## SERVICE BULLETIN NO. 9

SUBJECT: Elevator Control Cable Attachments.

REFERENCE: Service Letter No. 55

AIRCRAFT AFFECTED: All Maule Models.

COMPLIANCE: At option of Owner.

FAA APPROVED: Anenge

DATE: **JUN 1** 1 1992

STATUS: Service Letter No. 55, attached for reference, is a mandatory requirement for inspection of elevator cable attachments. This Bulletin covers parts replacement to relieve the inspection requirements of Service Letter No. 55 and is particularly recommended for floatplanes and any other Maules operating in a potentially corrosive environment.

<u>AUTHORITY</u>: This Service Bulletin is FAA approved.

BACKGROUND: See attached Service Letter No. 55 regarding the reported failure of an elevator cable turnbuckle.

ACTION TO BE TAKEN: Remove existing elevator cable turnbuckles and attachments. Install new turnbuckles and attachments per Page 2 or 3 of this bulletin. Note that the turnbuckles are the next larger size. Fasteners and other attachment details have been changed to corrosion resistant steel.

AVAILABILITY OF PARTS: The following parts required to perform this Service Bulletin can be procured from Maule Air, Inc.:

<u>Quan</u> .	Part No.	<u>Item</u>		
1 1 2 4 2 2 2 2 2 3 6 1	3262B-1 3263B-1 3264B-1 BM21255-C5RS MS21256-1	Fitting - Elevator Cable Shackle - Elevator Cable Bushing - Elevator Cable Eye End - Turnbuckle Clip		
2	MS21251-B5S	Body, Turnbuckle	(CRES = Corrosion	
2	BM21252-C5LS AN100C-4	Clevis End - Turnbuckle Thimble-Wire Cable, CRES	Resistant Steel	)
2	18-3-M	Nicopress Oval Sleeve		
3	AN960C10L	Washer, Flat (#10) Light, CRES		
6	AN960C10	Washer, Flat (#10) CRES		
1	AN310C3	Nut, Castellated (#10) CRES		
3	MS24665-151	Pin, Cotter (or AN381-2-2) CRES		
2	AN4C7	Bolt, $(\frac{1}{4})$ . CRES		
2	AN960C416	Washer, Flat $(\frac{1}{4})$ , CRES		
2	AN960C416L	Washer, Flat $(\frac{1}{4})$ , Light, CRES		
2	AN310C4	Nut, Castellated $(\frac{1}{4})$ , CRES		
2	AN3C5A	Bolt (#10), Corr. Res.		
3 2 2 2 2 2 2 1	AN365C1032	Nut, Elastic Stop (#10), CRES		
•	AN3C5	Bolt (#10), Corr. Res.		
	3097F	Elevator Control System (M-4)		
Dwg.	3174F	Elevator Control System (M-5 & up	p)	

# MAUJE AEROSPACE TECHNOLOGY, INC.

LAKE MAULE -:- RT. 5, BOX 318 -:- MOULTRIE, GA. 31768 -:- PHONE (912) 985-2045 -:- FAX: (912) 890-2402

#### SERVICE BULLETIN #9

### COMPLIANCE RECORD SHEET

Airplane Serial Number
Airplane Registration Number
The following action was taken with respect to this Service Letter:
New Elevator Cable Turnbuckles and Attachments have been installed in accordance with this Service Bulletin No. 9.
Please send parts required to perform this Service bulletin No. 9 to owner's address listed below. (Cost: \$157.00. Available approximately June 1.)
Not considered necessary.
I no longer own this aircraft. It was sold to:
Name
Address
CityStateZip
Certified By (Signature)
(Print Name)
Title (Owner, A & E, IA, etc.)
Date
In our effort to keep our mailing list current, please fill in the following:
Owner's Name
Owner's Address
CityStateZip
Please return this Compliance Record to: Maule Aerospace Technology, Inc./ Engineering Records/ R#5 Box 318/Moultrie, GA 31768

## IT'S PERFORMANCE THAT COUNTS!

## MAULE AEROSPACE TECHNOLOGY, INC

LAKE MAULE -:- RT. 5, BOX 318 -:- MOULTRIE, GA. 31768 -:- PHONE (912) 985-2045

#### **SERVICE LETTER #55**

Page 1 of 2 May 1991

SUBJECT: Elevator Control Cable System Turnbuckles.

AIRPLANES AFFECTED: All Model Maules.

1) Occurrence is most likely - Floatplanes operating on saltwater.

2) Occurrence is next likely - Floatplanes on brackish or fresh water.

3) Occurrence is possible - Landplanes located near saltwater.

4) Occurrence is least likely - Landplanes located in dryer, less corrosive environments.

**COMPLIANCE:** Mandatory for (1) - (3) above, and highly recommended for (4).

STATUS: This Service Letter should be considered an early warning of a potential safety of flight problem. Further bulletins with recommended parts replacement for those airplanes operating in severe conditions will be issued as soon as possible. The new parts will be designed to reduce the possibility of corrosion in the affected area.

AUTHORITY: Maule Air, Inc.

BACKGROUND: Maule has received a report that the upper elevator cable turnbuckle failed adjacent to the elevator bellcrank on a floatplane in a tropical saltwater environment. The airplane had just landed and was on the water at the time of the failure.

### ACTION TO BE TAKEN AND MATERIAL REQUIRED:

All operators of Maule airplanes are requested to remove the fuselage inspection covers above and below the elevators and visually check the pivoting action at the control cable attachment points over the <u>FULL</u> range of elevator travel. This action should be such that there are no bending loads imparted to the turnbuckles (which are designed for straight tension load only). Any binding which causes bending of the turnbuckles should be removed. Any cable attachment parts which display appreciable corrosion must be replaced before further flight. Pivot points must be cleaned and lubricated with any lightweight lubricating oil. Following lubrication, the cable attachments, including the turnbuckles, must be heavily coated with a good preservative such as:

(Preferred)
Black Bear Paralketone
Black Bear Company
Long Island City, New York

LPS 3 Heavy Duty Rust Inhibitor LPS Laboratories, Inc. Tucker, Georgia

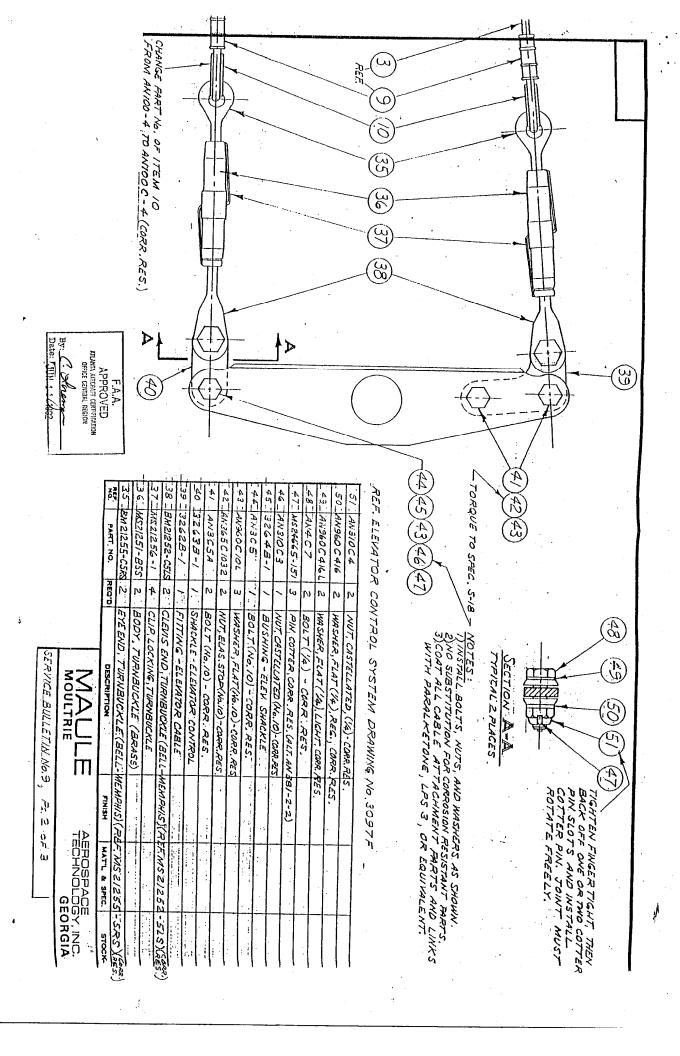
#### FREQUENCY:

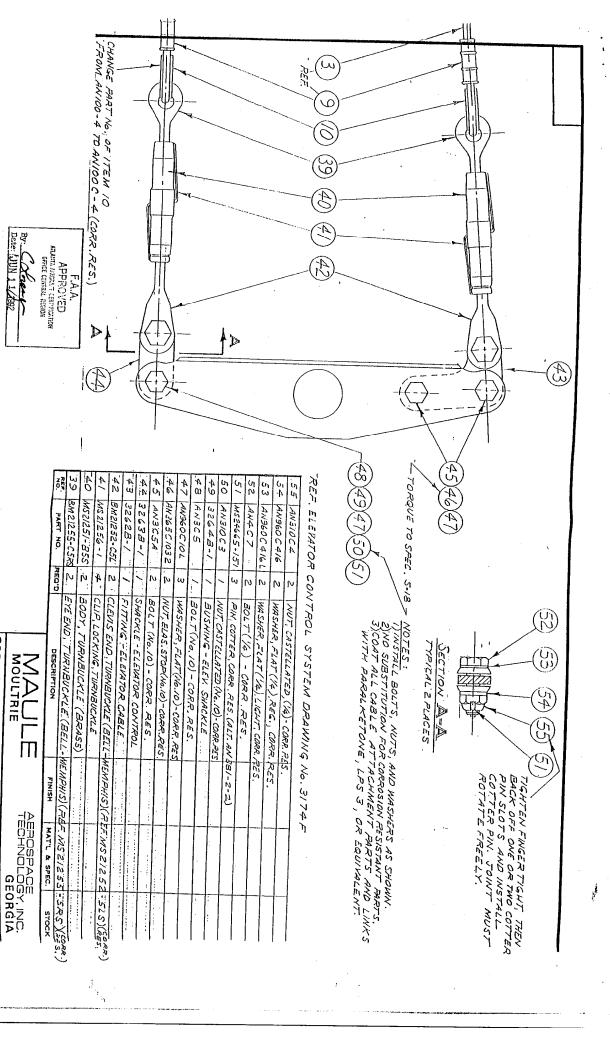
A) For airplanes in category 1 under "AIRPLANES AFFECTED", the foregoing action must be accomplished before further flight and no more than every 30 days thereafter.

B) For airplanes in category 2 and 3, the foregoing action must be accomplished before the next 10 hours of flight and no more than every 60 days thereafter.

C) For airplanes in category 4, action is at the discretion of the operator, but no later than the first annual or 100 hour inspection and every annual or 100 hour inspection thereafter.

Return of the **Compliance Record** is requested for all aircraft operating in categories 1, 2, and 3 so that we can provide follow-up.





SERVICE BULLETIN No.S.

10000000