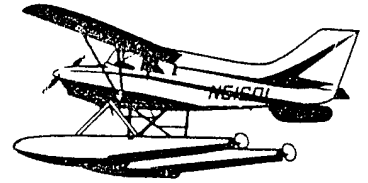


# Maule Aircraft Corporation

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



20 July 1982  
Page 1 of 3

## SERVICE LETTER #46

SUBJECT: New Flap Ratchet.

AIRCRAFT AFFECTED: MAULE Model M-5-210C, Ser. No. 6001C thru 6206C.

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:

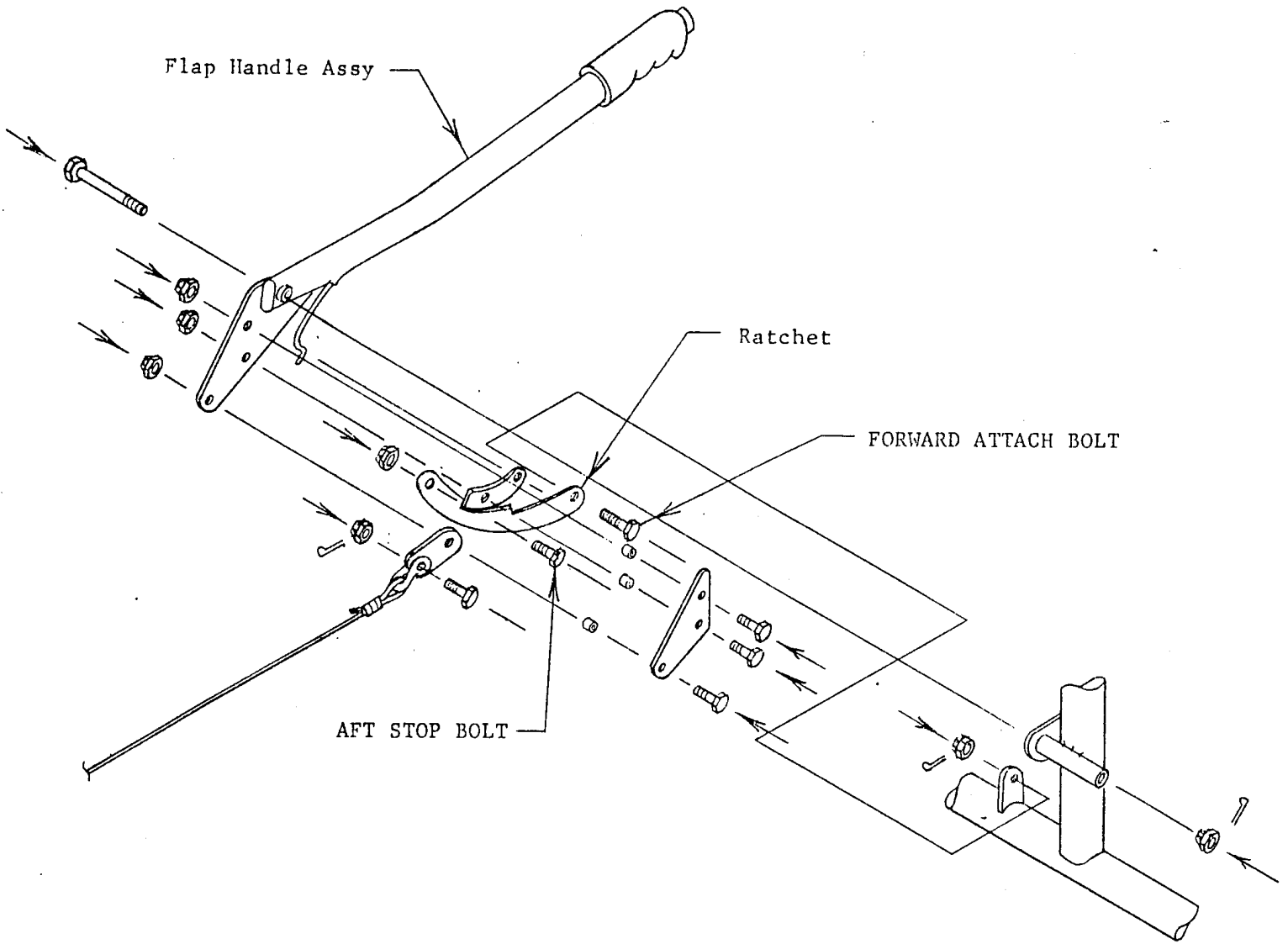
- (1) Flap Ratchet p/n 3207B
- (1) Alternate Flap Lever Assembly p/n 3058F-28 (opt.)
- (1) Flap Handle Placard (20°-40°)
- (1) Installation Sketch

### 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:
  - (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. 5 to FAA approved Airplane Flight Manual dated 28 December 1973.

When modification is completed, make proper log entries, fill out Service Letter #46 Compliance Record Sheet and return.

SERVICE LETTER # 46  
INSTALLATION INSTRUCTIONS



MAULE AIRCRAFT CORPORATION

SERVICE LETTER # 46 - COMPLIANCE RECORD

Airplane Serial Number \_\_\_\_\_

Airplane Registration Number \_\_\_\_\_

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

Service Letter #46 completed

Certified by \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed name)

Title \_\_\_\_\_  
(Owner, A&P, IA, etc.)

Date performed \_\_\_\_\_

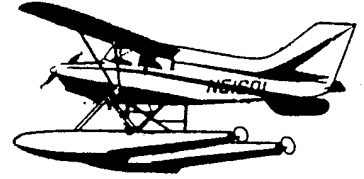
In an effort to keep our mailing list current for sending service bulletins, service letter, etc., please fill in the following:

Owner's name \_\_\_\_\_

Owner's address \_\_\_\_\_

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

*Maule Aircraft Corporation*  
SPENCE AIR BASE :: MOULTREE, GEORGIA 31768 :: PHONE 912/985-2045



FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT NO. 5

FOR

MODEL M-5-210C

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 No. 46.

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:

*John R. James*  
\_\_\_\_\_  
Manager, Atlanta Aircraft Certification Office, FAA, Central Region

DATE:

*Mar. 11, 1983*  
\_\_\_\_\_

MAULE AIRCRAFT CORPORATION

MOULTRIE, GEORGIA

AFM SUPPLEMENT NO. 5

M-5-210C

I. LIMITATIONS

The following limitations must be observed in the operation of this Airplane:

F. Airspeed Limits: (CAS)

NOTE: Airspeed Instrument Markings and their significance:

(d) WHITE arc denotes flap operating range, 48 - 94 mph (42 - 82K): Extends from full flap, power off minimum steady flight speed at 2300 lbs. From ( $V_{SO}$ ) to the maximum flaps extended speed ( $V_{FE}$ ).

II. PROCEDURES

A. Normal Procedures

1. Wing Flap Settings:

Takeoff - Normal - 20° (First Notch). No-Flap (0°) takeoff permissible  
- Shortfield - 40° (Second Notch) until safely airborne, then retract to 20°

Normal Climb - 0°

Best Angle Climb - 20°

Landing - 40° (0° or 20° permissible)

3. Best Rate of Climb - 90 mph CAS, no flaps

Best Angle of Climb - 75 mph CAS, 20° flaps