



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

Small Airplane Directorate
Wichita Manufacturing Inspection
District Office
2204 S. Tyler Rd.
Wichita, Kansas 67209

April 14, 2016

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

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Dear Mr. Yarnell:

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 Computations with your letter dated November 23, 2015, 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, Kansas 66006. Accordingly, Parts Manufacture Approval (PMA) is hereby granted for production of the articles listed in the enclosed Supplement No. 84.

You are reminded that the provisions of 14 CFR, Parts 21 and 45 noted in our PMA letter of approval dated May 20, 1994; also apply to the enclosed PMA Listing-Supplement No. 84. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the articles concerned.

Sincerely,

Neal R. Rice
Manager, Wichita Manufacturing
Inspection District Office

Enclosure: PMA Listing-Supplement No. 84

cc: AIR-112



U.S. Department
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FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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

PMA No. PQ3732CE
Supplement No. 84
Date: April 14, 2016

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model /Series Eligibility
RING	MC153-00300	153-00300, A39070	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 or later FAA-approved revisions	Cessna	150C s/n All 150D s/n All 150E s/n All 150F s/n All 150G 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 F150G s/n F150-0068 thru F150-0167 F150F 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

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model /Series Eligibility
					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 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 All R172H (T-41D) s/n All R172K s/n All
RING	MC153-00400	153-00400, 3022	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 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 177RG s/n All 150K s/n All A150L s/n All A150M s/n All

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model /Series Eligibility
					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 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 All R172H (T-41D) s/n All R172K s/n All 177B s/n All
PLATE	MC153-00500	153-00500, B39094	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 or later FAA-approved revisions	Cessna	150C s/n All
RING	MC153-00800	153-00800, 153-30048, 153-8, A30048	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 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

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model /Series Eligibility
					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 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

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					FR172J s/n All FR172K s/n All R172K s/n All 172 s/n 46421 thru 46754 175 s/n 55876 thru 56238
PLATE	MC153-01000	153-01000, 153-10	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 or later FAA-approved revisions	Cessna	172D s/n All F172D s/n All FP172 s/n All P172D s/n All 172G s/n 17253393 thru 17254572
PLATE	MC153-01500	153-01500, 153-15	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 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 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

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					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
RING	MC153-30013	153-30013, A30013	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 or later FAA-approved revisions	Cessna	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 172N s/n All 172P s/n All 172Q s/n All 172RG s/n All 177 s/n All 177B s/n All 177RG 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

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					F172M s/n All F172N s/n All F172P s/n All FA150L s/n All FA152 s/n All FP172 s/n All FR172K s/n All P172D s/n All R172K s/n All 150L s/n 15072004 thru 15074891 150M s/n All 172M s/n All 172N s/n 17267585 thru 17268399 A150L s/n All A150M s/n All F150M s/n All FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500262 thru FA1500299 F177RG s/n F177RG0139 thru F177RG0177 FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500312 thru FA1500336 FR172J s/n FR1720420 thru FR17200590
PLATE	MC153-30014	153-30014, A30014	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 or later FAA-approved revisions	Cessna	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 172RG s/n All 177 s/n All 177B s/n All 177RG 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

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					F172H s/n All F172K s/n All F172M s/n All F172N s/n All F172P s/n All FA150L s/n FA1500082 thru FA1500261 FA152 s/n All FP172 s/n All FR172K s/n All P172D s/n All R172K s/n All 150L s/n 15072004 thru 15074891 150M s/n All 172M s/n 17263459 thru 17265648 A150L s/n A1500227 thru A1500523 A150M s/n A1500524 thru A1500734 F150M s/n All FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500262 thru FA1500299 F172L s/n F17200901 thru F17200904 F177RG s/n F177RG0139 thru F177RG0177 FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500312 thru FA1500336 FR172J s/n FR1720420 thru FR17200590
RING	MC153-30015	153-30015, A30015	Test and Computations per 14 CFR § 21.303, Drawing: 6543-1 Rev: Orig Date: 01/21/2016 or later FAA-approved revisions	Cessna	172D s/n All 172E s/n All 172F (T-41A) 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 172RG s/n All 177 s/n All 177B s/n All

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					177RG s/n 177RG0788 thru 177RG1366 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 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 FA152 s/n All FP172 s/n All FR172K s/n All P172D s/n All R172K s/n All 150L s/n 15072004 thru 15074891 150M s/n All A150L s/n A1500227 thru A1500430 A150M s/n A1500524 thru A1500620 F150M s/n F15001144 thru F15001418 FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500262 thru FA1500299 A150L s/n A1500431 thru A1500523 A150M s/n A1500621 thru A1500734 F150M s/n F15001312 thru F15001428 F172L s/n F17200901 thru F17200904 F177RG s/n F177RG0139 thru F177RG0177 FA150M (with FKA150-2311 and FKA150-2316) s/n FA1500312 thru FA1500336

