



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

January 13, 2014

Project No. PQ3732CE

Mr. Dana Yarnell
Quality Manager
McFarlane Aviation, Inc.
696 E. 1700 Road
Baldwin City, KS 66006

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR), Part 21, Certification Procedures for Products and Parts, subpart K, the FAA has found that the design data, based on Test and Computation submitted by McFarlane Aviation, Inc., with your letter dated November 5, 2013, 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 McFarlane Aviation, Inc., has established the quality system required by § 21.307 at 696 E. 1700 Road, Baldwin City, KS 66006. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed **Supplement No.70.**

You are reminded that the provisions of 14 CFR, Parts 21 and 45, noted in our PMA Letter of Approval dated September 3, 1993, also applies to the enclosed PMA Listing-**Supplement No.70.**

The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,


Edward J. Menrhoff
Aviation Safety Inspector
Kansas City, MIDO

Enclosure



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

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

McFarlane Aviation Inc.
696 E 1700 Road
Baldwin City, KS 66006

PMA No: PQ3732CE
Supplement No 70
Date: January 13, 2014

<u>Article Name</u>	<u>Part Number</u>	<u>Approved Replacement For Part No.</u>	<u>Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility</u>	<u>MODEL Eligibility:</u>
Brake Bleeder Screw	MC079-00300	079-00300 A30085 FC6446	Test and Computation per 14 CFR § 21.303. Drawing: 6452, Rev: F, Date: 08/16/2012 or later FAA approved revisions.	Cessna	120 s/n all (When equipped with Cleveland brake 30-63A); 140 s/n 13400 and On (When equipped with Cleveland brake 30-63A); 140A s/n 13400 and On (When equipped with Cleveland brake 30-63A); 170 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172 s/n all (When equipped with Cleveland conversion kit 199-62 or 199- 62A or brake 30-63A); 172A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172C s/n all (When equipped with Cleveland conversion kit 199-62 or 199- 62A or brake 30-63A); 172D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); P172D s/n all (When equipped with Cleveland brake 30-63A); 175 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175B s/n all (When equipped with Cleveland conversion kit 199-62 or 199- 62A or brake 30-63A); 175C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or

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					brake 30-63A); 180 s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180A s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180B s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180C s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180D s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180E s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180F s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 182 s/n all (When equipped with Cleveland brake 30-63A); 182A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182F s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182G s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 190 s/n all (When equipped with Cleveland conversion kit 199-61); 195 (LC-126A,B,C) s/n all (When equipped with Cleveland conversion kit 199-61); 195A s/n all (When equipped with Cleveland conversion kit 199-61); 195B s/n all (When equipped with Cleveland conversion kit 199-61); 210 s/n all (When equipped with Cleveland conversion kit 199-60); 210A s/n all (When equipped with Cleveland conversion kit 199-60); 210B s/n all (When equipped with Cleveland conversion kit 199-60);
Brake	MC081-00100	081-00100	Test and Computation per 14	Cessna	120 s/n all (When equipped with

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Bleeder Seat		37-206 A30030	CFR § 21.303. Drawing: 6452, Rev: F, Date: 08/16/2012 or later FAA approved revisions.		Cleveland brake 30-63A); 140 s/n 13400 and On (When equipped with Cleveland brake 30-63A); 140A s/n 13400 and On (When equipped with Cleveland brake 30-63A); 170 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172P s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A); 172Q s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A); P172D s/n all (When equipped with Cleveland brake 30-63A); 175 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 180 s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake number 30-63A); 180A s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180B s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180C s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180D s/n all

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					(When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180E s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180F s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180J (1973) s/n all (When equipped with Cleveland conversion kit 199-60); 180J (1974-1976) s/n all (When equipped with Cleveland conversion kit 199-62); 180K s/n all (When equipped with with Cleveland conversion kit 199-62); 182 s/n all (When equipped with Cleveland brake 30-63A); 182A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182F s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182G s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182S s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A); A185F (1973) s/n all (When equipped with Cleveland conversion kit 199-60 or 199-62); TU206F (1974-1976) s/n all (When equipped with Cleveland conversion kit 199-62); TU206G s/n all (When equipped with Cleveland conversion kit 199-62); U206G s/n all (When equipped with Cleveland conversion kit 199-62); 210 s/n all (When equipped with Cleveland conversion kit 199-60); 210A s/n all (When equipped with Cleveland conversion kit 199-60); 210B s/n all (When equipped with Cleveland conversion kit 199-60); 210L s/n all (When equipped with Cleveland conversion kit 199-60); 210M s/n all (When equipped with Cleveland conversion kit 199-60); P210N s/n P21000001 thru P21000150 (When

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					equipped with Cleveland conversion kit 199-60A); T210L s/n all (When equipped with Cleveland conversion kit 199-60); T210M s/n all (When equipped with Cleveland conversion kit 199-60);
Brake Bleeder Seat	MC081-00200	081-00200	Test and Computation per 14 CFR § 21.303. Drawing: 6452, Rev: F, Date: 08/16/2012 or later FAA approved revisions..	Cessna	190 s/n all (When equipped with Cleveland conversion kit 199-61); 195 (LC-126A,B,C) s/n all (When equipped with Cleveland conversion kit 199-61); 195A s/n all (When equipped with Cleveland conversion kit 199-61); 195B s/n all (When equipped with Cleveland conversion kit 199-61);
Brake Bleeder Seat	MC081-00500	081-00500	Test and Computation per 14 CFR § 21.303. Drawing: 6452, Rev: F, Date: 08/16/2012 or later FAA approved revisions.	Cessna	P210N s/n P21000001 THRU P21000150 (When equipped with Cleveland conversion kit 199-60A);
Brake Bleeder Screw Cap	MC183-00100	183-00100	Test and Computation per 14 CFR § 21.303. Drawing: 6452, Rev: F, Date: 08/16/2012 or later FAA approved revisions.	Cessna	120 s/n all (When equipped with Cleveland brake 30-63A); 140 s/n 13400 and On (When equipped with Cleveland brake 30-63A); 140A s/n 13400 and On (When equipped with Cleveland brake 30-63A); 170 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); P172D s/n all (When equipped with Cleveland brake 30-63A); 175 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175A s/n all (When equipped with Cleveland conversion kit

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					199-62 or 199-62A or brake 30-63A); 175B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 180 s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake number 30-63A); 180A s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180B s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180C s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180D s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180E s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180F s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 182 s/n all (When equipped with Cleveland brake 30-63A); 182A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182F s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182G s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 190 s/n all (When equipped with Cleveland conversion kit 199-61); 195 (LC-126A,B,C) s/n all (When equipped with Cleveland conversion kit 199-61); 195A s/n all (When equipped with Cleveland conversion kit 199-61); 195B s/n all (When equipped with Cleveland conversion kit 199-61); 210 s/n all (When equipped with Cleveland conversion kit

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					199-60); 210A s/n all (When equipped with Cleveland conversion kit 199-60); 210B s/n all (When equipped with Cleveland conversion kit 199-60);
Brake Bleeder Screw Cap	MC183-00100	183-0100 183-1 A30040	Test and Computation per 14 CFR § 21.303. Drawing: 6452, Rev: F, Date: 08/16/2012 or later FAA approved revisions.	Cessna	120 s/n all (When equipped with Cleveland brake 30-63A); 140 s/n 13400 and On (When equipped with Cleveland brake 30-63A); 140A s/n 13400 and On (When equipped with Cleveland brake 30-63A); 170 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 170B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 172P s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A); 172Q s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A); 175 s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 175C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 180 s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180 s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake number 30-63A); 180A s/n all (When equipped with Cleveland conversion kit 199-60, 199-62,

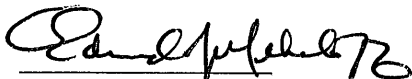
<u>Article Name</u>	<u>Part Number</u>	<u>Approved Replacement For Part No.</u>	<u>Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility</u>	<u>MODEL Eligibility:</u>
					or 199-62A or brake 30-63A); 180B s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180C s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180D s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180E s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180F s/n all (When equipped with Cleveland conversion kit 199-60, 199-62, or 199-62A or brake 30-63A); 180J (1973) s/n all (When equipped with Cleveland conversion kit 199-60); 180J (1974-1976) s/n all (When equipped with Cleveland conversion kit 199-62); 180K s/n all (When equipped with with Cleveland conversion kit 199-62); 182 s/n all (When equipped with Cleveland brake 30-63A); 182A s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182B s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182C s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182D s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182E s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182F s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182G s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A or brake 30-63A); 182S s/n all (When equipped with Cleveland conversion kit 199-62 or 199-62A); 190 s/n all (When equipped with Cleveland conversion kit 199-61); 195 (LC-126A,B,C) s/n all (When equipped with Cleveland conversion kit 199-61); 195A s/n all (When equipped with Cleveland conversion kit 199-61); 195B s/n all (When equipped with Cleveland conversion kit 199-61); 210 s/n all (When equipped with Cleveland conversion kit 199-60); 210A s/n all (When equipped with Cleveland conversion kit 199-60); 210B s/n all (When equipped with

<u>Article Name</u>	<u>Part Number</u>	<u>Approved Replacement For Part No.</u>	<u>Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility</u>	<u>MODEL Eligibility:</u>
					Cleveland conversion kit 199-60); 210L s/n all (When equipped with Cleveland conversion kit 199-60); 210M s/n all (When equipped with Cleveland conversion kit 199-60); A185F (1973) s/n all (When equipped with Cleveland conversion kit 199-60 or 199-62); P172D s/n all (When equipped with Cleveland brake 30-63A); P210N s/n P21000001 thru P21000150 (When equipped with Cleveland conversion kit 199-60A); T210L s/n all (When equipped with Cleveland conversion kit 199-60); T210M s/n all (When equipped with Cleveland conversion kit 199-60); TU206F (1974-1976) s/n all (When equipped with Cleveland conversion kit 199-62); TU206G s/n all (When equipped with Cleveland conversion kit 199-62); U206G s/n all (When equipped with Cleveland conversion kit 199-62);

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

NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle Major design changes to drawings and specifications in the same manner as that for an Original FAA-PMA.
- 2) The FAA approved ICA for the above parts with their designs. These ICA may refer to those of the respective parts from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement parts. Make referral statements or supplemental ICA readily available per 14 CFR 21.50.



for Tilak Nandipati,
Manager, Kansas City,
Manufacturing Inspection District Office

January 13, 2014

Date: _____