Fuel tank expansion space VLA.971 Fuel tank sump VLA.973 Fuel tank filler connection VLA.975 Fuel tank vents and carburettor vapour vents VLA.977 Fuel strainer or filter VLA.991 Fuel pumps VLA.993 Fuel system lines and fittings VLA.999 Fuel system drains VLA.1337 Powerplant instruments	Provisions of AMC3 cover only fuel systems

CS-23 Amdt 5 SUBPART E – Powerplant	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.721 Landing gear systems - General			
23.2435 <i>Powerplant installation support systems</i>	23.1091 Air induction system 23.1101(a) Induction air preheater design 23.1103(a) through (d) Induction system ducts 23.1111(b) Turbine engine bleed air system 23.1121 Exhaust System - General 23.1123 Exhaust system 23.1125 Exhaust heat exchangers	Provisions of AMC2 cover only induction and exhaust systems	VLA.1091 Air induction VLA.1101 Carburettor air preheater design VLA.1103 Induction system ducts VLA.1121 Exhaust System - General VLA.1123 Exhaust manifold VLA.1125 Exhaust heat exchangers	Provisions of AMC3 cover only induction and exhaust systems
23.2440 <i>Powerplant installation fire protection</i>	23.995 Fuel valves and controls 23.1103(e), (f) Induction system ducts 23.1141(f) Powerplant controls: general 23.1181 Designated fire zones: regions included 23.1182 Nacelle areas behind firewalls 23.1183 Lines, fittings, and components 23.1189 Shutoff means 23.1191 Firewalls 23.1192 Engine accessory compartment diaphragm 23.1193 Cowling and nacelle 23.1195 Fire extinguishing systems 23.1197 Fire extinguishing agents 23.1201 Fire extinguishing system materials 23.1203(a), (e) Fire detector system 23.1435(c) Hydraulic Systems		VLA.995 Fuel valves and controls VLA.1103 Induction system ducts VLA.1141 Powerplant controls and accessories: general VLA.1182 Nacelle areas behind firewalls VLA.1183 Lines, fittings, and components VLA.1191 Firewalls VLA.1193 Cowling and nacelle	
23.2445 <i>Powerplant installation information</i>	23.1521 Powerplant limitations 23.1522 Auxiliary power unit limitations 23.1529 Instructions for continued airworthiness	With Appendix G	VLA.1521 Powerplant limitations VLA.1529 Instructions for continued airworthiness	

SUBPART F — Systems and Equipment

AMC2&3 CS-23 Subpart F available for the requirements of CS-23 are provided in the following table.

CS-23 Amdt 5	AMC2 (CS-23 Amdt 4)		AMC3 (CS VLA Amdt 1)	
SUBPART F – Systems and Equipment				
<p>23.2500 <i>General requirements on systems and equipment function</i></p>	<p>23.1301 Function and installation 23.1303 Flight and navigation instruments 23.1305 Powerplant instruments 23.1309(a) Equipment, systems, and installations 24.1311 Electronic display instrument systems 23.1321 Arrangement and visibility 23.1323 Airspeed indicating system 23.1325 Static pressure system 23.1327 Magnetic direction indicator 23.1329 Automatic pilot system 23.1335 Flight director systems 23.1351(b), (e), (f), (g) Electrical Systems - General 23.1357 Circuit protective devices 23.1361 Master switch arrangement 23.1367 Switches 23.1381 (c) Instrument lights 23.1416 Pneumatic de-icer boot system 23.729(d) Landing gear extension and retraction system 23.843(b) Pressurization tests 23.1141(b), (c), (d) Powerplant controls: general 23.1201 Fire extinguishing system materials 23.1203(e) Fire detector system</p>		<p>VLA.1301 Function and installation VLA.1303 Flight and navigation instruments VLA.1305 Powerplant instruments VLA.1307 Miscellaneous equipment VLA.1309 Equipment, systems, and installations VLA.1321 Arrangement and visibility VLA.1323 Airspeed indicating system VLA.1325 Static pressure system VLA.1327 Magnetic direction indicator VLA.1351 Electrical Systems - General VLA.1357 Circuit protective devices VLA.1361 Master switch arrangement VLA.1367 Switches VLA.729 Landing gear extension and retraction system VLA.1141 Powerplant controls and accessories: general</p>	

CS-23 Amdt 5 SUBPART F – Systems and Equipment	AMC2 (CS-23 Amdt 4)		AMC3 (CS VLA Amdt 1)	
23.2505 <i>General requirements on equipment installation</i>	23.1301 Function and installation 23.1437 Accessories for twin-engine aeroplanes		VLA.1301 Function and installation	
23.2510 <i>Equipment, systems, and installations</i>	23.1309 Equipment, systems, and installations 23.1323 Airspeed indicating system 23.1325 Static pressure system 23.1329 Automatic pilot system 23.1331(b), (c) Instruments using a power source 23.1335 Flight director systems 23.1337(b), (c) Powerplant instruments installation 23.1357 Circuit protective devices 23.1431 Electronic equipment 23.1437 Accessories for twin-engine aeroplanes 23.672(c) Stability augmentation and automatic and power-operated systems 23.677 (d) Trim systems 23.701 Flap interconnection 23.735(d) Brakes 23.775(g) Windshields and windows 23.831(d) Ventilation 23.841(b)(8), (c), (d)(2), (d)(3) Pressurised cabins		VLA.1309 Equipment, systems, and installations VLA.1323 Airspeed indicating system VLA.1325 Static pressure system VLA.1331 Instruments using a power supply VLA.1337 Powerplant instruments VLA.1357 Circuit protective devices VLA.1431 Electronic equipment VLA.677 Trim systems VLA.701 Flap interconnection VLA.735 Brakes VLA.775 Windshields and windows VLA.831 Ventilation	
23.2515 <i>Electrical and electronic system lightning protection</i>	23.1306 Electrical and electronic system lightning protection		None	

CS-23 Amdt 5 SUBPART F – Systems and Equipment	AMC2 (CS-23 Amdt 4)		AMC3 (CS VLA Amdt 1)	
23.2520 <i>High-intensity radiated fields (HIRF) protection</i>	23.1308 High-Intensity Radiated Fields (HIRF) protection		None	
23.2525 <i>System power generation, storage, and distribution</i>	23.1303 Flight and navigation instruments 23.1331(b), (c) Instruments using a power source 23.1351(a), (b), (c) Electrical Systems - General 23.1353 Storage battery design and installation 23.1357 Circuit protective devices		VLA.1303 Flight and navigation instruments VLA.1331 Instruments using a power supply VLA.1351 Electrical Systems - General VLA.1353 Storage battery design and installation VLA.1357 Circuit protective devices	
23.2530 <i>External and cockpit lighting</i>	23.1381 Instrument lights 23.1383(a), (b), (c) Taxi and landing lights 23.1385(a), (b), (c) Position light system installation 23.1387 Position light system dihedral angles 23.1391 Minimum intensities in the horizontal plane of position lights 23.1393 Minimum intensities in any vertical plane of position lights 23.1395 Maximum intensities in overlapping beams of position lights 23.1397 Colour specifications 23.1399 Riding light 23.1401 Anti-collision light system		VLA.1384 External lights	
23.2535 <i>Safety equipment</i>	23.1411 Safety Equipment-General 23.1415 Ditching equipment		VLA.1411 Safety Equipment-General	
23.2540 <i>Flight in icing conditions</i>	23.1323 Airspeed indicating system 23.1325(b), (g) Static pressure system 23.1419 Ice protection 23.775(f) Windshields and windows		None	

CS-23 Amdt 5 SUBPART F – Systems and Equipment	AMC2 (CS-23 Amdt 4)		AMC3 (CS VLA Amdt 1)	
23.2545 <i>Pressurised systems elements</i>	23.1438 Pressurization and pneumatic systems 23.1435(a)(4), (b) Hydraulic Systems 23.1453 Protection of oxygen equipment from rupture		None	
23.2550 <i>reserved</i>				
23.2555 <i>Installation of recorders (e.g. cockpit voice recorders and flight data recorders)</i>	23.1457 Cockpit voice recorders 23.1459 Flight recorders		None	

SUBPART G — Flight Crew Interface and other Information

AMC2&3 CS-23 Subpart G available for the requirements of CS-23 are provided in the following table.

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
<p>23.2600 <i>Flight crew compartment</i></p>	<p>23.671 Control systems - General 23.677 (a) Trim systems 23.699 Wing flap position indicator 23.729 (e) Landing gear extension and retraction system 23.745 Nose/Tail wheel steering 23.771 (a) Pilot compartment 23.773 Pilot compartment view 23.775 (e), (h)(2) Windshields and windows 23.777 Cockpit controls 23.779 Motion and effect of cockpit controls 23.781 Cockpit control knob shape 23.831 (c) Ventilation 23.1141 (g) Powerplant controls: general 23.1142 Auxiliary power unit controls 23.1143 (a) through (f) Engine controls 23.1145 Ignition switches 23.1147 Mixture controls 23.1149 Propeller speed and pitch controls 23.1153 Propeller feathering controls 23.1155 Turbine engine reverse thrust and propeller pitch settings below the flight regime 23.1157 Carburettor air temperature controls 23.1203 (d) Fire detector system 23.1329 (d) Automatic pilot system 23.1335 Flight director systems</p>		<p>VLA.671 Control systems - General VLA.677 Trim systems VLA.699 Wing flap position indicator VLA.729 Landing gear extension and retraction system VLA.745 Nose/Tail wheel steering VLA.771 Pilot compartment VLA.773 Pilot compartment view VLA.775 Windshields and windows VLA.777 Cockpit controls VLA.779 Motion and effect of cockpit controls VLA.781 Cockpit control knob shape VLA.831 Ventilation VLA.1141 Powerplant controls: general VLA.1143 Engine controls VLA.1145 Ignition switches VLA.1147 Mixture controls VLA.1367 Switches</p>	

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.1367 Switches 23.1381 (a), (b) Instrument lights 23.1419 (d) Ice protection 23.1435 (a)(2) Hydraulic Systems 23.1523 Minimum Flight Crew			
23.2605 <i>Installation and operation information</i>	23.671 (b) Control systems - General 23.672 (a) Stability augmentation and automatic and power-operated systems 23.679 (a), (b) Control system locks 23.703 Take-off warning system 23.729 (f) Landing gear extension and retraction system 23.783 (e)(3) Doors 23.841 (b)(5), (b)(6), (d)(4), (d)(5) Pressurised cabins 23.991 (c) Fuel pumps 23.1142 Auxiliary power unit controls 23.1301 (b) Function and installation 23.1305 Powerplant instruments 23.1309 (d) Equipment, systems, and installations 23.1322 Warning, caution and advisory lights 23.1326 Pitot heat indication systems 23.1329 (h) Automatic pilot system 23.1331 (a) Instruments using a power source 23.1335 Flight director systems 23.1337 (b), (d) Powerplant instruments installation 23.1351 (c), (d) Electrical Systems - General		VLA.671 Control systems - General VLA.679 Control system locks VLA.729 Landing gear extension and retraction system VLA.783 Doors VLA.991 Fuel pumps VLA.1301 Function and installation VLA.1305 Powerplant instruments VLA.1309 Equipment, systems, and installations VLA.1322 Warning, caution and advisory lights VLA.1331 Instruments using a power supply VLA.1337 Powerplant instruments VLA.1351 Electrical Systems - General VLA.1561 Safety equipment	

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.1416 (c) Pneumatic de-icer boot system 23.1441 (c) Oxygen Equipment and supply 23.1561 Safety equipment			
23.2610 <i>Instrument markings, control markings and placards</i>	23.733 Tires 23.777 Cockpit controls 23.841 (b)(7) Pressurised cabins 23.1001 (g) Fuel jettisoning system 23.1321 Arrangement and visibility 23.1337 (d) Powerplant instruments installation 23.1450 (c) Chemical oxygen generators 23.1501 General 23.1505 Airspeed limitations 23.1507 Operating manoeuvring speed 23.1511 Flap extended speed 23.1513 Minimum control speed 23.1519 Weight and center of gravity 23.1521 Powerplant limitations 23.1522 Auxiliary power unit limitations 23.1523 Minimum flight crew 23.1524 Maximum passenger seating configuration 23.1525 Kinds of operation 23.1527 Maximum operating altitude 23.1541 Marking and Placards - General 23.1543 Instrument marking: general 23.1545 Airspeed indicator 23.1547 Magnetic direction indicator 23.1549 Powerplant and auxiliary power unit instruments		VLA.777 Cockpit controls VLA.1321 Arrangement and visibility VLA.1337 Powerplant instruments VLA.1501 General VLA.1505 Airspeed limitations VLA.1507 Manoeuvring speed VLA.1511 Flap extended speed VLA.1519 Weight and center of gravity VLA.1521 Powerplant limitations VLA.1525 Kinds of operation VLA.1541 Marking and Placards - General VLA.1543 Instrument marking: general VLA.1545 Airspeed indicator VLA.1547 Magnetic direction indicator VLA.1549 Powerplant instruments VLA.1551 Oil quantity indicator VLA.1555 Control markings VLA.1557 Miscellaneous marking and placards VLA.1559 Operating limitations placard VLA.1561 Safety equipment	

CS-23 Amdt 5 SUBPART G – Flight Crew Interface and other Information	AMC2 (CS-23 Amdt 4)	Remarks	AMC3 (CS VLA Amdt 1)	Remarks
	23.1551 Oil quantity indicator 23.1553 Fuel quantity indicator 23.1555 Control markings 23.1557 Miscellaneous marking and placards 23.1559 Operating limitations placard 23.1561 Safety equipment 23.1563 Airspeed placards 23.1567 Flight manoeuvre placard			
23.2615 <i>Flight, navigation, and powerplant instruments</i>	23.1141 (g) Powerplant controls: general 23.1142 Auxiliary power unit controls 23.1303 Flight and navigation instruments 23.1305 Powerplant instruments 23.1311 Electronic display instrument systems 23.1323 Airspeed indicating system 23.1325 Static pressure system 23.1327 Magnetic direction indicator 23.1337 Powerplant instruments installation		VLA.1141 Powerplant controls: general VLA.1303 Flight and navigation instruments VLA.1305 Powerplant instruments VLA.1323 Airspeed indicating system VLA.1325 Static pressure system VLA.1327 Magnetic direction indicator VLA.1337 Powerplant instruments	
23.2620 <i>Aeroplane Flight Manual</i>	23.1581 Airplane Flight Manual and Approved Manual Material - General 23.1583 Operating limitations 23.1585 Operating procedures 23.1587 Performance information 23.1589 Loading information		VLA.1581 Airplane Flight Manual and Approved Manual Material - General VLA.1583 Operating limitations VLA.1585 Operating procedures VLA.1587 Performance information VLA.1589 Loading information	
23.2625 <i>Instructions for Continued Airworthiness</i>	23.1529 Instructions for Continued Airworthiness	With Appendix G	VLA.1529 Instructions for Continued Airworthiness	