

## Service Bulletin SB-5

January 26, 2009

Procedures specified in this service bulletin must be accomplished in accordance with accepted methods of aircraft maintenance and applicable government regulations. Appropriate log book entries must be made.

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### SUBJECT

This service bulletin describes a defect existing in a number of McFarlane Aviation, Inc. manufactured cables.

### BACKGROUND

In the construction of some control cables, McFarlane Aviation uses 7 x 19 twisted wire cable certified to MIL-DTL-83420, an industry standard specification for flexible aircraft cable. This document specifies the composition of the wire strands as well as the specific construction details such as number of wires per strand and the direction the wire must twist as it is wrapped around underlying layers.

McFarlane Aviation was notified by one supplier of this cable that, due to a manufacturing error, some cable had been produced with a misaligned inner layer of wire (twisted in the wrong direction on the inner core). The affected cable has passed all strength, proof load, and endurance requirements of MIL-DTL-83420 per records of the cable manufacturer and McFarlane Aviation, Inc.

The effect that this discrepancy may have on the long term durability of these parts can not be precisely determined.

### PART NUMBERS AFFECTED

McFarlane P/N	Lot Number
MC0400107-21	20518
MC0400107-59	20481
MC0510105-224	20484
MC1260505-54	20480
MC33-524029	20532
MC62701-002	20557
MC62701-005	20823
MC62701-099	20711
MC62701-113	20653
MC62701-114	20560
MC62701-123	20558
MC62701-124	20483
MCNAS30424-1520	20533

All affected cables were shipped from McFarlane Aviation, Inc. between **12/2/2008** and **1/15/2009**.

In addition, the affected material was used in the construction of various cable assemblies manufactured to customer supplied data. These lot numbers are:

20688, 20687, 20717, 20619, 20587, 20551, 20588, 20528, 20522

### IDENTIFICATION METHODS

Aircraft service records must be reviewed to determine if a cable from the affected list has been previously installed.

### COMPLIANCE

Compliance is mandatory at the next scheduled aircraft maintenance. A qualified aircraft mechanic must perform the removal, reinstallation, and adjustment as per the aircraft service manual.

## **APPROVAL**

Technical portions are FAA approved.

## **ACCOMPLISHMENT INSTRUCTIONS**

1. Review aircraft records to determine if an affected cable has been installed in the aircraft.
2. Remove the identified cable and replace.
3. Readjust the flight control system.

**Note:** *All work must be done in accordance with the aircraft manufacturer's published service information.*

## **MATERIAL PRICE AND AVAILABILITY**

Replacement parts are available from McFarlane Aviation.

## **CREDIT INFORMATION**

McFarlane Aviation will issue a credit equal to the cost of the replacement cable upon receipt of the defective cable. In addition, McFarlane Aviation will pay \$125 per cable for removal and replacement. To qualify for replacement compensation, the removed cable must be returned. McFarlane will pay ground shipping for both the new cable and the return of the defective cable.

*Credit for the replacement cables and labor will be allowed until May 1, 2010.*

## **DISTRIBUTION**

This service bulletin has been distributed to all customers for whom McFarlane Aviation has sales records indicating the purchase of affected parts. All McFarlane Aviation service bulletins may also be found at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com). Please forward this urgent information to the current owner or operator of the affected aircraft. For further information or questions call (800) 544-8594 or (785) 594-2741. All persons are free to copy this bulletin if it is copied in its entirety with no alterations or additions.