



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Aviation Safety

2200 South 216th Street  
Des Moines, WA 98198

March 5, 2020

Precision Airmotive, LLC  
Attn: Mr. Jeff Sitter  
17716 48<sup>th</sup> Drive NE  
Arlington, WA 98223

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Dear Mr. Sitter:

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 Federal Aviation Administration (FAA) has found that the design data, based on Test and Computations with your letter dated November 11, 2019 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 Precision Airmotive, LLC has established the quality system required by § 21.307 at 17716 48<sup>th</sup> Drive NE, Arlington, WA 98223. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed Supplement No. 3 Rev 1.

You are reminded that the provisions of 14 CFR, parts 21 and 45, apply to the enclosed PMA Listing-Supplement No. 3 Rev 1. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

James Hampton  
Aviation Safety  
Aviation Safety Inspector, Seattle  
MIDO Section

Enclosure



U.S. Department  
of Transportation  
Federal Aviation  
Administration

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Precision Airmotive, LLC.  
17716 - 48<sup>th</sup> Drive NE  
Arlington, WA 98223

**PMA NO. PQ0111NM**  
**SUPPLEMENT NO. 3 REV 1**  
**DATE: March 5, 2020**

<u>ARTICLE NAME</u>	<u>ARTICLE NUMBER</u>	<u>APPROVED REPLACEMENT FOR ARTICLE NUMBER</u>	<u>APPROVAL BASIS AND APPROVED DESIGN DATA</u>	<u>MAKE/TCH ELIGIBILITY</u>	<u>MODEL/SERIES ELIGIBILITY</u>
Seal	CF628178	628178	Test and Computation Per 14 CFR § 21.303, <u>Dwg. No.</u> CF628178 Rev: B Date: 4/5/2016 or later FAA approved revisions	Continental	IO-470-C, -D, -E, -F, -H, -J, -K, -L, -M, -N, -S, -U, -V  IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB  IO-550-A, -B, -C, -D, -N  LTSIO-360-E, -EB, -KB  LTSIO-520-AE  TSIO-360-A, -AB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -H, -HB, -JB, -KB, -LB, -MB, -RB, -SB
					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
					GTSIO-520-C, -D, -H, -L, -M
					TSIOL-550-A, -B, -C
				Continental Motors Inc.	TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E

<u>ARTICLE NAME</u>	<u>ARTICLE NUMBER</u>	<u>APPROVED REPLACEMENT FOR ARTICLE NUMBER</u>	<u>APPROVAL BASIS AND APPROVED DESIGN DATA</u>	<u>MAKE/TCH ELIGIBILITY</u>	<u>MODEL/SERIES ELIGIBILITY</u>
Seal	CF631330	631330	Test and Computation Per 14 CFR § 21.303, <u>Dwg. No.</u> CF631330 <u>Rev:</u> B <u>Date:</u> 4/5/2016 or later FAA approved revisions	Continental	IO-240-A, -B  IO-360-A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB  IO-470-C, -D, -E, -F, -H, -J, -K, -L, -M, -N, -S, -U  IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB  IO-550-B, -C, -D, -E, -G, -I, -N  LTSIO-360-E, -EB, -KB  LTSIO-520-AE  TSIO-360-A, -AB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -H, -HB, -JB, -KB, -LB, -SB  TSIO-520-AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -M, -N, -NB, -P, -R, -T, -UB, -VB  GTSIO-520-C, -D, -F, -H, -L, -M, -N  TSIOL-550-A, -B, -C
				Continental Motors Inc.	TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E

<u>ARTICLE NAME</u>	<u>ARTICLE NUMBER</u>	<u>APPROVED REPLACEMENT FOR ARTICLE NUMBER</u>	<u>APPROVAL BASIS AND APPROVED DESIGN DATA</u>	<u>MAKE/TCH ELIGIBILITY</u>	<u>MODEL/SERIES ELIGIBILITY</u>
Belleville Washer	CF646448-1	646448-1	Test and Computation Per 14 CFR § 21.303, <u>Dwg. No.</u> CF646448-1 <u>Rev:</u> 2 <u>Date:</u> 4/6/2016 or later FAA approved revisions	Continental	IO-360-C, -CB, -D, -DB, -G, -GB, -J, -K  IO-470-C, -D, -E, -F, -H, -J, -K, -L, -M, -N, -S, -U, -V  IO-520-A, -B, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB  IO-550-A, -B, -C, -D, -N  LTSIO-360-E, -EB, -KB  LTSIO-520-AE  TSIO-360-A, -AB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -H, -HB, -JB, -KB, -LB, -MB, -SB  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  TSIOL-550-A, -B, -C  GTSIO-520-C, -D, -H, -L, -M  IO-550-A, -B, -C
				Continental Motors Inc.	TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E

<u>ARTICLE NAME</u>	<u>ARTICLE NUMBER</u>	<u>APPROVED REPLACEMENT FOR ARTICLE NUMBER</u>	<u>APPROVAL BASIS AND APPROVED DESIGN DATA</u>	<u>MAKE/TCH ELIGIBILITY</u>	<u>MODEL/SERIES ELIGIBILITY</u>
Seal	CF649198	649198	Test and Computation Per 14 CFR § 21.303, <u>Dwg. No.</u> CF649198 <u>Rev:</u> B <u>Date:</u> 4/6/2016 or later FAA approved revisions	Continental	IO-470-C, -D, -E, -F, -H, -J, -K, -L, -M, -N, -S, -U, -V  IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB  IO-550-A, -B, -C, -D, -E, -N  LTSIO-360-E, -EB, -KB  LTSIO-520-AE  TSIO-360-A, -AB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -H, -HB, -JB, -KB, -LB, -MB, -SB  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  GTSIO-520-C, -D, -H, -L, -M, -N  TSIOL-550-A, -B, -C  TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E
				Continental Motors Inc.	

<u>ARTICLE NAME</u>	<u>ARTICLE NUMBER</u>	<u>APPROVED REPLACEMENT FOR ARTICLE NUMBER</u>	<u>APPROVAL BASIS AND APPROVED DESIGN DATA</u>	<u>MAKE/TCH ELIGIBILITY</u>	<u>MODEL/SERIES ELIGIBILITY</u>
Valve Assy	CFRB15985	RB15985	Identicality per 14 CFR § 21.303 Dwg No. CFRB15985 Rev. 2 Dated 08/27/1998, or later FAA – approved revisions	Lycoming Engines	IO-320-C1A, -F1A LIO-320-C1A IO-360-A1B, -B1D TIO-360-A1B, TIO-360-C1A6D  HIO-360-E1AD, -E1BD, -F1AD
					IO-540, -A1A5, -G1B5,-G1C5, -G1D5, -J4A5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1F5, -L1A5, -M2A5D, -P1A5, -R1A5
					TIO-540-AA1D, -AB1AD, -AF1A, -AF1B, -A2B, -C1A, -G1A, -H1A
				Textron Lycoming	IO-720-A1A, -A1B

-----END OF LISTING-----

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.

/Signature on File/

Ross Landes, Manager  
Seattle Aircraft Certification Office



James Hampton  
Aviation Safety  
Aviation Safety Inspector, Seattle  
MIDO Section