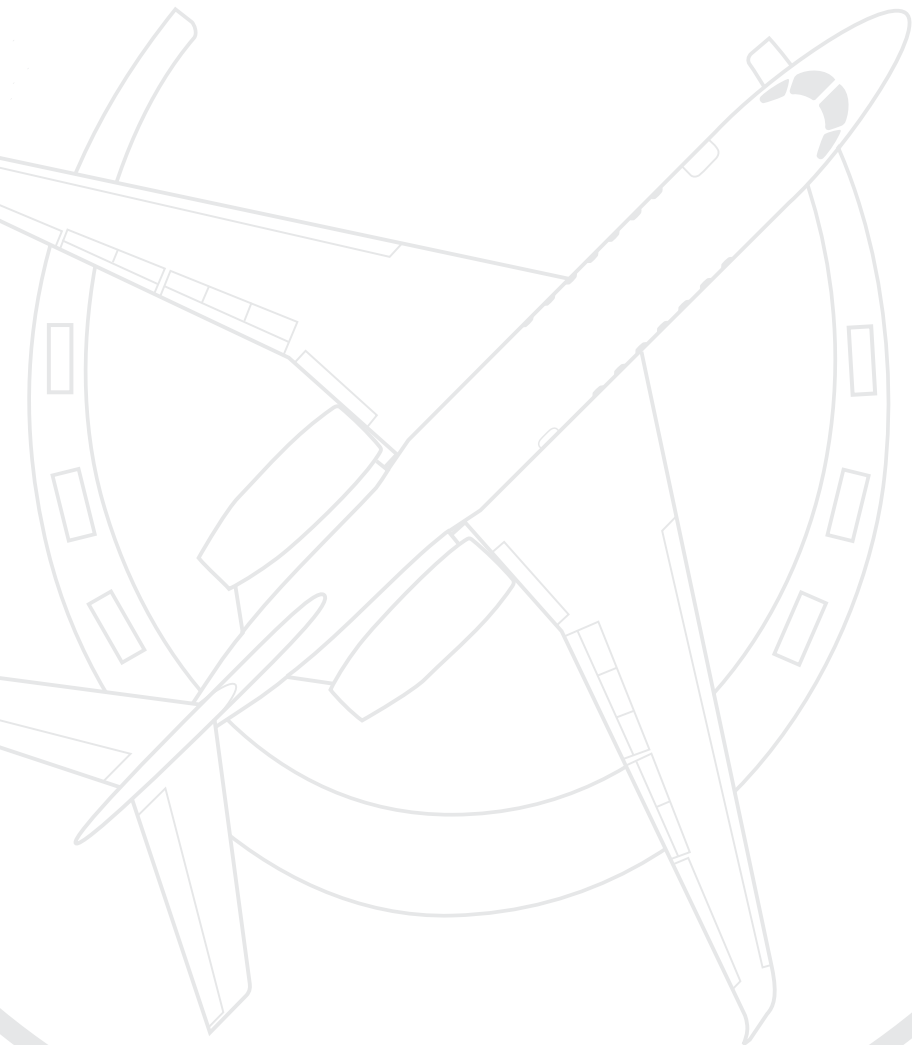


CITATION LONGITUDE



Specification & Description

Preliminary
February 2012
Units 0001 to TBD

SPECIFICATION AND DESCRIPTION

CITATION LONGITUDE UNITS -0001 TO TBD

FEBRUARY 2012

PRELIMINARY

Citation Marketing
Cessna Aircraft Company
P.O. Box 7706
Wichita, Kansas 67277-7706

February 2012, Preliminary

INTRODUCTION

This Specification and Description is published for the purpose of providing general information for the evaluation of the design, performance, and equipment of the Cessna Citation Longitude. This document supersedes all previous Specification and Description documents and describes only the Cessna Citation Longitude, its powerplants, and equipment.

Due to the time span between the date of this Specification and Description and the scheduled delivery date of the Aircraft, Cessna reserves the right to revise the "Specification" whenever occasioned by product improvements, government regulations or other good cause.

In the event of any conflict or discrepancy between this document and the terms and conditions of the purchase agreement to which it is incorporated, the terms and conditions of the purchase agreement govern.

For additional information contact:

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WARNING: This product contains Halon 1211 and Halon 1301. Furthermore, the product was manufactured with CFC-12 and 1-1-1 Trichloroethane, substances which harm public health and environment by destroying ozone in the upper atmosphere.

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MANUFACTURER _____ **CESSNA AIRCRAFT COMPANY**

MODEL _____ **CITATION LONGITUDE**

1. GENERAL DESCRIPTION

The Cessna Citation Longitude is a transcontinental business jet utilizing twin turbofan powerplants and fully integrated digital avionics. The aircraft features a swept wing with winglets and a "T" style empennage. Two FADEC controlled turbofan engines are pylon mounted on the rear fuselage. A pressurized cabin with a flat floor accommodates a crew of two plus eight passengers in the standard configuration. Space for baggage is provided in the pressurized walk-in aft closet with additional storage space in the tailcone baggage compartment.

Multiple structural load paths and system redundancies are built into the aluminum airframe. Certain parts such as the nose radome and fairings are made of composite materials. The airframe design incorporates anti-corrosion applications and lightning protection.

Cessna offers a third-party training package for pilots and mechanics, and various manufacturers' warranties as described in this book. Cessna's worldwide network of authorized service centers provides a complete source for all servicing needs.

1.1 Certification

The Citation Longitude is certified to the requirements of U.S. 14 CFR, Part 25, Transport Category, including day, night, VFR, IFR, flight into known icing conditions and Category II operations. The Citation Longitude also meets the requirements for 14 CFR, Part 36, Noise Standards, and 14 CFR, Part 34, Fuel Venting and Exhaust Emission Requirements. The Citation Longitude is eligible for 14 CFR 135 operations when limited to 9 passengers. Operations within RVSM airspace are met. (Note: specific approval is required for operation within RVSM airspace).

The purchaser is responsible for obtaining aircraft operating approval from the relevant civil aviation authority. International certification may require modifications and additional equipment; such costs are the responsibility of the Purchaser.

1.2 Approximate Dimensions

Preliminary aircraft sizing is underway and overall dimensions have not been finalized. The overall dimensions are not expected to exceed the following values:

Maximum Overall Height	26 ft (7.9 m)
Maximum Overall Length	87 ft (26.5 m)
Maximum Overall Width	86 ft (26.2 m)

Cabin Interior

Height (maximum over aisle)	72 in (1.83 m)
Width (trim to trim)	77 in (1.95 m)
Length (forward pressure bulkhead to aft pressure bulkhead)	37 ft 8 in (11.48 m)

1. GENERAL DESCRIPTION (Continued)

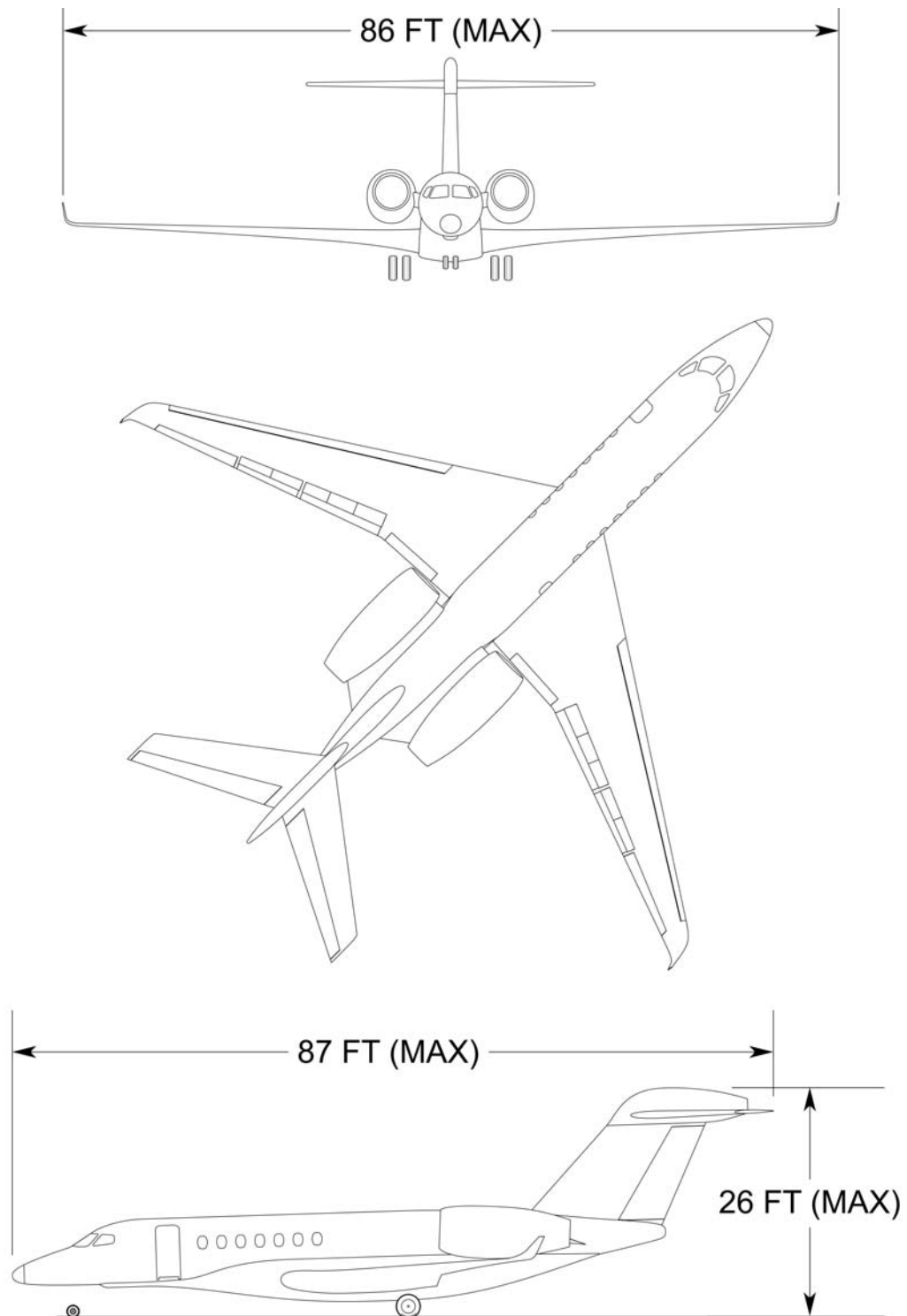


FIGURE I — CITATION LONGITUDE EXTERIOR DIMENSIONS

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1. GENERAL DESCRIPTION (Continued)

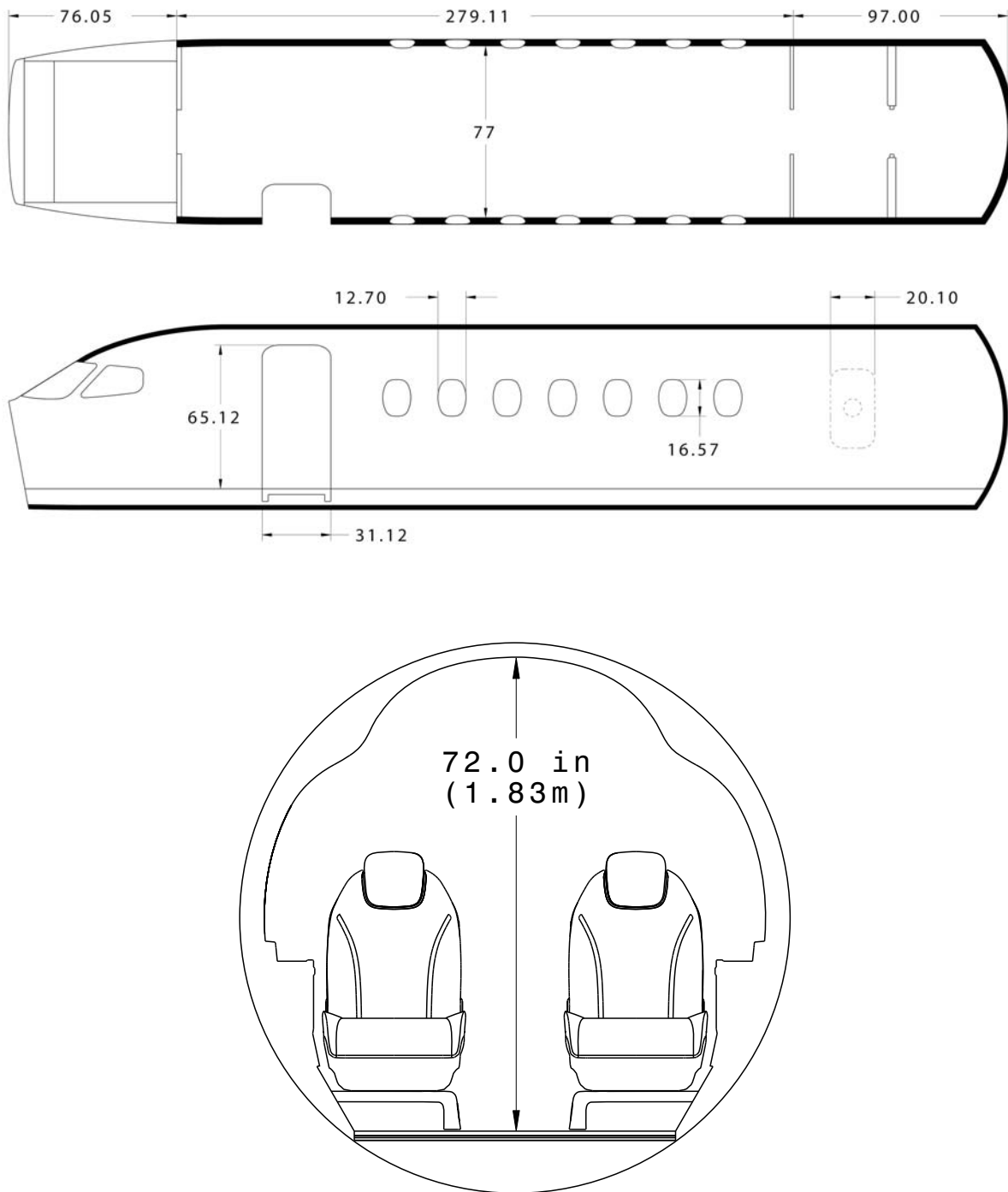


FIGURE II — CITATION LONGITUDE INTERIOR DIMENSIONS

1. GENERAL DESCRIPTION (Continued)

1.3 Design Weights and Capacities

Full Fuel Payload 2,000 lb (907 kg)

2. PERFORMANCE

All performance data is based on a standard aircraft configuration, operating in International Standard Atmosphere (ISA) conditions with zero wind. Takeoff and landing field lengths are based on a level, hard sur-

face, dry runway. Actual performance will vary with individual airplanes and other factors such as environmental conditions, aircraft configuration, and operational/ATC procedures.

Takeoff Runway Length(± 5%) 5,400 ft (1,646 m)
(Maximum Takeoff Weight, Sea Level, ISA,
Balanced Field Length per FAR 25)

Maximum Altitude 45,000 ft (13,716 m)

Maximum Cruise Speed (± 3%) 490 KTAS (907 km/hr or 564 mph)
(Mid-Cruise Weight, 35,000 ft (10,668 m), ISA)

NBAA IFR Range (200 nm alternate) (± 4%) 4,000 nm (7,408 km or 4,603 mi)
(At Full Fuel Payload, NBAA IFR Fuel Reserves,
Published Climb and Descent, Average 0.82M Cruise)

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3. STRUCTURAL DESIGN CRITERIA

Limit Speeds

V_{MO} 8,000 ft (2,438 m) to 30,590 ft (9,324 m)	325 KCAS (602 km/hr, 374 mph)
M_{MO} 30,590 ft (9,324 m) and above	Mach 0.86

4. FUSELAGE

A circular fuselage section is utilized with an internal cabin width of 77 inches (1.95 m). A flat floor from just behind the cockpit through the lavatory and aft closet provides 72 inches (1.83 m) of standup headroom. The

glass windshield is electrically heated and defogged. Aft fuselage area-ruling is utilized, consistent with a low-drag design.

5. WING

A newly designed, swept wing incorporates a bleed air anti-ice leading edge, ailerons, speed brakes, multifunction spoilers, leading edge slats, and flaps. The wing

includes winglets at the wing tips. An aerodynamic wing to fuselage fairing is optimized for low drag.

6. EMPENNAGE

The empennage integrates a swept T-tail design with a pivot mounted horizontal stabilizer and powered elevators. Vertical fin antennas are embedded within the

leading edge and an aerodynamic composite bullet style fairing minimizes drag. Engine bleed air protects the leading edge of the horizontal stabilizer from ice.

7. LANDING GEAR

The main landing gear is a trailing link design utilizing dual wheels, tires and hydraulically powered anti-skid carbon brakes.

The nose landing gear is a conventional strut design with dual wheels and tires. Nose wheel steering is provided by a hydraulic power steering system.

8. POWERPLANTS

Two turbofan engines will be pylon mounted in nacelles with thrust reversers on the rear fuselage.

The engine control system is a dual channel Full Authority Digital Engine Control (FADEC) system. The FADEC will provide engine synchronization, diagnostics, and time limited dispatch (TLD) provisions, as well as

takeoff, maximum continuous thrust, and cruise thrust setting calculations and indications.

An APU is incorporated for engine start and other benefits.

9. SYSTEMS

9.1 Flight Controls

The flight control systems use conventional and fly-by-wire technology. The elevator, aileron, rudder, multi-function spoiler panels, speed brakes, and slats are hydraulically powered. The flaps are electrically operated.

9.2 Fuel System

All fuel tanks are contained in the wings. Both single point and over wing refueling are provided.

9.3 Hydraulic System

The hydraulic system provides power for the elevators, rudder, ailerons, speed brakes, multifunction spoilers, leading edge slats, landing gear, power brakes, nose wheel steering, and thrust reversers.

9.4 Electrical System

The electrical system is EASA compliant and is designed so that essential equipment operation is not interrupted in the event of a single power source or distribution system failure.

9.5 Pressurization and Environmental System

Cabin pressurization is supplied by bleed air from each engine or the APU. The system provides a cabin altitude of 6,000 feet (1,829 m) at 45,000 feet (13,716 m). Air is distributed to the cabin and cockpit via floor ducts, overhead air ducts, and overhead outlets. Two thermostats and a dual-zone temperature controller automatically maintain the cabin and cockpit temperatures separately. The cabin temperature can be controlled from the VIP seat location.

9.6 Oxygen System

The standard oxygen system provides oxygen to the crew masks and auto dropout constant flow masks for the passengers.

9.7 Ice and Rain Protection

The wing leading edge, horizontal stabilizer leading edge, and engine inlets are heated by bleed air. Electric heat is used for the windshield, pitot/static systems, AOA systems, and engine probes. The glass windshields are repellant-coated for rain protection.

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10. FLIGHT COMPARTMENT, AVIONICS AND INSTRUMENTATION

10.1 General

The Citation Longitude features an avionics suite that includes an integrated Flight Director/Autopilot and Electronic Flight Instrument System (EFIS) utilizing three large high resolution Liquid Crystal Displays (LCD) in widescreen, landscape orientation. Crew interface is accomplished via touch screen technology.

Two complete crew stations are provided with dual controls including control columns, rudder pedals, and brakes. The crew seats are fully adjustable and include five-point restraint harnesses. The emergency oxygen system provides two pressure demand masks with microphones for the crew members.

10.2 Instrument And Control Panels

The instrument layout includes a tilt panel below the vertical instrument panel across the width of the cockpit.

10.3 Avionics

The avionics system in the Citation Longitude will feature functionalities including, but not limited to:

- Automatic Flight Control System
- Dual Integrated Avionics Units including GPS, WAAS receivers, VHF communications radios, VHF navigation radios, and glide slope receivers
- Integrated Autothrottle
- Distance Measuring Equipment units
- Dual Flight Management Systems
- Weather Radar
- Traffic Collision Avoidance System (TCAS)
- Terrain Awareness Warning System (TAWS)
- Dual Mode S Transponders with ADS-B Out Capability
- Standby Instrumentation
- Radio Altimeter
- Cockpit Voice Recorder
- Emergency Locator Transmitter
- Maintenance Diagnostics

11. INTERIOR

11.1 Cabin

The Citation Longitude is sized to offer passenger comfort. A range of fabrics, leathers, carpets, laminates, selected wood veneers, and metal finishes are available to configure the interior furnishings to meet a wide variety of customer tastes. Certified burn-resistant materials are used throughout the cockpit and cabin. Bagged sound-proofing and insulation are consistent with this category of aircraft, its operating speeds, and environment.

The flight compartment is separated from the cabin by a divider. The cabin is approximately 30 feet 8 inches (9.36 m) long and extends from the flight compartment dividers to the aft pressure bulkhead. The constant section of the cabin provides a continuous width of 77 inches (1.95 m). A flat floor extends aft from the cockpit divider to the aft wall of the aft closet and provides a cabin height of 72 inches (1.83 m).

The standard aircraft features a large right hand forward galley and left hand forward storage closet. The standard seating arrangement accommodates eight passengers in a double-club. The eight pedestal seats track forward and aft and laterally on the seat base and have swiveling capability. These seats recline to an infinite number of positions including full berthing.

Cabin-length indirect LED lighting is provided in the cabin overhead. Entrance and emergency exit lights are also provided. Fourteen elliptical windows allow generous natural lighting throughout the cabin. Individual air outlets and reading lights are provided for each passenger and in the vanity. A VIP seat may be designated from which all indirect lighting and cabin temperature may be controlled. Storage areas are built into the side ledge next to each seat. These areas can be used for small carry-on personal items. Each table is illuminated by direct reading lights. Individual 110 volt AC, 5 amp outlets are installed in both the cabin and cockpit to provide power for carry on electronic devices. Dropout, constant-flow oxygen masks are installed for emergency use at each belted seat.

The large aft lavatory has an externally serviceable (non-belted) vacuum waste system and is separated from the cabin by a divider door. It includes a vanity sink with water and numerous storage compartments. Immediately aft of the lavatory is an in-flight accessible walk in storage area that accommodates hanging clothes, bags, coats, briefcases and additional storage for passenger amenities. This walk in area is separated from the vanity by a divider door.

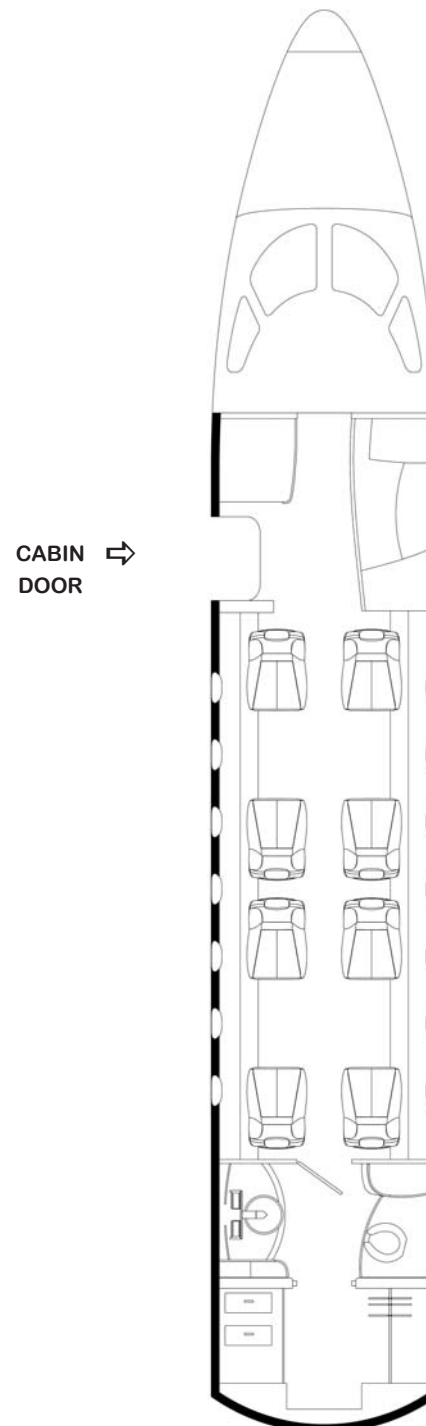


FIGURE III — CITATION LONGITUDE
STANDARD FLOORPLAN

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11. INTERIOR (Continued)

11.2 Baggage Compartments

The Citation Longitude has forward and aft baggage storage closets in the cabin to accommodate passengers' carry-on luggage and coats. There is an additional baggage compartment located in the tailcone. The tailcone compartment is located on the left hand side of the airplane and is accessible through a lockable door.

12. EXTERIOR

Distinctive exterior styling featuring polyurethane paint in a variety of colors is provided.

13. ADDITIONAL EQUIPMENT

- Two Headsets
- FMS Interface Kit
- Pitot Covers
- Static Discharge Wick Covers
- Engine Inlet and Exhaust Covers
- Thrust Reverser Stow Locks
- Emergency Door Ground-Locking Pin
- Interior Cleaning Kit
- Cargo Net
- Jack Pad Adapters
- Main Landing Gear Jacking Adapters

14. EMERGENCY EQUIPMENT

- Fire Extinguisher in Cockpit and Cabin
- Individual Overwater Life Vests
- Crew and Passenger Oxygen
- Emergency Exit Lights
- Emergency Lighting Battery Packs
- First Aid Kit
- Flashlight (two D-cells)
- Water Barrier

15. DOCUMENTATION AND TECHNICAL PUBLICATIONS

- U.S. Standard Airworthiness Certificate FAA8100-2, Export Certificate of Airworthiness FAA8130-4, or Special Airworthiness Certificate FAA8130-7 as appropriate
- Weight and Balance Data Sheets
- Flight Manual
- Equipment List
- Weight and Balance Report
- Pilot's Operating Manual
- Abbreviated Procedures Checklist
- Interior Components Operations Manual
- Log Books (Aircraft and Engines)
- Avionics Wiring Booklet
- Maintenance Manual (Airframe)
- Illustrated Parts Catalog (Airframe)
- Wiring Diagram Manual (Airframe)
- Weight and Balance Manual
- Interior Maintenance Manual
- Component Maintenance Manual
- Structural Repair Manual
- Nondestructive Testing Manual
- Illustrated Tool and Equipment Manual
- Maintenance Manual (Engine)
- Illustrated Parts Catalog (Engine)
- Service Bulletins and Service Letters (Engine)
- Maintenance Manual (APU)
- Illustrated Parts Catalog (APU)
- Service Bulletins and Service Letters (APU)
- Passenger Information Cards
- Additional Miscellaneous Information Concerning Engine and Airframe Support

Cessna will provide Service Bulletins, Service Letters and manual revisions for documents published by Cessna for five years beginning from the start date of airframe warranty.

16. COMPUTERIZED MAINTENANCE RECORD SERVICE

Cessna will provide an online computerized maintenance record service for one full year from the date of delivery of a Citation Longitude to the Purchaser.

This service will provide management and operations personnel with the reports necessary for the efficient control of maintenance activities. The service provides an accurate and simple method of keeping up with aircraft components, inspections, service bulletins and airworthiness directives while providing permanent aircraft records of maintenance performed.

Reports, available on demand, show the current status, upcoming scheduled maintenance activity and the histo-

ry of the aircraft maintenance activity in an online format which is printable locally. Semi-annual reports concerning projected annual maintenance requirements, component removal history and fleet-wide component reliability are provided as part of the service.

Services are provided through a secure internet site requiring a computer with internet connectivity. A local printer is required to print paper versions of the online reports and documentation. If receiving these services through the internet is not feasible for an operation, a paper based service delivered through the U.S. mail is available at an additional fee.

17. LIMITED WARRANTIES

The Citation Longitude will be delivered with a limited warranty covering airframe, power plants, APU, avionics and aircraft systems. Cessna specifically excludes vendor subscription services and the availability of vendor service providers for Optional and Customer Requested Equipment (CRQ) from Cessna's Limited Aircraft Warranty. All warranties are administered by Cessna's Citation Warranty Department.

17.1 Cessna Citation Longitude Limited Warranty (Limited Warranty)

Cessna Aircraft Company (Cessna) expressly warrants each new Citation Longitude Aircraft (exclusive of engines and engine accessories) to be free from defects in material and workmanship under normal use and service for the following periods after delivery:

- (a) Five years or 5,000 operating hours, whichever occurs first, for Aircraft components manufactured by Cessna; and
- (b) Two years for Interior Components, Interior Furnishings, and Paint.

Any remaining term of this Limited Warranty is automatically transferred to subsequent purchasers of the aircraft.

Cessna's obligation under this Limited Warranty is limited to repairing or replacing, in Cessna's sole discretion, any part or parts which: (1) within the applicable warranty period and 120 days of failure, (2) are returned at the owner's expense to the facility, where the replacement part is procured, whether Citation Parts Distribution or a Cessna-owned Citation service facility or a Citation serv-

ice facility authorized by Cessna to perform service on the aircraft (collectively "Support Facility"), (3) are accompanied by a completed claim form containing the following information: aircraft model, aircraft serial number, customer number, failed part number and serial number if applicable, failure date, sales order number, purchased part number and serial number if applicable, failure codes, and action codes, and (4) are found by Cessna or its designee to be defective. Replacement parts must be procured through a Support Facility and are only warranted for the remainder of the applicable original aircraft warranty period. A new warranty period is not established for replacement parts. The repair or replacement of defective parts under this Limited Warranty will be made by any Cessna-owned Citation service facility or a Citation service facility authorized by Cessna to perform service on the aircraft without charge for parts and/or labor for removal, installation, and/or repair. All expedited freight transportation expenses, import duties, customs brokerage fees, sales taxes and use taxes, if any, on such warranty repairs or replacement parts are the warranty recipient's sole responsibility. Cessna's performance under this limited warranty may be delayed or prohibited if export licenses are required to be approved by the US Government before specific spare parts can be shipped to Purchaser in some foreign countries. (Location of Cessna-owned and Cessna-authorized Citation service facilities will be furnished by Cessna upon request.)

This Limited Warranty applies to only items detailed herein which have been used, maintained, and operated in accordance with Cessna and other applicable manuals,

17. LIMITED WARRANTIES

bulletins, and other written instructions. However, this Limited Warranty does not apply to items that have been subjected to misuse, abuse, negligence, accident, or neglect; to items that have been installed, repaired, or altered by repair facilities not authorized by Cessna; or to items that, in the sole judgment of Cessna, have been installed, repaired, or altered by other than Cessna-owned service facilities contrary to applicable manuals, bulletins, and/or other written instructions provided by Cessna so that the performance, stability, or reliability of such items are adversely affected. Limited Warranty does not apply to normal maintenance services (such as engine adjustments, cleaning, control rigging, brake and other mechanical adjustments, and maintenance inspections); or to the replacement of service items (such as brake linings, lights, filters, de-ice boots, hoses, belts, tires, and rubber-like items); or to normal deterioration of appurtenances (such as paint, cabinetry, and upholstery), corrosion or structural components due to wear, exposure, and neglect.

WITH THE EXCEPTION OF THE WARRANTY OF TITLE AND TO THE EXTENT ALLOWED BY APPLICABLE LAW, THIS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, IN FACT OR BY LAW, APPLICABLE TO THE AIRCRAFT. CESSNA SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE AFOREMENTIONED REMEDIES OF REPAIR OR REPLACEMENT ARE THE ONLY REMEDIES UNDER THIS LIMITED WARRANTY. CESSNA EXPRESSLY AND SPECIFICALLY DISCLAIMS ALL OTHER REMEDIES, OBLIGATIONS, AND LIABILITIES, INCLUDING, BUT NOT LIMITED TO, LOSS OF AIRCRAFT USE, LOSS OF TIME,

INCONVENIENCE, COMMERCIAL LOSS, LOSS OF PROFITS, LOSS OF GOODWILL, AND ANY AND ALL OTHER CONSEQUENTIAL AND INCIDENTAL DAMAGES. CESSNA NEITHER ASSUMES NOR AUTHORIZES ANYONE ELSE TO ASSUME ON ITS BEHALF ANY FURTHER OBLIGATIONS OR LIABILITIES PERTAINING TO THE AIRCRAFT NOT CONTAINED IN THIS LIMITED WARRANTY. THIS LIMITED WARRANTY SHALL BE CONSTRUED UNDER THE LAWS OF THE STATE OF KANSAS AND ANY DISPUTES AND/OR CLAIMS ARISING THEREFROM SHALL BE EXCLUSIVELY RESOLVED IN THE STATE AND/OR FEDERAL COURTS LOCATED IN WICHITA, KANSAS. THE PARTIES HERETO CONSENT TO PERSONAL JURISDICTION IN THE FORUM CHOSEN.

18. CITATION LONGITUDE CREW TRAINING AGREEMENT

Training for one (1) Citation Longitude crew will be furnished to the First Retail Purchaser. A crew shall consist of up to two (2) licensed pilots with current private or commercial instrument and multi-engine ratings and a minimum of 1,500 hours total airplane pilot time and up

to two (2) mechanics with A&P licenses or equivalent experience.

Training shall be conducted by Cessna or by its designated training organization.

