United States of America

Department of Transportation — Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA3784WE

*This certificate, issued to* Richard H. Wallace

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part* 3 *of the* Civil Air *Regulations*, dated November 1, 1949.

*Original Product — Type Certificate Number* 5A5

*Make:* Cessna

*Model:* 305A, Landplane only. Normal and Utility Category, N62364, Serial No. 23484

*Description of Type Design Change:*
Installation of Continental O-470-15 engine, McCauley 2A36C1/90M Constant Speed Propeller, extended engine cowl lip, Jasco 50 amp alternator, modified 24 volt electrical system and associated changes in accordance with Richard Wallace Report No. 1 dated September 21, 1978.

See continuation sheets 3 and 4.

*Limitations and Conditions:* Data not suitable for reproduction of installation in other aircraft; therefore, they are satisfactory for Cessna 305A, N62364, Serial No. 23484 only. No additional modifications of this type are to be approved solely by reference to this Supplemental Type Certificate or to the data submitted therefor. A copy of this certificate and Richard Wallace Report No. 1 shall be maintained as part of the permanent records for this modified aircraft.

*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* April 21, 1978 *Date reissued:*

*Date of issuance:* November 9, 1978 *Date amended:*

*By direction of the Administrator*

A. C. Fischfoder
*(Signature)*

Acting Chief, Aircraft Modification Branch
*(Title)*

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

*This certificate may be transferred in accordance with FAR 21.47*

FAA Form 8110-2 (10-68)

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# Supplemental Type Certificate

## (Continuation Sheet)

*Number* SA3784WE
Date: NOV 9 1978

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA3784WE

The conditions and limitations of Aircraft Specification No. 5A5 apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA3784WE, prescribes conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this Addendum shall be maintained as part of the modified aircraft permanent records.

Supplemental Type Certificate Holder: Richard H. Wallace. and Utility

I - Model 305A. (Landplane only), Normal/Category, as modified by STC SA3784WE.

| | |
|---|---|
| Engine | Continental O-470-15 |
| Engine Limits | Takeoff (one minute) 2600 RPM (213 HP)<br>All other operations 2300 RPM (190 HP) |
| Propeller and Propeller Limits | McCauley 2A36C1/90M constant speed<br>Hub Model : 2A36C1<br>Blade Model: 90M-0<br>Diameter : 90" Maximum<br>88" Minimum<br>Pitch Settings at 36 in. Sta. - Low 7.0°<br>High 22.5°<br><br>Governor : Woodward 210105 |
| Maximum Weight | 2100 lbs. |
| Powerplant Instrument Markings | Tachometer: Maximum - 2600 RPM (Red Radial)<br>Caution - 2300 - 2600 RPM (Yellow Arc)<br>Normal - 1600 - 2300 RPM (Green Arc)<br><br>Oil Temperature Gage:<br>Maximum - 107°C (Red Radial) |

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# Supplemental Type Certificate

## (Continuation Sheet)

*Number* SA3784WE
Date: NOV 9 1978

| | |
|---|---|
| Powerplant Instrument Markings (Continued) | Cylinder Head Temperature Gage:<br>450°F (232°C) (Red Radial)<br>(Bayonet type thermocouple on #4 cylinder)<br><br>Oil Pressure Gage:<br>Minimum - 30 psi (Red Radial)<br>Maximum - 60 psi (Red Radial)<br>Green Arc between 30 and 60 psi |
| Certification Basis | Same as specified by Aircraft Specification No. 5A5. |
| Required Equipment | In addition to the equipment applicable and required by Aircraft Specification No. 5A5, the equipment specified by Richard Wallace Report No. 1 must be installed as a result of the incorporation of this STC. |

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in the aircraft.

NOTE 2. The following placards must be installed in clear view of the pilot:

a. Adjacent to alternator switch:

"ALTERNATOR"
"DO NOT TURN OFF ALTERNATOR IN FLIGHT
EXCEPT IN EMERGENCY"

b. On instrument panel near oil temperature gage:

"CLIMB AT 100 MPH MINIMUM
FOR ENGINE OIL COOLING"

c. At the propeller control:

"PUSH TO INCREASE RPM".

- END -

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