



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Southwest Region  
Arkansas, Louisiana,  
New Mexico, Oklahoma,  
Texas

Manufacturing Inspection District Office  
2601 Meacham Blvd., SW MIDO-42  
Fort Worth, Texas 76137

April 15, 2011

Superior Air Parts, Inc.  
621 S. Royal Lane, Suite 100  
Coppell, Texas 75019

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR), Part 21, Certification Procedures for Products and Parts, subpart K, the FAA has found that the design data, based on Test and Computation submitted by Superior Air Parts, Inc., with your letter dated March 14, 2011 (FAAL-1398), meet the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, the FAA has determined that Superior Air Parts, Inc., has established the fabrication inspection system required by § 21.303(h) at 621 S. Royal Lane, Suite 100, Coppell, Texas 75019. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 85, revision 1. Supplement No. 85, revision 1, dated April 15, 2011, updates Supplement No. 85, dated May 31, 1989. The purpose of the revision is to include under-sized parts, not previously listed on Supplement No. 85. Supplement No. 85 remains in effect.

You are reminded that the provisions of 14 CFR, Parts 21 and 45, noted in our PMA letter of approval dated March 30, 2006, also apply to the enclosed PMA Listing-Supplement No. 85, revision 1. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

A handwritten signature in blue ink that reads "Carlton N. Cochran".

Carlton N. Cochran  
Manager, Fort Worth Manufacturing Inspection District Office  
SW MIDO-42

Enclosure  
PMA Supplement No. 85, revision 1



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

SUPERIOR AIR PARTS, INC.  
621 S. Royal Lane, Suite # 100  
Coppell, TX 75019-3805

PMA NO. PQ0060SW  
SUPPLEMENT NO. 85  
REVISION 1  
DATE April 15, 2011

Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL16711-.000	LW16711	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL16711, <u>Rev:</u> A Date: 05/12/1994 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C
Bearing, Crankshaft	SL16711-.003	LW16711 P03	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL16711, <u>Rev:</u> A Date: 05/12/1994 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C

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Coppell, TX 75019-3805

PMA NO. PQ0060SW  
SUPPLEMENT NO. 85  
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DATE April 15, 2011

Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL16711-.006	LW16711 P06	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL16711, <u>Rev:</u> A Date: 05/12/1994 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C
Bearing, Crankshaft	SL16711-.010	LW16711 P10	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL16711, <u>Rev:</u> A Date: 05/12/1994 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C
Bearing, Crankshaft	SL16711A	LW16711	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL16711A, <u>Rev:</u> E Date: 01/30/2006 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C

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PMA NO. PQ0060SW  
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 REVISION 1  
 DATE April 15, 2011

Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL16711A M03	LW16711 M03	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL16711A, Rev: E</u> Date: 01/30/2006 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C
Bearing, Crankshaft	SL16711A M06	LW16711 M06	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL16711A, Rev: E</u> Date: 01/30/2006 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C

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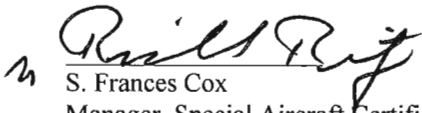
PMA NO. PQ0060SW  
SUPPLEMENT NO. 85  
REVISION 1  
DATE April 15, 2011

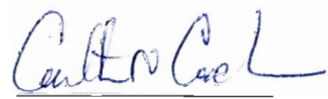
Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL16711A M10	LW16711 M10	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL16711A, Rev: E</u> Date: 01/30/2006 or later FAA approved revisions	Lycoming Engines	O-320-A, -B, -D, -E IO-320-B, -C, -D, -E LIO-320-B, -C AIO-320-B, -C AEIO-320-D, -E O-360-A, -C, -D, -E, -F IO-360-A, -B, -C, -F, -J, -K LO-360-A AIO-360-A, -B LIO-360-C AEIO-360-A, -B, -H O-540-A, -B, -G, -H IO-540-C, -D, -N, -T, -V, -AA AEIO-540-D TIO-540-C

-----End of Listing-----

NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.
- 2) The FAA approved ICA for the above parts with their designs. These ICA may refer to those of the respective parts from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement parts. Make referral statements or supplemental ICA readily available per 14 CFR 21.50.
- 3) Supplement 85, revision 1, dated April 15, 2011, updates Supplement 85, dated May 31, 1989. The purpose of the revision is to include under-sized parts, not previously listed on Supplement 85. Supplement 85 remains in effect.

  
S. Frances Cox  
Manager, Special Aircraft Certification Office  
ASW-190

  
Carlton N. Cochran  
Manager, Fort Worth Manufacturing Inspection District Office  
SW MIDO-42