



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

Small Airplane Directorate
Kansas City Manufacturing Inspection
District Office
901 Locust Street, Room 403B
Kansas City, MO 64106-2641
Tel: 816-329-4190 Fax: 816-329-4195

March 10, 2015

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

Project No. PQ3732CE

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 December 4, 2014, 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.78.**

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.78.**

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

Sincerely,

Greg Rosenberg
Aviation Safety Inspector
Kansas City, MIDO

Enclosures



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. 78
Date: March 10, 2015

<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>
GREASE FELT	MC154-00300	154-00300, 3021	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150D s/n ALL; 150E s/n ALL; 150F s/n ALL; 150G s/n ALL; 150H s/n ALL; 150J s/n ALL; 150K s/n ALL; 150L s/n ALL; 150M s/n ALL; 152 s/n ALL; 172D s/n ALL; 172E s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n 17260759 thru 17267584; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172R s/n ALL; 172RG s/n ALL; 172S s/n ALL; 177 s/n ALL; 177A s/n ALL; 177B s/n 17701371 thru 17702752; 177RG s/n ALL; A150K s/n ALL; A150L s/n ALL; A150M s/n ALL; A152 s/n ALL; F150F s/n ALL; F150G s/n ALL; F150H s/n ALL; F150J s/n ALL; F150K s/n ALL; F150L s/n ALL; F150M s/n ALL; F152 s/n ALL; F172D s/n ALL; F172E s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n ALL; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; F177RG s/n ALL; FA150K s/n ALL; FA150L s/n ALL; FA150M (with FKA150-2311 and FKA150-2316) s/n ALL; FA152 s/n ALL; FP172 s/n ALL; FR172E s/n ALL; FR172F s/n ALL; FR172G s/n ALL; FR172H s/n ALL; FR172J s/n ALL; FR172K s/n ALL; P172D s/n ALL; R172E (T-41B,C,D) s/n ALL; R172F (T-41D) s/n ALL; R172G (T-41C,D) s/n ALL; R172H (T-41D) s/n ALL; R172K s/n ALL;
GREASE FELT	MC154-00600	154-00600, 154-6, A30047	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150A s/n ALL; 150B s/n ALL; 150C s/n ALL; 150D s/n ALL; 150E s/n ALL; 150F s/n ALL; 150G s/n ALL; 150H s/n ALL; 150J s/n ALL; 150K s/n ALL; 150L s/n ALL; 150M s/n ALL; 152 s/n ALL; 172 s/n 46421 thru 46754; 172B s/n ALL; 172C s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n ALL; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172R s/n ALL; 172RG s/n ALL; 172S s/n ALL; 175 s/n 55876 thru 56238; 175B s/n ALL; 175C s/n ALL; 177 s/n ALL; 177A s/n ALL; 177B s/n ALL; 177RG s/n ALL; 172A s/n ALL; 175A s/n ALL; A150K s/n ALL; A150L s/n ALL; A150M s/n ALL; A152 s/n ALL; F150F s/n ALL; F150G s/n ALL; F150H s/n ALL; F150J s/n ALL; F150K s/n ALL; F150L s/n ALL; F150M s/n ALL; F152 s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n ALL; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; F177RG s/n ALL; FA150K s/n ALL; FA150L s/n ALL; FA150M (with FKA150-2311 and FKA150-2316) s/n ALL; FA152 s/n ALL; FR172E s/n ALL; FR172F s/n ALL; FR172G s/n ALL; FR172H s/n ALL; FR172J s/n ALL; FR172K s/n ALL; R172K s/n ALL;

<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>
GREASE FELT	MC154-00900	154-00900, 154-9	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150C s/n ALL; 172D s/n ALL; F172D s/n ALL; FP172 s/n ALL; P172D s/n ALL; 172G s/n 17253393 thru 17254572
GREASE FELT	MC154-01300	154-01300, 154-13	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150D s/n ALL; 150E s/n ALL; 150F s/n ALL; 150G s/n ALL; 150H s/n ALL; 150J s/n ALL; 150K s/n ALL; 150L s/n ALL; 150M s/n ALL; 152 s/n ALL; 172D s/n ALL; 172E s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n ALL; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172R s/n ALL; 172RG s/n ALL; 172S s/n ALL; 177 s/n ALL; 177A s/n ALL; 177B s/n ALL; 177RG s/n ALL; A150K s/n ALL; A150L s/n ALL; A150M s/n ALL; A152 s/n ALL; F150F s/n ALL; F150G s/n ALL; F150H s/n ALL; F150J s/n ALL; F150K s/n ALL; F150L s/n ALL; F150M s/n ALL; F152 s/n ALL; F172D s/n ALL; F172E s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n ALL; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; F177RG s/n ALL; FA150K s/n ALL; FA150L s/n ALL; FA150M (with FKA150-2311 and FKA150-2316) s/n ALL; FA152 s/n ALL; FP172 s/n ALL; FR172E s/n ALL; FR172F s/n ALL; FR172G s/n ALL; FR172H s/n ALL; FR172J s/n ALL; FR172K s/n ALL; P172D s/n ALL; R172E (T-41B,C,D) s/n ALL; R172F (T-41D) s/n ALL; R172G (T-41C,D) s/n ALL; R172H (T-41D) s/n ALL; R172K s/n ALL;
GREASE FELT	MC154-30010	154-30010, A30010	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150L s/n 15072004 thru 15074891; 150M s/n ALL; 152 s/n ALL; 172D s/n ALL; 172E s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n 17260835 thru 17267584; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172RG s/n ALL; 177 s/n ALL; 177B s/n 17702314 thru 17702752; 177RG s/n 177RG0788 thru 177RG1366; F177RG s/n F177RG0139 thru F177RG0177; A152 s/n ALL; A150L s/n ALL; A150M s/n ALL; F150M s/n ALL; F150L s/n ALL; F152 s/n ALL; F172D s/n ALL; F172E s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n F17200901 thru F17200904; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; FA150L s/n ALL; FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500262 thru FA1500336; FA152 s/n ALL; FP172 s/n ALL; FR172J s/n FR1720420 thru FR17200590FR172K s/n ALL; P172D s/n ALL; R172K s/n ALL;
RETAINING RING	MC155-00100	155-00100, 155-0100, 3023	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150D s/n ALL; 150E s/n ALL; 150F s/n ALL; 150G s/n ALL; 150H s/n ALL; 150J s/n ALL; 150K s/n ALL; 150L s/n ALL; 150M s/n ALL; 152 s/n ALL; 172D s/n ALL; 172E s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n ALL; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172R s/n ALL; 172RG s/n ALL; 172S s/n ALL; 177 s/n ALL; 177A s/n ALL; 177B s/n ALL; 177RG s/n ALL; A150K s/n ALL; A150L s/n ALL; A150M s/n ALL; A152 s/n ALL; F150F s/n ALL; F150G s/n ALL; F150H s/n ALL; F150J s/n ALL; F150K s/n ALL; F150L s/n ALL; F150M s/n ALL; F152 s/n ALL; F172D s/n ALL; F172E s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n ALL; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; F177RG s/n ALL; FA150K s/n ALL; FA150L s/n

<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>
					FA1500082 thru FA1500120; FA150L (with FKA150-2311 and FKA150-2316) s/n FA1500121 thru FA1500261; FA150M (with FKA150-2311 and FKA150-2316) s/n ALL; FA152 s/n ALL; FP172 s/n ALL; FR172E s/n ALL; FR172F s/n ALL; FR172G s/n ALL; FR172H s/n ALL; FR172J s/n ALL; FR172K s/n ALL; P172D s/n ALL; R172E (T-41B,C,D) s/n ALL; R172F (T-41D) s/n ALL; R172G (T-41C,D) s/n ALL; R172H (T-41D) s/n ALL; R172K s/n ALL;
RETAINING RING	MC155-00200	155-00200, 155-2	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150A s/n ALL; 150B s/n ALL; 150C s/n ALL; 150D s/n ALL; 150E s/n ALL; 150F s/n ALL; 150G s/n ALL; 150H s/n ALL; 150J s/n ALL; 150K s/n ALL; 150L s/n ALL; 150M s/n ALL; 152 s/n ALL; 172B s/n ALL; 172C s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n ALL; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172R s/n ALL; 172RG s/n ALL; 172S s/n ALL; 175B s/n ALL; 175C s/n ALL; 177 s/n ALL; 177A s/n ALL; 177B s/n ALL; 177RG s/n ALL; 172A s/n ALL; 175A s/n ALL; A150K s/n ALL; A150L s/n ALL; A150M s/n ALL; A152 s/n ALL; F150F s/n ALL; F150G s/n ALL; F150H s/n ALL; F150J s/n ALL; F150K s/n ALL; F150L s/n ALL; F150M s/n ALL; F152 s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n ALL; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; F177RG s/n ALL; FA150K s/n ALL; FA150L s/n FA1500082 thru FA1500120; FA150L (with FKA150-2311 and FKA150-2316) s/n FA1500121 thru FA1500261; FA150M (with FKA150-2311 and FKA150-2316) s/n ALL; FA152 s/n ALL; FR172E s/n ALL; FR172F s/n ALL; FR172G s/n ALL; FR172H s/n ALL; FR172J s/n ALL; FR172K s/n ALL; R172K s/n ALL; 172 s/n 46421 thru 46754; 175 s/n 55876 thru 56238
RETAINING RING	MC155-11800	155-11800, A1636-23, A1636-23	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150L s/n ALL; 150M s/n ALL; 152 s/n ALL; 172M s/n 17260835 thru 17267584; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172RG s/n ALL; 177 s/n ALL; 177B s/n 17701774 thru 17702752; 177RG s/n 177RG0274 thru 177RG1366; A150L s/n ALL; A150M s/n A1500524 thru A1500734; A152 s/n ALL; F150L s/n ALL; F150M s/n ALL; F152 s/n ALL; F172L s/n F17200901 thru F17200904; F172M s/n F17200905 thru F17201514; F172N s/n ALL; F172P s/n ALL; FA150L s/n FA1500082 thru FA1500120; FA150L (with FKA150-2311 and FKA150-2316) s/n FA1500121 thru FA1500261; FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500262 thru FA1500336; FA152 s/n ALL; FR172E s/n ALL; FR172F s/n ALL; FR172G s/n ALL; FR172H s/n ALL; FR172J s/n ALL; FR172K s/n ALL; R172K s/n ALL; F177RG s/n F177RG0154 thru F177RG0177;
RETAINING RING	MC155-11900	155-11900, A1636-24	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 6543, Rev D, Dated 07/01/2014 or later FAA approved revisions.	Cessna	150L s/n 15072004 thru 15074891; 150M s/n 15075782 thru 15077379; 150M s/n 15077381 thru 15077401; 150M s/n 15077404 thru 15079405; 152 s/n ALL; 172D s/n ALL; 172E s/n ALL; 172F (T-41A) s/n ALL; 172G s/n ALL; 172H (T-41A) s/n ALL; 172I s/n ALL; 172K s/n ALL; 172L s/n ALL; 172M s/n 17260835 thru 17267584; 172N s/n ALL; 172P s/n ALL; 172Q s/n ALL; 172RG s/n ALL; 177 s/n ALL; 177B s/n 17702314 thru 17702752; 177RG s/n 177RG0788 thru 177RG1366; A150L s/n ALL; A150M s/n ALL; A152 s/n ALL; F150M s/n F15001144 thru F15001418; F150M s/n

<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>
					F15001312 thru F15001428; F150L s/n ALL; F152 s/n ALL; F172D s/n ALL; F172E s/n ALL; F172F s/n ALL; F172G s/n ALL; F172H s/n ALL; F172K s/n ALL; F172L s/n F17200901 thru F17200904; F172M s/n ALL; F172N s/n ALL; F172P s/n ALL; F177RG s/n F177RG0139 thru F177RG0177; FA150L s/n FA1500082 thru FA1500120; FA150L (with FKA150-2311 and FKA150-2316) s/n FA1500121 thru FA1500261; FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500262 thru FA1500299; FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500312 thru FA1500336; FA152 s/n ALL; FP172 s/n ALL; FR172K s/n ALL; P172D s/n ALL; R172K s/n ALL; FR172J s/n FR1720420 thru FR17200590

-----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 Manager, Aircraft
 Certification Office


 Manager, Manufacturing
 Inspection District Office