

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SA572CE

This certificate issued to

Barbara or Bob Williams
Box 431, 213 N. Clark
Udall, KS 67146

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product--Type Certificate Number: 3A19

Make: Cessna

Model: 150; 150A; 150B; 150C;
150D; 150E; 150F; 150G;
(See continuation sheet 3 of 7)

Description of Type Design Change:

Installation of Lycoming 150 or 160 HP Model O-320-() engine.

Data Required:

(1) A copy of this certificate, including continuation sheets 2 through 7;
(See continuation sheet 3 of 7)

Limitations and Conditions:

Landplane Models: 150 through 150H, 150J, 150K, 150L, A150L, 150M,
A150M normal category; A150K aerobatic category 150 HP only
(See continuation sheet 7 of 7)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 22, 1968

Date reissued: July 01, 1975; September 05, 1979

Date of issuance: May 07, 1968

Date amended: March 16, 1970; November 11, 1977;
June 25, 1980; December 01, 1981;
December 20, 2001



By direction of the Administrator

Joel M. Ligon
(Signature)

Joel L. Ligon
Program Manager
Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate
(Continuation Sheet)

Number SA572CE

Date of Issuance: May 07, 1968
Date Amended: December 20, 2001

Model (Continued):

150H ; 150J ; 150K ; 150L ;
150M ; A150K ; A150L ; A150M

Description of Type Design Change (Continued):

- (2) Doyn Aircraft drawing List 2500, Rev. 1 dated October 20, 1969, or later revision stamped FAA Approved for Cessna 150 through 150H, 150J, 150K, and A150K landplanes and 150G, 150H, 150J, and 150K seaplanes (or)
- (3) MASA Drawing List 15000 dated October 26, 1977, or later revision stamped FAA Approved for Cessna 150 through 150H, 150J, 150K, A150K, 150L, A150L, 150M, A150M landplanes; 150G, 150H, 150J, 150K seaplanes (or)
- (4) MASA Drawing List 15000 dated June 23, 1981, or later "FAA Approved" revisions required for 160 HP engine installations;
- (5) "FAA Approved" Doyn Airplane Flight Manual dated March 16, 1970, required for seaplanes.

Type Certificate Data Sheet 3A19 applies except as follows:

Engines: Lycoming O-320, O-320-A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -E1A, -E1B, -E1C, -E2A, -E2B, -E2C, -E2D, -E2H, -E3D, -E3H

*Fuel: 80/87 Minimum octane aviation gasoline

*Engine Limits: For all operations - 2700 rpm (150 hp)

*Powerplant Instrument Markings:

Tachometer	2700 rpm	(red line)
Oil Temperature Gage	245 °F.	(red lines)
Oil Pressure Gage: Minimum	25 psi	(red line)
Maximum	100 psi	(red line)
Normal	65 psi to 90 psi	(green arc)
Fuel Pressure Gage: Minimum	0.5 psi	(red line)
Maximum	8.0 psi	(red line)
Normal	3 psi to 5 psi	(green arc)

Oil Capacity: 8 quarts (-15) 2 quarts unusable

Engines: Lycoming O-320-B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, -B3C, -D1A, -D1B, -D2A, -D2B, -D2G, or -D3G

*Fuel: 100 or 100LL aviation gasoline

*Engine Limits:

Takeoff 2700 rpm (160 hp)

Maximum continuous 2500 rpm (150 hp)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA572CE

Date of Issuance: May 07, 1968
Date Amended: December 20, 2001

Description of Type Design Change (Continued):

*Powerplant Instrument Markings:

Tachometer	2700 rpm	(red line)
	2000 - 2500 rpm	(green arc)
Oil Temperature Gage	245 °F	(red line)
Oil Pressure Gage: Minimum	25 psi	(red line)
Maximum	100 psi	(red line)
Normal	65 psi to 90 psi	(green arc)
Fuel Pressure Gage: Minimum	0.5 psi	(red line)
Maximum	8.0 psi	(red line)
Normal	3 psi to 5 psi	(green arc)

Oil Capacity: 8 quarts (-15) 2 quarts unusable

Propeller and Propeller Limits:

A. Landplane

1. McCauley 1C172/TM - Diameter: Not over 74 in., not under 72.5 in.
Static rpm at maximum permissible throttle setting: Not over 2250, not under 2150.
2. Sensenich M74DM
Diameter: Not over 74 in, not under 72.5 in.
Static rpm at maximum permissible throttle setting: Not over 2275, not under 2175.

No additional tolerance permitted.
MASA / Doyn 2512 spinner assembly required.

B. Seaplane

1. McCauley 1C172/TM
Diameter: Not over 76 in., not under 74.5 in.
Static rpm at maximum permissible throttle setting: Not over 2400, not under 2350.
2. Sensenich M74DM
Diameter: Not over 74 in., not under 74 in.
Static rpm at maximum permissible throttle setting: Not over 2400, not under 2350.

No additional tolerance permitted.
MASA / Doyn 2512 spinner assembly required.

Supplemental Type Certificate

(Continuation Sheet)

Number SA572CE

Date of Issuance: May 07, 1968
Date Amended: December 20, 2001

Description of Type Design Change (Continued):

C.G. Range:

A. Landplane

Models 150, 150A, 150B, 150C -
+33.4 to +35.5 at 1500 lbs.
+32.2 to +35.5 at 1250 lbs or less

Models 150D, 150E, 150F, 150G, 150H, 150J, 150K, A150K, 150L, A150L, 150M, A150M -
+32.9 to +35.5 at 1600 lbs.
+31.5 to +35.5 at 1280 lbs. or less

Straight line variation between points given.

B. Seaplane

+34.0 to 35.5 at 1700 lbs.
+33.0 to +35.5 at 1400 lbs. or less

Straight line variation between points given.

Maximum Weight: 1700 lbs. (Edo 88A-1650 float)
Flight Manual required.

Capacity:

Landplane	Unusable Oil	Unusable Fuel
Seaplane	4 lbs. @ -15	21 lbs. @ +40
	4 lbs. @ -15	27 lbs. @ +40

Placards Required: In front of and in clear view of the pilot:

Models 150, 150A, 150B, 150C -

"Maximum design maneuvering speed 106 mph (92 knots)"

"Maximum design weight - 1500 lbs."

"Intentional spins prohibited"

"Normal category operations only."

Models 150D, 150E, 150F, 150G, 150H, 150J, 150K -

"Maximum design maneuver speed 109 mph (95 knots)"

"Maximum design weight" - Landplane - 1600 lbs.

Seaplane - 1700 lbs.

"Intentional spins prohibited"

"Minimum altitude loss in stall recovery - 150 ft."

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Supplemental Type Certificate

(Continuation Sheet)

Number SA572CE

Date of Issuance: May 07, 1968
Date Amended: December 20, 2001

Description of Type Design Change (Continued):

(Seaplanes only)

"Normal category operation only"

"Maximum flight maneuvering load factors"

Flaps Up +3.8 -1.52

Flaps Down +3.5

Models 150L, A150L, 150M, and A150M -

"Maximum design maneuvering speed - 109 mph (95 knots)"

"Maximum design weight - 1600 lbs."

"Intentional spins prohibited"

"Normal category operation only"

"Maximum flight maneuvering load factors"

Flaps Up +3.8 -1.52

Flaps Down +3.5

"Total combined weight of occupant, fuel, and baggage must not exceed ** lbs.
(** enter value obtained by subtracting 11 lbs. Oil and empty weight from maximum weight.)"

Above the fuel pump switch:

"Fuel Pump - Pull On."

On the dome light fuse placard:

"Fuel Pump"

On nav light placard:

"Nav and starter"

Alter fuse decal to agree with generator or alternator capacity.

Model 150C, 150H, 150J, 150K seaplanes:

"Retract water rudder for takeoff and landing."

The certificated noise level for this airplane at 1600 lbs. maximum weight is 66.3 dB(A). No determination has been made by the Federal Aviation Administration that the noise levels of this airplane are or should be acceptable or unacceptable for operation at, into, or out of, any airport. (150L, 150M, A150L, and A150M only).

All seaplanes must be equipped with a FAA Approved Doyn Airplane Flight Manual dated March 16, 1970.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate
(Continuation Sheet)

Number SA572CE

Date of Issuance: May 07, 1968

Date Amended: December 20, 2001

Description of Type Design Change (Continued):

In addition to the placards specified above, the prescribed operating limitations indicated by an asterisk (*) under landplane or seaplane section of this addendum must also be displayed by permanent markings.

Limitations and Conditions (Continued):

Seaplane Models: 150G, 150H, 150J, 150K; 150 HP only.

Compatibility of this design change with previously approved modifications must be determined by the installer.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

- END -

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.