

United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA5998SW-D

*This Certificate issued to* RAM Aircraft, Limited Partnership  
7505 Karl May Drive  
Waco, TX 76708

*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 :* A7CE

*Make :* Cessna

*Model :* 414

*Description of Type Design Change:* Installation of Teledyne Continental TSIO-520-NB engines as modified by STC SE4327SW-D and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers in accordance with Drawing. No. 1011, Rev. D, dated January 31, 1985 or later FAA approved revision. Increase max. takeoff weight to 6510 lbs. max. ramp weight to 6550 lbs., and max. continuous power to 325 h.p. in accordance with RAM Aircraft, Limited Partnership Report No. 85-5 and Report No. 85-19, Rev. A, dated September 12, 1985, or later FAA approved revision.

*Limitations and Conditions:*

1. FAA approved airplane flight manual supplement dated August 26, 1988, or FAA approved airplane flight manual supplement dated September 4, 1986, (or later FAA approved revision) is required when aircraft engines are modified per STC SE4327SW-D incorporating RAM economy camshaft.

(See continuation sheet 3 of 3)

*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 03, 1985

*Date reissued :* October 8, 2001; February 12, 2008;  
August 28, 2008

*Date of issuance :* September 12, 1985

*Date amended :* September 5, 2008; August 26, 1988  
Revision 2



*By direction of the Administrator*

ORIGINAL SIGNED BY TERRY BOWDEN

(Signature)

Terry L. Bowden  
DAS administrator      DAS-700100-SW  
RAM Aircraft LP        Waco, Texas

(Title)

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA5998SW-D

Date of Issuance: September 12, 1985

Date Amended: August 26, 1988

Reissuance Date: August 28, 2008

*Limitations and Conditions* (Continued):

2. Gross weight increases and maximum continuous power increases require the installation of STC SE4327SW-D.
3. This STC is not valid unless airplane has been modified per STC SA48NW.
4. The installer must determine whether this design change is compatible with previously approved modifications. 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.