



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

March 28, 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 Federal Aviation Administration (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, 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. 69, revision 2. Supplement No. 69, revision 2, dated March 28, 2011, updates Supplement No. 69, revision 1, dated July 12, 1995. The purpose of the revision is to include over-sized and under-sized parts, not previously listed on Supplement No. 69, revision 1. Supplement No. 69, revision 2, replaces Supplement No. 69, revision 1.

You are reminded that the provisions of 14 CFR, Parts 21 and 45, noted in our PMA letter of approval dated January 26, 1994, also apply to the enclosed PMA Listing-Supplement No. 69, revision 2. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

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

Enclosure  
PMA Supplement No. 69, revision 2



U.S. Department  
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**Federal Aviation  
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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. 69  
REVISION 2  
DATE March 28, 2011

Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL11020	LW11020	Test and Computations per 14 CFR § 21.303, DWG No: SL11020, Rev: S Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	O-320-A1B, -A2A, -A2D, -B1A, -B1B, -B2A, -B2B, -B2C, -B3B, -C3C, -D1AD, -D1B, -D1C, -D2C, -D1D, -D2F, -D2G, -D2H, -D2J, -E1A, -E1B, -E1C, -E3D, -E1F IO-320-A2A, -B2A, -B1E, -C1F, -D1A, -E1A, -E1B, -F1A L1O-320-B1A A1O-320-A2B, -B1B O-340-B2A O-360-A1A, -A1AD, -A1C, -A1F, -A1F6, -A1G, -A1G6, -A1G6D, -A1J, -A1LD, -A2A, -A3A, -A3AD, -A4AD, -A5AD, -A4D, -A2E, -A2F, -A2H, -A4JD, -A4K, -A4N, -B1A, -B1B, -B2B, -C1A, -C1C, -C2B, -C2C, -C2D, -C1E, -C2E, -D1A, -D2A, -G1A6 LO-360-E1A6D IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1C6, -A2A, -A2C, -A3B6D, -B1A, -B4A, -B1C, -B1D, -B2E, -B1F6, -B2F, -B2F6, -C1A, -C1B, -C1C, -C1C6, -C1D6, -J1AD, -K2A L1O-360-C1E, -C1E6D A1O-360-A2A, A2B AEIO-360-A1D, -B2F6, -B1G6 T1O-360-A1A HO-360-A1A, -B1A, -B1B H1O-360-A1A, -B1B, -C1A, -C1B, -D1A, -E1AD O-480-3

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Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL11020	LW11020	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL11020, Rev: S</u> Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	IO-540-A1A5, -B1B5, -B1C5, -C1B5, -C4B5D, -C4C5D, -C2C, -D4C5, -E1A5, -E1C5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -N1A5D, -S1A5, -T4A5D AEIO-540-D4A5, -L1B5D VO-540-A1A, -A2A, -B1A, -B1B3, -B1C, -B2C, -B1D, -B1H3, -C1A, -C2A, -C1C3, -C2C TVO-540-A1A HIO-540-A1A IGO-540-A1B, -A1C, -B1B, -B1C IGSO-540-A1A, -A1C, -A1D, -A1F, -A1H, -B1A TIO-540-A2C, -C1AD, -E1A, -G1A

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Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Crankshaft	SL11020 M03	LW11020 M03	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL11020, <u>Rev:</u> S Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	O-320-A1B, -A2A, -A2D, -B1A, -B1B, -B2A, -B2B, -B2C, -B3B, -C3C, -D1AD, -D1B, -D1C, -D2C, -D1D, -D2F, -D2G, -D2H, -D2J, -E1A, -E1B, -E1C, -E3D, -E1F IO-320-A2A, -B2A, -B1E, -C1F, -D1A, -E1A, -E1B, -F1A LIO-320-B1A AIO-320-A2B, -B1B O-340-B2A O-360-A1A, -A1AD, -A1C, -A1F, -A1F6, -A1G, -A1G6, -A1G6D, -A1J, -A1LD, -A2A, -A3A, -A3AD, -A4AD, -A5AD, -A4D, -A2E, -A2F, -A2H, -A4JD, -A4K, -A4N, -B1A, -B1B, -B2B, -C1A, -C1C, -C2B, -C2C, -C2D, -C1E, -C2E, -D1A, -D2A, -G1A6 LO-360-E1A6D IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1C6, -A2A, -A2C, -A3B6D, -B1A, -B4A, -B1C, -B1D, -B2E, -B1F6, -B2F, -B2F6, -C1A, -C1B, -C1C, -C1C6, -C1D6, -J1AD, -K2A LIO-360-C1E, -C1E6D AIO-360-A2A, A2B AEIO-360-A1D, -B2F6, -B1G6 TIO-360-A1A HO-360-A1A, -B1A, -B1B HIO-360-A1A, -B1B, -C1A, -C1B, -D1A, -E1AD O-480-3

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Bearing, Crankshaft	SL11020 M03	LW11020 M03	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL11020, Rev: S</u> Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	IO-540-A1A5, -B1B5, -B1C5, -C1B5, -C4B5D, -C4C5D, -C2C, -D4C5, -E1A5, -E1C5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -N1A5D, -S1A5, -T4A5D AEIO-540-D4A5, -L1B5D VO-540-A1A, -A2A, -B1A, -B1B3, -B1C, -B2C, -B1D, -B1H3, -C1A, -C2A, -C1C3, -C2C TVO-540-A1A HIO-540-A1A IGO-540-A1B, -A1C, -B1B, -B1C IGSO-540-A1A, -A1C, -A1D, -A1F, -A1H, -B1A TIO-540-A2C, -C1AD, -E1A, -G1A

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Bearing, Crankshaft	SL11020 M06	LW11020 M06	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL11020, Rev: S</u> Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	O-320-A1B, -A2A, -A2D, -B1A, -B1B, -B2A, -B2B, -B2C, -B3B, -C3C, -D1AD, -D1B, -D1C, -D2C, -D1D, -D2F, -D2G, -D2H, -D2J, -E1A, -E1B, -E1C, -E3D, -E1F IO-320-A2A, -B2A, -B1E, -C1F, -D1A, -E1A, -E1B, -F1A LIO-320-B1A AIO-320-A2B, -B1B O-340-B2A O-360-A1A, -A1AD, -A1C, -A1F, -A1F6, -A1G, -A1G6, -A1G6D, -A1J, -A1LD, -A2A, -A3A, -A3AD, -A4AD, -A5AD, -A4D, -A2E, -A2F, -A2H, -A4JD, -A4K, -A4N, -B1A, -B1B, -B2B, -C1A, -C1C, -C2B, -C2C, -C2D, -C1E, -C2E, -D1A, -D2A, -G1A6 LO-360-E1A6D IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1C6, -A2A, -A2C, -A3B6D, -B1A, -B4A, -B1C, -B1D, -B2E, -B1F6, -B2F, -B2F6, -C1A, -C1B, -C1C, -C1C6, -C1D6, -J1AD, -K2A LIO-360-C1E, -C1E6D AIO-360-A2A, A2B AEIO-360-A1D, -B2F6, -B1G6 TIO-360-A1A HO-360-A1A, -B1A, -B1B HIO-360-A1A, -B1B, -C1A, -C1B, -D1A, -E1AD O-480-3

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Bearing, Crankshaft	SL11020 M10	LW11020 M10	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SL11020, <u>Rev:</u> S Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	O-320-A1B, -A2A, -A2D, -B1A, -B1B, -B2A, -B2B, -B2C, -B3B, -C3C, -D1AD, -D1B, -D1C, -D2C, -D1D, -D2F, -D2G, -D2H, -D2J, -E1A, -E1B, -E1C, -E3D, -E1F IO-320-A2A, -B2A, -B1E, -C1F, -D1A, -E1A, -E1B, -F1A LIO-320-B1A AIO-320-A2B, -B1B O-340-B2A O-360-A1A, -A1AD, -A1C, -A1F, -A1F6, -A1G, -A1G6, -A1G6D, -A1J, -A1LD, -A2A, -A3A, -A3AD, -A4AD, -A5AD, -A4D, -A2E, -A2F, -A2H, -A4JD, -A4K, -A4N, -B1A, -B1B, -B2B, -C1A, -C1C, -C2B, -C2C, -C2D, -C1E, -C2E, -D1A, -D2A, -G1A6 LO-360-E1A6D IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1C6, -A2A, -A2C, -A3B6D, -B1A, -B4A, -B1C, -B1D, -B2E, -B1F6, -B2F, -B2F6, -C1A, -C1B, -C1C, -C1C6, -C1D6, -J1AD, -K2A LIO-360-C1E, -C1E6D AIO-360-A2A, A2B AEIO-360-A1D, -B2F6, -B1G6 TIO-360-A1A HO-360-A1A, -B1A, -B1B HIO-360-A1A, -B1B, -C1A, -C1B, -D1A, -E1AD O-480-3



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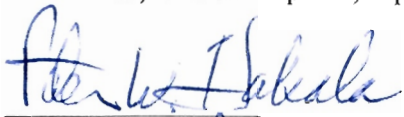
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Bearing, Crankshaft	SL11020 M10	LW11020 M10	Test and Computations per 14 CFR § 21.303, <u>DWG No: SL11020, Rev: S</u> Date: 10/28/2005 or later FAA approved revisions	Lycoming Engines	IO-540-A1A5, -B1B5, -B1C5, -C1B5, -C4B5D, -C4C5D, -C2C, -D4C5, -E1A5, -E1C5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -N1A5D, -S1A5, -T4A5D AEIO-540-D4A5, -L1B5D VO-540-A1A, -A2A, -B1A, -B1B3, -B1C, -B2C, -B1D, -B1H3, -C1A, -C2A, -C1C3, -C2C TVO-540-A1A HIO-540-A1A IGO-540-A1B, -A1C, -B1B, -B1C IGSO-540-A1A, -A1C, -A1D, -A1F, -A1H, -B1A TIO-540-A2C, -C1AD, -E1A, -G1A

-----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 69, revision 2, dated March 28, 2011, updates Supplement 69, revision 1, dated, July 12, 1995. The purpose of the revision is to include over-sized and under-sized parts, not previously listed on Supplement 69, revision 1. Supplement 69, revision 2 replaces, Supplement 69 revision 1.



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

MAR 28, 2011



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