

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

*Number* SA02434NY

*This certificate issued to* Xerion Avionix, LLC  
Canandaigua Airport (D38)  
2450 Brickyard Road  
Canandaigua, NY 14424

*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 / 23 of the Civil Air / Federal Aviation Regulations.*

*Original Product Type Certificate Number:* \* \*See attached FAA Approved Model List (AML), Document No. SA02434NY for the list of approved airplane models and applicable airworthiness regulations.

*Make:* \*

*Model:* \*

*Description of Type Design Change:*

Installation of a Digital Engine Monitoring System in accordance with Xerion, AuRACLE Installation Manual, \*see attached AML, Document No. SA02434NY.

*Limitations and Conditions:*

1. Aircraft Flight Manual Supplement for the Xerion Avionix AuRACLE, Engine Management System, Revision C, FAA approved July 9, 2008, is required for this installation.
2. Xerion, AuRACLE Engine Management System Pilot Guide, Revision E, dated March 5, 2008, must be carried on the aircraft at all times.
3. Xerion, Engine Management System, Instructions for Continued Airworthiness, Issue A, is required to ensure continued airworthiness of this installation.
4. This approval does not allow the AuRACLE Engine Management System to replace the approved fuel quantity indicating system.
5. Dual amp display not authorized for aircraft that require an instrument pressure or vacuum system.
6. The installer must determine whether this design change is compatible with previously approved modifications.
7. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

(See Continuation Sheet 2)

*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 27, 2006

*Date reissued:*

*Date of issuance:* July 24, 2007

*Date amended:* July 10, 2008



*By direction of the Administrator*

*Anthony Socias*  
(Signature)

Anthony Socias  
Manager  
New York 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.

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA02434NY

Date of Amendment: July 10, 2008

**Certification Basis:**

The Certification Basis is defined as:

1. The type certification basis as shown on the TCDS (see AML, Document No. SA0243NY) for all areas not affected by the change.
2. Title 14 CFR Part 23, dated February 1, 1965, including Amendments 23-1 through 23-54 for the change and all areas affected by the change. The following lists the Federal Aviation Regulations complied with through Amendment Level 23-54.

23.301 23.303 23.305 23.307 23.337 23.561 23.601 23.603 23.605 23.613 23.771 23.773

23.853 23.863 23.1165 23.1191 23.1301 23.1305 23.1309 23.1311 23.1321 23.1322 23.1327 23.1331

23.1351 23.1357 23.1359 23.1365 23.1431 23.1519 23.1521 23.1527 23.1543 23.1549

3. Title 14 CFR Part 23, dated February 1, 1965, including Amendments 23-1 through 23-54 for the change and all areas affected by the change. The following lists the additional Federal Aviation Regulations complied with through Amendment Level 23-54 for pressurized aircraft.

23.365 23.571 23.627

---END---

XERION AVIONICS, LLC  
FOR

## INSTALLATION OF THE AURACLE I/II DIGITAL ENGINE MONITORING SYSTEM

Original Issue Date: February 25, 2008

| ITEM | AIRCRAFT MAKE           | AIRCRAFT MODEL   | INSTALLATION MANUAL   | TYPE CERTIFICATE NUMBER | AML AMENDED DATE |
|------|-------------------------|--|---|-------------------------|------------------|
| 1    | Hawker Beechcraft       | 35, A35, B35, C35, D35, E35, F35, G35, 35R   | XA-EngAna-AuR16CylInst Rev H<br>---- or ----<br>XA-EngAna-AuR116CylInst Rev H | A-777                   | July 10, 2008    |
| 2    | Hawker Beechcraft       | 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC | XA-EngAna-AuR16CylInst Rev H<br>---- or ----<br>XA-EngAna-AuR116CylInst Rev H | 3A15                    | July 10, 2008    |
| 3    | Cessna Aircraft Company | 172G, 172L, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S   | XA-EngAna-AuR14CylInst Rev E<br>---- or ----<br>XA-EngAna-AuR114CylInst Rev E | 3A12                    | July 10, 2008    |
| 4    | Cessna Aircraft Company | 172, 172A, 172B, 172C, 172D, 172E, 172F, 172H  | XA-EngAna-AuR16CylInst Rev H<br>---- or ----<br>XA-EngAna-AuR116CylInst Rev H | 3A12                    | July 10, 2008    |
| 5    | Cessna Aircraft Company | 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182S, 182T, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, R182, T182, TR182, T182T                | XA-EngAna-AuR16CylInst Rev H<br>---- or ----<br>XA-EngAna-AuR116CylInst Rev H | 3A13                    | July 10, 2008    |
| 6    | Cessna Aircraft Company | 172RG  | XA-EngAna-AuR14CylInst Rev E<br>---- or ----<br>XA-EngAna-AuR114CylInst Rev E | 3A17                    | July 10, 2008    |
| 7    | Cessna Aircraft Company | P172D, R172E, R172G, R172J, R172K, 175, 175A, 175B, 175C   | XA-EngAna-AuR16CylInst Rev H<br>---- or ----<br>XA-EngAna-AuR116CylInst Rev H | 3A17                    | July 10, 2008    |
| 8    | Cessna Aircraft Company | 150, 152, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150M, A152, A150L  | XA-EngAna-AuR14CylInst Rev E<br>---- or ----<br>XA-EngAna-AuR114CylInst Rev E | 3A19                    | July 10, 2008    |

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| ITEM | AIRCRAFT MAKE           | AIRCRAFT MODEL   | INSTALLATION MANUAL   | TYPE CERTIFICATE NUMBER | AML AMENDED DATE |
|------|-------------------------|--|---|-------------------------|------------------|
| 9    | Cessna Aircraft Company | 210, 210-5 (205), 210-5A (205A), 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, P210N, P210R, T210F, T210G, T210H, T210I, T210K, T210L, T210M, T210N, T210R                 | XA-EngAna-AurRI6Cyllnst Rev H<br>----- or -----<br>XA-EngAna-AurRII6Cyllnst Rev H | 3A21                    | July 10, 2008    |
| 10   | Cessna Aircraft Company | 185, A185E, A185F, 185A, 185B, 185C, 185D, 185E  | XA-EngAna-AurRI6Cyllnst Rev H<br>----- or -----<br>XA-EngAna-AurRII6Cyllnst Rev H | 3A24                    | July 10, 2008    |
| 11   | Cessna Aircraft Company | 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K  | XA-EngAna-AurRI6Cyllnst Rev H<br>----- or -----<br>XA-EngAna-AurRII6Cyllnst Rev H | 5A6                     | July 10, 2008    |
| 12   | Cessna Aircraft Company | 206, 206H, P206, P206A, P206B, P206C, P206D, P206E, T206H, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G | XA-EngAna-AurRI6Cyllnst Rev H<br>----- or -----<br>XA-EngAna-AurRII6Cyllnst Rev H | A4CE                    | July 10, 2008    |
| 13   | Cessna Aircraft Company | 177, 177A, 177B  | XA-EngAna-AurRI4Cyllnst Rev E<br>----- or -----<br>XA-EngAna-AurRII4Cyllnst Rev E | A13CE                   | July 10, 2008    |
| 14   | Cessna Aircraft Company | 207, 207A, T207, T207A   | XA-EngAna-AurRI6Cyllnst Rev H<br>----- or -----<br>XA-EngAna-AurRII6Cyllnst Rev H | A16CE                   | July 10, 2008    |
| 15   | Cessna Aircraft Company | 177RG  | XA-EngAna-AurRI4Cyllnst Rev E<br>----- or -----<br>XA-EngAna-AurRII4Cyllnst Rev E | A20CE                   | July 10, 2008    |

XERION AVIONICS, LLC

FOR

INSTALLATION OF THE AURACLE /III DIGITAL ENGINE MONITORING SYSTEM

Original Issue Date: February 25, 2008

| ITEM | AIRCRAFT MAKE           | AIRCRAFT MODEL  | INSTALLATION MANUAL   | TYPE CERTIFICATE NUMBER | AML AMENDED DATE |
|------|-------------------------|---|---|-------------------------|------------------|
| 16   | Cessna Aircraft Company | 170, 170A, 170B   | XA-EngAna-AuRI6CylInst Rev H<br>---- or ----<br>XA-EngAna-AuRII6CylInst Rev H | A-799                   | July 10, 2008    |
| 17   | Piper Aircraft          | PA-16, PA-16S   | XA-EngAna-AuRI4CylInst Rev E<br>---- or ----<br>XA-EngAna-AuRII4CylInst Rev E | 1A1                     | July 10, 2008    |
| 18   | Piper Aircraft          | PA-18, PA-18S, PA-18 "105", PA-18S "105", PA-18A, PA-18 "125", PA-18S "125", PA-18AS "125", PA-18 "135", PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150", PA-19, PA-19S | XA-EngAna-AuRI4CylInst Rev E<br>---- or ----<br>XA-EngAna-AuRII4CylInst Rev E | 1A2                     | July 10, 2008    |
| 19   | Piper Aircraft          | PA-20, PA-20S, PA-20 "115", PA-20S "115", PA-20 "135", PA-20S "135"   | XA-EngAna-AuRI4CylInst Rev E<br>---- or ----<br>XA-EngAna-AuRII4CylInst Rev E | 1A4                     | July 10, 2008    |
| 20   | Piper Aircraft          | PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160   | XA-EngAna-AuRI4CylInst Rev E<br>---- or ----<br>XA-EngAna-AuRII4CylInst Rev E | 1A6                     | July 10, 2008    |
| 21   | Piper Aircraft          | PA-24   | XA-EngAna-AuRI4CylInst Rev E<br>---- or ----<br>XA-EngAna-AuRII4CylInst Rev E | 1A15                    | July 10, 2008    |
| 22   | Piper Aircraft          | PA-24-250, PA-24-260  | XA-EngAna-AuRI6CylInst Rev H<br>---- or ----<br>XA-EngAna-AuRII6CylInst Rev H | 1A15                    | July 10, 2008    |

XERION AVIONICS, LLC

FOR

INSTALLATION OF THE AURACLE I/II DIGITAL ENGINE MONITORING SYSTEM

Original Issue Date: February 25, 2008

| ITEM | AIRCRAFT MAKE  | AIRCRAFT MODEL   | INSTALLATION MANUAL   | TYPE CERTIFICATE NUMBER | AML AMENDED DATE |
|------|----------------|--|---|-------------------------|------------------|
| 23   | Piper Aircraft | PA-28-140, PA-28-151, PA-28-150, PA-28-161, PA-28-160, PA-28-181, PA-28-180, PA-28R-201, PA-28S-160, PA-28S-180, PA-28RT-201, PA-28R-180, PA-28R-200,                  | XA-EngAna-AuR14CylInst Rev E<br>-----<br>or -----<br>XA-EngAna-AuR14CylInst Rev E | 2A13                    | July 10, 2008    |
| 24   | Piper Aircraft | PA-28-201T, PA-28R-201T, PA-28RT-201T, PA-28-235, PA-28-236,   | XA-EngAna-AuR16CylInst Rev H<br>-----<br>or -----<br>XA-EngAna-AuR16CylInst Rev H | 2A13                    | July 10, 2008    |
| 25   | Piper Aircraft | PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301(HP), PA-32R-301(SP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-32S-300, PA-32-260 | XA-EngAna-AuR16CylInst Rev H<br>-----<br>or -----<br>XA-EngAna-AuR16CylInst Rev H | A3S0                    | July 10, 2008    |
| 26   | Piper Aircraft | PA-38-112  | XA-EngAna-AuR14CylInst Rev E<br>-----<br>or -----<br>XA-EngAna-AuR14CylInst Rev E | A18S0                   | July 10, 2008    |
| 27   | Piper Aircraft | PA-46-310P, PA-46-350P   | XA-EngAna-AuR16CylInst Rev H<br>-----<br>or -----<br>XA-EngAna-AuR16CylInst Rev H | A25S0                   | July 10, 2008    |

FAA Approved By:

*Frederic Pica*  
Anthony Socias

Manager, New York Aircraft Certification Office

Amended: July 10, 2008



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## D Bonanza/Debonair Engine Upgrade STC Listing

The following STCs are approved installed engine modifications to aircraft included in this request for AML installation approval of the Xerion AuRACLE System. The only affect of these engine installations is to change the instrument markings on the AuRACLE display. These markings are provided as an electronic file downloaded during the installation procedure. These modifications to the aircraft affect no other aspect of the AuRACLE installation. The STCs are included here to explicitly state that the installation of these STCs on an aircraft does not invalidate the eligibility of that aircraft for the installation of the AuRACLE System under this AML.

| STC #            | Holder                              | Engine Type   | TCDS                                    |
|------------------|-------------------------------------|---|---|
| SA09619SC        | Hammock Aviation Services           | Cont. IO-550-B  | 3A15                                    |
| SA09852SC        | General Aviation Modifications Inc. | Cont. IO-550-B  | 3A15                                    |
| SA00035DE        |                                     | Mod. Cooling louvers and baffles  | 3A15                                    |
| SA10145SC        | Atlantic Aero Inc.                  | Cont. IO-550-R  | 3A15                                    |
| SA1835SO         | Cole Mill Enterprises               |   | 3A15 & A-777                            |
| SA2200SW         | D'Shannon Products                  | Cont. IO-520-B or<br>Cont. IO-520-BA or<br>Cont. IO-520-BB or<br>Cont. IO-550-B | 3A15 & A-777                            |
| SA2682NM         | Flight Craft Inc.                   | Cont. IO-550-B  | 3A15                                    |
| SA3756SW         | Hughes Aviation Services            | Cont. IO-520-B or<br>Cont. IO-520-BA or<br>Cont. IO-520-BB                      | 3A15                                    |
| SA3817SW         | Colorado STC Development            |   | 3A15                                    |
| 3A15SA5223N<br>M | Engine Technologies Inc.            | Cont. IO-550-B  | 3A15                                    |
| SA762NW          | Machen Inc.                         | Lyc. IO-540-J2BD  | 3A15                                    |
| SA8676SW         | Western Skyways Inc.                | Cont. IO-520-B or<br>Cont. IO-520-BA or<br>Cont. IO-520-BB or<br>Cont. IO-550-B | 3A15                                    |
| SA994NW          | Flight Craft Inc.                   | Cont. TSIO-520-D  | 3A15                                    |
| SA5527SW         | D'Shannon Products                  | Cont. IO-470-N  | 35-33,<br>35-A33,<br>35-B33,<br>35-C33, |

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| STC #     | Holder                    | Engine Type  | TCDS          |
|-----------|---------------------------|--|---------------|
|           |                           |  | E-33,<br>F-33 |
| SA09603SC | Hammock Aviation Services |  | 3A15          |
| SA1252WE  | RAYJAY Parts LLC.         | Cont. O-470-G-C1 or<br>Cont. IO-470-C or<br>Cont. IO-470-J or<br>Cont. IO-470-K or<br>Cont. IO-470-N | 3A15          |

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### C Cessna Upgrade STC Listing

The following STCs are approved installed engine modifications to aircraft included in this request for AML installation approval of the Xerion AuRACLE System. The following table appears daunting however it actually only covers seven engine series. The only affect of these engine installations is to change the instrument markings on the AuRACLE display. These markings are provided as an electronic file downloaded during the installation procedure. These modifications to the aircraft affect no other aspect of the AuRACLE installation. The STCs are included here to explicitly state that the installation of these STCs on an aircraft does not invalidate the eligibility of that aircraft for the installation of the AuRACLE System under this AML.

| STC #     | Engine Mfr. | Engine Type                              | Aircraft Series |
|-----------|-------------|--|-----------------|
| SA1008SW  | Lyc.        | IO-360-(A1A or A3A)                      | 177             |
| SA1043SW  | Lyc.        | IO-360-(A1A or A3A)                      | 177             |
| SA00152WI | Cont.       | IO-520-D                                 | 182             |
| SA01345AT | Cont.       | IO-520-D                                 | 180             |
| SA00785AT | Cont.       | IO-550-D                                 | 180             |
| SA2714CE  | Lyc.        | O-320-(D2G or D2J)                       | 172             |
| SA4428SW  | Lyc.        | O-360-(A2F or A3A or A4A or A4M, or A4N) | 172             |
| SA01442AT | Cont.       | O-470-U                                  | 180             |
| SA01776AT | Cont.       | O-470-U                                  | 180             |
| SA02311NY | Lyc.        | IO-540-D4B5                              | 182             |
| SA02029AT |             |  |                 |
| -D        | Cont.       | IO-550-P                                 | 210             |
| SA1324CE  | Lyc.        | O-360-A1A                                | 172             |
| SA108CE   | Cont.       | O-470                                    | 180, 182        |
| SA00810AT | Cont.       | IO-550-D                                 | 182             |
| SA1774WE  | Lyc.        | O-320-E2D                                | 172             |
| SA00173AT | Cont.       | IO-550-F                                 | 207             |
| SA01686AT | Lyc.        | O-360-A1A                                | 172             |
| SA01551AT | Lyc.        | O-360-A1-A                               | 172             |
| SA00461SE | Lyc.        | O-360 Series                             | 170, 172, 175   |
| SA4030NM  | Lyc.        | O-360-A1B6D                              | 177             |
| SA1-240   | Lyc.        | O-435-C                                  | 170             |
| SA00485SE | Cont.       | IO-360A                                  | 170             |
| SA4081NM  | Lyc.        | O-360-(A1B6 or A1B6D)                    | 177             |
| SA01548SE | Lyc.        | O-320-E2D                                | 177             |
| SA01111CH | Lyc.        | IO-360 Series                            | 170             |
| SA7441SW  | Cont.       | O-300-D                                  | 170             |

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| STC #     | Engine Mfr. | Engine Type               | Aircraft Series |
|-----------|-------------|---------------------------|-----------------|
| SA00274AT | Cont.       | IO-550-L                  | 210             |
| SA01302AT | Cont.       | IO-520-D                  | 182             |
| SA01218AT | Cont.       | IO-550-D                  | 182             |
| SA1119NW  | Lyc.        | O-320-E2D                 | 172             |
| SA135CE   | Lyc.        | O-320 Series              | 170             |
| SA3-126   | Lyc.        | O-340-A1A                 | 172             |
| SA3-571   | Lyc.        | O-360-A1D                 | 172             |
| SA3-674   | Lyc.        | O-360-A1D                 | 175             |
| SA00726SE | Lyc.        | O-360-A1AD                | 175             |
| SA00261SE | Lyc.        | O-320 Series              | 172             |
| SA1225CE  | Lyc.        | O-320-(E2D or D2G)        | 172             |
| SA1743SO  | Lyc.        | O-320-D2A                 | 172             |
| SA1750NM  | Cont.       | IO-520-B                  | 185             |
| SA00562NY | Cont.       | IO-470                    | 180, 180        |
| SA00468WI | Cont.       | O-470-50                  | 180             |
| SA122NW   | Cont.       | O-470                     | 172, 175        |
| SA958SW   | Cont.       | IO-520-D                  | 185             |
| SA1356GL  | Lyc.        | O-320-(D2J or D2G or D1A) | 172             |
| SA332GL   | Lyc.        | O-360                     | 172             |
| SA1769SO  | Lyc.        | O-320-D2J                 | 172             |
| SA204GL   | Lyc.        | O-320-E2D                 | 172             |
| SA2375SW  | Lyc.        | O-320-(D2G or D2J)        | 172             |
| SA1098WE  | Cont.       | IO-470-(E or S)           | 210             |
| SA610SW   | Lyc.        | O-320 and O-360           | 172, 175        |
| SA10232SC | Cont.       | O-470-(L or R or S)       | 182             |
| SA00164BO | Cont.       | O-470-R                   | 180             |
| SA2651NM  | Lyc.        | O-360-(A3A or A4A)        | 172             |
| SA02282AK | Lyc.        | IO-360                    | 175             |
| SA02106AK | Lyc.        | O-360                     | 170             |
| SA1157WE  | Cont.       | O-470-(A, J, K, I, or R)  | 180             |
| SA09018SC | Cont.       | IO-520-F                  | 180             |
| SA09026SC | Cont.       | IO-520-F                  | 182             |
| SA09055SC | Cont.       | IO-520-F                  | 180             |
| SA09056SC | Cont.       | IO-520-F                  | 182             |
| SA09952SC | Cont.       | IO-550                    | 210             |
| SA09960SC | Cont.       | IO-550                    | 185             |
| SA10010SC | Cont.       | IO-550                    | 206             |
| SE09960SC | Cont.       | IO-550                    | 185             |
| SA09132SC | Cont.       | IO-550-F                  | 180             |
| SA09133SC | Cont.       | IO-550-F                  | 182             |
| SA09467SC | Cont.       | IO-550-F                  | 210             |

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| STC #     | Engine Mfr. | Engine Type    | Aircraft Series  |
|-----------|-------------|----------------|------------------|
| SA1032WE  | Cont.       | O-470-(L or R) | 182              |
| SA09530SC | Cont.       | O-470-U        | 182              |
| SA1-245   | Lyc.        | O-340-A1A      | 170              |
| SA01442WI | Lyc.        | IO-360-A1B6D   | 177              |
| SA09546SC | Cont.       | O-470-R        | 180              |
| SA777CE   | Lyc.        | 180 Hp         | 172, 175         |
| SA424CE   | Lyc.        | O-360          | 172, 175         |
| SA545CE   | Lyc.        | O-360          | 177              |
| SA00728SE | Lyc.        | IO-360 Series  | 170, 172,<br>175 |
| SA1-438   | Lyc.        | O-360-A1A      | 172              |

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### C Piper Upgrade STC Listing

The following STCs are approved installed engine modifications to aircraft included in this request for AML installation approval of the Xerion AuRACLE System. The following table appears daunting however it actually only covers seven engine series. The only affect of these engine installations is to change the instrument markings on the AuRACLE display. These markings are provided as an electronic file downloaded during the installation procedure. These modifications to the aircraft affect no other aspect of the AuRACLE installation. The STCs are included here to explicitly state that the installation of these STCs on an aircraft does not invalidate the eligibility of that aircraft for the installation of the AuRACLE System under this AML.

| STC       | Engine Mfr. | Engine Type                        | Aircraft Series |
|-----------|-------------|------------------------------------|-----------------|
| SA1637SO  | Lycoming    | O-320                              | PA-16           |
| SA00522SE | Lycoming    | O-320                              | PA-18           |
| SA92NW    | Lycoming    | O-360                              | PA-18           |
| SA4-1143  | Lycoming    | O-320-A3B                          | PA-18           |
| SA388EA   | Lycoming    | O-320, O-320-A2A, A2B              | PA-18           |
| SA00035NY | Lycoming    | O-360-A3A, A4A, A4M, A4P, C2A, C4P | PA-18           |
| SA682AL   | Lycoming    | O-320                              | PA-18           |
| SA894WE   | Lycoming    | O-320-A2B                          | PA-18           |
| SA532AL   | Lycoming    | O-360-A2A                          | PA-18           |
| SA601AL   | Lycoming    | O-320-B2B                          | PA-18           |
| SA36RM    | Lycoming    | O-360-C2A, O-360-A3A               | PA-18           |
| SA136AL   | Lycoming    | O-320                              | PA-18           |
| SA635AL   | Lycoming    | O-320-A2B                          | PA-20           |
| SA1-167   | Lycoming    | O-320                              | PA-20           |
| SA181RM   | Lycoming    | O-360-A4A                          | PA-22           |
| SA01678SE | Lycoming    | O-360-A1P                          | PA-22           |
| SA936NW   | Lycoming    | O-360-A1A                          | PA-22           |
| SA1-274   | Lycoming    | O-320                              | PA-22           |
| SA95NW    | Lycoming    | O-360-A1A                          | PA-22           |
| SA4947NM  | Lycoming    | O-360-A4A                          | PA-22           |
| SA847EA   | Lycoming    | O-320-A, O-320-B                   | PA-22           |
| SA4-815   | Lycoming    | O-320                              | PA-22           |
| SA314SO   | Lycoming    | O-290-D                            | PA-22           |
| SA1-275   | Lycoming    | O-320                              | PA-22           |
| SA481WE   | Lycoming    | O-320-A1A                          | PA-22           |
| SA5-27    | Lycoming    | O-540-B1B5                         | PA-24           |
| SA3872NM  | Lycoming    | IO-540-R1A5                        | PA-24           |
| SA811WE   | Lycoming    | IO-540-C1B5 or -C1C5               | PA-24           |
| SA511WE   | Lycoming    | O-540-B1B5                         | PA-24           |

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| STC       | Engine Mfr. | Engine Type  | Aircraft Series |
|-----------|-------------|--|-----------------|
| SA2062WE  | Lycoming    | IO-540-R1A5 Turbocharged   | PA-24           |
| SA00391SE | Lycoming    | O-360-A1A Turbocharged   | PA-24           |
| SA793CE   | Lycoming    | O-360-( )  | PA-28           |
| SA2147NM  | Continental | TSIO-360-FB(C) (converted)   | PA-28           |
| SA413CH   | Lycoming    | O-320-D2A, O-320-D3G, or O-320-E2A (modified by STC SE367CH)                   | PA-28           |
| SA1331CE  | Lycoming    | O-320  | PA-28           |
| SA1842NM  | Lycoming    | O-360-A4M  | PA-28           |
| SA2946SO  | Lycoming    | O-360-A4A or O-360-A4M   | PA-28           |
| SA842NE   | Lycoming    | O-320-E2A, E2D or E3D that has been modified to high compression               | PA-28           |
| SA2262SO  | Lycoming    | IO-360-CIF engine modified in accordance with STC SE2261SO                     | PA-28           |
| SA2508NM  | Lycoming    | IO-360-C106  | PA-28           |
| SA2969SW  | Lycoming    | O-320  | PA-28           |
| SA2706SW  | Lycoming    | O-320-D2A, -D2B, -D2C, -D3G, or-E3D (modified in accordance with STC SE8987SW) | PA-28           |
| SA805NE   | Lycoming    | O-360-A4A  | PA-28           |
| SA228GL   | Lycoming    | O-320-D3G  | PA-28           |
| SA3995WE  | Lycoming    | O-320-D2A  | PA-28           |
| SA3196WE  | Lycoming    | O-320-DIA  | PA-28           |
| SA3415WE  | Lycoming    | O-320-D2A  | PA-28           |
| SA2213WE  | Lycoming    | O-360-A1A  | PA-28           |
| SA194GL   | Lycoming    | IO-360-C1C6  | PA-28           |
| SA1742SO  | Lycoming    | IO-540-K1G5D   | PA-32           |
| SA1557WE  | Lycoming    | O-540-E4B5 Turbocharged  | PA-32           |
| SA409GL   | Lycoming    | IO-540-K1A5  | PA-32           |
| SA3513WE  | Lycoming    | IO-540-K1G5D Turbocharged  | PA-32           |
| SA1747CE  | Lycoming    | IO-540-K1G5  | PA-36           |
| SA4135NM  | Lycoming    | O-235-L2C/L2A(M) engine (modified per STC SE792NW)                             | PA-38           |
| SA2059NM  | Lycoming    | O-235-L2C(M) in accordance with STC SE3877                                     | PA-38           |
| SA00380AT | Continental | TSIO-550C  | PA-46           |
| SA01770C  | Continental | TSIO-550-C1B   | PA-46           |

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