

CESSNA 510 Citation Mustang Model Guide

The CESSNA 510 Citation Mustang is a twin-engine business jet. It has two Pratt & Whitney PW615F turbofan engines and is FAA approved in the normal category under 14 CFR 23. The source documents give weights, speeds, training and maintenance items. They give no registry range, seat count or production-year data, so confirm those against the specific airframe.

KEY TAKEAWAYS

- Typical weights: 8,645 lb takeoff, 8,000 lb landing, 6,750 lb zero fuel, 5,350 lb typical empty (training guide figures).
- Single-pilot type rating (CE510S): 20 ground hours, 9 flight hours, then a practical test within 10 days of finishing the course.
- Brake hydraulic pressure can bleed off within 30 minutes of power being disconnected. One Mustang rolled into a fuel bowser when its chocks were removed.
- Match the flight manual revision and temporary changes to the serial number. Many changes apply only to certain serial ranges.

DOCUMENTS AND SERIAL EFFECTIVITY

The FAA approved Airplane Flight Manual 510FM-07 (Revision 7, 21 November 2008) covers airplanes 510-0001 and on. Its temporary changes carry serial-specific effectivity, for example 510-0001 thru -0065 not incorporating SB510-34-02. Cessna's Specification and Description, Revision G, March 2014, covers units 510-0455 and on.

PRE-BUY AND MAINTENANCE CHECKS

Airframe maintenance manual Revision 14 added unscheduled checks for a cabin or tailcone fluid spill, exposure to high winds while parked, and running the air conditioner when it is not in use. It also added tracking tasks for microbiological contamination (chapter 5-19-00). An FAA bulletin (SAIB CE-10-49 R1) covers heated drain mast P/N 105881 overheating on the ground. Ask whether power to the heater is disconnected when the aircraft is parked.

FLYING AND TRAINING NOTES

One instructor advises using the full checklist for the first 100 hours and never running checklists below 1500 ft AGL. The preflight includes checking the oil filter differential pressure indicators, hydraulic accumulator precharge, and gear blowdown and emergency brake bottle charges. Memory items: abort below V1, continue above V1.

SPECIFICATIONS

Engine Count	2
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PERFORMANCE

Mmo Mach	0.63
Vmo Applies Up To Ft	27120
Emergency Restart Starter Assist Max Ft	20000

V-SPEEDS

Vmo Kts	250
Turbulent Air Kts	160
Flaps 15 Max Kts	185
Flaps 30 Max Kts	150

WEIGHT & BALANCE

Max Ramp Weight Lbs	8730
Max Takeoff Weight Lbs	8645
Max Landing Weight Lbs	8000
Max Zero Fuel Weight Lbs	6750
Optimum Zero Fuel Weight Lbs	6300
Typical Empty Weight Lbs	5350
Nose Baggage Lbs	320
Tail Baggage Lbs	300

SAFETY NOTES

- Do not rely on parking-brake pressure after electrical power is off. Hydraulic pressure may dissipate within 30 minutes, so keep chocks in place and confirm brakes before removing them.
- Training materials are not the approved source. Where they conflict with manufacturer or regulator publications, the manufacturer's or regulator's publications take precedence.
- FAA recommends disconnecting power to heated drain mast P/N 105881 when the aircraft is on the ground and not released for flight. This is not an Airworthiness Directive.