



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 4 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 4. 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 4 dated January 28, 2011.



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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 4
DATE January 28, 2011

Part Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bushing, Damper, Crankshaft	SA350997	Teledyne Continental Part Number 350997	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 350997, <u>Rev:</u> R <u>Date:</u> 01/31/05 or later FAA-approved revisions	Continental	O-470 TSIO-470
Bushing, Damper, Crankshaft	SA350997 P015	Teledyne Continental Part Number 350997 P0015	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 350997, <u>Rev:</u> R <u>Date:</u> 01/31/05 or later FAA-approved revisions	Continental	O-470 TSIO-470
Bushing, Damper, Crankshaft	SA350997 P003	Teledyne Continental Part Number 350997 P003	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 350997, <u>Rev:</u> R <u>Date:</u> 01/31/05 or later FAA-approved revisions	Continental	O-470 TSIO-470
Bushing, Damper, Crankshaft	SA350997 P005	Teledyne Continental Part Number 350997 P005	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 350997, <u>Rev:</u> R <u>Date:</u> 01/31/05 or later FAA-approved revisions	Continental	O-470 TSIO-470
Guide, Valve	SA515152	Teledyne Continental Part Number 515152	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA515152, <u>Rev:</u> A <u>Date:</u> 12/20/04 or later FAA-approved revisions	Continental	E-185-1, -3, -8, -9, -11 E-225-4, -8 GSO-526-A IO-346-A, -B IO-470-J, -K O-470-2, -11, -13A, -15 O-470-A, -E, -J
Guide, Valve	SA515152P005	Teledyne Continental Part Number 515152 P005	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA515152, <u>Rev:</u> A <u>Date:</u> 12/20/04 or later FAA-approved revisions	Continental	E-185-1, -3, -8, -9, -11 E-225-4, -8 GSO-526-A IO-346-A, -B IO-470-J, -K O-470-2, -11, -13A, -15 O-470-A, -E, -J

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Guide, Valve	SA515152P010	Teledyne Continental Part Number 515152 P010	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA515152, <u>Rev:</u> A <u>Date:</u> 12/20/04 or later FAA-approved revisions	Continental	E-185-1, -3, -8, -9, -11 E-225-4, -8 GSO-526-A IO-346-A, -B IO-470-J, -K O-470-2, -11, -13A, -15 O-470-A, -E, -J
Guide, Valve	SA515152P015	Teledyne Continental Part Number 515152 P015	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA515152, <u>Rev:</u> A <u>Date:</u> 12/20/04 or later FAA-approved revisions	Continental	E-185-1, -3, -8, -9, -11 E-225-4, -8 GSO-526-A IO-346-A, -B IO-470-J, -K O-470-2, -11, -13A, -15 O-470-A, -E, -J
Guide, Valve	SA515152P020	Teledyne Continental Part Number 515152 P020	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA515152, <u>Rev:</u> A <u>Date:</u> 12/20/04 or later FAA-approved revisions	Continental	E-185-1, -3, -8, -9, -11 E-225-4, -8 GSO-526-A IO-346-A, -B IO-470-J, -K O-470-2, -11, -13A, -15 O-470-A, -E, -J
Bearing, Crankshaft Main	SA530386	Teledyne Continental Part Number 530386	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA530386, <u>Rev:</u> N <u>Date:</u> 10/25/05 or later FAA-approved revisions	Continental	E185 E225 GSIO-470 IO-470 O-470 TSIO-470
Bearing, Crankshaft Main	SA530386 M002	Teledyne Continental Part Number 530386 M002	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA530386, <u>Rev:</u> N <u>Date:</u> 10/25/05 or later FAA-approved revisions	Continental	E185 E225 GSIO-470 IO-470 O-470 TSIO-470
Bearing, Crankshaft Main	SA530386 M010	Teledyne Continental Part Number 530386 M010	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA530386, <u>Rev:</u> N <u>Date:</u> 10/25/05 or later FAA-approved revisions	Continental	E185 E225 GSIO-470 IO-470 O-470 TSIO-470
Bearing, Crankshaft Main	SA530386 M020	Teledyne Continental Part Number 530386 M020	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA530386, <u>Rev:</u> N <u>Date:</u> 10/25/05 or later FAA-approved revisions	Continental	E185 E225 GSIO-470 IO-470 O-470 TSIO-470

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Ring- Piston Oil Control	SA536939	Teledyne Continental Part Number 536939	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 536939, <u>Rev:</u> D <u>Date:</u> 9/15/72 or later FAA-approved revisions	Continental	E185 E225 FSO-470-A IO-470 LIO-470-A O-470
Ring- Piston Oil Control	SA536939+005	Teledyne Continental Part Number 536939 P005	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 536939, <u>Rev:</u> D <u>Date:</u> 9/15/72 or later FAA-approved revisions	Continental	E185 E225 FSO-470-A IO-470 LIO-470-A O-470
Ring- Piston Oil Control	SA536939+015	Teledyne Continental Part Number 536939 P015	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 536939, <u>Rev:</u> D <u>Date:</u> 9/15/72 or later FAA-approved revisions	Continental	E185 E225 FSO-470-A IO-470 LIO-470-A O-470
Bearing Crk' Shaft, Rear Main	SA538897	Teledyne Continental Part Number 538897	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 538897, <u>Rev:</u> 3 <u>Date:</u> 2/1/05 or later FAA-approved revisions	Continental	IO-520
Bearing Crk' Shaft, Rear Main	SA538897 010	Teledyne Continental Part Number 538897 M010	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 538897, <u>Rev:</u> 3 <u>Date:</u> 2/1/05 or later FAA-approved revisions	Continental	IO-520
Guide, Valve, Intake	SA630262	Teledyne Continental Part Number 630262	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630262, <u>Rev:</u> J <u>Date:</u> 07/19/05 or later FAA-approved revisions	Continental	IO-360- A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB LTSIO-360-EB TSIO-360-AB, -CB, -DB, -FB, -HB
Guide, Valve, Intake	SA630262 P05	Teledyne Continental Part Number 630262 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630262, <u>Rev:</u> J <u>Date:</u> 07/19/05 or later FAA-approved revisions	Continental	IO-360- A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB LTSIO-360-EB TSIO-360-AB, -CB, -DB, -FB, -HB

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Guide, Valve, Intake	SA630262 P10	Teledyne Continental Part Number 630262 P10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630262, <u>Rev:</u> J <u>Date:</u> 07/19/05 or later FAA-approved revisions	Continental	IO-360- A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB LTSIO-360-EB TSIO-360-AB, -CB, -DB, -FB, -HB
Guide, Valve, Intake	SA630262 P20	Teledyne Continental Part Number 630262 P20	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630262, <u>Rev:</u> J <u>Date:</u> 07/19/05 or later FAA-approved revisions	Continental	IO-360- A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB LTSIO-360-EB TSIO-360-AB, -CB, -DB, -FB, -HB
Guide, Valve, Intake	SA630262 P30	Teledyne Continental Part Number 630262 P30	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 630262, <u>Rev:</u> J <u>Date:</u> 07/19/05 or later FAA-approved revisions	Continental	IO-360- A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB LTSIO-360-EB TSIO-360-AB, -CB, -DB, -FB, -HB
Ring, Piston 2 nd Groove	SA630753	Teledyne Continental Part Number 630753	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA630753, <u>Rev:</u> Q <u>Date:</u> 11/22/1967 or later FAA-approved revisions	Continental	GTSIO-520-C IO-346-A, -B IO-520-A, -B, -C, -D, -E, -F TSIO-520-A, -B, -C, -D, -E
Ring, Piston 2 nd Groove	SA630753+.005	Teledyne Continental Part Number 630753 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA630753, <u>Rev:</u> Q <u>Date:</u> 11/22/1967 or later FAA-approved revisions	Continental	GTSIO-520-C IO-346-A, -B IO-520-A, -B, -C, -D, -E, -F TSIO-520-A, -B, -C, -D, -E
Ring, Piston 2 nd Groove	SA630753+.015	Teledyne Continental Part Number 630753 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA630753, <u>Rev:</u> Q <u>Date:</u> 11/22/1967 or later FAA-approved revisions	Continental	GTSIO-520-C IO-346-A, -B IO-520-A, -B, -C, -D, -E, -F TSIO-520-A, -B, -C, -D, -E
Piston	SA631481	Teledyne Continental Part Number 631481	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA631481, <u>Rev:</u> L <u>Date:</u> 02/15/68 or later FAA-approved revisions	Continental	GIO-470 IO-470 TSIO-470

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Piston	SA631481+015	Teledyne Continental Part Number 631481 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA631481, <u>Rev:</u> L <u>Date:</u> 02/15/68 or later FAA-approved revisions	Continental	GIO-470 IO-470 TSIO-470
Ring, Piston Top Groove	SA631501	Teledyne Continental Part Number 631501	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 3631501, <u>Rev:</u> P <u>Date:</u> 11/22/1967 or later FAA-approved revisions	Continental	GIO-470-A IO-470-D, -E, -F, -H, -L, -M, -N, -S, -T, -U, -V TSIO-470-B, -C, -D
Ring, Piston Top Groove	SA631501 +.005	Teledyne Continental Part Number 631501 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 3631501, <u>Rev:</u> P <u>Date:</u> 11/22/1967 or later FAA-approved revisions	Continental	GIO-470-A IO-470-D, -E, -F, -H, -L, -M, -N, -S, -T, -U, -V TSIO-470-B, -C, -D
Ring, Piston Top Groove	SA631501 +.015	Teledyne Continental Part Number 631501 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 3631501, <u>Rev:</u> P <u>Date:</u> 12/29/1967 or later FAA-approved revisions	Continental	GIO-470-A IO-470-D, -E, -F, -H, -L, -M, -N, -S, -T, -U, -V TSIO-470-B, -C, -D
Ring, Piston DLS-40RW	SA631730	Teledyne Continental Part Number 631730	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631730, <u>Rev:</u> L <u>Date:</u> 11/18/72 or later FAA-approved revisions	Continental	GTSIO-520 IO-520 TSIO-520
Ring, Piston DLS-40RW	SA631730+005	Teledyne Continental Part Number 631730 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631730, <u>Rev:</u> L <u>Date:</u> 11/18/72 or later FAA-approved revisions	Continental	GTSIO-520 IO-520 TSIO-520
Ring, Piston DLS-40RW	SA631730+010	Teledyne Continental Part Number 631730 P10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631730, <u>Rev:</u> L <u>Date:</u> 11/18/72 or later FAA-approved revisions	Continental	GTSIO-520 IO-520 TSIO-520

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Ring, Piston DLS-40RW	SA631730+015	Teledyne Continental Part Number 631730 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 631730, <u>Rev:</u> L <u>Date:</u> 11/18/72 or later FAA-approved revisions	Continental	GTSIO-520 IO-520 TSIO-520
Piston, Forged	SA632585	Teledyne Continental Part Number 632585	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 632585, <u>Rev:</u> A <u>Date:</u> 7/20/87 or later FAA-approved revisions	Continental	TSIO-520
Piston, Forged	SA632585P010	Teledyne Continental Part Number 632585 P10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 632585, <u>Rev:</u> A <u>Date:</u> 7/20/87 or later FAA-approved revisions	Continental	TSIO-520
Piston, Forged	SA632585P015	Teledyne Continental Part Number 632585 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 632585, <u>Rev:</u> A <u>Date:</u> 7/20/87 or later FAA-approved revisions	Continental	TSIO-520
Ring-Piston	SA633317	Teledyne Continental Part Number 633317	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 633317, <u>Rev:</u> None <u>Date:</u> 1/2/70 or later FAA-approved revisions	Continental	O-470-K, -L, -R
Ring-Piston	SA633317P005	Teledyne Continental Part Number 633317 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 633317, <u>Rev:</u> None <u>Date:</u> 1/2/70 or later FAA-approved revisions	Continental	O-470-K, -L, -R
Ring-Piston	SA633317P015	Teledyne Continental Part Number 633317 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 633317, <u>Rev:</u> None <u>Date:</u> 1/2/70 or later FAA-approved revisions	Continental	O-470-K, -L, -R

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Bearing, Main Center & Rear	SA633399	Teledyne Continental Part Number 633399	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA633399, <u>Rev:</u> A <u>Date:</u> 9/16/68 or later FAA-approved revisions	Continental	A-65 C85 C90
Bearing, Main Center & Rear	SA633399-.010	Teledyne Continental Part Number 633399 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA633399, <u>Rev:</u> A <u>Date:</u> 9/16/68 or later FAA-approved revisions	Continental	A-65 C85 C90
Bearing, Crankshaft Main	SA635439	Teledyne Continental Part Number 635439	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA635439, <u>Rev:</u> None <u>Date:</u> 9/26/69 or later FAA-approved revisions	Continental	IO-520-B, -C TSIO-520-B, -D, -E
Bearing, Crankshaft Main	SA635439 M010	Teledyne Continental Part Number 635439 M10	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA635439, <u>Rev:</u> None <u>Date:</u> 9/26/69 or later FAA-approved revisions	Continental	IO-520-B, -C TSIO-520-B, -D, -E
Piston-Ring Oil Control	SA635557	Teledyne Continental Part Number 635557	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 635557, <u>Rev:</u> None <u>Date:</u> 2/23/69 or later FAA-approved revisions	Continental	O-470-B, -K, -L, -M, -P, -R
Piston-Ring Oil Control	SA635557+005	Teledyne Continental Part Number 635557 P05	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 635557, <u>Rev:</u> None <u>Date:</u> 2/23/69 or later FAA-approved revisions	Continental	O-470-B, -K, -L, -M, -P, -R

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Piston-Ring Oil Control	SA635557+015	Teledyne Continental Part Number 635557 P15	Test and Computations per 14 CFR § 21.303, <u>DWG. No:</u> SA 635557, <u>Rev:</u> None <u>Date:</u> 2/23/69 or later FAA-approved revisions	Continental	O-470-B, -K, -L, -M, -P, -R

-----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 4 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