

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA01074WI

This certificate issued to McFarlane Aviation, Inc.
696 East 1700 Road
Baldwin City, KS 66006

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part * of the * Regulations.*

Original Product - Type Certificate Number : (see attached FAA Approved Model List (AML No. 1058 for list of Approved CAR 3 Cessna Single Engine models)

Make :
Model :

Description of Type Design Change:

Installation of McFarlane Aviation Flap Roller Assembly Service Kit MCSK100 on various Cessna single engine aircraft. See McFarlane Aviation drawing 1058 for model application. Installation per McFarlane Aviation Drawings 1057 Rev. original and 1058 Rev. Original, FAA approved 4-22-2002, or later FAA approved revision.

Limitations and Conditions: Note: Cessna Service Bulletin SEB95-3 must be complied with before this STC is installed. Compatibility of this design change with previously approved modifications must be determined by the installer. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

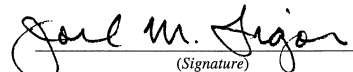
Date of application : January 11, 2001

Date reissued :

Date of issuance : April 22, 2002

Date amended :



By direction of the Administrator


Joel M. Ligon
Program Manager
Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-2(10-68) PAGE 1 OF 2 PAGES

This certificate may be transferred in accordance with FAR 21.47.

McFarlane Aviation, Inc. authorizes the purchaser to use the above STC

For a copy of the EASA STC or Transport Canada STC acceptance letter go to www.mcfarlaneaviation.com and search for MCSK100 or call 785-594-2741.

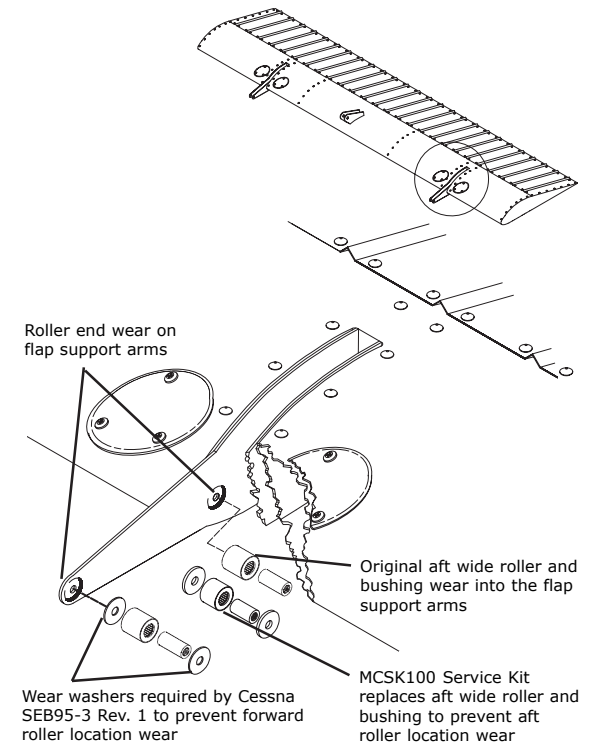
McFarlane[®]

McFarlane Aviation Products

**MCSK100 Flap Roller Service Kit
for Cessna Aircraft**

**Stops flap arm wear!
Prevents costly flap arm replacement.**

- A permanent solution to the wear problem at the aft wide roller locations.
- Includes two stepped washers, a medium width roller and bushing.
- Stepped washers interlock with bushing making installation easier.
- Replaces the aft wide roller and bushing.
- STC-PMA approved
(Minor alteration - logbook entry only)
- Applicable to most single engine Cessna aircraft.
- Economical!



Description and Important Information

The MCSK100 Service Kit replaces the Cessna parts as shown on the following pages. Installation of the MCSK100 Service Kit must be accomplished using the same procedure as specified in the aircraft manufacturers published service information, Cessna Service Bulletin SEB95-3.

Experience has shown that there is a potential for wearing of the flap support arms on Cessna aircraft by the flap rollers due to the asymmetric extension or retraction of the flap during flight. This asymmetry is due to either the inboard or outboard section of the flap leading the retraction or extension of the flap. Many factors, including jammed or damaged rollers or flap track imperfections, can contribute to this condition. This asymmetry causes the rollers to be pressed against the flap support arms (roller end loading) which, over time, causes damage to the flap support arms. Cessna Service Bulletin SEB95-3 addresses this issue by calling for the inspection and repair or replacement of the support arms and rollers. SEB95-3 also requires the installation of stainless steel washers on each side of the forward rollers to reduce the wear between the roller and the support arms. SEB95-3, however, did not offer a preventative solution to the wear problem experienced at the aft roller locations.

McFarlane Aviation, Inc. Service Kit MCSK100 is a permanent solution to the wear problem at the aft roller locations. The MCSK100 Service Kit, however, does not replace the narrower aft roller, bushing, shim and spacer assembly that is used to reduce lateral movement of the flap. The MCSK100 Service Kit replaces the aft P/N 0523919 Bushing(s) and P/N 0523921 Roller(s). The MCSK100 Service Kit does not replace the narrow roller and hardware consisting of 0523919 Bushing, 0523920 Roller, S1450-5N12-050 Shims, and 1220114-1 and 1220114-2 Spacers (spacers are not always used). The MCSK100 Service Kit does not replace the forward bushings, rollers, and S1450-3S10-032 Wear Washers required by Cessna Service Bulletin SEB95-3. For application, reference the following pages.

It is important that the Cessna Service Bulletin SEB95-3 is fully complied with before the MCSK100 Service Kit is installed. This Service Bulletin is available from the Cessna Aircraft Company.

Installation of McFarlane MCSK100 Service Kit(s) is considered a minor alteration and does not require the filing of FAA Form 337. An entry in the aircraft maintenance records shall be made by appropriately rated aircraft maintenance personnel upon completion of the service kit installation.

Information from Drawing 1057 Rev. B 02/06/05

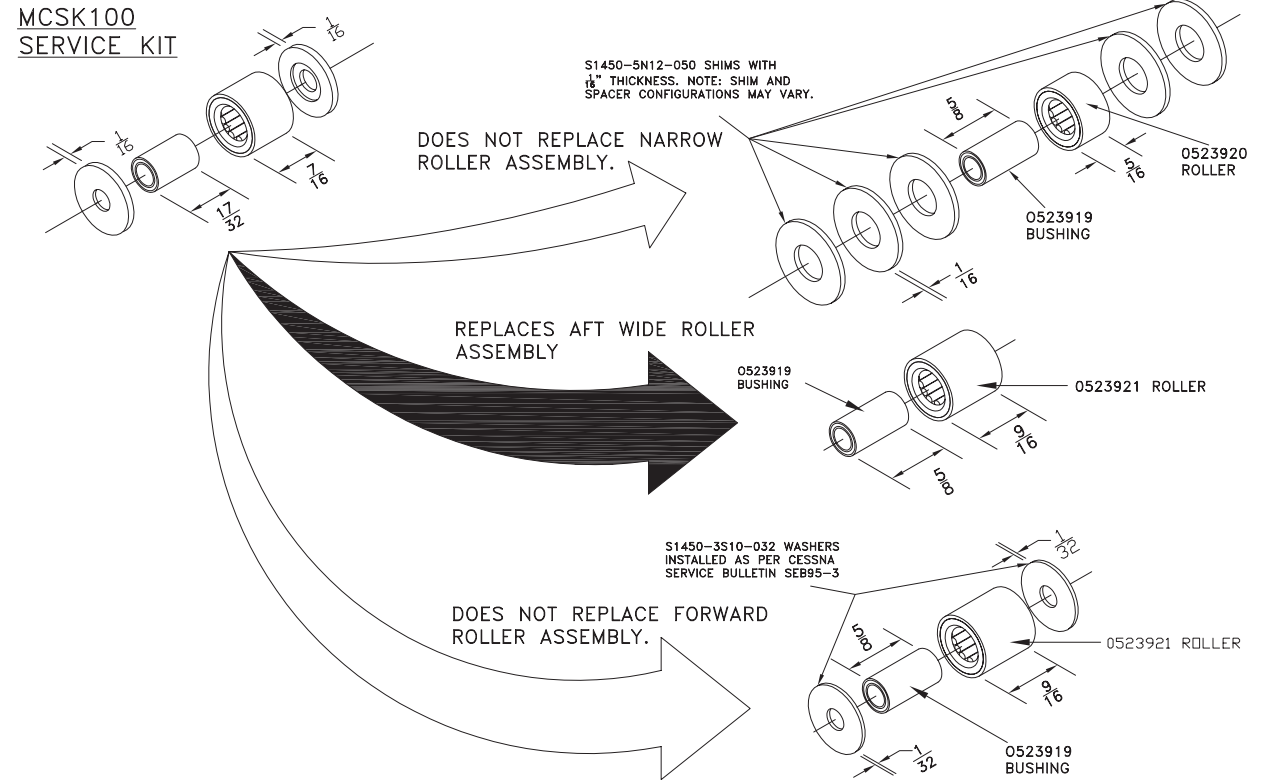
FAA-PMA Application Chart for McFarlane Aviation, Inc. Replacement Flap Roller Service Kit MCSK100 Eligible for Installation on Cessna Aircraft

Model	Year	Serial Number
150	1959 Thru 1977	17001 thru 17999, 59001 thru 59018, 15059019 thru 15064969,
150	1959 Thru 1977	15064971 thru 15079405, 617, 628, 644, 649
A150	1970 thru 1977	A1500001 thru A1500432, 15064970, A1500434 thru A1500734
A-150	1972 thru 1973	A-1501001 thru A-1501039
A-A150	1972 thru 1973	A-A1500001 thru A-A1500009
F150	1966 thru 1977	F150-0001 thru F150-0529, F15000530 thru F15001428
FA150	1970 thru 1971	FA1500001 thru FA1500120
FRA150	1972 thru 1977	FRA1500121 thru FRA1500336
152	1978 thru 1985	15279406 thru 15286033
A152	1978 thru 1985	A1500433, A1520735 thru A1521049, 681
F152	1978 thru 1986	F15201429 thru F15201980
FA152	1978 thru 1986	FA1520337 thru FA1520425
170	1952 thru 1956	19401, 20267 thru 27169, 609
172	1956 thru 1986	28000 thru 47746, 17247747 thru 17276654
172(T41A)	1965 thru 1969	17251947 thru 17259015
172		610, 612, 615, 622, 625, 630, 638, 639
172RG	1980 thru 1985	172RG0001 thru 172RG1191, 691
F172	1963 thru 1986	F172-0001 thru F172-0654, F17200655 thru F17202254
R172 (T41B)	1967	R172-0001 thru R172-0255
R172 (T41C)	1968 thru 1969	R172-0257 thru R172-0301, R1720426 thru R1720432
R172 (T41D)	1968 thru 1976	R172-0302 thru R172-0409, R1720410 thru R1720425, R1720433 thru R1720620
R172		P17257189
R172	1977 thru 1981	R1722000 thru R1723454
FR172	1968 thru 1981	FR17200001 thru FR17200675
P172	1963	P17257120 thru P17257188
172R	1996 and On	17280001 and On
172S	1996 and On	172S8001 and On
FP172	1963	FP172-0001 thru FP172-0003
175	1958 thru 1962	55001 thru 56777, 17556778 thru 17557119, 28700A, 619
177	1968 thru 1978	17700001 thru 17702752
177RG	1971 thru 1978	177RG0001 thru 177RG1366
F177RG	1971 thru 1977	F177RG0001 thru F177RG0177
180	1953 thru 1981	30000 thru 50911, 18050912 thru 18053203, 604, 614, 624, 645
182	1956 thru 1960	33000 thru 53007
182/T182	1961 thru 1986	18253008 thru 18268586, 613, 631, 634, 675
A182	1966 thru 1976	A182-0001 thru A182-0148
F182	1976 thru 1980	F18200001 thru F18200169
R182/TR182	1978 thru 1986	R18200001 thru R18202039
FR182	1978 thru 1980	FR18200001 thru FR18200070
182S	1996 thru 2001	18280001 thru 18280944
182T	2001 and On	18280945 and On
T182T	2001 and On	T18208001 and On
185	1961 thru 1966	185-0001 thru 185-1149, 632, 652
A185E	1966-1972	185-0968 thru 18502090
A185F	1970 thru 1985	18502091 thru 18504448
A-A188	1972 thru 1976	A-A1880001 thru A-A1880034
188/A188	1966 thru 1983	188-0001 thru 188-0572, 18800573 thru 18803973, 653, 678T
A188	1972 thru 1983	18800967T thru 18803973T
T188	1979 thru 1983	T18803307T thru T18803974T
210-5 (205)	1963 thru 1964	205-0001 thru 205-0577, 641
206	1964	206-0001 thru 206-0275
P206/TP206	1965 thru 1970	P206-0001 thru P206-0603, P20600604 thru P20600647
U206/TU206	1965 thru 1986	U206-0276 thru U206-1444, U20601445 thru U20607020, 676
206H	1997 and On	20608001 and On
T206H	1998 and On	T20608001 and On
207/T207	1969 thru 1984	20700001 thru 20700788
210	1960 thru 1963	57001 thru 57575, 21057576 thru 21058139, 21058141 thru 21058220, 616, 618

MCSK100 Service Kit replaces the aft 0523919 bushing(s), and 0523921 roller(s). MCSK100 does not replace the narrow roller hardware consisting of 0523919 bushing, 0523920 roller, S1450-5N12-050 shim, and 1220114-1 and 1220114-2 spacers (when used). MCSK100 does not replace the forward 0523919 bushings, 0523921 rollers, S1450-3S10-032 wear washers as per Cessna Service Bulletin SEB95-3.

Notes:

1. All dimensions are approximate inches.
2. Dimensions are given for comparison purposes only.



Information from Drawing 1058 Rev. E 07/17/2007



Remove Anti-rust Compound and Lubricate Before Use

McFarlane Aviation Products