



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 64106-2641
Tel: 816-329-4190 Fax: 816-329-4195

March 5, 2007

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

PQ3732CE

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of 14 CFR part 21, Subpart K, we have found that the design data, based on Test and Computation, submitted by McFarlane Aviation, Inc., with letter dated March 2, 2007, 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 City, Kansas. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 30.

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. 30.

Sincerely,

David N. Surguy
Aviation Safety Inspector
Kansas City Manufacturing Inspection District Office

Enclosure

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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

PMA No. PQ3732CE
Supplement No. 30
March 5, 2007

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For: Part No.</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility:</u>	<u>MODEL Eligibility:</u>
Trim Chain	MCS2295-25-63	S2295-25-63	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	120/ 8003 and On 140/ 8001 and On 140A/ 15200 and On 150K,L,M/15070504 thru 15079405 A150K,L,M/A1500001 thru A1500734 170, 170A,B/18000 and On
Trim Chain	MCS2295P25-69	S2295P25-69	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	150,150A,B,C,D,E,F,G,H,J,K,L,M/17001 thru 15079405 A150K,L,M/A1500001 thru A1500734 152/15279406 thru 15286033 A1520735 thru A1521049
Trim Chain	MCS2295-25-61	S2295-25-61	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	150H,J/15067199 thru 15070503
Trim Chain	MCS2295-25-71	S2295-25-71	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	172,172A,B,C,D,E/28000 thru 17251822 P172D/P17257120 thru P17257188 175,175A,B,C/55001 thru 17557119 182E,F,G,H,J,K,L,M,N,P,Q,R/18253930 thru 18268293 T182/18267716 thru 18268293
Trim Chain	MCS2295P25-55	S2295P25-55	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	172F,G,H,I,K,L,M,N,P/17251823 thru 17275187 R172K/R1722000 thru R1723454 177RG/177RG0138 thru 177RG1366 210K,L,M,N, T210K,L,M,N/21059200 thru 21064897 P210N/21000001 thru 21000834
Trim Chain	MCS2295P25-47	S2295P25-47	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	206H/20608001 and On T206H/T20608001 and On 207,207A,T207A/20700102 thru 20700788
Trim Chain	MCS2295P25-59	S2295P25-59	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	172P/17275188 thru 17276654 172R/17280001 and On 172S/1728001 and On 172Q/17275869 thru 17276211 172RG/172RG0001 thru 172RG1191 210R,T210R/21064898 thru 21065009 P210R/P21000835 and On
Trim Chain	MCS2295-25-67	S2295-25-67	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	172,172A,B,C,D,E,F,G,H,J,K,L,M/28000 thru 17263458 P172D/P17257120 thru P17257188 175,175A,B,C/55001 thru 17557119 182E,F,G,H,J,K,L,M,N,P,Q,R/18253930 thru 18268293 T182/18267716 thru 18268293

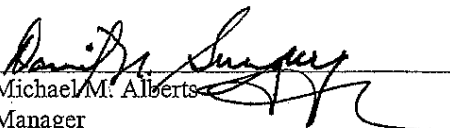
<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For: Part No.</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility:</u>	<u>MODEL Eligibility:</u>
Trim Chain	MCS2295P25-67	S2295P25-67	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	172M,N,P/17263459 thru 17276654 172R/17280001 and On 172S/172S8001 and On R172K/R1722000 thru R1723454 172Q, 17275869 thru 17276211 172RG/172RG0001 thru 172RG1191 182R/18268294 thru 18268586 182S/18280001 thru 18280944 182T/18280945 and On T182T/T18208001 and On T182/18268294 thru 18268586 R182,TR182/R18200001 thru R18202041
Trim Chain	MCS2295-25-47	S2295-25-47	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	177A,B/17701248 thru 17702752 177RG/177RG0001 thru 177RG01366 U206D,E,F,G,TU206D,E,F,G/U206-1346 thru U20607020 P206D,E,TP206D,E/P206-0584 thru P20600647
Trim Chain	MC432138-2	0432138-2	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	180, 180A,B,C,D,E,F,G,H,J/30000 thru 18052384 182,182A,B,C,D/33000 thru 18253598
Trim Chain	MCS2295-25-185	S2295-25-185	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	180,180A,B,C,D,E,F,G,H,J/30000 thru 18052384 182,182A,B,C,D/33000 thru 18253598 185,185A,B,C,D,E,A185E,A185F/185-0001 thru 18504448 205,205A/205-0001 thru 205-577 206/206-0001 thru 206-0275 U206,U206A,B,C,D,E,F,G,TU206A,B,C,D,E ,F,G/U206-0276 thru U20607020 P206,P206A,B,C,D,E, TP206A,B,C,D,E/P206-0001 thru P20600647
Trim Chain	MCS2295-25-249	S2295-25-249	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	182E/18253599 thru 18253929
Trim Chain	MCS2295P25-113	S2295P25-113	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	182E/18253599 thru 18253929 205,205A/205-0001 thru 205-0577 210,210A,B,C,D,E,F/57001 thru 21058818 T210F/T210-0001 thru T210-0197
Trim Chain	MCS2295P25-71	S2295P25-71	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	182R/18268294 thru 18268586 182S/18280001 thru 18280944 182T/18280945 and On T182T/T18208001 and On T182/18268294 thru 18268586 R182, TR182/R18200001 thru R18202041 188,A188,188A,A188A,188B,A188B/188- 0001 thru 18803856 A188B/18800967T thru 18803968T T188C/ T18803297T thru T18803968T
Trim Chain	MCS2295P25-321	S2295P25-321	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	180J,K/18052385 thru 18053203 185,185A,B,C,D,E,A185E,A185F/185-0001 thru 18504448 210,210A/57001 thru 21057840

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Trim Chain	MCS2295P25-185	S2295P25-185	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	180J,K/18052385 thru 18053203 206H/20608001 and On T206H/T20608001 and On 207,207A,T207,T207A/20700001 thru 20700788
Trim Chain	MCS2295-25-70	S2295-25-70	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	188,A188,188A,A188A,188B,A188B/188-0001 thru 18803856 A188B/18800967T thru 18803968T T188C/T18803297T thru T18803968T
Trim Chain	MCS2295A25-111	S2295A25-111	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	205,205A/205-0001 thru 205-0577 206/206-0001 thru 206-0275 U206,U206A,B,C,D,E,F,G,TU206A,B,C,D,E,F,G/U206-0276 thru U20607020 P206,P206A,B,C,D,E,TP206A,B,C,D,E/P206-0001 thru P20600647 206H/20608001 and On T206H/T20608001 and On 207,207A,T207,T207A/20700001 thru 20700788 210B,C,D,E,F,G,H,J,K,L,M,N,R/21057841 thru 21065009 T210F,G,H,J,N,R/T210-0001 thru T210-0454 P210N,R/P21000001 thru P21000874
Trim Chain	MCS2295-25-43	S2295-25-43	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	177,177A/17700001 thru 17701247 206/206-0001 thru 206-0275 U206,U206A,B,C,D,TU206A,B,C,D/U206-0276 thru U206-01345 P206,P206A,B,C,D,TP206A,B,C,D/P206-0001 thru P206-0583 207,T207/20700001 thru 20700101 210G,H,J/21058819 thru 21059199 T210G,H,J/T210-0198 thru T210-0454
Trim Chain	MCS2295P25-155	S2295P25-155	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	210B,C,D,E,F/21057841 thru 21058818 T210F/T210-0001 thru T210-0197
Trim Chain	MCS2295P25-159	S2295P25-159	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	210G,H,J,K,L,M,N,R/21058819 thru 21065009 T210G,H,J,N,R/T210-0198 thru T210-0454 P210N,R/P21000001 thru P21000874
Trim Chain	MCS2295P25-63	S2295P25-63	Test and Computation per 14 CFR § 21.303. McFarlane Drawing 1147 Rev. "C" Dated: Dec/04/2006 or later FAA approved revisions.	Cessna	152/15279406 thru 15286033 A152/A1520735 thru A1521049

***** END OF LISTING *****

<u>Part Name</u>	<u>Part Number</u>	Approved Replacement For: <u>Part No.</u>	FAA Approval Basis and <u>Approved Design Data</u>	MAKE <u>Eligibility:</u>	MODEL <u>Eligibility:</u>
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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 those replacement parts, provide a statement noting such. If not, provide supplementary ICA per 14 CFR § 21.50.


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