



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

Rotorcraft Directorate  
Fort Worth Manufacturing Inspection District Office  
2601 Meacham Boulevard  
Fort Worth, Texas 76137-4298

June 20, 2012

Mr. Bill Blackwood  
Director of Quality Assurance  
Superior Air Parts, Inc.  
621 S. Royal Lane, Suite 100  
Coppell, Texas 75019

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Dear Mr. Blackwood:

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR), part 21, Certification Procedures for Products, Articles and Parts, subpart K, the Federal Aviation Administration (FAA) has found that the design data, based on a Test and Computations submitted by Superior Air Parts, Inc., with your letters (FAAL-1453 and FAAL-1355) dated April 5, 2011 and March 8, 2011, meet the airworthiness requirements of the regulations applicable to the products on which the articles are to be installed. Additionally, the FAA has determined that Superior Air Parts, Inc., has established the quality system required by § 21.307 at 621 S. Royal Lane, Suite 100, Coppell, Texas 75019. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed Supplement No. 104, revision 1. Supplement No. 104 date August 23, 1992 remains in effect.

You are reminded that the provisions of 14 CFR, parts 21 and 45 apply to the enclosed PMA Listing-Supplement No. 104, revision 1. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

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

Enclosure:  
PMA Listing-Supplement No. 104, 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. 104  
REVISION 1  
DATE June 21, 2012

Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL14105	LW14105	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL14105, <u>Rev:</u> C <u>Date:</u> 05/12/1994 or later FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105 M03	LW14105 M03	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL14105, <u>Rev:</u> C <u>Date:</u> 05/12/1994 or later FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105 M06	LW14105 M06	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL14105, <u>Rev:</u> C <u>Date:</u> 05/12/1994 or later FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105 M10	LW14105 M10	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL14105, <u>Rev:</u> C <u>Date:</u> 05/12/1994 or later FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105A	LW14105	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL14105A, <u>Rev:</u> F <u>Date:</u> 11/1/2005 or later FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105A M03	LW14105 M03	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL14105A, <u>Rev:</u> F <u>Date:</u> 11/1 2005 or later FAA-approved revisions	Lycoming Engines	O-320-H2AD

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SUPPLEMENT NO. 104  
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Bearing, Crankshaft	SL14105A M06	LW14105 M06	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL14105A</u> , <u>Rev: F</u> <u>Date: 11/1/2005 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105A M10	LW14105 M10	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL14105A</u> , <u>Rev: F</u> <u>Date: 11/1/2005 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H2AD
Piston	SL 15357-STD	LW15357	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL 15357</u> , <u>Rev: D</u> <u>Date: 03/28/2003 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD LO-360-E1A6D O-360-E1A6D
Piston	SL 15357-P10	LW15357 P10	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL 15357</u> , <u>Rev: D</u> <u>Date: 03/28/2003 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD LO-360-E1A6D O-360-E1A6D

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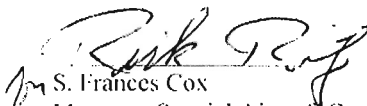
PMA NO. PQ0060SW  
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Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Piston	SL 15357-P20	LW15357 P20	Test and Computations per 14 CFR § 21.303, DWG No: SL 15357, Rev: D Date: 03/28/2003 or later FAA-approved revisions	Lycoming Engines	O-320-H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD LO-360-E1A6D O-360-E1A6D

-----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 104, revision 1, updates Supplement 104, dated August 23, 1992. The purpose of the revision is to include over-sized and under-sized parts, not previously listed on Supplement 104. Supplement 104 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



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You are reminded that the provisions of 14 CFR, parts 21 and 45 apply to the enclosed PMA Listing-Supplement No. 104, revision 1. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

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

Enclosure:  
PMA Listing-Supplement No. 104, revision 1.



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Coppell, TX 75019-3805

PMA NO. PQ0060SW  
SUPPLEMENT NO. 104  
REVISION 1  
DATE June 21, 2012

Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
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Bearing, Crankshaft	SL14105 M03	LW14105 M03	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL14105,</u> <u>Rev: C</u> <u>Date: 05/12/1994 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H2AD
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Bearing, Crankshaft	SL14105 M10	LW14105 M10	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL14105,</u> <u>Rev: C</u> <u>Date: 05/12/1994 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H2AD
Bearing, Crankshaft	SL14105A	LW14105	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL14105A,</u> <u>Rev: F</u> <u>Date: 11/1/2005 or later</u> FAA-approved revisions	Lycoming Engines	O-320-H2AD
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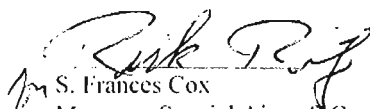
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S. Frances Cox  
Manager, Special Aircraft Certification Office  
ASW-190



Carlton N. Cochran  
Manager, Fort Worth Manufacturing Inspection District Office  
SW M100-42