

MOONEY AIRCRAFT CORPORATION

LOUIS SCHREINER FIELD
KERRVILLE, TEXAS 78028

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR

MOONEY AIRCRAFT MODELS

M20M, M20R
WITH
3 PASSENGER, REAR, BENCH SEAT

MODEL NO. _____

REG. NO. _____

SERIAL NO. _____

This Supplement must be attached to the applicable FAA Approved Pilot's Operating Handbook and Airplane Flight Manual (POH/AFM) when the optional three (3) passenger, rear, bench seat is installed in accordance with Mooney Drawing number 140305 and 140333 or 940091. The information contained herein supplements or supersedes the basic manual only in those areas listed. For limitation, procedures and performance information not contained in this supplement, consult the basic Airplane Flight Manual.

FAA APPROVED:

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LOG OF REVISIONS

Revision Number	Revision Pages	Description of Revisions	FAA Approved	Date
B	All Pages	Deleted M20J & M20K application from all pages.	<i>[Signature]</i>	12-5-96

The revised portions of affected pages are indicated by vertical black lines in the margin.

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SECTION I - GENERAL

The optional, three occupant, rear, bench seat installation is designed to allow 3 passengers to occupy the rear seat compartment area when the weight of the combined passengers does not exceed 340 pounds. A third set of seat belt/restraints have been added for the security of a middle seat occupant. The original, lower, center, portions of the 2 occupant restraint system, are moved from their original near center, rear, location and relocated slightly outboard on LH & RH bracket assemblies to allow room for a middle occupant. A third shoulder harness/restraint is secured to the fuselage, overhead, center section for use by the middle seat occupant. When two adult size occupants are to be carried in the rear seat, the lower, center, restraint/belt systems are to be moved back to the original locations. Remove the added shoulder harness/restraint from the overhead, center attachment and stow. This configuration will accommodate two 170 pound occupants.

All weight and balance restrictions/requirements are to be adhered to in either occupancy configuration.

SECTION II - LIMITATIONS

THIS SUPPLEMENT MUST BE INSERTED INTO THE PILOT'S OPERATING HANDBOOK AND AIRPLANE FLIGHT MANUAL, SECTION IX, WHEN THE THREE PASSENGER, REAR, BENCH SEAT IS INSTALLED.

- When 3 occupants are to be carried in the rear seat, the following limitations are in effect:
- The weight of either LH or RH outboard occupants may not exceed 120 pounds each.
 - The weight of the middle seat occupant may not exceed 100 pounds.
 - The maximum total weight of all rear seat occupants may not exceed 340 pounds.

FLIGHT CREW

Pilot	One
Maximum passenger seating configuration	Four

PLACARD(S) REQUIRED

WARNING
WITH 3 PLACE SEAT INSTALLED
DO NOT EXCEED 340 LBS
(154.2 Kg) ON SEAT BACK

SEE AIRCRAFT LOADING SCHEDULE
FOR BAGGAGE COMPARTMENT ALLOWABLE.

Located on back of bench seat back (visible when seat back is folded down in cargo configuration).

SECTION III - EMERGENCY PROCEDURES

No Change to this Section.

SECTION IV - NORMAL PROCEDURES

BEFORE STARTING CHECK

Seats, Seat Belts/Shoulder Harness (One occupant per restraint). . ADJUST & SECURE*
* Relocate rear, inboard seat belts (buckle ends) per the following procedures, before allowing the third, rear seat passenger to occupy the middle seat:

- A. Un-snap LH & RH, inboard seat belts (buckle ends) from bolts at center bracket of rear seat bottom.
- B. Re-snap RH seat belt latch onto bolt, on RH bracket added for middle seat belt attachment, above middle seat restraint snap. Repeat for LH, center seat belt.
- C. Each outboard occupant will use the standard shoulder harness/restraint to attach their seat belt/restraints.
- D. The middle seat occupant will use the shoulder harness/restraint coming down from the center, overhead cabin structure.

SECTION V - PERFORMANCE

No change to this Section.

SECTION VI - WEIGHT AND BALANCE

PROBLEM FORM

Step 3. of Problem Form,Page 6-7, is modified to read as follows:

STEP	ITEM	WEIGHT		MOMENT		WEIGHT		MOMENT	
		(Kg)	LBS	(Kg)	LBS	(Kg)	LBS	(Kg)	LBS
3.	Left Rear Seat (#3)	(54.4)	120	(9.77)	8.48				
	Middle Rear Seat (#4)	(45.4)	100	(8.15)	7.1				
	Right Rear Seat (#5)	(54.4)	120	(9.77)	8.48				
	Rear Seat Cargo Area (Rear Seat Back Down)	(154.2)	340	(27.7)	24.03				

SECTION VII - SYSTEMS

CABIN

BAGGAGE COMPARTMENT

When the bench style, rear seat is installed, additional cargo space is available by:

1. Remove the rear seat bottom cushion, two head rests and two removable upper extensions of rear seat back.
2. Pull seat back release handle UP to move catch down. Pivot rear seat back down into seat cushion cavity.

SEATS

The bench style rear seat back has four (4) adjustment positions. There is no individual adjustment for each seat. The adjustment/release handle, located on forward spar, must be pulled UP to allow for seat back positioning.

CABIN (con't.)

SEAT BELTS/SAFETY HARNESS

The rear seat belts are fastened to two brackets attached to the baggage compartment floorboard, left and right side. The seat belt attachment points are located at the forward end of each bracket. The middle seat, seat belt, is added for the middle seat occupant. A shoulder harness/restraint is added to the center, overhead cabin structure for the middle seat occupant.

When three passenger, rear seat occupancy is desired, the inboard seat seat belts, (buckle ends) are to be disconnected from their original LH & RH center line bracket attach points and relocated to each new LH or RH bracket's attachment points. Position these seat belt snap fittings above the middle, seat belt snap fittings on the attachment bolts.

When two passenger, rear seat occupancy is desired, the seat belts (buckle ends) must be re-positioned to the original center bracket attach points.

The weight restrictions shown in Section II, LIMITATIONS, must be complied with when using the three occupant rear seat configuration.

SECTIONS VIII thru X

No Change to these Sections.

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