

**ANAC** AGÊNCIA NACIONAL  
DE AVIAÇÃO CIVIL

Of. 175/2013/GGCP/SAR-ANAC

São José dos Campos, 25 February 2013.

Mr. Chuck Swanson  
Engineering Manager  
Sensenich Propeller Manufacturing Company, Inc.  
14 Citation Lane  
Lititz, PA 17543  
USA

**Subject:** Brazilian validation of FAA STC # SA826NE.

**Ref.:** ANAC Project Number H.02-3950-0.

**Enclosure:** CST # 2013S02-08.

Dear Sir,

1. Please find enclosed the Brazilian Supplemental Type Certificate (CST) # 2013S02-08, related to the Brazilian validation of FAA STC # SA826NE, applicable to Cessna Aircraft 172I, 172K, 172L, 172M, 172N and 172P aircraft models.

Yours sincerely,



Hélio Tarquinio Júnior  
General Manager

Aeronautical Product Certification Branch

LVC/lvc  
Copies:  
PST 1  
FAA (e-mail: [james.chi.lee@faa.gov](mailto:james.chi.lee@faa.gov))  
Sensenich (e-mail: [chucks@sensenich.com](mailto:chucks@sensenich.com))

**PROTOCOLO ANAC**

00066.008058/2013-60



## CERTIFICADO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

**NÚMERO**            **2013S02-08**  
(Number)

Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,  
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

é conferido ao (à):    Sensenich Propeller Manufactoreing Company, Inc  
(is granted to:)        14 Citattion Lane  
                                 Lotitz, PA 17543  
                                 USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições  
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)  
especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.  
(specified hereon, met the applicable airworthiness requirements.)

**Produto Original - Número do Certificado de Tipo:** 3A12 (FAA)  
(Original Product - Type Certificate No:)

**Fabricante:** Cessna Aircraft Company  
(Manufacturer:)

**Modelo(s):** 172I, 172K, 172L, 172M, 172N and 172P  
(Model(s):)

### DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO: (Description of Type Design Change:)

Installation of a Sensenich model 74DM7S14 fixed-pitch metal propeller in accordance with Sensenich Propeller Company "Propeller Installation Instruction for Sensenich 74DM7S14 Propeller on Cessna 172, models I, K, L, M, N, P", dated 20 Dec. 1990, or later approved revisions.

This CST validates in Brazil the STC # SA826NE, issued by FAA (USA).

### LIMITAÇÕES E CONDIÇÕES: (Limitations and Conditions:)

See continuation sheet for applicable data.

### DATAS: (Dates of:)

**Do Requerimento:** 13 Apr. 2012  
(Application:)

**Da emissão:** 22 Feb. 2013  
(Issuance:)

**Da reemissão:**  
(Reissuance:)

**Da emenda:**  
(Amendment:)

**HÉLIO TARQUINIO JÚNIOR**

Gerente-Geral, Certificação de Produto Aeronáutico  
(General Manager, Aeronautical Product Certification)

Superintendente de Aeronavegabilidade  
(Airworthiness Superintendent)

NOTA:  
(Note:)

- a) Este Certificado e os dados técnicos com base no quais ele foi emitido, são válidos até que sejam cancelados, (This Certificate and the supporting technical data used for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Agência Nacional de Aviação Civil.)
- b) No caso de transferência de propriedade deste Certificado, o transferente deve preencher o quadro "Endosso" (In case of transfer of the property of this Certificate, the grantor should fill the blanks of "Transfer de Transferência", e o adquirente deve enviar este Certificado à Gerência Geral de Certificação de Produto Aeronáutico de Transferência", and the transferee must remit this Certificate to the Gerência Geral de Certificação de Produto Aeronáutico para que seja reemitido em seu nome. to permit reissuance of the Certificate in his name.)

**ENDOSSO DE TRANSFERÊNCIA**  
(Transfer Endorsement)

**Transfiro a propriedade deste Certificado Suplementar de Tipo para:**  
(I transfer the property of this Supplemental Type Certificate to:)

**ADQUIRENTE**  
(Transferee)

Nome: .....  
(Name:)  
Rua: .....  
(Street:)  
CEP: .....  
(Zip:)  
Cidade: .....  
(City:)  
Estado: .....  
(State:)  
País: .....  
(Country:)

**TRANSFERENTE**  
(Grantor)

Nome: .....  
(Name:)  
Rua: .....  
(Street:)  
CEP: .....  
(Zip:)  
Cidade: .....  
(City:)  
Estado: .....  
(State:)  
País: .....  
(Country:)  
Data de Transferência: .....  
(Date of Transfer:)

**Assinatura do Transferente:**  
(Signature of the Grantor:)

Nome: .....  
(Name:)  
Cargo: .....  
(Function:)



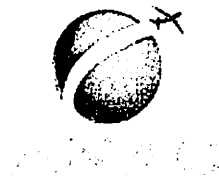
Folha de Continuação ao  
(Continuation Sheet to)

**CERTIFICADO SUPLEMENTAR DE TIPO**  
(Supplemental Type Certificate)

**NÚMERO 2013S02-08**  
(Number)

**LIMITAÇÕES E CONDIÇÕES:**  
(Limitations and Conditions:)

- I. The approval of this type design change should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that aircraft.
- II. 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.
- III. Operation must be performed in accordance with the applicable FAA approved Airplane Flight Manual Supplement (AFMS) specified below:
  - Document No. 3, dated 12 Feb. 1991, or later approved revision for Cessna Model 172 I, K and L (S/N 17256513 thru 17260758);
  - Document No. 4, dated 12 Feb. 1991, or later approved revision for Cessna Model 172 M (S/N 17256493, 17260759 thru 17267584, except 17261445 and 17261578);
  - Document No. 5, dated 12 Feb. 1991, or later approved revision for Cessna Model 172 N (S/N 17261445, 17261578, 17267585 thru 17271034, except S/N 17270050);
  - Document "FAA Approved Airplane Flight Manual Supplement to the POH for Cessna Model 172 N", dated 12 Feb. 1991, or later approved revision for Cessna Model 172 N (S/N 17270050, 17271035 thru 17274009);
  - Document "FAA Approved Airplane Flight Manual Supplement to the POH for Cessna Model 172 P", dated 12 Feb. 1991, or later approved revision for Cessna Model 172 P (S/N 17274010 thru 17276673).
- IV. Configuration 1: Cessna 172 I, K, L, M (150HP):
  - a) Propeller Diameter: 74 inches to 72.5 inches
  - b) Static range: 2100 RPM to 2400 RPM
  - c) Pitch Limits: 56 inches to 60 inches.



Folha de Continuação ao  
(Continuation Sheet to)

**CERTIFICADO SUPLEMENTAR DE TIPO**  
(Supplemental Type Certificate)

**NÚMERO 2013S02-08**  
(Number)

**LIMITAÇÕES E CONDIÇÕES:**  
(Limitations and Conditions:)

- V. Configuration 2: Cessna 172 N and P (160HP):
- a) Propeller Diameter: 74 inches to 72.5 inches
  - b) Static range: 2200 RPM to 2500 RPM
  - c) Pitch Limits: 56 inches to 62 inches.
- VI. A copy of this Certificate and the Supplement referred on item III above as applicable shall be maintained as part of the permanent records of the modified aircraft.

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