



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

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

Manufacturing Inspection District Office  
10101 Hillwood Parkway, SW MIDO-42  
Fort Worth, Texas 76177-1524

May 3, 2016

Bill Huang  
Engineer  
Superior Air Parts, Inc.  
621 S. Royal Lane, Suite 100  
Coppell, TX 75019-3877

FEDERAL AVIATION ADMINISTRATION (FAA)-PARTS MANUFACTURER  
APPROVAL

Dear Mr. Huang:

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 FAA has found that the design data, based on Test and Computations submitted by Superior Air Parts, Inc., with your letter dated March 23, 2016, 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, TX 75019-3877. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed Supplement No. 187, revision 2.

You are reminded that the provisions of 14 CFR parts 21 and 45, noted in our PMA letter of approval dated July 9, 2012, also apply to the enclosed PMA Listing-Supplement No. 187, revision 2. 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

Enclosure  
PMA Listing-Supplement No. 187, revision 2



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. 187  
REVISION NO. 2  
DATE **MAY 03 2016**

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cylinder Stud Assembly	SA52006-A1	P/N 654962 P/N 653446 P/N 646657 P/N 654961 P/N 649358 P/N 658175 P/N 655470 P/N 655469 P/N 654651 P/N 653445 P/N 653142 P/N 652953 P/N 649318 P/N 649317 P/N 649169 P/N 649162 P/N 646652 P/N 642691 P/N 642320 P/N 631399A5 P/N 631399A4	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA52006-A1. <u>Rev:</u> G. <u>Date:</u> 05/21/07. or later FAA approved revisions.	Continental Motors	IO-520-A. -B. -BA. -BB. -C. -CB. -D. -E. -F. -J. -K. -L. -M. -MB. -N. -NB  TSIO-520-A. -AF. -B. -BB. -C. -CE. -D. -DB. -E. -EB. -G. -H. -J. -JB. -K. -KB. -L. -LB. -M. -N. -NB. -P. -R. -T. -U. -UB. -VB. -WB  IO-550-A. -B. -C  IOF-550-B. -C
Cylinder Assembly	SA52006-A20P	P/N 654961A2 P/N 658175A4 P/N 655469A7 P/N 655469A2 P/N 654961A9 P/N 654651A8 P/N 654651A2 P/N 653446A10 P/N 653446A6 P/N 653446A2 P/N 653445A15 P/N 653445A10 P/N 653445A5 P/N 653142A5 P/N 653142A2 P/N 652953A10 P/N 652953A6 P/N 652953A2 P/N 649358A8 P/N 649317A10 P/N 649317A7 P/N 649317A3	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA52006. <u>Rev:</u> C. <u>Date:</u> 05/26/11. or later FAA approved revisions.	Continental Motors	IO-520-A. -B. -BA. -BB. -C. -CB. -D. -E. -F. -J. -K. -L. -M. -MB. -N. -NB

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PMA NO. **PQ0060SW**  
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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cylinder Assembly	SA52006-A21P	P/N 654961A2 P/N 658175A4 P/N 655469A7 P/N 655469A2 P/N 654961A9 P/N 654651A8 P/N 654651A2 P/N 653446A10 P/N 653446A6 P/N 653446A2 P/N 653445A15 P/N 653445A10 P/N 653445A5 P/N 653142A5 P/N 653142A2 P/N 652953A10 P/N 652953A6 P/N 652953A2 P/N 649358A8 P/N 649317A10 P/N 649317A7 P/N 649317A3	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA52006. <u>Rev:</u> C. <u>Date:</u> 05/26/11, or later FAA approved revisions.	Continental Motors	IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB
Cylinder Assembly	SA52006-A22P	P/N 654961A4 P/N 658175A2 P/N 655470A4 P/N 655470A2 P/N 655469A9 P/N 655469A4 P/N 654962A3 P/N 654962A2 P/N 654961A7 P/N 654961A4 P/N 654652A4 P/N 654652A1 P/N 654651A10 P/N 654651A4 P/N 653446A11 P/N 653446A7 P/N 653446A3 P/N 653445A12 P/N 653445A7 P/N 653445A2 P/N 653142A6 P/N 652953A7 P/N 652953A3 P/N 649358A9 P/N 649358A5	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA52006. <u>Rev:</u> C. <u>Date:</u> 05/26/11, or later FAA approved revisions.	Continental Motors	TSIO-520-A, -AF, -B, -BB, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB, -WB

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cylinder Power Assembly	SA52006-A23P	P/N 654961A6	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA52006, <u>Rev:</u> C, <u>Date:</u> 05/26/11, or later FAA approved revisions.	Continental Motors	IO-550-A . -B. -C
		P/N 658175A3			IOF-550-B, -C
		P/N 655469A8			
		P/N 655469A3			
		P/N 654961A3			
		P/N 654651A9			
		P/N 654651A3			
		P/N 653445A14			
		P/N 653445A9			
		P/N 653445A4			
		P/N 652953A9			
		P/N 652953A5			
		P/N 649358A10			
Cylinder Stud Assembly, Long Reach	SA47006L-A1	P/N 654960.	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA47006L-A1, <u>Rev:</u> G, <u>Date:</u> 05/24/07, or later FAA approved revisions.	Continental Motors	O-470-U
		P/N 649168.			IO-470-D. -E. -F. -H. -L. -LO.-M. -N. -S. -U. -V. -VO
		P/N 655468.			
		P/N 654650.			
		P/N 653444.			
		P/N 653149.			
		P/N 653041.			
		P/N 653952.			
		P/N 646267.			
		P/N 646144.			
		P/N 641514.			
		P/N 635003.			
		P/N 631376A4.			
		P/N 630278.			
		P/N 656820			
		Cylinder Power Assembly, Long Reach			SA47006L-A20P
P/N 654960A6	IO-470-D. -E. -F. -H. -L. -LO.-M. -N. -S. -U. -V. -VO				
P/N 655468A8					
P/N 655468A6					
P/N 655468A4					
P/N 655468A2					
P/N 654960A4					
P/N 654960A3					
P/N 654650A6					
P/N 654650A3					
P/N 653444A12					
P/N 653444A11					

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PMA NO. **PQ0060SW**  
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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cylinder Stud Assembly, Short Reach	SA47006S-A1	P/N 654959, P/N 649163, P/N 655467, P/N 654649, P/N 653443, P/N 653148, P/N 653040, P/N 652951, P/N 646680, P/N 625859, P/N 538551	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA47006S-A1, <u>Rev:</u> H, <u>Date:</u> 05/24/07, or later FAA approved revisions.	Continental Motors	O-470-G, -G-CI, -K, -K-CI, -L, -L-CI, -M, -M-CI, -P, -R, -S, -T  IO-470-A, -C, -G, -P, -R, -T  LIO-470-A
Cylinder Power Assembly, Short Reach	SA47006S-A20P	P/N 654959A6, P/N 655467A8, P/N 655467A4, P/N 654959A4, P/N 654649A8, P/N 654649A4, P/N 653443A15, P/N 653443A10, P/N 653443A5, P/N 653148A8, P/N 653148A4, P/N 653040A8	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA47006S, <u>Rev:</u> C, <u>Date:</u> 09/26/05, or later FAA approved revisions.	Continental Motors	O-470-G, -G-CI, -M, -M-CI, -P  IO-470-A, -C, -G, -P, -R, -T  LIO-470-A
Cylinder Power Assembly, Short Reach	SA47006S-A21P	P/N 654959A5, P/N 655467A7, P/N 655467A3, P/N 654959A3, P/N 654649A7, P/N 654649A3, P/N 653443A13, P/N 653443A14, P/N 653443A9, P/N 653443A4, P/N 653148A7, P/N 653148A3	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA47006S, <u>Rev:</u> C, <u>Date:</u> 09/26/05, or later FAA approved revisions.	Continental Motors	O-470-K, -K-CI, -L, -L-CI, -R, -S, -T
Cylinder Stud Assembly	SA55006-A1	P/N 654963, 652954 P/N 655471 P/N 654653 P/N 653447 P/N 646821	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA55006-A1, <u>Rev:</u> F, <u>Date:</u> 02/08/06, or later FAA approved revisions.	Continental Motors	IO-550-D, -E, -F, -L  IOF-550-D, -E, -F, -L

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PMA NO. **PQ0060SW**  
SUPPLEMENT NO. 187  
REVISION NO. **03**  
DATE **MAY 03 2016**

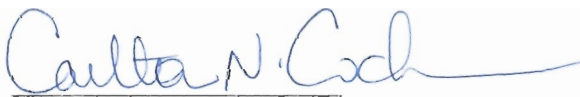
Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Cylinder Power Assembly	SA55006-A20P	P/N 654963A3	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA55006-A1, <u>Rev:</u> F, <u>Date:</u> 02/08/06, or later FAA approved revisions.	Continental Motors	IO-550-D, -E, -F, -L IOF-550-D, -E, -F, -L
		P/N 655471A4			
		P/N 655471A3			
		P/N 655471A2			
		P/N 655471A1			
		P/N 654963A2			
		P/N 654963A3			
		P/N 654963A4			
		P/N 654963A1			
		P/N 653447A6			
		P/N 653447A5			
		P/N 653447A4			
		P/N 653447A3			
		P/N 653447A2			
		P/N 653447A1			
		P/N 652954A2			
		P/N 652954A1			
P/N 646821A2					
P/N 646821A1					

----- END OF DATA -----

**GENERAL NOTES:**

Provide minor design changes in a manner as determined by the ACO. Process major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.

The FAA accepted the ICA approach for the above articles with their designs. These ICA may refer to those of the respective articles from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement articles. Make referral statements or supplemental ICA readily available per 14 CFR 21.50.



Scott Horn, Manager  
Aircraft Certification Office



Carlton N. Cochran, Manager  
Fort Worth Manufacturing Inspection  
District Office