



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

February 7, 2017

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 and submitted by Superior Air Parts, Inc., with your letter dated January 12, 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. 197 Revision 1.

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. 197 Revision 1. 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. 197 Revision 1



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

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL (PMA)

Superior Air Parts, Inc.
621 S. Royal Lane, Suite # 100
Coppell, TX 75019-3805

PMA NO. PQ0060SW
SUPPLEMENT NO. 197
REVISION NO. 1
DATE: February 7, 2017

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Stud. 7/16 -14 x 7/16-20	SA25329	P/N 25329	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA25329, <u>Rev:</u> A. <u>Date:</u> 5/24/16. or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X
Stud. 7/16 -14 x 7/16-20	SA25329 P003	P/N 25329P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA25329, <u>Rev:</u> A. <u>Date:</u> 5/24/16. or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X

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Stud. 7/16 -14 x 7/16-20	SA25329 P006	P/N 25329P006	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA25329, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X
Stud. 7/16 -14 x 7/16-20	SA25329 P009	P/N 25329P009	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA25329, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X
Stud. 7/16 -14 x 7/16-20	SA25330	P/N 25330 P/N 24255	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA25330, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F

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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
Stud. 7/16 -14 x 7/16-20	SA25330	P/N 25330 P/N 24255	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA25330. <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-200-A, -B, -C, -D, -X O-240-A, -B IOF-240-B
Stud. 7/16 -14 x 7/16-20	SA25330 P003	P/N 25330P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA25330, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B
Stud. 7/16 -14 x 7/16-20	SA25330 P006	P/N 25330P006	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA25330, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B
Stud. 7/16 -14 x 7/16-20	SA25330 P009	P/N 25330P009	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA25330, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F

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Stud. 7/16 -14 x 7/16-20	SA25330 P009	P/N 25330P009	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA25330, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B
Stud. 1/4-20 x 1/4-28	SA401801	P/N 401801 P/N 20546	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401801, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F C-125-1, -2 C-145-2, -2H, -2HP O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB

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Stud, 1/4-20 x 1/4-28	SA401801	P/N 401801 P/N 20546	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401801, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401801 P003	P/N 401801P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401801, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F C-125-1, -2 C-145-2, -2H, -2HP O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB

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Stud, 1/4-20 x 1/4-28	SA401801 P003	P/N 401801P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401801. <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTSIO-360-E, -EB, -KB, -RB IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401801 P007	P/N 401801P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401801. <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F C-125-1, -2 C-145-2, -2H, -2HP O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB

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Stud, 1/4-20 x 1/4-28	SA401801 P012	P/N 401801P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401801, <u>Rev:</u> A. <u>Date:</u> 5/24/16. or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F C-125-1, -2 C-145-2, -2H, -2HP O-200-A, -B, -C, -D, -X IO-240-A, -B IOF-240-B O-300-A, -B, -C, -D, -E IO-346-A, -B

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Stud. 1/4-20 x 1/4-28	SA401801 P012	P/N 401801P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401801, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401849	P/N 401849	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401849, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-AE LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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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
Stud, 3/8-16 x 3/8-24	SA401849 P003	P/N 401849P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401849, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-AE LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA401849 P007	P/N 401849P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401849, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-AE LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA401849 P012	P/N 401849P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401849, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-AE LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA401852	P/N 401852 P/N 25008 P/N 532498	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401852, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	E185-1, -2, -3, -5, -8, -9, -10, -11 E225-2, -4, -8, -9 IO-240-A, -B IOF-240-B IO-346-A, -B IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB

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Stud, 1/4-20 x 1/4-28	SA401852	P/N 401852 P/N 25008 P/N 532498	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401852, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTSIO-360-E, -EB, -KB, -RB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, - J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -L-O, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C

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Stud, 1/4-20 x 1/4-28	SA401852 P003	P/N 401852P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401852. <u>Rev:</u> B. <u>Date:</u> 5/24/16. or later FAA approved revisions.	Continental Motors	E185-1, -2, -3, -5, -8, -9, -10, -11 E225-2, -4, -8, -9 IO-240-A, -B IOF-240-B IO-346-A, -B IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB LTSIO-360-E, -EB, -KB, -RB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, - J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Stud, 1/4-20 x 1/4-28	SA401852 P003	P/N 401852P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401852, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401852 P007	P/N 401852P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401852, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	E185-1, -2, -3, -5, -8, -9, -10, -11 E225-2, -4, -8, -9 IO-240-A, -B IOF-240-B IO-346-A, -B IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P

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Stud. 1/4-20 x 1/4-28	SA401852 P007	P/N 401852P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401852, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 1/4-20 x 1/4-28	SA401852 P012	P/N 401852P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401852, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	E185-1, -2, -3, -5, -8, -9, -10, -11 E225-2, -4, -8, -9 IO-240-A, -B IOF-240-B IO-346-A, -B IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U

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Stud, 1/4-20 x 1/4-28	SA401852 P012	P/N 401852P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401852. <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401860	P/N 401860 P/N 22433	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401860, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-G, -G-CI, -P IO-470-C, -H, -J, -K, -N TSIO-470-B, -C, -D IO-520-B, -BA, -BB, -M, -MB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -N, -NB, -U, -UB, -VB IO-550-A, -B, -P, -R

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Stud. 3/8-16 x 3/8-24	SA401860	P/N 401860 P/N 22433	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401860, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IOF-550-B, -P, -R TSIO-550-K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401860 P003	P/N 401860P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401860, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-G, -G-CI, -P IO-470-C, -H, -J, -K, -N TSIO-470-B, -C, -D IO-520-B, -BA, -BB, -M, -MB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -N, -NB, -U, -UB, -VB IO-550-A, -B, -P, -R IOF-550-B, -P, -R TSIO-550-K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401860 P007	P/N 401860P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401860, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-G, -G-CI, -P IO-470-C, -H, -J, -K, -N TSIO-470-B, -C, -D IO-520-B, -BA, -BB, -M, -MB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -N, -NB, -U, -UB, -VB IO-550-A, -B, -P, -R IOF-550-B, -P, -R TSIO-550-K, -N

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Stud, 3/8-16 x 3/8-24	SA401860 P007	P/N 401860P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401860, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401860 P012	P/N 401860P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401860, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-G, -G-CI, -P IO-470-C, -H, -J, -K, -N TSIO-470-B, -C, -D IO-520-B, -BA, -BB, -M, -MB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -N, -NB, -U, -UB, -VB IO-550-A, -B, -P, -R IOF-550-B, -P, -R TSIO-550-K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401861	P/N 401861 P/N 21486	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401861, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -M, -M-CI, -N IO-470-D, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D

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Stud, 3/8-16 x 3/8-24	SA401861	P/N 401861 P/N 21486	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401861, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-BE, -L, -LB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401861 P003	P/N 401861P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401861, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -M, -M-CI, -N IO-470-D, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D TSIO-520-BE, -L, -LB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401861 P007	P/N 401861P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401861, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB

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Stud, 3/8-16 x 3/8-24	SA401861 P007	P/N 401861P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401861, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -M, -M-CI, -N IO-470-D, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D TSIO-520-BE, -L, -LB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401861 P012	P/N 401861P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401861, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-360-A, -AB, -AF, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -M, -M-CI, -N IO-470-D, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D TSIO-520-BE, -L, -LB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N TSIO-550-A, -B, -C, -E, -G

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SUPPLEMENT NO. 197
REVISION NO. 1
DATE: February 7, 2017

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Stud. 3/8-16 x 3/8-24	SA401861 P012	P/N 401861P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401861, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIOF-550-D, -J TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401873	P/N 401873	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401873, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-M, -MB, -P LIO-520-P TSIO-520-AE, -B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB LTSIO-520-AE IO-550-A TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401873 P003	P/N 401873P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401873, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-M, -MB, -P LIO-520-P TSIO-520-AE, -B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB LTSIO-520-AE IO-550-A TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 3/8-16 x 3/8-24	SA401873 P007	P/N 401873P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401873, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-M, -MB, -P LIO-520-P TSIO-520-AE, -B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Superior Air Parts, Inc.
621 S. Royal Lane, Suite # 100
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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
Stud. 3/8-16 x 3/8-24	SA401873 P007	P/N 401873P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401873. <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTSIO-520-AE IO-550-A TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 3/8-16 x 3/8-24	SA401873 P012	P/N 401873P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401873, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-M, -MB, -P LIO-520-P TSIO-520-AE, -B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB LTSIO-520-AE IO-550-A TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 3/8-16 x 3/8-24	SA401874	P/N 401874 P/N 21075	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401874, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8FJ, -8J, -9, -9J C75-8, -8F, -8FH, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FJ, -12J, -15, -15F C85-8, -8F, -8FJ, -8J, -12, -12F, -12FH, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Stud. 3/8-16 x 3/8-24	SA401874 P003	P/N 401874P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401874, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8FJ, -8J, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA401874 P007	P/N 401874P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401874, <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8FJ, -8J, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Superior Air Parts, Inc.
621 S. Royal Lane, Suite # 100
Coppell, TX 75019-3805

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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
Stud, 3/8-16 x 3/8-24	SA401874 P012	P/N 401874P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401874, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8FJ, -8J, -9, -9J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA401927	P/N 401927	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401927, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N TSIO-550-B, -C, -E TSIOF-550-P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA401927 P003	P/N 401927P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401927, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N

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Stud, 3/8-16 x 3/8-24	SA401927 P003	P/N 401927P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401927, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-550-B, -C, -E TSIOF-550-P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA401927 P007	P/N 401927P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401927, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N TSIO-550-B, -C, -E TSIOF-550-P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA401927 P012	P/N 401927P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401927, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N TSIO-550-B, -C, -E TSIOF-550-P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA401928	P/N 401928	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401928, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Stud, 3/8-16 x 3/8-24	SA401928 P003	P/N 401928P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401928, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA401928 P007	P/N 401928P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401928, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA401928 P012	P/N 401928P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401928, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 5/16-18 x 5/16-24	SA401932	P/N 401932 P/N 21067	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401932, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G TSIOL-550-A
Stud, 5/16-18 x 5/16-24	SA401932 P003	P/N 401932P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401932, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G TSIOL-550-A

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Stud. 5/16-18 x 5/16-24	SA401932 P007	P/N 401932P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401932. <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G TSIOL-550-A
Stud. 5/16-18 x 5/16-24	SA401932 P012	P/N 401932P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401932, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G TSIOL-550-A
Stud. 1/4-20 x 1/4-28	SA401936	P/N 401936	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401936, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 1/4-20 x 1/4-28	SA401936 P003	P/N 401936P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401936, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB

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Stud, 1/4-20 x 1/4-28	SA401936 P003	P/N 401936P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401936, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401936 P007	P/N 401936P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401936, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401936 P012	P/N 401936P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401936, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401944	P/N 401944	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401944, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-360-AF, -ES TSIO-360-E, -EB, -F, -FB, -G, -GB, -KB, -LB, -MB, -NB, -PB, -RB, -SB

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Stud, 3/8-16 x 3/8-24	SA401944	P/N 401944	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401944, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTSIO-360-E, -EB, -KB, -RB IO-520-C, -CB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-C IOF-550-C
Stud, 3/8-16 x 3/8-24	SA401944 P003	P/N 401944P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401944, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-360-AF, -ES TSIO-360-E, -EB, -F, -FB, -G, -GB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB IO-520-C, -CB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-C IOF-550-C
Stud, 3/8-16 x 3/8-24	SA401944 P007	P/N 401944P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401944, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-360-AF, -ES TSIO-360-E, -EB, -F, -FB, -G, -GB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB IO-520-C, -CB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-C IOF-550-C

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Stud. 3/8-16 x 3/8-24	SA401944 P012	P/N 401944P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401944, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-360-AF, -ES TSIO-360-E, -EB, -F, -FB, -G, -GB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB IO-520-C, -CB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-C IOF-550-C
Stud, 5/16 x 4-7/8 Long	SA401950	P/N 401950 P/N 7973964	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401950, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -G, -G-CI, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO IO-520-A, -D, -E, -F, -J, -K, -L, -P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -P, -R, -T LTSIO-520-AE GTSIO-520-C, -D, -H, -L, -M, -N IO-550-D, -E, -F, -G, -L, -N, -P, -R IOF-550-D, -E, -F, -L, -N, -P, -R
Stud, 5/16 x 4-7/8 Long	SA401950 P003	P/N 401950P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401950, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -G, -G-CI, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO IO-520-A, -D, -E, -F, -J, -K, -L, -P

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Stud, 5/16 x 4-7/8 Long	SA401950 P003	P/N 401950P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401950, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -P, -R, -T LTSIO-520-AE GTSIO-520-C, -D, -H, -L, -M, -N IO-550-D, -E, -F, -G, -L, -N, -P, -R IOF-550-D, -E, -F, -L, -N, -P, -R
Stud, 5/16 x 4-7/8 Long	SA401950 P007	P/N 401950P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401950, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -G, -G-CI, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO IO-520-A, -D, -E, -F, -J, -K, -L, -P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -P, -R, -T LTSIO-520-AE GTSIO-520-C, -D, -H, -L, -M, -N IO-550-D, -E, -F, -G, -L, -N, -P, -R IOF-550-D, -E, -F, -L, -N, -P, -R
Stud, 5/16 x 4-7/8 Long	SA401950 P012	P/N 401950P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401950, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -G, -G-CI, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO IO-520-A, -D, -E, -F, -J, -K, -L, -P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -P, -R, -T LTSIO-520-AE

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Stud. 5/16 x 4-7/8 Long	SA401950 P012	P/N 401950P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401950, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -H, -L, -M, -N IO-550-D, -E, -F, -G, -L, -N, -P, -R IOF-550-D, -E, -F, -L, -N, -P, -R
Stud. 5/16 x 4-9/32 Long	SA401952	P/N 401952 P/N 532517	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401952, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 5/16 x 4-9/32 Long	SA401952 P003	P/N 401952P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401952, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 5/16 x 4-9/32 Long	SA401952 P007	P/N 401952P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401952, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C

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Stud, 5/16 x 4-9/32 Long	SA401952 P007	P/N 401952P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401952, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 5/16 x 4-9/32 Long	SA401952 P012	P/N 401952P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401952, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401962	P/N 401962 P/N 21060	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401962, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C

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Stud. 1/4-20 x 1/4-28	SA401962 P003	P/N 401962P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401962, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 1/4-20 x 1/4-28	SA401962 P007	P/N 401962P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401962, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 1/4-20 x 1/4-28	SA401962 P012	P/N 401962P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401962, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -C, -G, -N, -P, -R

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Stud. 1/4-20 x 1/4-28	SA401962 P012	P/N 401962P012	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401962, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IOF-550-B, -C, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 1/4-20 x 1/4-28	SA401963	P/N 401963 P/N 8365380	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401963, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-200-A, -B, -C, -D, -X C-125-1, -2 C-145-2, -2H, -2HP O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -D, -DB, -E, -ES, -H, -HB, -J, -JB, -K, -KB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB TSIO-520-A, -AF, -B, -BB, -BE, -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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Stud, 1/4-20 x 1/4-28	SA401963	P/N 401963 P/N 8365380	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401963, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401963 P003	P/N 401963P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401963, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, - 12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-200-A, -B, -C, -D, -X C-125-1, -2 C-145-2, -2H, -2HP O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -D, -DB, -E, -ES, -H, -HB, -J, -JB, -K, -KB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, - J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D

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Stud, 1/4-20 x 1/4-28	SA401963 P003	P/N 401963P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401963. <u>Rev:</u> A, <u>Date:</u> 5/24/16, 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, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401963 P007	P/N 401963P007	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401963. <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-200-A, -B, -C, -D, -X C-125-1, -2 C-145-2, -2H, -2HP O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F IO-360-A, -AB, -AF, -B, -D, -DB, -E, -ES, -H, -HB, -J, -JB, -K, -KB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U

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Coppell, TX 75019-3805

PMA NO. PQ0060SW
SUPPLEMENT NO. 197
REVISION NO. 1
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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
Stud, 1/4-20 x 1/4-28	SA401963 P007	P/N 401963P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401963, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB TSIO-520-A, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401963 P012	P/N 401963P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401963, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, - 12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-200-A, -B, -C, -D, -X C-125-1, -2 C-145-2, -2H, -2HP O-300-A, -B, -C, -D, -E IO-346-A, -B GO-300-A, -B, -C, -D, -E, -F

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Stud, 1/4-20 x 1/4-28	SA401963 P012	P/N 401963P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401963. <u>Rev:</u> A. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-360-A, -AB, -AF, -B, -D, -DB, -E, -ES, -H, -HB, -J, -JB, -K, -KB O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB TSIO-520-A, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB, -WB GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401965	P/N 401965 P/N 22006	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401965. <u>Rev:</u> B. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GO-300-D, -E O-470-A, -B, -B-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO TSIO-470-B, -C, -D

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Stud, 3/8-16 x 3/8-24	SA401965	P/N 401965 P/N 22006	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401965. <u>Rev:</u> B. <u>Date:</u> 5/24/16, 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, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-B, -C, -E, -K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA401965 P003	P/N 401965P003	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA401965. <u>Rev:</u> B. <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GO-300-D, -E O-470-A, -B, -B-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C

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Stud. 3/8-16 x 3/8-24	SA401965 P003	P/N 401965P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401965, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-B, -C, -E, -K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud. 3/8-16 x 3/8-24	SA401965 P007	P/N 401965P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401965, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GO-300-D, -E O-470-A, -B, -B-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-B, -C, -E, -K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C

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Stud, 3/8-16 x 3/8-24	SA401965 P012	P/N 401965P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401965, <u>Rev:</u> B, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GO-300-D, -E O-470-A, -B, -B-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -R, -S, -U, -V, -VO TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-B, -C, -E, -K, -N TSIOF-550-K, -P TSIOL-550-A, -B, -C
Stud, 1/4-20 x 1/4-28	SA401968	P/N 401968	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401968, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-D, -DB, -U, -UB
Stud, 1/4-20 x 1/4-28	SA401968 P003	P/N 401968P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401968, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-D, -DB, -U, -UB

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Stud. 1/4-20 x 1/4-28	SA401968 P007	P/N 401968P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401968, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-D, -DB, -U, -UB
Stud. 1/4-20 x 1/4-28	SA401968 P012	P/N 401968P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401968, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-D, -DB, -U, -UB
Stud. 5/16-18 x 5/16-24	SA401975	P/N 401975 P/N 7971282	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401975, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X TSIO-520-B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 5/16-18 x 5/16-24	SA401975 P003	P/N 401975P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401975, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F

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Stud. 5/16-18 x 5/16-24	SA401975 P003	P/N 401975P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401975. <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X TSIO-520-B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 5/16-18 x 5/16-24	SA401975 P007	P/N 401975P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401975, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X TSIO-520-B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud, 5/16-18 x 5/16-24	SA401975 P012	P/N 401975P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401975, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, - 15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X

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Stud. 5/16-18 x 5/16-24	SA401975 P012	P/N 401975P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA401975, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-B, -BB, -BE, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -VB, -WB TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-A, -B, -C
Stud. 5/16-18 x 5/16-24	SA402034	P/N 402034 P/N 8713894	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402034, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -N, -NB, -U, -UB, -VB IO-550-A, -B, -G, -N, -P, -R IOF-550-B, -N, -P, -R TSIO-550-G, -K, -N TSIOL-550-A, -B, -C
Stud. 5/16-18 x 5/16-24	SA402034 P003	P/N 402034P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402034, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -N, -NB, -U, -UB, -VB IO-550-A, -B, -G, -N, -P, -R IOF-550-B, -N, -P, -R TSIO-550-G, -K, -N TSIOL-550-A, -B, -C
Stud. 5/16-18 x 5/16-24	SA402034 P007	P/N 402034P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402034, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -N, -NB, -U, -UB, -VB

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Stud, 5/16-18 x 5/16-24	SA402034 P007	P/N 402034P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402034, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-550-A, -B, -G, -N, -P, -R IOF-550-B, -N, -P, -R TSIO-550-G, -K, -N TSIOL-550-A, -B, -C
Stud, 5/16-18 x 5/16-24	SA402034 P012	P/N 402034P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402034, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -BE, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -N, -NB, -U, -UB, -VB IO-550-A, -B, -G, -N, -P, -R IOF-550-B, -N, -P, -R TSIO-550-G, -K, -N TSIOL-550-A, -B, -C
Stud, 3/8-16 x 3/8-24	SA402060	P/N 402060 P/N 532514	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402060, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -R LTIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402060 P003	P/N 402060P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402060, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -R LTIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402060 P007	P/N 402060P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402060, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -R

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Stud, 3/8-16 x 3/8-24	SA402060 P007	P/N 402060P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402060, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402060 P012	P/N 402060P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402060, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-P LIO-520-P TSIO-520-A, -AE, -C, -G, -H, -M, -R LTIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402063	P/N 402063 P/N 537697	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402063, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402063 P003	P/N 402063P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402063, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402063 P007	P/N 402063P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402063, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 3/8-16 x 3/8-24	SA402063 P012	P/N 402063P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402063, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Stud. 3/8-16 x 3/8-24	SA402127	P/N 402127 P/N 20158	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-300-D, -E IO-346-A, -B IO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R

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Stud, 3/8-16 x 3/8-24	SA402127	P/N 402127 P/N 20158	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J, -P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA402127 P003	P/N 402127P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-300-D, -E IO-346-A, -B IO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB

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Stud, 3/8-16 x 3/8-24	SA402127 P003	P/N 402127P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J, -P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA402127 P007	P/N 402127P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, - 12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-300-D, -E IO-346-A, -B IO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB O-470-B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A

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Stud, 3/8-16 x 3/8-24	SA402127 P007	P/N 402127P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, 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, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J, -P TSIOL-550-A
Stud, 3/8-16 x 3/8-24	SA402127 P012	P/N 402127P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, - 12J, -14, -14F, -14FJ, -14J A-75-3, -6, -6J, -8, -8F, -8J, -8FJ, -9, -9J O-300-D, -E IO-346-A, -B IO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, -KB TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, - HB, -JB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB

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Stud. 3/8-16 x 3/8-24	SA402127 P012	P/N 402127P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402127, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J, -P TSIOL-550-A
Stud. 1/4-20 x 1/4-28	SA402129	P/N 402129	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402129, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D

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Stud, 1/4-20 x 1/4-28	SA402129	P/N 402129	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA402129, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-E TSIO-520-A, -AF, -C, -CE, -G, -H, -M, -P, -R GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA402129 P003	P/N 402129P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402129. <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-E TSIO-520-A, -AF, -C, -CE, -G, -H, -M, -P, -R GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA402129 P007	P/N 402129P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402129. <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-E TSIO-520-A, -AF, -C, -CE, -G, -H, -M, -P, -R GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Stud, 1/4-20 x 1/4-28	SA402129 P012	P/N 402129P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402129, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, - J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-E TSIO-520-A, -AF, -C, -CE, -G, -H, -M, -P, -R GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA402161	P/N 402161	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402161, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA402161 P003	P/N 402161P003	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402161, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA402161 P007	P/N 402161P007	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402161, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Stud, 1/4-20 x 1/4-28	SA402161 P012	P/N 402161P012	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA402161, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N

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Thrubolt, 3/8-24	SA630693 -10.44	P/N 630693-10.44	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA630693, <u>Rev:</u> A, <u>Date:</u> 05/24/16, or later FAA approved revisions.	Continental Motors	O-470-R, -S, -T, -U IO-520-B, -BA, -BB, -C, -CB, -D, -F, -L, -M, -MB, -N, -NB TSIO-520-AF, -B, -BB, -C, -CE, -D, -DB, -E, -EB, -H, -J, -JB, -K, -KB, -M, -N, -NB, -P, -R, -T, -U, -UB, -VB IO-550-A, -G, -L, -N, -P, -R IOF-550-L, -N, -P, -R TSIO-550-K, -N TSIOL-550-A, -B, -C
Thrubolt, 3/8-24	SA630693 -10.60	P/N 630693-10.60	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA630693, <u>Rev:</u> A, <u>Date:</u> 05/24/16, or later FAA approved revisions.	Continental Motors	IO-360-ES TSIO-360-E, -EB, -F, -FB, -G, -GB, -KB, -LB, -MB, -NB, -PB, -RB, -SB LTSIO-360-E, -EB, -KB, -RB
Thrubolt, 3/8-24	SA630693 -11.67	P/N 630693-11.67	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA630693, <u>Rev:</u> A, <u>Date:</u> 05/24/16, or later FAA approved revisions.	Continental Motors	IO-520-BA, -BB TSIO-520-AE, -BE, -L, -LB, -WB LTSIO-520-AE IO-550-B, -G, -P, -R TSIO-550-A, -B, -C, -E, -G TSIOF-550-D, -J, -K, -P
Thrubolt, 3/8-24	SA630693 -12.14	P/N 630693-12.14	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA630693, <u>Rev:</u> A, <u>Date:</u> 05/24/16, or later FAA approved revisions.	Continental Motors	IO-520-C, -CB IO-550-C IOF-550-C
Thrubolt, 3/8-24	SA630693 -12.25	P/N 630693-12.25	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA630693, <u>Rev:</u> A, <u>Date:</u> 05/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B

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Superior Air Parts, Inc.
621 S. Royal Lane, Suite # 100
Coppell, TX 75019-3805

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SUPPLEMENT NO. 197
REVISION NO. 1
DATE: February 7, 2017

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Thrubolt, 7/16-20	SA630943 -10.50	P/N 630943-10.50 P/N 538944-10.50 P/N 627275	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA630943. <u>Rev:</u> A, <u>Date:</u> 11/11/15, or later FAA approved revisions.	Continental Motors	A-65-1, -3, -6, -6J, -7, -8, -8F, -8FJ, -8J, -9, -9F, -9FJ, -9J, -12, -12F, -12FJ, -12J, -14, -14F, -14FJ, -14J C75-8, -8F, -8FH, -8FHJ, -8FJ, -8J, -12, -12B, -12BF, -12BFH, -12F, -12FH, -12FHJ, -12FJ, -12J, -15, -15F C85-8, -8F, -8FHJ, -8FJ, -8J, -12, -12F, -12FH, -12FHJ, -12FJ, -12J, -14F, -15, -15F C90-8F, -8FJ, -12F, -12FH, -12FJ, -12FP, -14F, -14FH, -14FJ, -16F O-200-A, -B, -C, -D, -X O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO
Thrubolt, 7/16-20	SA630943 -10.50	P/N 630943-10.50 P/N 538944-10.50 P/N 627275	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA630943. <u>Rev:</u> A, <u>Date:</u> 11/11/15, or later FAA approved revisions.	Continental Motors	LIO-470-A TSIO-470-B, -C, -D IO-520-A, -D, -E, -F, -J, -K, -L, -P LIO-520-P TSIO-520-A, -AE, -AF, -C, -CE, -G, -H, -M, -R, -T LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-D, -E, -F, -L IOF-550-D, -E, -F, -L

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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
Thrubolt, 7/16-20	SA630943 -11.34	P/N 630943-11.34	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA630943, <u>Rev:</u> A, <u>Date:</u> 11/11/15, or later FAA approved revisions.	Continental Motors	IO-240-A, -B IOF-240-B GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Thrubolt, 1/2-20	SA641931 -5.50	P/N 641931-5.50 P/N 641930-5.50 P/N 539050-5.50	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA641931, <u>Rev:</u> J, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Thrubolt, 1/2-20	SA641931 -6.75	P/N 641931-6.75 P/N 641930-6.75 P/N 539050-6.75	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA641931, <u>Rev:</u> J, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N
Thrubolt, 1/2-20	SA641931 -9.81	P/N 641931-9.81 P/N 641930-9.81 P/N 539050-9.81	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA641931, <u>Rev:</u> J, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -D, -E, -F, -J, -K, -L, -P LIO-520-P TSIO-520-AE, -C, -G, -H, -M, -R LTSIO-520-AE TSIO-520-AE, -C, -G, -H, -M, -R LTSIO-520-AE IO-550-D, -E, -F, -G, -L IOF-550-D, -E, -F, -L

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PMA NO. ____ PQ0060SW
SUPPLEMENT NO. ____ 197
REVISION NO. ____ 1
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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
Thrubolt, 1/2-20 x 10.75 Long	SA641931 -10.75	P/N 641931-10.75 P/N 641930-10.75 P/N 634504-10.75 P/N 539050-10.75	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA641931, <u>Rev:</u> J, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P
Thrubolt, 1/2-20 x 10.94 Long	SA641931 -10.94	P/N 641931-10.94 P/N 641930-10.94 P/N 539050-10.94	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA641931, <u>Rev:</u> J, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIOL-550-A, -C

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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
Thrubolt, 1/2-20 x 10.95 Long	SA641931 -10.95	P/N 641931-10.95 P/N 641930-10.95 P/N 539050-10.95	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA641931, <u>Rev:</u> J, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-AF, -CE, -P, -T
Stud, Reduced Shank, .437-14 x .437-20	SA646140-1	P/N 646140-1 P/N 639418-3 P/N 639418-1 P/N 631867	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA646140, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, - J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, - P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB, -P LIO-520-P TSIO-520-A, -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, -U, -UB, -VB, -WB LTSIO-520-AE GTSIO-520-C, -D, -E, -F, -H, -K, -L, -M, -N IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R IOF-550-B, -C, -D, -E, -F, -L, -N, -P, -R TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P

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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
Stud, Reduced Shank, .437-14 x .437-20	SA646140-2	P/N 646140-2 P/N 639418-4 P/N 639418-2 P/N 538404	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA646140, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A. -B O-470-A. -B. -B-CI. -E. -G. -G-CI. -H. - J. -K. -K-CI. -L. -L-CI. -M. -M-CI. -N. - P. -R. -S. -T. -U IO-470-A. -C. -D. -E. -F. -G. -H. -J. -K. -L. -LO. -M. -N. -P. -R. -S. -T. -U. -V. -VO LIO-470-A TSIO-470-B. -C. -D IO-520-A. -B. -BA. -BB. -C. -CB. -D. -E. -F. -J. -K. -L. -M. -MB. -N. -NB. -P LIO-520-P TSIO-520-A. -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. -U. -UB. -VB. -WB LTSIO-520-AE GTSIO-520-C. -D. -E. -F. -H. -K. -L. -M. -N IO-550-A. -B. -C. -D. -E. -F. -G. -L. -N. -P. -R IOF-550-B. -C. -D. -E. -F. -L. -N. -P. -R TSIO-550-A. -B. -C. -E. -G. -K. -N TSIOF-550-D. -J. -K. -P
Bolt, Crankcase, Thru	SA652887 -5.31	P/N 652887-5.31 P/N 630943-5.31 P/N 538944-5.31	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A. -B IO-520-B. -BA. -BB. -C. -CB. -M. -MB. -N. -NB

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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
Bolt, Crankcase, Thru	SA652887 -5.31	P/N 652887-5.31 P/N 630943-5.31 P/N 538944-5.31	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-B, -BB, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -G, -N, -P, -R IOF-550-B, -N, -P, -R TSIOL-550-A
Bolt, Crankcase, Thru	SA652887 -6.19	P/N 652887-6.19 P/N 630943-6.19 P/N 538944-6.19	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-346-A, -B IO-520-B, -BA, -BB, -C, -CB, -M, -MB, -N, -NB TSIO-520-B, -BB, -D, -DB, -E, -EB, -J, -JB, -K, -KB, -L, -LB, -N, -NB, -U, -UB, -VB, -WB IO-550-A, -B, -G, -N, -P, -R IOF-550-B, -N, -P, -R TSIOL-550-A
Bolt, Crankcase, Thru	SA652887 -6.74	P/N 652887-6.74 P/N 538944-6.74 P/N 538944-6.50	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	IO-520-C, -CB TSIO-520-BE IO-550-C IOF-550-C TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-C
Bolt, Crankcase, Thru	SA652887 -7.58	P/N 652887-7.58 P/N 630943-7.58 P/N 538944-7.58	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-BE TSIO-550-A, -B, -C, -E, -G, -K, -N TSIOF-550-D, -J, -K, -P TSIOL-550-C

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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
Bolt, Crankcase, Thru	SA652887-8.88	P/N 652887-8.88 P/N 630943-8.88 P/N 538944-8.88	Test and Computations per 14 CFR §21.303. <u>DWG No:</u> SA652887. <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	O-470-A, -B, -B-CI, -E, -G, -G-CI, -H, -J, -K, -K-CI, -L, -L-CI, -M, -M-CI, -N, -P, -R, -S, -T, -U IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO LIO-470-A TSIO-470-B, -C, -D IO-520-A, -D, -E, -F, -J, -K, -L, -P LIO-520-P TSIO-520-AE, -C, -G, -H, -M, -P, -R LTSIO-520-AE IO-550-D, -E, -F, -G, -L IOF-550-D, -E, -F, -L
Bolt, Crankcase, Thru	SA652887-10.00	P/N 652887-10.00 P/N 630943-10.00 P/N 538944-10.00	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-AF, -CE, -T
Bolt, Crankcase, Thru	SA652887-11.35	P/N 652887-11.35 P/N 538944-11.35	Test and Computations per 14 CFR §21.303, <u>DWG No:</u> SA652887, <u>Rev:</u> A, <u>Date:</u> 5/24/16, or later FAA approved revisions.	Continental Motors	TSIO-520-AF, -CE

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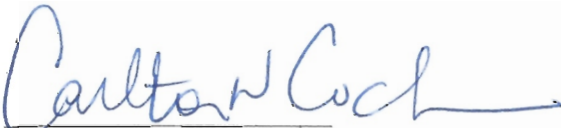
Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
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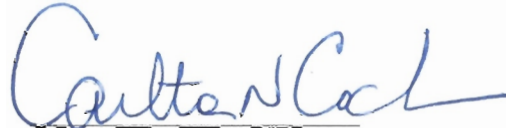
GENERAL NOTES:

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.



Jim Grigg
Acting Manager, Fort Worth Aircraft
Certification Office



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