United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA5695NM

This certificate, issued to Robert K. Lierman

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.*

Original Product — Type Certificate Number 3A19

Make: Cessna Aircraft Company

Model: 150M

Description of Type Design Change: Installation of Lycoming O-235-L2C engine, McCauley 1A103/TCM6958 propeller, C-152 model wings, 24 V electrical system and other modifications as listed on Robert K. Lierman's project description ANM-100S-1981.

Limitations and Conditions Data pertaining to this modification are considered inadequate for other aircraft. This approval is limited to the installation in Cessna 150M, Serial No. 15078705, R/N N704LW, only. A copy of this Certificate and FAA Approved Supplemental Airplane Flight Manual of October 7, 1992, must be maintained as part of the permanent records for the 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 18, 1991

Date of issuance: October 7, 1992

Date reissued:

Date amended:

By direction of the Administrator

(Signature)

Manager, Special Certification Branch
Seattle 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.

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 SA5695NM

Limitations and Conditions (Continued):

The conditions and limitations of the Type Certificate Data Sheet No. 3A19 apply except where superseded by the following:

Engine:	Lycoming O-235-L2C
Fuel:	100LL/100 Min. Grade Aviation Fuel
Engine limits:	For all operations 2550 RPM (110 HP)
Propeller and Propeller Limits:	McCauley 1A103/TCM6958 Diameter not over 69 in., not under 67.5 in. Static RPM at full throttle (carburetor heat off and mixture leaned to maximum RPM) is 2280 to 2380 RPM. For allowable variations in static RPM at non-standard day refer to the Cessna 152 Service Manual. Spinner as per Cessna Dwg. 0450073

Airspeed limits:

Never Exceed Speed	149 KIAS
Maximum Structural Cruising Speed	111 KIAS
Maneuvering Speed	
at 1670 lbs	104 KIAS
at 1500 lbs	98 KIAS
at 1350 lbs	93 KIAS
Maximum Flap Extended Speed	85 KIAS

Maximum Weight: 1670 lbs

C.G. range: (+32.65) to (+36.5) at 1670 lbs
(+31.0) to (+36.5) at 1350 lbs or less
Straight line variation between points given

-END-

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

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.