

Cessna Citation Mustang Model Guide

The Cessna Citation Mustang (Model 510) is an entry-level business jet built 2006-2017, seating 4-5. It has two Pratt & Whitney Canada PW-615F engines rated at 1,460 lb thrust each. The flight planning guide gives a 41,000 ft certified ceiling, typical cruise of 320-345 KTAS and a 3,110 ft sea-level ISA takeoff distance at MTOW.

KEY TAKEAWAYS

- Max takeoff weight is 8,645 lb. Max payload is 1,200 lb but only 600 lb with full fuel (2,580 lb), so trade seats against range.
- Typical cruise is 320-345 KTAS at FL 350-390. Certified ceiling is 41,000 ft; single-engine service ceiling is 26,900 ft at MTOW.
- Manual sea-level ISA takeoff is 3,110 ft and landing is 2,380 ft. One 2010 listing shows a 6,600 ft balanced field length at 5,000 ft and +20C.
- Sample listings: a 2009 aircraft at \$2,345,000 (497.8 hrs) and a 2010 aircraft at \$2,100,000 (379.8 hrs), both with engines on PowerAdvantage+.

CABIN, PAYLOAD AND WEIGHTS

The cabin is 14 ft 9 in long overall, 54 in high and 55 in wide, with 144 ft3 of passenger volume. The flight manual specs list 5 passenger seats and 63 ft3 (718 lb) of baggage. Cessna's brochure cites 57 cu. ft. in two external compartments, so confirm on the airframe. Max ramp weight is 8,730 lb, max zero fuel 6,750 lb and max landing 8,000 lb.

PERFORMANCE AND RANGE

Manual rate of climb is 3,010 ft/min on two engines and 870 ft/min on one. Cessna's brochure claims a 1,150 nm full-fuel range with 100 nm NBAA IFR reserves. A 2010 listing quotes 1,022 nm tanks full and 643 nm seats full. Registry family data shows up to 1,340 nm and 340 kt, which are family maximums and not a promise for any one aircraft.

WHAT TO CHECK BEFORE BUYING

Check the avionics and engines. The 2009 listing shows Garmin G1000 with RVSM and WAAS. Ask whether the G1000 NXi STC (SA01896WI) is fitted: Garmin's March 24, 2025 bulletin recommends software 413.46 at the next maintenance. The engines are PW-615F with a 3,500 hour TBO, so verify cycles and program enrolment. One listing shows MTOW as 8,654 lb against 8,645 lb in the manual, so verify the figure.

SPECIFICATIONS

Engine Thrust Each Lbs	1460
Max Fuel Capacity Lbs	2580
Baggage Capacity Lbs	718
Certified Ceiling Ft	41000
Service Ceiling One Engine Ft	26900

PERFORMANCE

Takeoff Distance Sl Isa Mtow Ft	3110
Landing Distance Sl Isa Mlw Ft	2380
Rate Of Climb Two Engines Fpm	3010
Rate Of Climb One Engine Fpm	870
Typical Cruise Min Kts	320
Typical Cruise Max Kts	345
Certified Ceiling Ft	41000
Service Ceiling One Engine Ft	26900

V-SPEEDS

Vmo Kts	250
Vfe Takeoff Approach Kts	185
Vfe Landing Kts	150
Vle Kts	250
Vlo Retracting Kts	185
Vmca Flaps 0 Kts	92
Vmca Flaps 15 Kts	81
Vmcg Kts	73

WEIGHT & BALANCE

Max Ramp Weight Lbs	8730
Max Takeoff Weight Lbs	8645
Max Landing Weight Lbs	8000
Max Zero Fuel Weight Lbs	6750
Max Fuel Capacity Lbs	2580
Basic Operating Weight Lbs	5550
Max Payload Lbs	1200
Payload At Full Fuel Lbs	600

SAFETY NOTES

- The Flight Planning Guide is not a substitute for the FAA approved Aircraft Flight Manual, which must be carried in the airplane at all times.
- The Mustang is certified under 14 CFR Part 23 Normal category, but Cessna calculated takeoff and landing performance using Part 23 Commuter category rules.
- Listings are sold as is, and the specifications are subject to verification by the buyer before purchase.