

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

Number SE02881AT

This certificate issued to

A.E.R.O. Aviation Company
3701 Highway 162
Granite City, IL 62040

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 33 of the Federal Aviation Regulations. *through Amendment 33-8, effective May 2, 1977.*

Original Product--Type Certificate Number:

E5CE

Make:

Teledyne Continental Motors

Model:

IO-520-B, -BA, -BB, -C, or -CB

Description of Type Design Change: STC for the conversion of Teledyne Continental Motors (TCM) Models IO-520-B, -BA or -BB to AvPower Model IO-550-B-AP which has the same ratings and limitations as TCM Model IO-550-B, or the conversion of TCM Model IO-520-C or -CB to AvPower Model IO-550-C-AP which has the same ratings and limitations as TCM Model IO-550-C. Conversion of the Models IO-520-B, -BA, or -BB to the Model IO-550-B-AP shall be performed in accordance with AvPower Report AP1004-3 Master Parts List, Revision B dated March 26, 2004 and AvPower Report AP1004-6 Assembly Instructions, Revision B dated March 26, 2004, or later FAA approved revisions. Conversion of the Models IO-520-C or -CB to the Model IO-550-C-AP shall be performed in accordance with AvPower Report AP1004-4 Master Parts List, Revision B dated March 26, 2004 and AvPower Report AP1004-7 Assembly Instructions, Revision B dated March 26, 2004, or later FAA approved revisions.

Limitations and Conditions: This approval should not be extended to other engines 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 other previously approved modifications will produce no adverse effect upon the airworthiness of that engine/aircraft. 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. The Model IO-550-B-AP shall be installed, operated and maintained in accordance with AvPower Report AP1004-9, Instructions for Installation, Operation, Maintenance and Continued Airworthiness, Revision B dated March 26, 2004, or later FAA approved revision. The Model IO-550-C-AP shall be installed, operated and maintained in accordance with AvPower Report AP1004-10, Instructions for Installation, Operation, Maintenance and Continued Airworthiness, Revision B dated March 26, 2004, or later FAA approved revision.

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: March 03, 2003

Date reissued: April 05, 2005

Date of issuance: June 23, 2004

Date amended:



By direction of the Administrator

(Signature)

Melvin D. Taylor
Manager
Atlanta Aircraft Certification Office

(Title)