



Service Letter No. 64

FAA: *Cherry*
Date: JUN 26 2002

Page 1 of 2
Date: 6/20/02

SUBJECT: Forward Elevator Control Bellcrank Cable Shackle

AIRPLANES AFFECTED: Maule Models: M-4, M-5, M-6, M-7, MX-7, MXT-7, MT-7 and M-8 Series
Manufactured before 3/28/02

STATUS: This Service Letter should be considered a caution of a potential safety problem.

BACKGROUND: Maule has received a report that during a recent inspection of the forward elevator bellcrank assembly, some broken cable strands were found. These resulted from cable being pinched between the thimble and the bellcrank when the bellcrank travels to either full up or down position. A longer shackle is available to replace the existing shackle and will eliminate the problem.

COMPLIANCE: It is recommended that this Service Letter be complied with before further flight.

ACTION TO BE TAKEN AND MATERIAL REQUIRED:

- 1) Remove the front seats, floorboards and covers above the elevator bellcrank.
- 2) Leave yoke in full DOWN position: Note the gap between the cable where it is wrapped around the thimble and the bellcrank – they should not touch.
- 3) Check the gap in full UP position. Check both cables for possible broken strands.
- 4) If cables do not contact the bellcrank and are in good condition no further action is required.
- 5) If cables are in good condition but contact the bellcrank, it is recommended that the existing shorter shackles, p/n AN115-16 be replaced with new longer shackles, p/n 3276. Readjust cable tension in accordance with Maule Spec. S-14. NOTE: If the cable length is increased beyond the turnbuckle adjustment, cable replacement is required per Maule drawing 3097F (for M-4 series) or 3174F (for all other models). Adjust cable tension in accordance with Maule Spec. S-14.
- 6) If cables have wear or broken strands, replace the shorter existing shackles, p/n AN115-16 with new longer shackles, p/n 3276 and replace cables per Maule drawing 3174F or 3097F, as appropriate. Adjust cable tension in accordance with Maule Spec. S-14.

Material as required:

			<u>Total cost:</u>
2 each	3276	Cable Shackle – Elevator Bellcrank	\$30.00
2 each	3174F-3	Cable – Elevator Control	\$55.00
2 each	AN960-416	Washer	\$00.10
2 each	AN960-416L	Washer	\$00.05
2 each	AN3-6	Bolt (Required with longer shackle)	\$00.45
1 each	S-14	Maule Spec. Sheet	N/C
1 each	Dwg 3174F or 3097F, as appropriate	Elevator Control System	N/C

- 7) Note compliance with this service letter and method of compliance in aircraft logbook.

