

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA4011SW

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 : 3A25, 3A10

Make : Cessna

Model : 320D, 320E, 320F, T310P, T310Q, T310R

Description of Type Design Change:

Installation of TSIO-520-N, or TSIO-520-NB engines according to Drawing List 1026, Revision E, dated 8/20/86, or later FAA approved revision.

Limitations and Conditions:

(See continuation sheet 3 of 4)

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 27, 1979

Date reissued : October 08, 2001

Date of issuance : July 09, 1979

Date amended : May 03, 1988 Revision 7



By direction of the Administrator

(Signature)
S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(Title)

United States Of America
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Supplemental Type Certificate
(Continuation Sheet)

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Supplemental Type Certificate
(Continuation Sheet)

Number SA4011SW

Date of Issuance: July 09, 1979

Date Amended: May 03, 1988

Reissuance Date: October 8, 2001

Limitations and Conditions (Continued):

1. The following FAA Approved Airplane Supplemental Flight Manuals are required:

- a. Dated July 6, 1979, is required for Cessna Models 320D, 320E, 320F with TSIO-520-N Engines:
- OR
- dated May 1, 1981, with TSIO-520-N or -NB Engines:
- OR
- dated February 12, 1982, with TSIO-520-N or -NB Engines and McCauley 3AF32C93/82NC-5.5 or 3AF32C505/82NEA-5.5 propellers;
- OR
- dated March 4, 1982, with TSIO-520-NB Engines modified by STC No. SE4327SW and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers;
- OR
- dated May 18, 1982, with TSIO-520-N or -NB Engines and Hartzell PHC-C3YF/FC7663DB-2Q propellers;
- OR
- dated November 18, 1986, with TSIO-520-NB Engines modified by STC No. SE4327SW and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers.
- b. Dated July 9, 1979, is required for Cessna Models T310P, T310Q, and T310R with TSIO-520-N Engines and McCauley 3AF32C93/82NC-5.5 propellers;
- OR
- dated April 30, 1981, with TSIO-520-N or -NB Engines and McCauley 3AF32C93/82NC-5.5 propellers;
- OR
- dated February 12, 1982, with TSIO-520-N or -NB Engines and McCauley 3AF32C93/82NC-5.5 or 3AF32C505/82NEA-5.5 propellers;
- OR
- dated March 4, 1982, with TSIO-520-NB Engines modified by STC No. SE4327SW and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers;
- OR
- dated May 17, 1982, with TSIO-520-N or -NB Engines and Hartzell PHC-C3YF/FC7663DB-2Q propellers;
- OR
- dated May 3, 1988, with TSIO-520-NB Engines modified by STC No. SE4327SW and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers.

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Number SA4011SW

Date of Issuance: July 09, 1979

Date Amended: May 03, 1988

Reissuance Date: October 8, 2001

Limitations and Conditions (Continued):

- c. Dated February 26, 1986, is required for Cessna Models T310P and T310Q with TSIO-520-NB Engines modified by STC No. SE4327SW and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers;
OR
dated November 5, 1986, with TSIO-520-NB Engines modified by STC No. SE4327SW and Hartzell PHC-C3YF-2UF/FC7663D-2Q or PHC-C3YF-2UF/FC7663DB-2Q propellers.
2. Only those airplanes operated in accordance with the AFMS listed in 1(c) are eligible at a takeoff gross weight of 5670 lbs.
3. Compatibility of this modification with other 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.

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