



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA00332BO

This certificate issued to: BE Aerospace, Inc., DBA SMR Technologies, Inc.
93 Nettie Fenwick Rd
Fenwick, WV 26202-4000

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 23 of the Federal Aviation Regulations.

Original Product – Type Certificate Number:

Make: Piper Aircraft Corporation

Model:

A3SO

PA-32R-301T, PA-32R-301 (HP), PA-32R-301 (SP),
PA-32-301, PA-32-301T, PA-32-301FT, PA-32-301XTC

Description of Type Design Change:

Installation of non-hazard ice protection system kits SMR9065-11, SMR9065-12, SMR9065-14, SMR9065-15, SMR9065-16, SMR9065-17, SMR9065-24, SMR9065-25, SMR9065-30, SMR9065-31, SMR9065-40, SMR9065-60, SMR9065-61, SMR9065-62, SMR9065-63, SMR9065-64, SMR9065-65, SMR9065-66, SMR9065-67, SMR9065-68, SMR9065-69, SMR9065-70, SMR9065-71, SMR9065-72, SMR9065-80, SMR9065-81, SMR9065-82, SMR9065-83, SMR9065-84, SMR9065-85, and SMR9065-86, in accordance with Installation Instructions as listed on MDL-0065, Revision H, dated September 12, 2014, or later FAA approved revisions.

Limitations and Conditions:

1. The following Airplane Flight Manual Supplement(s) (AFMS), or later FAA approved revisions must be carried on the airplane when the following kits are installed:
 - a. The following AFMS are required when SMR kits SMR9065-11, SMR9065-12, SMR9065-61, SMR9065-63, SMR9065-64, or SMR9065-65, are installed: 12-33-126, Rev. IR, dated June 18, 2013; 13-33-067, Rev. IR, dated June 18, 2013; 12-33-123, Rev. IR, dated June 18, 2013; 12-33-124, Rev. IR, dated June 18, 2013.
- (Limitations and Conditions continued on page 3 of 4)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: March 9, 2012

Date Reissued:

Date of Issuance: June 18, 2013

Date Amended:
October 28, 2014

By Direction of the Administrator

Signature _____

Title Scott A. Horn
Acting Manager, Airplane Certification Office
Southwest Region

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: SA00332BO

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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Supplemental Type Certificate

(Continuation Sheet)

Number: SA00332BO

Date of Issuance: June 18, 2013

Limitations and Conditions: (continued from Page 1 of 4)

- b. The following AFMS are required when SMR kit SMR9065-60, SMR9065-62, SMR9065-66, SMR9065-67, SMR9065-68, or SMR9065-69, are installed: 12-33-126, Rev. IR, dated June 18, 2013; 12-33-125, Rev. IR, dated June 18, 2013; 12-33-123, Rev. IR, dated June 18, 2013; 12-33-124, Rev. IR, dated June 18, 2013.
 - c. The following AFMS are required when SMR kits SMR9065-14, SMR9065-15, SMR9065-70, SMR9065-71 or SMR9065-72 are installed: 12-33-126, Rev. IR, dated June 18, 2013.
 - d. The following AFMS are required when SMR kits SMR9065-16, SMR9065-40, SMR9065-81, SMR9065-83 or SMR9065-84, are installed: 13-33-067, Rev. IR, dated June 18, 2013.
 - e. The following AFMS are required when SMR kit SMR9065-17, SMR9065-80, SMR9065-82, SMR9065-85, or SMR9065-86, are installed: 12-33-125, Rev. IR, dated June 18, 2013.
 - f. The following AFMS are required when kits SMR9065-30 or SMR9065-31 is installed: 12-33-123, Rev. IR. Dated June 18, 2013.
 - g. The following AFMS are required when kits SMR9065-24 or SMR9065-25 is installed: 12-33-124, Rev. IR. Dated June 18, 2013.
2. The following Maintenance Instructions for Continued Airworthiness (ICA), or later FAA accepted revisions, are required for this modification
- a. When kit SMR9065-11, SMR9065-12, SMR9065-60, SMR9065-61, SMR9065-62, SMR9065-63, SMR9065-64, SMR9065-65, SMR9065-66, SMR9065-67, SMR9065-68 or SMR9065-69 is installed: 12-33-129, Rev. 7, dated June 4, 2014; 12-33-119, Rev. 5, dated February 28, 2014; 12-33-128, Rev. 4, dated October 30, 2013; 12-33-117, Rev. 5 dated October 30, 2013.
 - b. When kit SMR9065-14, SMR9065-15, SMR9065-70, SMR9065-71 or SMR9065-72 is installed: 12-33-129, Rev. 7, dated June 4, 2014.
 - c. When kit SMR9065-16, SMR9065-17, SMR9065-40, SMR9065-80, SMR9065-81, SMR9065-82, SMR9065-83, SMR9065-84, SMR9065-85 or SMR9065-86 is installed: 12-33-119, Rev. 5, dated February 28, 2014.
 - d. When kit SMR9065-24 or SMR9065-25 is installed: 12-33-128, Rev. 4, dated October 30, 2013.
 - e. When kit SMR9065-30 or SMR9065-31 is installed: 12-33-117, Rev. 5, dated October 30, 2013.
3. 14 Volt System aircraft must upgrade to a National AirParts Inc. P/N P312RN, 120 Amp Alternator. This can be installed via its PMA, but a separate logbook entry must be made if this alternator is installed.
4. 14 Volt System PA-32R-301 and PA-32R-301T aircraft must have an Oildyne hydraulic pump, Piper P/N 481-879, installed. Prestolite hydraulic pumps must be replaced with Oildyne hydraulic pumps using Piper kit P/N 764-785. A separate logbook entry must be made if the Oildyne pump is installed, as it is not part of this STC.
5. This approval 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 interrelationship between this change and any of those other previously approved modifications will produce no adverse effect upon the airworthiness of that aircraft.
6. Flight into known icing prohibited with this STC.

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Type Certificate Data Sheet:

Piper Aircraft Company TCDS A3SO is modified for this STC as follows:

Certification Basis:

Based on 14 CFR § 21.115 and § 21.101, and the FAA policy for design changes that are identified as not significant in FAA Order 8110.48, the certification basis for the Piper PA-32 is as follows:

- a. The type certified basis for parts not changed or not affected by the change is shown on TCDS A3SO.
b. The modification certification basis for parts changed or affected by the change since the reference application date, March 9, 2012, is based upon CAR 3 as amended to CAR 3-8 and part 23 as amended by Amendment 23-62 as follows:

Regulation at the latest amendment 23-00 through 23-62

23.21, 23.23, 23.25, 23.29, 23.31, 23.201, 23.203, 23.207, 23.605, 23.1301, 23.1309 (a) (c) (d), 23.1351 (a), 23.1357 (a) (b) (c) (d), 23.1365 (a) (b) (d) (e) (f), 23.1367, 23.1416 (b) (c), 23.1438 (b), 23.1501 (a) (b), 23.1525, 23.1529, 23.1555 (a), 23.1581 (a) (b) (c) (d), 23.1583 (h) (m), 23.1585 (j).

Regulation at CAR 3-8

3.83, 3.85, 3.106, 3.114, 3.117, 3.118, 3.159, 3.171, 3.172, 3.173, 3.291, 3.292, 3.311, 3.712

If the holder agrees to permit another person to use this certification to alter the product, the holder shall give the other person written evidence of that permission.

.....END.....

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