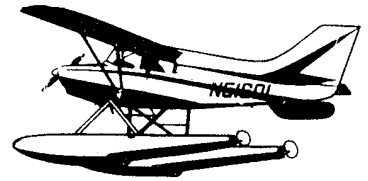


Maule Aircraft Corporation

SPENCE AIR BASE :: MOULTRIE, GEORGIA 31768 :: PHONE 912/985-2045



10 March 1983
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Rev. A dated: 9/3/86

SERVICE LETTER #48

SUBJECT: New Flap Ratchet.

AIRCRAFT AFFECTED: MAULE Model M-5-220C, Ser. No. 5001C thru 5057C.

COMPLIANCE: Optional.

AUTHORITY: This Service Letter is FAA Approved.

BACKGROUND: Many MAULE owners have requested increased flap travel for their airplanes. The new flap ratchet allows 5° - 8° more travel at each setting. There is also available an alternate lever which is bent upward. This allows more clearance under the lever for easier grasping. Either unit can be used separately.

MATERIAL REQUIRED:

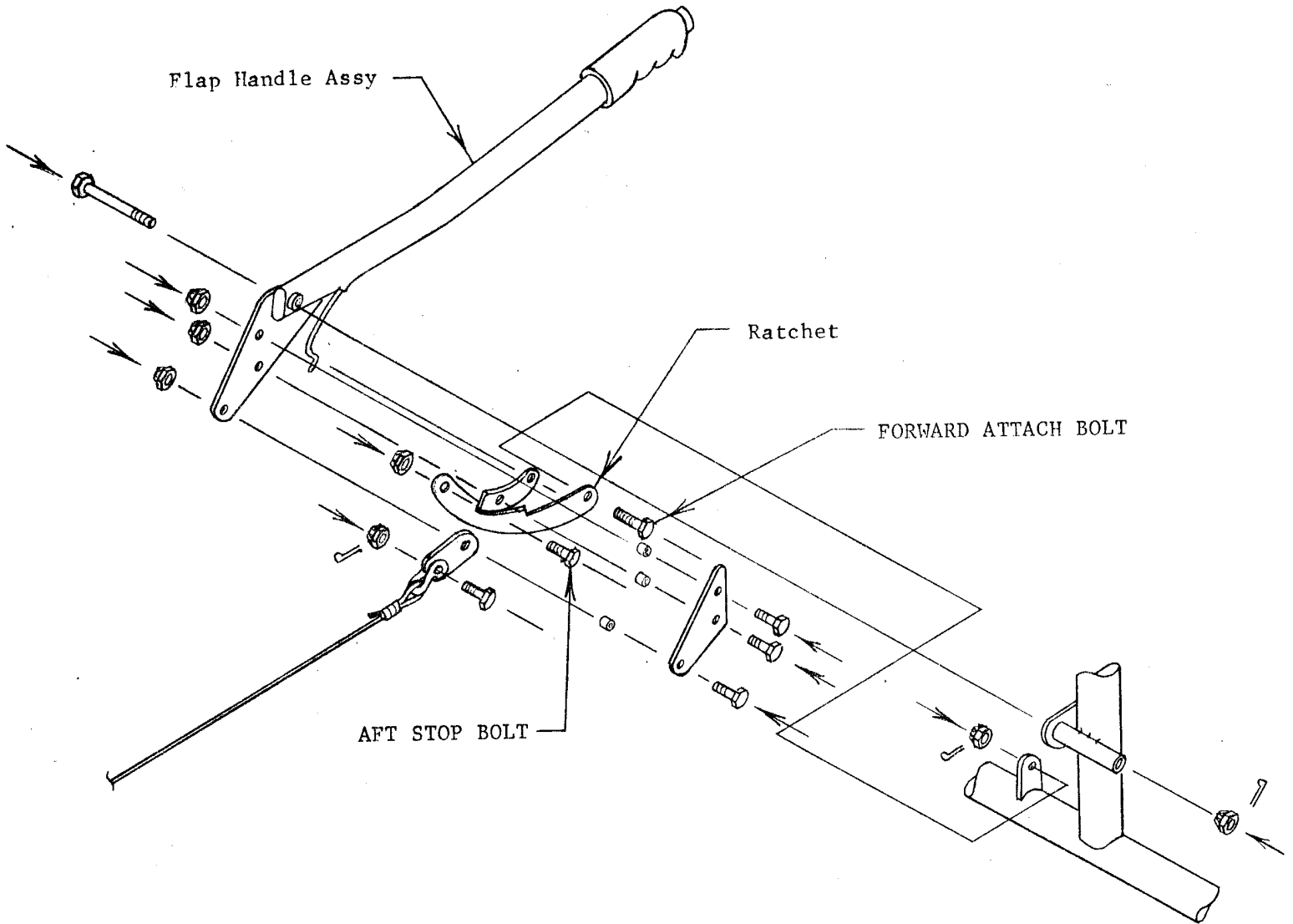
- (1) Flap Ratchet p/n 3207B
- (1) Alternate Flap Lever Assembly p/n 3058F-28 (opt.)
- (1) Flap Handle Placard (20°-40°)
- (1) Installation Sketch

INSTALLATION INSTRUCTIONS AND ACTION TO BE TAKEN:

1. Remove left front seat.
2. Remove control cover (ref. Item 6, Group C-4 of Parts Catalog)
3. Remove old ratchet: (See Sketch on page 2)
 - (a) Remove forward ratchet attach bolt and nut.
 - (b) Remove aft stop bolt and nut.
 - (c) Slide ratchet forward thru plates of flap handle assembly.
4. Install new ratchet:
 - (a) Slide ratchet aft thru plates of flap handle assembly.
 - (b) Install forward attach bolt and nut and secure with cotter pin.
 - (c) Install aft stop bolt and nut removed from old ratchet.
NOTE: 20°-40° ratchet has forward stop bolt and nut deleted.
 - (d) Operational check flap system.
5. Reinstall control cover.
6. Reinstall left front seat.
7. Remove 15°-35° placard from flap handle and apply new placard.
8. Remark Airspeed Indicator: Extend white arc from 56 to 48 mph by applying white tape over instrument glass. Add slippage mark by painting a thin white line over glass and bezel.
9. Attach AFM Supplement No. 4 to FAA approved Airplane Flight Manual dated 28 December 1973.
10. COMPLY WITH MAULE SERVICE BULLETIN #7 concerning fuel crossover supply line under front seats. (AD#86-17-11)

SERVICE LETTER # 48
INSTALLATION INSTRUCTIONS

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When modification is complete, make proper Log Entry, fill out Service Letter #48 Compliance Record Sheet and return to Maule Engineering Records.

MAULE AIRCRAFT CORPORATION

SERVICE LETTER #48 - COMPLIANCE RECORD

Airplane Serial Number _____

Airplane Registration Number _____

The following action was taken with respect to this service letter:

Service Letter # 48 completed

Certified by _____
(Signature)

(Printed name)

Title _____
(Owner, A&P, IA, etc.)

Date performed _____

In an effort to keep our mailing list current for sending service bulletins, service letter, etc., please fill in the following:

Owner's name _____

Owner's address _____

Mail this compliance record to: Maule Aircraft Corporation
Engineering Records
Spence Field
Moultrie, GA 31768

MAULE AIRCRAFT CORPORATION

AIRPLANE FLIGHT MANUAL

MAULE M-5-220C

Page ii

LOG OF SUPPLEMENTS

SUPP. NO.	NO. OF PAGES	DESCRIPTION	APPROVAL DATE
1	2	Inst. of EDO 248A2440 or 248B2440 Floats - Maule Dwg 9080A .	06/27/74
2	3	Installation of Fluidyne C2200H - Maule Drawing 9021X .	04/02/75
3	2	Flight operation with either one (not both) of the Front doors removed .	08/20/02
-	3	Installation of Pee Kay 2300 Floats .	03/02/77
-	3	Installation of Aqua 2400 Floats .	07/20/77
4	2	Installation of 20°/40° Flap Ratchet Maule p/n 3207B.	04/01/83
5	2	Inst. of 20°/40° Flap Ratchet and 2500# Upgross modification.	03/21/84
-	2	Operation of aircraft when M-5 Wing Assemblies 2110X-30 (with 2167X Main Fuel Tanks) are installed - Maule Mod Kit No. 15 .	10/08/96
7	8	Inst. of EDO 248B2440 Floats @ 2500# GW - Maule Dwg 9173A .	12/08/98
8	6	Installation of S-TEC System 55 Two Axis Autopilot Model ST-620 (14v) per Maule Drawing 9196A , Rev. A or later. (Land)	04/04/00
9	6	Installation of S-TEC System 55 Two Axis Autopilot Model ST-620 (14v) - Maule Drawing 9196A , Rev. A or later. (Sea)	04/04/00
10	9	Installation of S-TEC System 20 Single Axis Autopilot Model ST-810-20 (14v) - Maule Drawing 9197A , Rev. B or later. (Land)	03/20/00
11	9	Installation of S-TEC System 20 Single Axis Autopilot Model ST-810-20 (14v) - Maule Drawing 9197A , Rev. B or later. (Sea)	03/20/00
12	7	Installation of S-TEC System 40 Single Axis Autopilot Model ST-418-40 (14v) - Maule Drawing 9193A , Rev. C or later.	10/29/01
-	5	Installation of Apollo MX20 Multi-Function Display - Maule Drawing 7265A .	08/15/02

Maule Aircraft Corporation

SPENCE AIR BASE -- MOULTREE, GEORGIA 31768 -- PHONE 912/985-2045



FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT NO. 4

FOR

MODEL M-5-220C

Reg. No. _____

Ser. No. _____

This Supplement must be attached to the FAA Approved Airplane Flight Manual dated 28 December 1973 when ratchet p/n 3207B is installed in accordance with Maule Service Letter #48.

The information contained herein supersedes and supplements the information of the basic Airplane Flight Manual; for limitations, procedures and performance information not contained in this Supplement, consult the basic Airplane Flight Manual.

FAA APPROVED:

Thomas C. Stetley
Acting Manager, Atlanta Aircraft Certification
Office, FAA, Central Region

DATE: _____

APR 1 1983

MAULE AIRCRAFT CORPORATION

MOULTRIE, GEORGIA

AFM SUPPLEMENT NO. 4

M-5-220C

I. LIMITATIONS

F. Airspeed Limits: (CAS)

NOTE: Airspeed Instrument Markings and their significance:

- (d) WHITE arc denotes speed range in which flaps may be safely lowered; 48 mph (42K) CAS is stall speed with flaps 40°, power off at 2300 lbs.

II. PROCEDURES

A. Normal Procedures

1. Wing Flap Settings:

Takeoff - Normal	20°	(First Notch) (0° permissible)
- Shortfield	40°	until safely airborne, then retract to 20°

Normal Climb and Cruise 0°

Landing 40° (Second Notch) (0° or 20° permissible)

3. Best Rate of Climb Speed: 90 mph (CAS) at sea level, 0° flaps.
Best Angle of Climb Speed: 75 mph (CAS) at sea level, 20° flaps.

FAA APPROVED

DATE: 1 APR 1983

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