DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A2CE
Revision 8
Textron Aviation Inc.
336
July 29, 2015

TYPE CERTIFICATE DATA SHEET NO. A2CE

This data sheet which is part of Type Certificate No. A2CE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder	Textron Aviation Inc. One Cessna Boulevard Wichita, Kansas 67215
Type Certificate Holder Record	Cessna Aircraft Company transferred to Textron Aviation Inc. on July 29, 2015

I. Model 336, Skymaster, 4 PCLM (Normal Category), Approved May 22, 1962

Engines	Two Continental IO-360-A Rated 210 BHP Takeoff, and 195 BHP Maximum Continuous	
Fuel	*100/130 minimum grade aviation gasoline (See Note 3) (See NOTE 5 for alcohol-based fuels warning.)	
Engine Limits	*Rating, standard atmosphere Maximum continuous r.p.m., and in. Hg. at Critical altitude (2,250 ft.) 2800 r.p.m. and 26.2 in. Hg. Sea level 2800 r.p.m. and 26.5 in. Hg. Takeoff (5 min. limit), 2800 r.p.m. (Full Throttle)	
Propeller and Propeller Limits	McCauley constant speed full-feathering installation (a) (Front) McCauley D2AF34C46/76C or D2AF34C60/76C Diameter: not over 76 in., not under 74.5 in. No further reduction permitted Pitch settings at 30" sta.: 11.7 Deg. low, 79.0 Deg. feather (b) (Rear) McCauley D2AF34C56/L76C or D2AF34C61/L76C Diameter: not over 76 in., not under 74.5 in. No further reduction permitted Pitch settings at 30" sta.: 10.8 Deg. low, 79.0 Deg. feather (c) (Rear) Cooling fan Cessna 1457210 (d) (Front) Woodward hydraulic governor 210443 or A210471 (e) (Rear) Woodward hydraulic governor 210443 or A210471 (f) (Front) Cessna spinner 1457300 (g) (Rear) Cessna spinner 1457300 (h) (Front) Cessna spinner 1457306 (Alternate (i) (Rear) Cessna spinner 1457306 (Alternate)	56 lb. (+24.5) 57 lb. (+231) 11 lb. (+224) 4 lb. (+ 31) 4 lb. (+220) 3 lb. (+24.5) 3 lb. (+231) 2 lb. (+24.5) 2 lb. (+231)
Airspeed Limits (CAS)	*Never exceed *Maximum structural cruising *Flaps extended *Maneuvering	212 mph. (184 knots) 180 mph. (156 knots) 120 mph. (104 knots) 145 mph. (126 knots)

I. Model 336 (cont'd)

C.G. Range (Landing Gear Extended)	(See NOTE 4.) Forward Limits: Linear variation from 138.8 in. aft of datum at 3,900 lb. to 136.4 in. aft of datum at 3,000 lb.; 136.4 in. aft of datum at 3,000 lb. or less. Aft Limits: 140.7 in. aft of datum at 3,900 lb. or less.				
Empty Wt. C.G. Range	None				
Datum	65.0 forward of front face of front firewall				
Leveling Means	Upper edge of front seat track				
Maximum Weight	3,900 lb.				
No. of Seats	4 (2 at sta. +102; 2 at sta. +143)				
Maximum Baggage	365 lb. (Reference weight and balance for additional information) (See NOTE 4.)				
Fuel Capacity	92 gal. usable (2 tanks, 46 gal. ea. at +150)				
Oil Capacity	10 qt. - front (+43.5) (7 qt. usable) 10 qt. - rear (+207.5)(7 qt. usable) See Note 1 for data on system oil and fuel				
Control Surface Movements	Wing flaps			Down	30 Deg.
	Aileron	Up	21 Deg	Down	15 Deg.
	Elevator	Up	26 Deg	Down	20 Deg.
	Elevator tab	Up	10 Deg.	Down	26 Deg.
	Rudder(measured parallel to 0.0.W.L.)	Inboard	15 Deg.	Outboard	22 Deg.
Serial Nos. Eligible	633, 636, 336-0001 through 336-0195				

Data Pertinent to All Models

Certification Basis:
CAR 3 dated May 15, 1956, and Amendments 3-1 through 3-5.

Type Certificate No. A2CE issued May 22, 1962.

Application for Type Certificate dated February 23, 1960.

Type Certificate issued and the DMCR authorized to issue airworthiness certificates under the delegation option provisions of Part 410 of the Regulations of the Administrator.

Production Basis:
Production Certificate No. 4

Equipment:
The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition, the following item of equipment is required:

1. Stall warning indicator, Cessna Drawing 0511062-9

Data Pertinent to All Models (cont'd)

NOTE 1. Current weight and balance report including list of equipment included in the certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification.

The certified empty weight and corresponding center of gravity location must include system oil of 11 lb. at (+125.5) and unusable fuel of 5 lb. at (+159.5) with standard wing fuel tanks.

NOTE 2.

(a) The following placards must be displayed in full view of the pilot:
- (1) "This airplane must be operated as a normal category airplane in compliance with the operating limitations as stated in the form of placards, markings, and manuals."
- (2) "No acrobatic maneuvers, including spins, approved."
- (3) "Maximum maneuvering speed 145 m.p.h. - CAS."
- (4) "Maximum design weight 3,900 lb."
- (5) "Maximum flight maneuvering load factors: Flaps up +3.8 to -1.52
  Flaps down +2.0"
- (6) "Maximum altitude loss in stall recovery 140 feet."
- (7) "Maximum flap extension speed 10 Deg. -160 m.p.h., CAS
  10 Deg.- 30 Deg. -120 m.p.h., CAS"

(b) The following placard must be installed on the control lock:
"Control lock - Remove before starting engines."

(c) The following placards must be displayed on the baggage door:
"Maximum capacity 365 lb. For additional loading instructions, see Weight and Balance data;" and "CAUTION – AFT CENTER OF GRAVITY LIMITATION MAY RESTRICT LOADING OF THIS COMPARTMENT TO LESS THAN 365 POUNDS."
[See NOTE 4.]

(d) The following placard must be installed on the fuel selector cover:

"Front Engine		Rear Engine	
Off		Off	
Left Main	46.0 Gal.	Right Main	46.0 Gal.
Right Main	46.0 Gal.	Left Main	46.0 Gal."

(e) The following placard must be installed near fuel selector:
"Takeoff and landing - Front engine, Left main - Rear Engine, Right main."

(f) The following placard must be installed near propeller control:
To feather, pull prop control through detent."

(g) The following placard must be installed on lower right corner of flight panel:
With inoperative engine, feather propeller."

(h) The following placard must be installed adjacent to the fuel filler caps:
"Tank Capacity 46.4 U.S. Gallons, 100/130 minimum grade."

NOTE 3. 1%, by volume, isopropyl alcohol approved for use as fuel anti-icing additive when used as outlined in Cessna Service Letter ME73-25 dated November 2, 1973, or subsequent revisions.

In addition to the above placards, the prescribed operating limitations indicated by (*) under Section I must be displayed by permanent markings, placards, or reports (Weight and Balance Data).

NOTE 4. FAA Airworthiness Directive AD 78-16-04, issued October 14, 1978, affects all Model 336 airplanes and imposed more restrictive aft center of gravity limits.

NOTE 5.

WARNING: Use of alcohol-based fuels can cause serious performance degradation and fuel system component damage, and is therefore prohibited on Cessna airplanes.

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