



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

Aviation Safety

6020 28th Avenue South, Room 103
Minneapolis, Minnesota 55450-2700

November 15, 2018

Mr. Abraham Harman
ABI, LLC.
20130 Birchwood Spur Road
Chugiak, Alaska 99567

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Dear Mr. Harman:

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, with your request letter dated 11/15/2018, 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 ABI, LLC has established the quality system required by § 21.307 at 20130 Birchwood Spur Road, Chugiak, Alaska. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement articles listed in the enclosed Supplement No. 4, Revision 1, dated November 13, 2018.

This supplement was revised to add Cessna A185E and A185F models.

You are reminded that the provisions of 14 CFR, parts 21 and 45, noted in our PMA letter of approval dated March 25, 2014, also apply to the enclosed PMA Listing-Supplement No. 4, Revision 1. The enclosed revised supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned. Please return the superseded FAA-PMA Supplement to our office.

Sincerely,

A handwritten signature in blue ink that reads "Timothy L. Bonderer".

Timothy L. Bonderer
Aviation Safety
Manager, MSP/CHI MIDO Section, AIR-891

Enclosure: Supplement No. 4, Revision 1



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ABI LLC
20130 Birchwood Spur Rd
Chugiak, AK 99567

PMA No. PQ4204CE
Supplement No. 04 Revision A
Dated: November 13, 2018

Supersedes PMA Supplement No 4
Dated : August 28, 2014

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make Eligibility:	Model Eligibility:
Wheel & Brake Kit 1.5" Axle, 3 bolt	ABI-199-62	199-62	Test and Computations per 14 CFR §21.303 <u>Master Drawing List No:</u> ABI-199-62-MDL <u>Rev:</u> D <u>Date:</u> 11/19/2013 or later approved additions	Textron Aviation Inc. (Cessna)	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 185, 185A, 185B, 185C, 185D, 185E, 206, A185E, A185F, P206, U206, U206F, U206G, TU206E, TU206F, TU206G
Wheel & Brake Kit 1.5" Axle, 6 bolt	ABI-199-62A	199-62A	Test and Computations per 14 CFR §21.303 <u>Master Drawing List No:</u> ABI-199-62A-MDL <u>Rev:</u> E <u>Date:</u> 07/11/2014 or later approved additions	Textron Aviation Inc. (Cessna)	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 185, 185A, 185B, 185C, 185D, 185E, 206, A185E, A185F, P206, U206, U206F, U206G, TU206E, TU206F, TU206G



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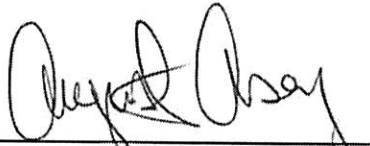
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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make Eligibility:	Model Eligibility:
Wheel & Brake Kit 1.25" Axle. 6 bolt	ABI-199-71	199-71	Test and Computations per 14 CFR §21.303 <u>Master Drawing List No:</u> ABI-199-71-MDL <u>Rev:</u> C <u>Date:</u> 11/06/2013 or later approved additions	FS 2001 Corp. (Piper)	J5C
				FS 2002 Corp. (Piper)	PA-14
				FS 2003 Corp. (Piper)	PA-12
				Piper Aircraft, Inc.	J-3, PA-11, PA-15, PA-16, PA-17, PA-18 "150", PA-18A "150", PA-20


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

NOTE 1: Provide minor design changes in a manner as determined by the ACO. Process major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.

NOTE 2: The FAA approved ICA 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.



August A. Asay
Manager, Anchorage ACO Branch



Timothy L. Bonderer
Manager, Minneapolis MIDO