



SUBJECT: 430018-1 Hybrid Elevator Weights on Mooney Aircraft with Smooth Skin Elevators per Mooney Service Bulletin M20-345A.

MODELS/ SN AFFECTED: M20C, M20D, M20E, M20F, M20G serial numbers 680170 or earlier.

TIME OF COMPLIANCE: **USE IN ACCORDANCE WITH SERVICE BULLETIN M20-345A**

INTRODUCTION: There are specific M20F aircraft with smooth skin elevators 430000-503 (LH), 430000-504 (RH) identified with 9 rib lines, that utilized a hybrid material elevator balance weight. These weights (P/N 430018-1) are identified by the center plug made of chromoly tubing and lead running through the full width of the balance weight. During routine maintenance at an Authorized Mooney Service Center, the elevator balance weights were found to have developed galvanic corrosion, visible signs of the weight is cracked and displaced severely. There have been several instances of this anomaly reported only on M20F aircraft using this hybrid balance weight. Based on original service center discoveries and field reports from the initial released version of this service bulletin, Mooney engineering requests that all 430018-1 hybrid weights be removed and replaced with the 430016-7 lead weights.

If the balance weight is determined to be a hybrid weight 430018-1, and initial inspection per Mooney Service Bulletin M20-345A shows no sign of cracking or chipping, the attached Temporary Change Notice will be required for continued flight, until the 430018-1 balance weight has been replaced per Mooney Service Bulletin M20-345A, refer to **FIGURE SIM20-145-1 and FIGURE SIM20-145-2.**

WARRANTY: N/A

REFERENCE DATA:

1. Mooney Service Bulletin M20-345A (or later FAA Approved Revision)
2. Mooney POH-001194 Issued September 1966, Revised March 1967

PARTS LIST: **Service Instruction Kit - N/A**



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**AIRPLANE OWNER'S MANUAL
TEMPORARY CHANGE NOTICE**

**JANUARY)#, 2023
REVISION IR**

Title: TCN22-001 Elevator Weights 430018-1

Effectivity: M20F: Per SB M20-345A (all serial numbers 680170 or earlier)

Instructions: M20F (POH-001194) Issued: September 1966 Revised March 1967 insert between pages 20 and 21.

Reason for Change: There are specific M20F aircraft with smooth skin elevators 430000-503 (LH), 430000-504 (RH) identified with 9 rib lines, that utilized a hybrid material elevator balance weight. These weights (P/N 430018-1) are identified by the center plug running through the full width of the balance weight. During routine maintenance at an Authorized Mooney Service Center, the elevator balance weights were found to have developed galvanic corrosion, visible signs of the weight is cracked and displaced severely

Changes to PART I: DESCRIPTION AND OPERATION OF COMPONENTS . . . No Effect

Changes to PART II: FLIGHT PROCEDURES See Below:

PRE-FLIGHT INSPECTION

3A. Check Elevator weights for signs of cracking or chipping (see Reason for Change above). If cracking or chipping is found, DO NOT FLY until further inspection has been performed. Reference Mooney service bulletin M20- 345A or later FAA Approved revision for details.

Changes to PART III: SERVICE AND MAINTENANCE No Effect:

Changes to PART IV: PERFORMANCE DATA No Effect

Changes to PART V: OPERATING LIMITATIONS No Effect

Authorization to Remove this TCN from the Owner's Manual:

This TCN is in effect until 430018- 1 Elevator Weights have been replaced. Reference Service Bulletin M20- 345A or later FAA Approved revision.

TCN 23- 001
Rev: IR

AIRPLANE OWNER'S MANUAL
ADDENDUM

TRIM LINE

TRIM LINE


Figure SIM20-145-1 - TEMPORARY CHANGE NOTICE



**AIRPLANE OWNER'S MANUAL
TEMPORARY CHANGE NOTICE**

**JANUARY 03, 2023
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AIRPLANE OWNER'S MANUAL
ADDENDUM

TCN23-001
Rev: IR

TRIM LINE

TRIM LINE

Figure SIM20-145-2 - TEMPORARY CHANGE NOTICE



MOONEY INTERNATIONAL CORPORATION

KERRVILLE, TEXAS 78028 - FAX 830-257-4635

SERVICE (BULLETIN) (INSTRUCTION) NO. SIM20-145 HAS BEEN COMPLIED
WITH ON AIRCRAFT MODEL _____ SERIAL NUMBER _____

Tach. Time: _____ N-Number _____ (Reg. No.)

Owner: _____ Date of Compliance: _____

Complied By: _____

Inspection Report: _____

Form 07-0001

PLACE
STAMP
HERE

MOONEY INTERNATIONAL CORPORATION

ATT'N: TECHNICAL PUBLICATIONS DEPT

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Kerrville, Texas 78028

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