

Boeing Defense, Space & Security
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C-40B **737 BBJ Combatant Commander Support Aircraft**



Description and Purpose:

The U.S. Air Force C-40B provides safe, comfortable and reliable transportation for U.S. combatant commanders and other senior government officials to locations around the world.

Customer(s):

Boeing's contract relationship is with the 655th Aeronautical Systems Squadron (Commercial Derivatives), Wright-Patterson Air Force Base, OH. Contracted activities include full Fleet Support, integrated with other USAF 737 assets, as well as on-going modifications and upgrades.

General Characteristics:

Primary Function: Combatant Commander transport
Engines: Two GE CFM 56-7B27 turbofan engines
Thrust: 27,300 pounds static thrust each engine
Length: 110 feet, 4 inches (33.6 meters)
Height: 41 feet, 2 inches (12.5 meters)
Wingspan: 117 feet, 5 inches (35.8 meters)
Speed: 0.78-.82 Mach cruise
Ceiling: 41,000 feet (12,727 meters)
Maximum Takeoff Weight: 171,000 pounds
Range: 4,600 nautical miles unrefueled range (max payload)
Maximum Load: 26 Passengers and 11 Crew
Maximum Fuel Load: 70,000 lbs (9399 USG)
Date Deployed: December 2002
Inventory: Active force: 4

Background:

The Air Force selected the C-40B, a military version of the Boeing 737-700 Business Jet, to replace the aging fleet of C-137 aircraft for U.S. combatant commanders. The Air Force awarded the medium lift contract in August 2000.

The C-40B is based upon the commercial Boeing 737-700 Business Jet. The aircraft is a variant of the Boeing next generation 737-700, and combines the 737-700 fuselage with the wings and landing gear from the larger and heavier 737-800. The basic aircraft

has winglets, auxiliary fuel tanks, missionized interior with self-sustainment features and managed passenger communication. The flight deck has state of the art avionics equipment, integrated Global Positioning System and Flight Management System/Electronic Flight Instrument System and a head up display. Heading the safety equipment list is the Traffic Collision Avoidance System and enhanced weather radar.

Features / Capabilities

The C-40B is designed to be an "office in the sky" for senior military and government leaders. Communications are paramount aboard the C-40B which provides broadband data/video transmit and receive capability as well as clear and secure voice and data communication. It gives combatant commanders the ability to conduct business anywhere around the world using on-board Internet and local area network connections, improved telephones, satellites, television monitors, and facsimile and copy machines. Self-Defensive Systems are in the process of being installed in all C-40Bs.

State of the Art Flight Deck Avionics

- Flight management computer system with integrated GPS
- Compatible with future GATM/FANS operating environment (RNP-1)
- RVSM capable
- Traffic Alert and Collision Avoidance System II
- Enhanced ground proximity warning system
- Predictive wind shear
- Head-up display
- TACAN/UHF/IFF

The cabin area is equipped with a crew rest area, distinguished visitor compartment with sleep accommodations, two galleys and business class seating with worktables.

The C-40Cs in operation are maintained under an innovative Integrated Fleet Support contract, providing the Air Force with economies of scale ordinarily available to larger fleets. Last year the C-40C/B fleets achieved 94.5 percent aircraft availability and 96.6 percent departure reliability.

Miscellaneous:

The C-40B is operated by the 89th Airlift Wing, Andrews Air Force Base, MD (2 aircraft), the 15th Airlift Wing, Hickam Air Force Base, HI (1 aircraft), and the 86th Airlift Wing, Ramstein Air Base, Germany (1 aircraft).

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