



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

January 28, 2011

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

FEDERAL AVIATION ADMINISTRATION (FAA) - PARTS MANUFACTURER
APPROVAL (PMA)

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 January 21, 2011, meets 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, PMA is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 1, revision 3 dated January 28, 2011. All previously issued revisions remain 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. 1, revision 3. 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, Manufacturing Inspection District Office
SW MIDO-42

Enclosure
PMA Supplement No. 1, revision 3 dated January 28, 2011.



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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. 1
REVISION 3
DATE January 28, 2011

Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Connecting Rod Upper & Lower Trimetal F-77	SA35897	Teledyne Continental Part Number 35897	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35897, <u>Rev:</u> R <u>Date:</u> 8/22/68 or later FAA-approved revisions	Continental	A-65 A75 C75 C85 C90 O-200 C-125 O-300 GO-300 IO-360 TSIO-360
Bearing, Connecting Rod Upper & Lower Trimetal F-77	SA35897U-10	Teledyne Continental Part Number 35897 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35897, <u>Rev:</u> R <u>Date:</u> 8/22/68 or later FAA-approved revisions	Continental	A-65 A75 C75 C85 C90 O-200 C-125 O-300 GO-300 IO-360 TSIO-360
Insert, Int. Valve Seat	SA35966	Teledyne Continental Part Number 35966	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35966, <u>Rev:</u> A <u>Date:</u> 11/12/71 or later FAA-approved revisions	Continental	E185-1, -3, -8, -9, -11 E225-4, -8 IO-346-A, -B FSO-470-A O-470-2 IO-470-J, -K O-470-4, -11, -13A, -15 O-470-A, -B, -E, -J

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Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Insert, Int. Valve Seat	SA35966+005	Teledyne Continental Part Number 35966 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35966, <u>Rev:</u> A <u>Date:</u> 11/12/71 or later FAA-approved revisions	Continental	E185-1, -3, -8, -9, -11 E225-4, -8 IO-346-A, -B FSO-470-A O-470-2 IO-470-J, -K O-470-4, -11, -13A, -15 O-470-A, -B, -E, -J
Insert, Int. Valve Seat	SA35966+010	Teledyne Continental Part Number 35966 P10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35966, <u>Rev:</u> A <u>Date:</u> 11/12/71 or later FAA-approved revisions	Continental	E185-1, -3, -8, -9, -11 E225-4, -8 IO-346-A, -B FSO-470-A O-470-2 IO-470-J, -K O-470-4, -11, -13A, -15 O-470-A, -B, -E, -J
Insert, Int. Valve Seat	SA35966+015	Teledyne Continental Part Number 35966 P015	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35966, <u>Rev:</u> A <u>Date:</u> 11/12/71 or later FAA-approved revisions	Continental	E185-1, -3, -8, -9, -11 E225-4, -8 IO-346-A, -B FSO-470-A O-470-2 IO-470-J, -K O-470-4, -11, -13A, -15 O-470-A, -B, -E, -J
Insert, Int. Valve Seat	SA35966+020	Teledyne Continental Part Number 35966 P20	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35966, <u>Rev:</u> A <u>Date:</u> 11/12/71 or later FAA-approved revisions	Continental	E185-1, -3, -8, -9, -11 E225-4, -8 IO-346-A, -B FSO-470-A O-470-2 IO-470-J, -K O-470-4, -11, -13A, -15 O-470-A, -B, -E, -J

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Insert, Int. Valve Seat	SA35966+030	Teledyne Continental Part Number 35966 P30	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA35966, <u>Rev:</u> A <u>Date:</u> 11/12/71 or later FAA-approved revisions	Continental	E185-1, -3, -8, -9, -11 E225-4, -8 IO-346-A, -B FSO-470-A O-470-2 IO-470-J, -K O-470-4, -11, -13A, -15 O-470-A, -B, -E, -J
Bearing-Crankshaft Main Thrust	SA40644	Teledyne Continental Part Number 40644	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 40644, <u>Rev:</u> N/C <u>Date:</u> 01/23/71 or later FAA-approved revisions	Continental	E185-1 E225-8
Bearing-Crankshaft Main Thrust	SA40644 U10	Teledyne Continental Part Number 40644 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 40644, <u>Rev:</u> N/C <u>Date:</u> 01/23/71 or later FAA-approved revisions	Continental	E185-1 E225-8
Bushing, Rocker Boss Shaft	SA530462	Teledyne Continental Part Number 530462	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 530462, <u>Rev:</u> A <u>Date:</u> 07/26/90 or later FAA-approved revisions	Continental	IO-470-J, -K O-470-A, -E, -J
Bushing, Rocker Boss Shaft	SA530462P005	Teledyne Continental Part Number 530462 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 530462, <u>Rev:</u> A <u>Date:</u> 07/26/90 or later FAA-approved revisions	Continental	IO-470-J, -K O-470-A, -E, -J
Bushing, Rocker Boss Shaft	SA530462P010	Teledyne Continental Part Number 530462 P10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 530462, <u>Rev:</u> A <u>Date:</u> 07/26/90 or later FAA-approved revisions	Continental	IO-470-J, -K O-470-A, -E, -J

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Bushing, Rocker Boss Shaft	SA530462P020	Teledyne Continental Part Number 530462 P20	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 530462, <u>Rev:</u> A <u>Date:</u> 07/26/90 or later FAA-approved revisions	Continental	IO-470-J, -K O-470-A, -E, -J
Piston Ring, Oil Control	SA537064	Teledyne Continental Part Number 537064	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 537064, <u>Rev:</u> A <u>Date:</u> 8/15/70 or later FAA-approved revisions	Continental	O-470-11
Piston Ring, Oil Control	SA537064P005	Teledyne Continental Part Number 537064 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 537064, <u>Rev:</u> A <u>Date:</u> 8/15/70 or later FAA-approved revisions	Continental	O-470-11
Piston Ring, Oil Control	SA537064P015	Teledyne Continental Part Number 537064 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 537064, <u>Rev:</u> A <u>Date:</u> 8/15/70 or later FAA-approved revisions	Continental	O-470-11
Bearing, Crankshaft Main	SA537848	Teledyne Continental Part Number 537848	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 537848, <u>Rev:</u> C <u>Date:</u> 4/25/68 or later FAA-approved revisions	Continental	IO-470 O-470
Bearing, Crankshaft Main	SA537848-010	Teledyne Continental Part Number 537848 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 537848, <u>Rev:</u> C <u>Date:</u> 4/25/68 or later FAA-approved revisions	Continental	IO-470 O-470

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Piston	SA539814	Teledyne Continental Part Number 539814	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 539814, <u>Rev:</u> AS <u>Date:</u> 2/20/68 or later FAA-approved revisions	Continental	IO-470 O-470
Piston	SA539814+015	Teledyne Continental Part Number 539814 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 539814, <u>Rev:</u> AS <u>Date:</u> 2/20/68 or later FAA-approved revisions	Continental	IO-470 O-470
Ring, Piston	SA625147	Teledyne Continental Part Number 625147	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 625147, <u>Rev:</u> B <u>Date:</u> 011/21/67 or later FAA-approved revisions	Continental	LIO-470-A IO-470-G, -R, -P IO-470-C O-470-G O-470-15
Ring, Piston	SA625147+005	Teledyne Continental Part Number 625147 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 625147, <u>Rev:</u> B <u>Date:</u> 011/21/67 or later FAA-approved revisions	Continental	LIO-470-A IO-470-G, -R, -P IO-470-C O-470-G O-470-15
Ring, Piston	SA625147+015	Teledyne Continental Part Number 625147 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 625147, <u>Rev:</u> B <u>Date:</u> 011/21/67 or later FAA-approved revisions	Continental	LIO-470-A IO-470-G, -R, -P IO-470-C O-470-G O-470-15
Ring, Piston	SA627336	Teledyne Continental Part Number 627336	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 627336, <u>Rev:</u> K <u>Date:</u> 3/29/68 or later FAA-approved revisions	Continental	C90-8F, -8FJ, -12F, -12FJ, -14F O-200-A C145-2, -2H O-300-A, B, -C, -D GO-300-A, -C, -D, -E

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Ring, Piston	SA627336+005	Teledyne Continental Part Number 627336 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 627336, <u>Rev:</u> K <u>Date:</u> 3/29/68 or later FAA-approved revisions	Continental	C90-8F, -8FJ, -12F, -12FJ, -14F O-200-A C145-2, -2H O-300-A, B, -C, -D GO-300-A, -C, -D, -E
Ring, Piston	SA627336+015	Teledyne Continental Part Number 627336 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 627336, <u>Rev:</u> K <u>Date:</u> 3/29/68 or later FAA-approved revisions	Continental	C90-8F, -8FJ, -12F, -12FJ, -14F O-200-A C145-2, -2H O-300-A, B, -C, -D GO-300-A, -C, -D, -E
Piston	SA627738	Teledyne Continental Part Number 3627738	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 627738, <u>Rev:</u> AF <u>Date:</u> 04/10/80 or later FAA-approved revisions	Continental	IO-470
Piston	SA627738+015	Teledyne Continental Part Number 3627738 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 627738, <u>Rev:</u> AF <u>Date:</u> 04/10/80 or later FAA-approved revisions	Continental	IO-470
Guide, Exhaust Valve	SA628309	Teledyne Continental Part Number 628309	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628309, <u>Rev:</u> D <u>Date:</u> 12/10/72 or later FAA-approved revisions	Continental	C75 C85 C90 O-200-A, -B C-125-2 C145-2, -2H O-300-A, -B, -C, -D GO-300-A, -C, -D, -E
Guide, Exhaust Valve	SA628309+005	Teledyne Continental Part Number 628309 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628309, <u>Rev:</u> D <u>Date:</u> 12/10/72 or later FAA-approved revisions	Continental	C75 C85 C90 O-200-A, -B C-125-2 C145-2, -2H O-300-A, -B, -C, -D GO-300-A, -C, -D, -E

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Guide, Exhaust Valve	SA628309+010	Teledyne Continental Part Number 628309 P10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628309, <u>Rev:</u> D <u>Date:</u> 12/10/72 or later FAA-approved revisions	Continental	C75 C85 C90 O-200-A, -B C-125-2 C145-2, -2H O-300-A, -B, -C, -D GO-300-A, -C, -D, -E
Guide, Exhaust Valve	SA628309+020	Teledyne Continental Part Number 628309 P20	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628309, <u>Rev:</u> D <u>Date:</u> 12/10/72 or later FAA-approved revisions	Continental	C75 C85 C90 O-200-A, -B C-125-2 C145-2, -2H O-300-A, -B, -C, -D GO-300-A, -C, -D, -E
Bearing, Conn. Rod Upper & Lower	SA628750	Teledyne Continental Part Number 628750	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628750, <u>Rev:</u> B <u>Date:</u> 8/22/68 or later FAA-approved revisions	Continental	IO-360 IO-470 IO-520 O-470 TSIO-470 TSIO-520
Bearing, Conn. Rod Upper & Lower	SA628750-.010	Teledyne Continental Part Number 628750 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628750, <u>Rev:</u> B <u>Date:</u> 8/22/68 or later FAA-approved revisions	Continental	IO-360 IO-470 IO-520 O-470 TSIO-470 TSIO-520
Ring, Piston	SA628985	Teledyne Continental Part Number 628985	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B
Ring, Piston	SA628985+005	Teledyne Continental Part Number 628985 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B

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Ring, Piston	SA628985+015	Teledyne Continental Part Number 628985 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B
Ring, Piston	SA628985+020	Teledyne Continental Part Number 628985 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B
Ring, Piston	SA628985+030	Teledyne Continental Part Number 628985 P015	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B
Ring, Piston	SA628985+040	Teledyne Continental Part Number 628985 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B
Ring, Piston	SA628985+060	Teledyne Continental Part Number 628985 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 628985, <u>Rev:</u> None <u>Date:</u> 11/28/67 or later FAA-approved revisions	Continental	IO-470-D, -E, -F, -G, -L, -M TSIO-470-B
Bearing, Crankshaft Main	SA630789	Teledyne Continental Part Number 630789	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630789, <u>Rev:</u> A <u>Date:</u> 04/23/68 or later FAA-approved revisions	Continental	IO-520

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Bearing, Crankshaft Main	SA630789-010	Teledyne Continental Part Number 630789 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630789, <u>Rev:</u> A <u>Date:</u> 04/23/68 or later FAA-approved revisions	Continental	IO-520
Ring, Piston	SA631250	Teledyne Continental Part Number 631250	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631250, <u>Rev:</u> None, <u>Date:</u> 04/1/69 or later FAA-approved revisions	Continental	GTSIO-520-C
Ring, Piston	SA631250P005	Teledyne Continental Part Number 631250 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631250, <u>Rev:</u> None <u>Date:</u> 04/1/69 or later FAA-approved revisions	Continental	GTSIO-520-C
Ring, Piston	SA631250P015	Teledyne Continental Part Number 631250 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631250, <u>Rev:</u> None <u>Date:</u> 04/1/69 or later FAA-approved revisions	Continental	GTSIO-520-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. Revision number 3 dated January 28, 2011 updates supplement number 1, revision 1 dated 8/30/1993. The purpose of the revision is to include over-sized and undersized parts not previously listed on supplement number 1, revision 1. Supplement 1 revision 1 dated 8/30/1993 remains in effect.


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


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