



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

Aviation Safety

10101 Hillwood Parkway
Fort Worth, Texas 76177

June 11, 2021

Darryl Harlos
Quality Director
Superior Air Parts, Inc.
621 S. Royal Lane, Suite 100
Coppell, TX 75019

FEDERAL AVIATION ADMINISTRATION (FAA)-PARTS MANUFACTURER APPROVAL

Dear Mr. Harlos:

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR) part 21, Certification Procedures for Products and Articles, subpart K, the FAA has found that the design data, based on Test and Computation and submitted by Superior Air Parts, Inc., with your letter dated January 31, 2020, 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. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed Supplement No. 235.

You are reminded that the provisions of 14 CFR parts 21 and 45, noted in our PMA letter of approval dated July 09, 2012, also apply to the enclosed PMA Listing-Supplement No. 235. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

CARLTON N Digitally signed by
COCHRAN CARLTON N COCHRAN
Date: 2021.06.11
10:46:36 -05'00'

Carlton N. Cochran
Aviation Safety
Manager, Fort Worth MIDO Section, AIR-882

Enclosure
PMA Listing-Supplement No. 235



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. 235
DATE: June 11, 2021

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Bearing, Main	SA634503 M005	634503M005	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA634503, <u>Rev:</u> R <u>Date:</u> 04/29/2010 or later FAA-approved revisions	Continental Aerospace Technologies	GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N IO-520-BB, -CB, -MB TSIO-520-BB, -BE, -CE, -DB, -EB, -JB, -KB, -LB, -NB, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Bearing, Main	SA634503 M010	634503M010	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA634503, <u>Rev:</u> R <u>Date:</u> 04/29/2010 or later FAA-approved revisions	Continental Aerospace Technologies	GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N IO-520-BB, -CB, -MB TSIO-520-BB, -BE, -CE, -DB, -EB, -JB, -KB, -LB, -NB, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Bearing, Main	SA634503 M020	634503M020	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA634503, <u>Rev:</u> R <u>Date:</u> 04/29/2010 or later FAA-approved revisions	Continental Aerospace Technologies	GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N IO-520-BB, -CB, -MB TSIO-520-BB, -BE, -CE, -DB, -EB, -JB, -KB, -LB, -NB, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Bearing, Connecting Rod	SA642398 M005	642398M005	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA642398, <u>Rev:</u> H <u>Date:</u> 08/12/2008 or later FAA-approved revisions	Continental Aerospace Technologies	IO-520-BB, -CB, -MB TSIO-520-BB, -BE, -KB, -LB, -NB, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Bearing, Connecting Rod	SA642398 M010	642398M010	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA642398, <u>Rev:</u> H <u>Date:</u> 08/12/2008 or later FAA-approved revisions	Continental Aerospace Technologies	IO-520-BB, -CB, -MB TSIO-520-BB, -BE, -KB, -LB, -NB, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A

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. 235
DATE: June 11, 2021

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Bearing, Main	SA642720 M005	642720M005	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA642720, <u>Rev:</u> N <u>Date:</u> 09/28/2008 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BB, -CB, -D, -E, -F, -J, -K, -L, -MB TSIO-520-AE, -AF, -BB, -BE, -C, -CE, -DB, -EB, -G, -H, -JB, -KB, -LB, -M, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Bearing, Main	SA642720 M010	642720M010	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA642720, <u>Rev:</u> N <u>Date:</u> 09/28/2008 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BB, -CB, -D, -E, -F, -J, -K, -L, -MB TSIO-520-AE, -AF, -BB, -BE, -C, -CE, -DB, -EB, -G, -H, -JB, -KB, -LB, -M, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Bearing, Main	SA642839 M005	642839M005	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA642839, <u>Rev:</u> M <u>Date:</u> 08/12/2008 or later FAA-approved revisions	Continental Aerospace Technologies	IO-520-B, -BA, -C, -M TSIO-520-B, -D, -E, -J, -K, -L, -N
Bearing, Main	SA642839 M010	642839M010	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA642839, <u>Rev:</u> M <u>Date:</u> 08/12/2008 or later FAA-approved revisions	Continental Aerospace Technologies	IO-520-B, -BA, -C, -M TSIO-520-B, -D, -E, -J, -K, -L, -N

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. 235
DATE: June 11, 2021

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Guide, Intake Valve	SA643766 P005	643766P005	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Guide, Intake Valve	SA643766 P010	643766P010	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Guide, Intake Valve	SA643766 P015	643766P015	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A

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SUPPLEMENT NO. 235
DATE: June 11, 2021

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Guide, Intake Valve	SA643766 P020	643766P020	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Guide, Intake Valve	SA643766 P030	643766P030	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Guide, Intake Valve	SA643766-1 P005	643766P005	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A

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Guide, Intake Valve	SA643766-1 P010	643766P010	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Guide, Intake Valve	SA643766-1 P015	643766P015	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A
Guide, Intake Valve	SA643766-1 P020	643766P020	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions	Continental Aerospace Technologies	IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

SUPERIOR AIR PARTS, INC.
621 S. Royal Lane, Suite # 100
Coppell, TX 75019-3805

PMA NO. PQ0060SW
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DATE: June 11, 2021

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Guide, Intake Valve	SA643766-1 P030	643766P030	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> SA643766, <u>Rev:</u> J <u>Date:</u> 07/15/2009 or later FAA-approved revisions		IO-470-C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -R, -S, -U, -V O-470-A, -B, -E, -G, -J, -K, -L, -M, -P, -R, -S, -U IO-520-A, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB GTSIO-520-C, -D, -F, -H, -K, -L, -M, -N LTSIO-520-AE TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB IO-550-A, -B, -C, -D, -E, -F, -G, -L TSIOL-550-A

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

GENERAL NOTES:

- 1) 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.
- 2) 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.

CARLTON N COCHRAN Digitally signed by
CARLTON N COCHRAN
Date: 2021.06.11
10:49:20 -05'00'

For - Jim Grigg
Manager, Fort Worth ACO Branch
Compliance & Airworthiness Division
Aircraft Certification Service

CARLTON N COCHRAN Digitally signed by
CARLTON N COCHRAN
Date: 2021.06.11
10:49:39 -05'00'

Carlton N. Cochran
Aviation Safety
Manager, Fort Worth MIDO Section, AIR-882