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WEIGHT AND CENTRE OF GRAVITY SCHEDULE

REF. NUMBER	LW 17074	Issue. 1
AIRCRAFT DESIGNATION	Mooney M20J	
NATIONALITY & REGISTRATION MARK	G - BJHB	
CONSTRUCTOR	Mooney Aircraft Corp.	
CONSTRUCTOR'S SERIAL NUMBER	24 - 1190	
MAXIMUM AUTHORISED WEIGHT	2,740 lb	

CENTRE OF GRAVITY LIMITS

Refer to Flight Manual

PART A: BASIC WEIGHT

The Basic Weight of the aircraft as calculated from LOADMASTERS Weighing

Report No 25AP17074 issue 1 ,dated 15-Apr-25 is: 1,857 lb

The Centre of Gravity of the aircraft in the same condition

at this weight and with the landing gear extended is: 46.10 inches aft of datum

The total moments about this datum in this condition are: 85,603 lb.in

Note: The datum is the one to which the limits in the Certificate of Airworthiness or Flight Manual refer and is defined as: 5.0 inches aft of the centreline of the nose gear support bolts and is station 0.00

The Basic Weight includes the weight of the total quantity of unusable fuel and full oil and the weight of the following items which comprise the list of Basic Equipment:-

- Radio - as listed in separate aircraft equipment list.
- Flight Instruments - as listed in separate aircraft equipment list.
- Fire Extinguisher
- First Aid kit
- Pilot & Co-Pilots Seats
- Pax Seats Row 2 x 2

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PART B: VARIABLE LOAD

The weight and lever arms of the crew and equipment which form the Variable Load for the particular role, are shown below.

ITEM	WEIGHT (lb)	ARM (in)	MOMENT (lb.in)
Pilot	actual	34.0 to 39.0	actual wt. x 34.0 to 39.0

PART C: LOADING INFORMATION (DISPOSABLE LOAD)

The appropriate lever arms are:-

ITEM	WEIGHT	ARM	MOMENT
Fuel Wing Tanks 64 USG	384 max. usable	48.40	actual wt. x 48.40
Front Passenger	actual	34.0 to 39.0	actual wt. x 34.0 to 39.0
Rear Passengers	actual	70.70	actual wt. x 70.70
Baggage in Baggage Compartment	120 maximum	95.50	actual wt. x 95.50
Baggage in Hatrack	10 maximum	119.00	actual wt. x 119.00

Fuel density is 6 lb/USG

Note: To obtain the total loaded weight of the aircraft, add to the Basic Weight the weights of the Variable and Disposable Load items to be carried for the particular role.

This schedule was prepared for and on behalf of **The Owners**
on 15-Apr-25 and supersedes all previous issues.

Signed



Nick Bottomley

For and on behalf of Loadmasters Ltd CAA Approval ref. AI/9901/04

Note: The Commander of the aircraft shall satisfy himself before take-off that the load is of such a weight and is so distributed and secured that it may safely be carried on the intended flight.

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Page 1 of 1		WEIGHING RECORD Ref No: 25AP17074			Issue: 1	
Aircraft: Mooney M20J		Registration: G - BJHB		Serial no: 24 - 1190		
Place: Denham (UK)		Date: 15-Apr-25		Weighed by: Nick Bottomley		
Equipment		Intercomp AC Series Platform Scales				
Aircraft Attitude		LEVEL				

2	6	10	11
1	5	9	12
	4	8	
	3	7	

As Weighed Aircraft Weighing Equipment Location:
Nose Wheel & Main Wheels

All Weights in lb								
Pos'n	ID No	Cal Due	Weight (Each Reaction)			Weight (Totals)	Arm in	Moment lb.in
1	960	Sep-25	592	594		614	-5.20	-3,193
2								
3								
4	413	Jul-25	815	813	803	1,627	66.00	107,382
5	404	Jul-25	834	834	824			
6								
7								
8								
9								
10								
11								
12								


	Weigh 1	Weigh 2	LEVEL
AS WEIGHED TOTAL	2,241	2,241	2,241
			46.49
			104,189

Total Subtractions	Usable Fuel 64 USG	384	48.40	18,586
Total Additions	Nil	0		0
AIRCRAFT WEIGHT		1,857	46.10	85,603

Remarks:

The Aircraft Weight with the fuel tanks empty (but including unusable fuel), engine oil full, systems primed and equipped as per: **London Denham Aviation** Task / Work Order Ref: **W/O # 2020-055**
and Check List dated **15-Apr-25** is **1,857 lb**
The Centre of Gravity (Arm) is **46.10** inches aft of the datum

Certified that the above mentioned aircraft has been weighed in accordance with the terms of the order applicable thereto and unless otherwise stated conforms fully to the standards/specifications quoted hereon and the requirement of the C.A.A or other regulating authority.

Signed: 

For and on behalf of Loadmasters Ltd CAA Approval ref. AI/9901/04
Form LM5.001, Issue 1