



Instructions for Continued Airworthiness
McFarlane Aviation, Inc. FAA-PMA Part Number MC16085 Sleeve.
FAA PMA Number: PQ3732CE

Notice: Verify that this document is the latest approved revision before use! Current version can be found at:
www.McFarlaneAviation.com/ICA

Approved By:


Quality Assurance Manager


Engineering Manager


Production Manager



Revisions

Revision	Date	Summary
Original	09/06/2021	Original release

List of Effective Pages

Page	Revision	Date
ALL	~	09/06/2021

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INTRODUCTION

This document is intended to provide for the continued airworthiness of McFarlane Aviation, Inc. PMA Sleeve eligible for installation on description aircraft. The part number is MC16085 and is comprised a single aluminum bronze sleeve with two O-ring grooves on the outer surface. For all items not related to the installation of the McFarlane Aviation, Inc. Sleeve, refer to the basic airplane GC-1A and GC-1B service and parts manuals.

SYSTEM DESCRIPTION

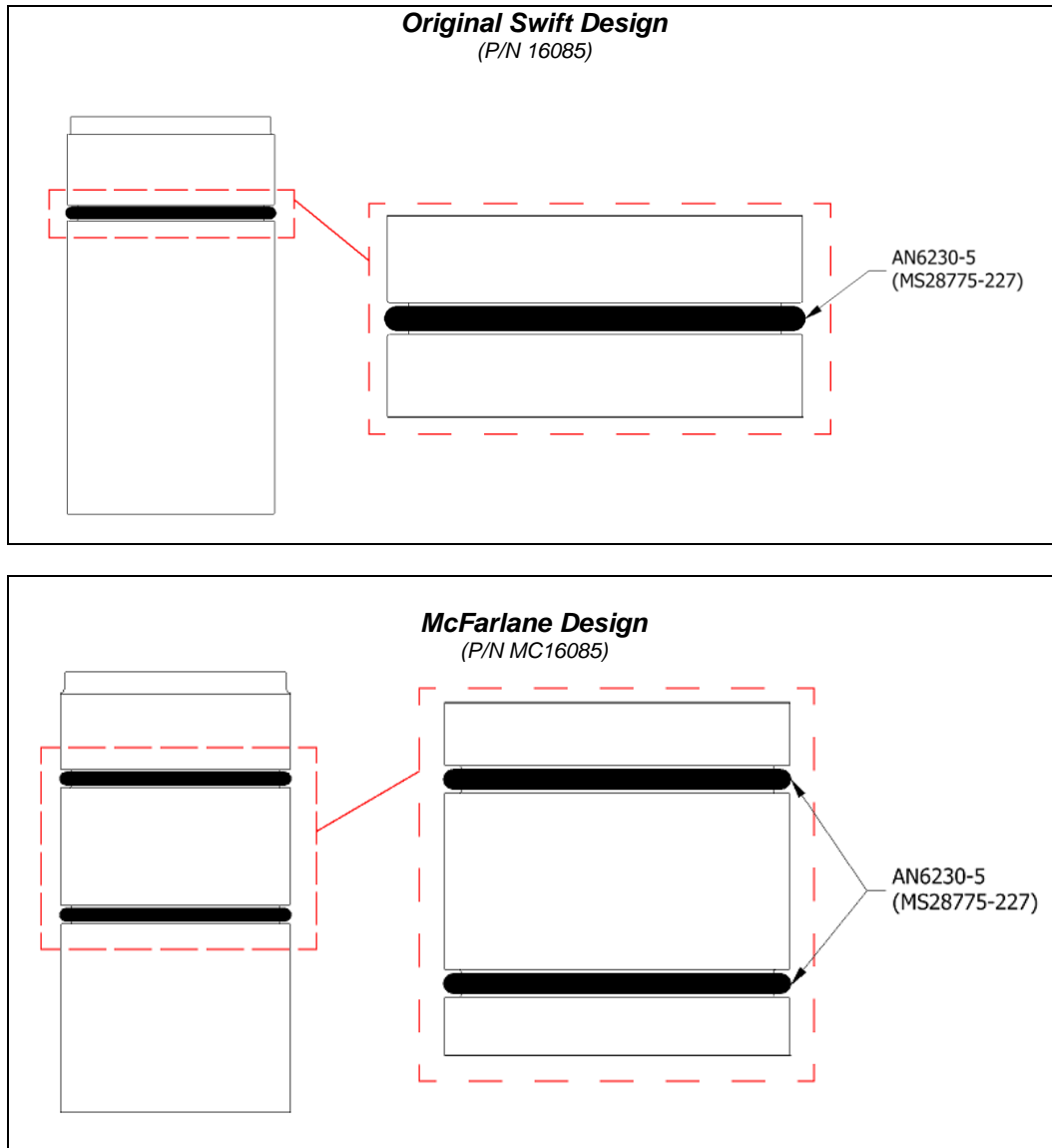


Figure 1: Comparison of Swift P/N 16085 and McFarlane P/N MC16085

The new PMA sleeve for installation on Swift GC-1A and GC-1B main landing gear struts promotes better sealing through the addition of a second O-ring to seal where there is less potential corrosion in the trunnion assembly. Both of the O-rings used on the PMA sleeve use the same O-ring P/N as the original design to keep installation steps the same.

SPECIAL OPERATING INFORMATION

The control and operation of the nose strut does not change with the installation of the Sleeve; see applicable Swift/GC-1A and GC-1B Service Manual for the operational control of this system.

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PART REMOVAL, REPLACEMENT, AND SERVICE INFORMATION

Remove the old Sleeve and install the McFarlane Sleeve per the applicable Swift GC-1A and GC-1B Service Manual.

Refer to the applicable Swift GC-1A and GC-1B Service Manual for installation/maintenance instructions and the applicable Swift Illustrated Parts Catalog for component part numbers.

The following exceptions to the Swift instructions, specific to the McFarlane parts, apply:

1. Before inserting the nose strut into the trunnion assembly, place one AN6230-5 (MS28775-227) O-ring in each outer groove of the sleeve as shown in Figure 1

TROUBLESHOOTING

Refer to the applicable Swift GC-1A and GC-1B Service Manual for troubleshooting instructions and the applicable Swift Illustrated Parts Catalog for component part numbers. See listing in Data Section below. For troubleshooting, refer to Figure 12 in The Swift 125/145 Airplane Parts Catalog.

PLACARDS

None applicable

DATA

All information to support the continued airworthiness of this replacement part is as defined herein and contained in:

- Relevant Swift GC-1A and GC-1B Service Manuals.
- The Swift 125/145 Airplane Parts Catalog.

INSPECTION

The inspection intervals for the Sleeve are not affected by the use of the McFarlane PMA sleeve. Refer to the Swift Service Manuals for inspection instructions.

RECOMMENDED OVERHAUL PERIODS

No additional overhaul time limitations exist with the use of these parts.

AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved. No additional airworthiness limitations exist.

ASSISTANCE & REVISIONS

ICA revisions shall be made available on the McFarlane website, www.mcfarlaneaviation.com/ICA. For questions or assistance regarding these Instructions for Continued Airworthiness (ICA), contact McFarlane Aviation, Inc via email or phone.

Email: engineering@mcfarlaneaviation.com

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