



U.S. Department  
of Transportation

Federal Aviation  
Administration

Small Airplane Directorate Kansas  
City Manufacturing Inspection District  
Office

901 Locust Street, Room 376  
Kansas City, MO 64106  
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4195

June 19, 1995

Revised: July 1, 2004

David A. McFarlane  
McFarlane Aviation, Inc.  
696 East 1700 Road  
Vinland Valley Aerodrome  
Baldwin City, Kansas 66006-9806

Project No. PQ3732CE-D

Dear Mr. McFarlane:

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of 14 CFR part 21 (part 21), Subpart K, the Federal Aviation Administration (FAA) has found that the design data, based on (test and computation) submitted by McFarlane Aviation, Inc. and your letters dated April 26, 2004 and May 26, 2004, meet the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that McFarlane Aviation, Inc. has established the fabrication inspection system required by part 21 § 21.303(h), at 696 East 1700 Road, Baldwin KS. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. **R2**, dated July 1, 2004.

We request that the McFarlane Supplement #2, dated June 19, 1995 be archived with the design data and made available for any future viewing by the FAA.

As informational purposes, it has been determined that McFarlane Aviation has established the fabrication inspection system required by part 21 § 21.303(h) at 696 East 1700 Road, Baldwin KS 66006. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. **R2**, dated July 1, 2004.

You are reminded that the provisions of the Federal Aviation Regulations, noted in our PMA letter of approval dated October 10, 1996, also apply to the enclosed PMA Listing-Supplement No. **R2**.

Please destroy PMA Supplement **R2** dated June 23, 2004.

Sincerely,



Patricia A. Patch

Aviation Safety Inspector

Kansas City Manufacturing Inspection District Office

Enclosure

Production Approval Listing – Supplement No. **R2**  
 Parts Manufacturer Approval NO. PQ3732CE-D  
**Revised July 1, 2004**

Federal Aviation Administration – Parts Manufacturer Approval

McFarlane Aviation  
 696 E. 1700 Rd.  
 Baldwin City, KS 66006

PMA No. PQ3732CE-D  
Supplement No. **R2**  
Date: July 1, 2004

<u>Part 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>
Hinge Assembly	MC0523816-1	Cessna P/N 0523816-1	Design approval per FAR 21.303 (c) and McFarlane Drawing 3134 Rev. N/C, dated 10/19/93, McFarlane Drawing List 1136, Rev. N/C dated 10/19/93 and FAA letter dated 12/29/93 or later FAA approved revision.	Cessna	150 S/Ns 17001-17999, 59001-59018, 15059019-15079405; A150 S/Ns A1500001 -A1500734; 152, S/Ns 15279406, -A1520735 -A1521049; 170A S/Ns 18729 and up; 170B S/Ns 19401 and 20267 and up; 172 S/Ns 28000-29999, 36000-36999, 46001-47746, and 17247747-17276673; 172RG S/Ns 172RG0001-172RG1191; P172 S/Ns P17257120-P17257188; R172 S/Ns R1720001-R1723454; 175 S/Ns 55001-56777, 17556778-17557119; 180 S/Ns 30000-50911, 18050912-18053203; 182 & T182 S/Ns 33000-53007, 18253008-18268615; R182 S/Ns R18200001-R18202041; TR182 S/Ns R18200001-R18202041; 185 S/Ns 1850001-1851599; A185E S/Ns 18501600-18502090; A185F S/Ns 18502091-18504448; 205 S/Ns 2050001-2050577; 210,A,B,C, S/Ns21057001-21058220
Tail Wheel Steering Lock	MC9861000-1	Cessna P/N 9861000-1	Design approval per FAR 21.303 (c) and McFarlane Drawing 3137 Rev. N/C, dated 11/8/93, McFarlane Drawing List 1140, Rev. N/C dated 11/8/93 and FAA letter dated 4/1/94 or later FAA approved revision.	Cessna	188 S/Ns 18800834-18803856, 18800967T-18803968T, T18803307T-T18803968T.
SAFE-HEET Engine Heater Kit No. 700	700	Modification Part	Design approval per FAR 21.303 (c) and Drawing SH100 Rev. B, dated 1/19/95, Drawing List SH103, Rev. A dated 1/19/95 and FAA letter dated 12/16/94 or later FAA approved revision.	SAFE-HEET	See SAFE-HEET application guide, drawing No. SH101, Rev. A dated 1/19/95 for eligible models.

SAFE-HEET Engine Heater Kit No. 705	705	Modification Part	Design approval per FAR 21.303 (c) and Drawing 1030 Rev. A, dated 1/19/95, Drawing List SH103, Rev. A dated 1/19/95 and FAA letter dated 12/16/94 or later FAA approved revision.	SAFE-HEET	See SAFE-HEET application guide, drawing No. SH101, Rev. A dated 1/19/95 for eligible models.
SAFE-HEET Engine Heater Kit No. 715	715	Modification Part	Design approval per FAR 21.303 (c) and Drawing SH100 Rev. B, dated 1/19/95, Drawing List SH103, Rev. A dated 1/19/95 and FAA letter dated 12/16/94 or later FAA approved revision.	SAFE-HEET	See SAFE-HEET application guide, drawing No. SH101, Rev. A dated 1/19/95 for eligible models.
SAFE-HEET Engine Heater Kit No. 720	720	Modification Part	Design approval per FAR 21.303 (c) and Drawing SH100 Rev. B, dated 1/19/95, Drawing List SH103, Rev. A dated 1/19/95 and FAA letter dated 12/16/94 or later FAA approved revision.	SAFE-HEET	See SAFE-HEET application guide, drawing No. SH101, Rev. A dated 1/19/95 for eligible models.
Washer part Number	MCS1450-3S10-032	Cessna P/N S1450-3S10-032	Design approval per FAR 21.303 (c) and Drawing 1043 Rev. B, dated 3/21/95 and FAA letter dated 4/29/95 or later FAA approved revision.	Cessna	See Roller application Chart: Cessna Flap, Dwg No 1043 .Rev B, 3-21-95 for eligible models.
Trim Control Chains	MCS2295( ) 25 ( )	Cessna P/N S2295 ( ) 25 ( )	Design approval per FAR 21.303 (c) and Drawing 1144 Rev. N/C, dated 8/25/94 and FAA letter dated 10/20/94 or later FAA approved revision.	Cessna	See Trim Chain application Chart: McFarlane Dwg. No. 1145, Rev. 08-25-94, for aircraft model, serial number and part number applicability.
Trim Control Connecting Link	MCS2294-25	Cessna P/N S2294-25	Design approval per FAR 21.303 (c) and Drawing 1146 Rev. N/C, dated 8/25/94 and FAA letter dated 10/20/94 or later FAA approved revision.	Cessna	120, 140, 150, 152, 170, 172, 177, 180, 182, 185, 188, 205, 206, 207 & 210.
Trim Control Chain	MC0432138-2	Cessna P/N 0432138-2	Design approval per FAR 21.303 (c) and Drawing 1144 Rev. N/C, dated 8/25/94 and FAA letter dated 10/20/94 or later FAA approved revision.	Cessna	180, 180A, B, C, D, E, F, G, H partial J S/Ns 180-3000-18052384, 182, 182A, B, C & D S/Ns 182-33000-18253598, 185, 185A, B, C, D & E, A185E & partial A185F S/Ns 1850001-1852310.
Cowl Plate Assembly	MC69791-000	Piper P/N 69791-000	Design approval per FAR 21.303 (c) and Drawing 1114 Rev. N/C, dated 4/4/92; Drawing List 1117 Rev. N/C dated 4/4/92 and FAA letter dated 10/3/94 or later FAA approved revision.	Piper	PA-28-150, PA-28-160, PA-28-180 S/Ns 28-1761 & on, PA-28-181 S/Ns 28-7690001 & on, PA-28-235 S/Ns 28-10003 & on, PA-28R-180 S/Ns 28-30005 & on, PA-28R-200 S/Ns 28-35001 & on, PA-28R-201, PA28RT-201, PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300 all serial numbers.
Bushing Assembly	MC69790-00	Piper P/N 69790-00	Design approval per FAR 21.303 (c) and Drawing 1115 Rev. N/C, dated 4/4/92; Drawing List 1117 Rev. N/C dated 4/4/92 and FAA letter dated 10/3/94 or later FAA approved revision.	Piper	PA-28-150, PA-28-160, PA-28-180 S/Ns 28-1761 & on, PA-28-181 S/Ns 28-7690001 & on, PA-28-235 S/Ns 28-10003 & on, PA-28R-180 S/Ns 28-30005 & on, PA-28R-200 S/Ns 28-35001 & on, PA-28R-201, PA28RT-201, PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300 all serial numbers.

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

Note: Minor design changes (reference 14 CFR part 21 §§ 21.93 and 21.95) must be submitted in a manner as determined by the ACO. Major design changes (reference 14 CFR part 21 §§ 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA-PMA.



Patricia A. Patch  
Aviation Safety Inspector  
Kansas City Manufacturing District Office

July 1, 2004  
Date