

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

Number SA7088NM

This Certificate issued to NAVION CUSTOMS, LLC
7000 Merrill Avenue Box 95
Chino, California 91710

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations. *certification basis is set forth in Aircraft Specification A-782*

Original Product Type Certificate Number : A-782

Make : Navion

Model : A, B, D, E, F, G, H

Description of Type Design Change: Installation of a Teledyne Continental Motor IO-550B engines; McCauley D3A32C409C/82NDB-2 propeller; tubular engine mount; cowling; baffles, air induction system; and cowl flap mechanism in accordance with Master Drawing List 2016, Revision A, dated April 11, 1994, or later approved revisions.

Limitations and Conditions: The approval of this change in type design applies basically to the above-listed models only. The approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this STC must be included in the permanent records of each airplane modified in accordance with this STC. 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. (See Continuation Sheets 3, 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 : January 17, 1992

Date reissued : March 6, 2013, May 30, 2014

Date of issuance : May 6, 1994

Date amended :

By direction of the Administrator



(Signature)

Haifa Haj-Eid
Supervisor, Technical & Administrative Support Staff,
Los Angeles 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.

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Limitations and Conditions Continued:

The Limitations and Conditions of Aircraft Specification No. A-782 apply except as follows:

Engine: Teledyne Continental IO-550-B

Fuel: 100/100LL Minimum Grade Aviation Gasoline

Engine Limits: For all operations, 2700 rpm maximum
Manifold Pressure: 27.0 maximum
(285) HP maximum for all operations)

Propeller & Propeller Limits: McCauley D3A32C409C/82NDB-2

Hub Model	D3A32C409C
Blade Model	82NDB-2
Maximum diameter	80 inches
Minimum diameter	78 1/2 inches
Pitch Settings at 30 inch station:	
Low pitch	13.7° ± 0.2°
High pitch	28.8° ± 0.5°
Spinner	McCauley D5541
Governor	Woodward K210452

Oil capacity: 12 U. S. qts. (10 U. S. qts. Usable)

Powerplant Markings:

Tachometer	
Red Radial	2700 r.p.m.
Green Arc	1800-2700 r.p.m.
Manifold Pressure	
Red Radial	27.0 in.Hg.
Fuel Pressure	
Green Arc	4-17.5 PSI
Red Radial (Minimum)	1.5 PSI
Red Radial (Maximum)	17.5 PSI
Oil Temperature	
Green Arc	75-225°F (23.9-107.2°C)
Red Radial (Minimum)	75°F (23.9°C)
Red Radial (Maximum)	245°F (115.5°C)

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Oil Pressure

Green Arc	30-60 PSI
Red Radial (minimum)	10 PSI
Red Radial (Maximum)	60 PSI

Cylinder Head Temperature

Green Arc	212-460°F (100-237.8°C)
Red Radial	460°C (237.8°C)

Required Equipment:

NOTE 1. Russell Druett FAA Approved Airplane Flight Manual Supplement Number 1 for Navion models A, B, D, E, F, G, and H original issued dated May 6, 1994, or later approved FAA revision, as modified per STC SA7088NM.

NOTE 2. Navion models A, B, D, E, & F must incorporate fuselage structural modification in accordance with Note 6 of Navion Aircraft Specification A-782.

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