



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

November 16, 2011

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 May 11, 2011, 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.55**.

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.55**.

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

Sincerely,

Edward J. Mehrhoff
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. 55
Date: November 16, 2011

<u>Article Name</u>	<u>Part Number</u>	<u>Approved</u> <u>Replacement For</u> <u>Part No.</u>	<u>Approval Basis</u> <u>and Approved Design Data</u>	<u>MAKE</u> <u>Eligibility:</u>	<u>MODEL/SERIAL NUMBER</u> <u>Eligibility:</u>
Control Assembly	MC454-120	10765-002, 10765-003, 12955-000, 16755-000, 41481-015, 41481-016, 454- 120	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-18 s/n ALL; PA-18 "105" (Special) s/n ALL; PA-18 "125" (Army L-21A) s/n ALL; PA-18 "135" (Army L-21B) s/n ALL; PA-18 "135" (Army L-21B) s/n 18-2168 thru 18-7632; PA-18 "150" s/n 18-3771 thru 18-8309025; PA-18 "150" s/n 1809001 thru 1809113; PA- 18A s/n ALL; PA-18A "135" s/n ALL; PA-18A "135" s/n 18-2168 thru 18- 7632; PA-18A "150" s/n ALL; PA- 18AS "125" s/n ALL; PA-18AS "135" s/n ALL; PA-18AS "135" s/n 18-2168 thru 18-7632; PA-18AS "150" s/n ALL; PA-18S s/n ALL; PA-18S "105" (Special) s/n ALL; PA-18S "125" s/n ALL; PA-18S "135" s/n ALL; PA-18S "135" s/n 18-2168 thru 18-7632; PA- 18S "150" s/n 18-3771 thru 18- 8309025; PA-18S "150" s/n 1809001 thru 1809113; PA-20 s/n ALL; PA-20 s/n 20-554 thru 20-99999; PA-20 s/n 20-812 thru 20-99999; PA-20 "115" s/n ALL; PA-20 "135" s/n ALL; PA-20 "135" s/n 20-878 thru 20-880; PA-20 "135" s/n 20-882 thru 20-884; PA-20 "135" s/n 20-886 thru 20-887; PA-20 "135" s/n 20-889 thru 20-99999; PA- 20S s/n ALL; PA-20S s/n 20-554 thru 20-99999; PA-20S s/n 20-812 thru 20- 99999; PA-20S "115" s/n ALL; PA-20S "135" s/n ALL; PA-20S "135" s/n 20- 878 thru 20-880; PA-20S "135" s/n 20- 882 thru 20-884; PA-20S "135" s/n 20- 886 thru 20-887; PA-20S "135" s/n 20- 889 thru 20-99999; PA-22 s/n ALL; PA-22-108 s/n ALL; PA-22-135 s/n

KNOB, Ivory MC471-052 471-052	Test and Computation per 14 Piper CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	ALL; PA-22-135 s/n 22-540 thru 22-542; PA-22-135 s/n 22-544 thru 22-99999; PA-22-150 s/n ALL; PA-22-160 s/n ALL; PA-22S-135 s/n ALL; PA-22S-150 s/n ALL; PA-22S-160 s/n ALL; PA-24 s/n 24-1 thru 24-2174; PA-24 s/n 24-1 thru 24-2969; PA-24 s/n 24-2176 thru 24-2298; PA-24-250 s/n 24-1 thru 24-2174; PA-24-250 s/n 24-1 thru 24-2969; PA-24-250 s/n 24-2176 thru 24-2298. PA-18 s/n ALL; PA-18 "105" (Special) s/n ALL; PA-18 "125" (Army L-21A) s/n ALL; PA-18 "135" (Army L-21B) s/n ALL; PA-18 "135" (Army L-21B) s/n 18-2168 thru 18-7632; PA-18 "150" s/n 18-3771 thru 18-8309025; PA-18A s/n ALL; PA-18A "135" s/n ALL; PA-18A "135" s/n 18-2168 thru 18-7632; PA-18A "150" s/n ALL; PA-18AS "125" s/n ALL; PA-18AS "135" s/n ALL; PA-18AS "135" s/n 18-2168 thru 18-7632; PA-18AS "150" s/n ALL; PA-18S s/n ALL; PA-18S "105" (Special) s/n ALL; PA-18S "125" s/n ALL; PA-18S "135" s/n ALL; PA-18S "135" s/n 18-2168 thru 18-7632; PA-18S "150" s/n 18-3771 thru 18-8309025; PA-20 s/n ALL; PA-20 s/n 20-554 thru 20-99999; PA-20 s/n 20-812 thru 20-99999; PA-20 "115" s/n ALL; PA-20 "135" s/n ALL; PA-20S s/n ALL; PA-20S s/n 20-554 thru 20-99999; PA-20S s/n 20-812 thru 20-99999; PA-20S "115" s/n ALL; PA-20S "135" s/n ALL; PA-22 s/n ALL; PA-22-135 s/n 22-534 thru 22-2377; PA-22-135 s/n 22-540 thru 22-542; PA-22-135 s/n 22-544 thru 22-2377; PA-22-135 s/n 22-2379 thru 22-2424; PA-22-150 s/n 22-2379 thru 22-2424; PA-22-160 s/n 22-2379 thru 22-2424; PA-22S-135 s/n 22-534 thru 22-2377; PA-22S-135 s/n 22-2379 thru 22-2424; PA-22S-150 s/n 22-2379 thru 22-2424; PA-22S-160 s/n 22-2379 thru 22-2424.
KNOB, RED MC471-053 471-053	Test and Computation per 14 Piper CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	PA-18 s/n ALL; PA-18 "105" (Special) s/n ALL; PA-18 "125" (Army L-21A) s/n ALL; PA-18 "135" (Army L-21B) s/n ALL; PA-18 "150" s/n 18-3771 thru 18-8309025; PA-18 "150" s/n 1809001 thru 1809113; PA-18A s/n ALL; PA-18A "135" s/n ALL; PA-18A "150" s/n ALL; PA-18AS "125" s/n ALL; PA-18AS "135" s/n ALL; PA-18AS "150"

KNOB,Black	MC471-060	471-060	Test and Computation per 14 Piper CFR § 21.303. <u>Drawing:</u>6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	s/n ALL; PA-18S s/n ALL; PA-18S "105" (Special) s/n ALL; PA-18S "125" s/n ALL; PA-18S "135" s/n ALL; PA-18S "150" s/n 18-3771 thru 18-8309025; PA-18S "150" s/n 1809001 thru 1809113; PA-20 s/n ALL; PA-20 "115" s/n ALL; PA-20 "135" s/n ALL; PA-20S s/n ALL; PA-20S "115" s/n ALL; PA-20S "135" s/n ALL; PA-22 s/n ALL; PA-22-108 s/n ALL; PA-22-135 s/n ALL; PA-22-150 s/n ALL; PA-22-160 s/n ALL; PA-22S-135 s/n ALL; PA-22S-150 s/n ALL; PA-22S-160 s/n ALL. PA-18 "135" (Army L-21B) s/n 18-2168 thru 18-7632; PA-18 "150" s/n 18-3771 thru 18-8309025; PA-18 "150" s/n 1809001 thru 1809113; PA-18A "135" s/n 18-2168 thru 18-7632; PA-18A "150" s/n ALL; PA-18AS "135" s/n 18-2168 thru 18-7632; PA-18AS "150" s/n ALL; PA-18S "135" s/n 18-2168 thru 18-7632; PA-18S "150" s/n 18-3771 thru 18-8309025; PA-18S "150" s/n 1809001 thru 1809113; PA-22-108 s/n ALL; PA-22-135 s/n 22-2378 thru 22-2378; PA-22-135 s/n 22-2425 thru 22-99999; PA-22-150 s/n 22-2378 thru 22-2378; PA-22-150 s/n 22-2425 thru 22-99999; PA-22-150 s/n 22-2425 thru 22-5138; PA-22-150 s/n 22-5140 thru 22-5602; PA-22-160 s/n 22-2378 thru 22-2378; PA-22-160 s/n 22-2425 thru 22-99999; PA-22-160 s/n 22-2425 thru 22-5138; PA-22-160 s/n 22-5140 thru 22-5602; PA-22S-135 s/n 22-2378 thru 22-2378; PA-22S-135 s/n 22-2425 thru 22-99999; PA-22S-150 s/n 22-2378 thru 22-2378; PA-22S-150 s/n 22-2425 thru 22-99999; PA-22S-150 s/n 22-2425 thru 22-5138; PA-22S-150 s/n 22-5140 thru 22-5602; PA-22S-160 s/n 22-2378 thru 22-2378; PA-22S-160 s/n 22-2425 thru 22-99999; PA-22S-160 s/n 22-2425 thru 22-5138; PA-22S-160 s/n 22-5140 thru 22-5602; PA-25-235 s/n 25-2000 thru 25-8156024; PA-25-260 s/n 25-4415 thru 25-8156024.
Knob, Carb Heat, Piper	MC471-084	471-084	Test and Computation per 14 Piper CFR § 21.303. <u>Drawing:</u>6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	PA-28-150 s/n 28-1761 thru 28-2627; PA-28-160 s/n 28-1761 thru 28-2627; PA-28-180 s/n 28-1761 thru 28-2627; PA-28-235 s/n 28-10003 thru 28-10675.

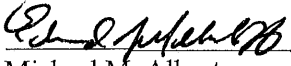
Control Assembly	MC553-874	553-874	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32-301T s/n ALL.
Control Assembly	MC553-885	553-885	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32R-301T s/n 32R-8029001 thru 32R-8629008; PA-32R-301T s/n 3229001 thru 3229003.
Control Assembly	MC554-051	554-051	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32-300 s/n 32-40566 thru 32-7940290; PA-32-301 s/n 32-8006002 thru 32-8606023; PA-32-301 s/n 3206001 thru 3206060; PA-32-301FT s/n ALL; PA-32R-300 s/n ALL; PA-32R-301 s/n 32R-8013001 thru 32R-8613006; PA-32R-301 s/n 3213001 thru 3213103; PA-32RT-300 s/n ALL; PA-32S-300 s/n 32S-40566 thru 32S-7240137.
Control Assembly	MC554-053	554-053, 66856-005	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32-260 s/n 32-1111 thru 32-7800008.
Control Assembly	MC554-092	554-092, 66836-02	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28R-180 s/n 28R-31093 thru 28R-31279; PA-28R-200 s/n 28R-35226 thru 28R-35830.
Control Assembly: Carb Heat	MC554-093	554-093, 66836-003	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-140 s/n 28-25822 thru 28-7425418; PA-28-151 s/n ALL; PA-28-161 s/n 28-7716001 thru 28-8616057; PA-28-161 s/n 2816001 thru 2816119; PA-28-161 s/n 2841001 thru 2841365; PA-28-161 s/n 2842001 thru 2842999.

Control Assembly	MC554-094	554-094, 66386-004	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-140 s/n 28-7425419 thru 28-7725290; PA-28-181 s/n 2843001 thru 2843999; PA-28-181 s/n 2890206 thru 2890231; PA-28-235 s/n 28-11253 thru 28-7210033; PA-28-235 s/n 28-7310001 thru 28-7710089; PA-28-236 s/n 28-7911001 thru 28-8611008; PA-28-236 s/n 2811001 thru 2811050.
Control Assembly	MC554-095	554-095, 66836-005	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-180 s/n 28-5399 thru 28-7505260; PA-28-181 s/n 28-7690001 thru 28-8690062; PA-28-181 s/n 2890001 thru 2890205; PA-28S-180 s/n 28-5399 thru 28-7205234.
Control Assembly: Carb Heat	MC554-130	554-130	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28R-180 s/n 28R-7130001 thru 28R-7130013; PA-28R-200 s/n 28R-7135001 thru 28R-7635545; PA-28R-201 s/n 28R-7737002 thru 28R-7837317; PA-28R-201 s/n 2837001 thru 2837061; PA-28R-201 s/n 2844001 thru 2844999; PA-28RT-201 s/n ALL.
Control Assembly	MC554-167	554-167, 66856-019, 760-387	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-140 s/n 28-25000 thru 28-25821.
Control Assembly: Alt Air	MC554-387	554-387	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-201T s/n ALL; PA-28R-201T s/n 28R-7703001 thru 28R-7803373; PA-28R-201T s/n 2803001 thru 2803012; PA-28RT-201T s/n 28R-7931001 thru 28R-8631005; PA-28RT-201T s/n 2831001 thru 2831038.
Control Assembly	MC554-466	554-466, 66856-032	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32RT-300T s/n ALL.
Control Assembly	MC554-511	554-511, 77907-05	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-38-112 s/n ALL.

Knob	MC571-131	571-131, 65617-000	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-140 s/n 28-21096 thru 28-24999; PA-28-150 s/n 28-2628 thru 28-4377; PA-28-160 s/n 28-2628 thru 28-4377; PA-28-180 s/n 28-2628 thru 28-4277; PA-28-180 s/n 28-2628 thru 28-4377; PA-28-235 s/n 28-10676 thru 28-11039; PA-32-260 s/n 32-1 thru 32-1110; PA-32-300 s/n 32-40000 thru 32-40565; PA-32S-300 s/n 32S-15 thru 32S-40565.
Control	MC63902-003	63902-003	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-140 s/n 28-20002 thru 28-21095; PA-28-150 s/n 28-1 thru 28-2627; PA-28-160 s/n 28-1 thru 28-2627; PA-28-180 s/n 28-671 thru 28-2627; PA-28S-160 s/n ALL; PA-28S-180 s/n 28-671 thru 28-2627.
Control	MC63902-016	63902-016	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-140 s/n 28-21096 thru 28-24999; PA-28-150 s/n 28-2628 thru 28-4377; PA-28-160 s/n 28-2628 thru 28-4377; PA-28-180 s/n 28-2628 thru 28-4377; PA-28S-180 s/n 28-2628 thru 28-4377.
Control	MC63902-021	63902-021	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32-260 s/n 32-451 thru 32-1110.
Control	MC653-658	653-658	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-32R-301 s/n 3246001 thru 3246999; PA-32R-301T s/n 3257001 thru 3257999.
Control	MC66856-007	66856-007	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Piper	PA-28-180 s/n 28-4378 thru 28-5398; PA-28-235 s/n 28-11040 thru 28-11252; PA-28S-180 s/n 28-4378 thru 28-5398.
Control	MCS1230-19	S1230-19	Test and Computation per 14 CFR § 21.303. <u>Drawing:</u> 6252, <u>Rev:</u> C, <u>Date:</u> 03/21/2011 or later FAA approved revisions.	Cessna	FA150L,M s/n FA1500121 thru FA1500336.

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

Note: 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. If TC holder's ICA applies to these replacement parts, provide a statement noting such. If not provide supplementary ICA per 14CFR § 21.50.



for Michael M. Alberts
Manager, Kansas City
Manufacturing Inspection District Office

November 16, 2011

Date: