



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

AVIATION SAFETY
Aircraft Certification Service
System Oversight Division

San Antonio MIDO Section, AIR-883
10100 Reunion Place, Suite 650
San Antonio, Texas 78216-4168
Phone: (210) 308-3360

April 24, 2019

Ms. Hope Valentine
PMA Accountable Manager
RAM Aircraft, LP
7505 Karl May Drive
Waco, Texas 76708

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Dear Ms. Valentine:

In accordance with the provisions of Title 14 Code of Federal Regulations (14 CFR), part 21, *Certification Procedures for Products and Articles*, subpart K, the FAA has found that the design data, based on test & computation submitted by RAM Aircraft, LP, 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 RAM Aircraft, LP, has established the quality system required by section 21.307 at Waco, Texas accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed supplement number 145.

You are reminded that the provisions of 14 CFR parts 21 and 45, noted in our PMA letter of approval dated September 8, 2011, also apply to the enclosed PMA Listing - supplement number 145. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

Jose G Arizpe
Aviation Safety Inspector

Enclosure

cc: AIR-6D1



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RAM Aircraft, LP
7505 Karl May Dr.
Waco, TX 76708

PMA NO. PQ0399SW
Supplement No. 145
Date 4/24/2019

Article Name	Article Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model /Series Eligibility
Studded Assembly, Crankcase	2922-1	656644-1	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520- BB, EB, JB, KB, NB, VB.
Studded Assembly, Crankcase	2922-7	656644-7	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520-BE; TSIO-550-A, B, C, E, G TSIOF-550-D, J
Studded Assembly, Crankcase	2922-8	656644-8	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520-JB, KB, NB
Studded Assembly, Crankcase	2922-10	656645-2	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-520-CB

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Studded Assembly, Crankcase	2922-14	656619-3	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-B
Studded Assembly, Crankcase	2922-15	656619-4	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-A
Studded Assembly, Crankcase	2922-16	656619-5	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-C
Studded Assembly, Crankcase	2922-17	656619-6	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-B
Studded Assembly, Crankcase	2922-18	656619-7	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N

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Studded Assembly, Crankcase	2922-19	656619-8	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-G, N, P IOF-550-N, P
Studded Assembly, Crankcase	2922-20	656619-9	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N IOF-550-N
Studded Assembly, Crankcase	2922-21	656619-28	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-G,N IOF-550-N
Studded Assembly, Crankcase	2922-22	656619-11	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-R IOF-550-R
Studded Assembly, Crankcase	2922-23	656619-14	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-G,N

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Studded Assembly, Crankcase	2922-24	656646-1	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIOL-550-A
Studded Assembly, Crankcase	2922-27	656646-4	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIOL-550-C
Studded Assembly, Crankcase	2922-29	656643-2	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-520-BB IO-550-B
Studded Assembly, Crankcase	2922-30	656643-3	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520-DB
Studded Assembly, Crankcase	2922-33	656643-6	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-520-BB,

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Studded Assembly, Crankcase	2922-34	656643-7	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520-UB
Studded Assembly, Crankcase	2922-35	656643-9	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520-UB
Studded Assembly, Crankcase	2922-36	656619-25	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N IOF-550-N
Studded Assembly, Crankcase	2922-38	656619-1	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-C
STUDED ASSEMBLY, CRANKCASE	2922-39	656619-2	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-B, R

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Studded Assembly, Crankcase	2922-50	656644-16	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-550-C
Studded Assembly, Crankcase	2922-51	656644-12	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-550-C
Studded Assembly, Crankcase	2922-52	656644-15	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-550-E
Studded Assembly, Crankcase	2922-53	656619-16	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N,
Studded Assembly, Crankcase	2922-54	656619-24	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N

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Studded Assembly, Crankcase	2922-55	656619-29	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N
Studded Assembly, Crankcase	2922-56	656619-26	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-550-N
Studded Assembly, Crankcase	2922-57	656643-8	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-520-BB
Studded Assembly, Crankcase	2922-58	656644-11	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-550-C
Studded Assembly, Crankcase	2922-59	656644-4	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-520-LB, WB

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Studded Assembly, Crankcase	2922-60	656644-5	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	IO-520-MB
Studded Assembly, Crankcase	2922-62	656644-14	Test and Computation per 14 CFR § 21.303, Dwg: 2922, Rev: A, dated: 02/08/2019, or later FAA approved revisions.	Continental Motors, Inc.	TSIO-550-K, N TSIOF-550-K

-----End of Listing-----

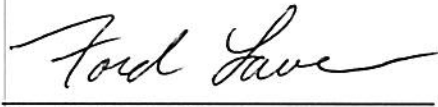
GENERAL NOTES:

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.

FOR 

Jim Grigg
Manager, Fort Worth ACO Branch
Compliance & Airworthiness Division



Ford J. Lauer III
Manager, San Antonio MIDO Section
System Oversight Division