

CAA Identification No. \_\_\_\_\_ Airplane Serial No. \_\_\_\_\_ Date \_\_\_\_\_

1. WEIGHT LIMITS:

Maximum weight is 850 lbs.

It is the responsibility of the airplane owner and the pilot to insure that the airplane is properly loaded. The empty weight, empty weight C.G. and useful load are noted below for this airplane, as delivered from the factory. If the airplane is altered, refer to the latest Alteration & Repair Form (ACA-337) approved for this information.

2. C. G. LIMITS:

Approved C.G. operating limits are noted in the CAA Approved Airplane Flight Manual. See back side for Allowable Loading.

3. EMPTY WEIGHT & EMPTY WEIGHT C. G. LOCATION:

Actual weight empty, as weighed, Includes residual oil and unusable fuel 1.5 lbs. at (+ 58.7)

Item			
Left Main Wheel			
Right Main Wheel			
Nose Wheel			
Weight Empty as weighed			

Horizontal datum is front face of vertical tubes above nose gear mounting 25.19" fwd. of wing L.E. outboard of fillet; MAC is 43.9". L.E. MAC 25.3" aft datum. COMPUTATION: C.G. Forward of Main Wheels \_\_\_\_\_ x \_\_\_\_\_

\_\_\_\_\_ : C.G. aft datum = \_\_\_\_\_ = \_\_\_\_\_ ;  
As weighed C.G. ( \_\_\_\_\_ - 25.3) / 43.9 = \_\_\_\_\_ %MAC

Item	Weight	Arm	Moment
As weighed			
Ballast (fixed)			
Empty weight & C.G.			

4. USEFUL LOAD:

Maximum useful load is 850 - \_\_\_\_\_ = \_\_\_\_\_ Lbs. Useful load items are: Oil, 4 qts., 7.5 lbs. (-4.5); Usable fuel 13.5 Gal., 81.0 lbs. (58.7); Pilot, (37.0); Baggage, 40 lbs. (51.0), & 35 lbs. (70.0) Std. Airplane; 40 lbs. (51.0) with battery.

5. EQUIPMENT LIST:

The following equipment was installed as delivered from the factory and is included in the weight empty.

No.	Item (Check if applicable)	Lbs.	Arm
	Propeller, _____ (Alternate)		(-23.1)
	Propeller, Flottorp 65A66 (Std.)	8.5	(-23.1)
2	Main Wh.-brake Assemblies, 4.00x4, Mooney	10.5	( 47.7)
2	Main Wh. 6 ply tires, 4.00x4 Industrial, reg. tubes	10.5	( 47.7)
2	Main Wh. 4 ply tires 4.00x4 Industrial, reg. tubes	8.0	( 47.7)
	Nose Wheel Assembly, 4.00x4, Mooney W-2	2.7	(- 1.0)
	Nose Wheel 6 ply tire, 4.00x4 Industrial, reg. tubes	5.3	(- 1.0)
	Cabin Heater & Valve	.8	(- 6.0)
	Cabin Ventilator & Valve	.5	( 3.0)

	Lbs.	Arm
Upholstering	4.0	( 25.0)
Air Filter	.8	(-14.5)
Landing Gear Warning Signal	.6	( 11.0)
CAA Approved Flight Manual, dated _____		
Tail Cone 66-2	2.0	( 164.0)
Starter & Elec. Power Supply Install. Mooney 983	55.0	( 35.6)
Position & Instrument Lt. Install. Mooney 983	1.8	( 39.3)
Landing Light Install. Mooney 983	1.0	(-18.5)
Stall Warning Install. Mooney 854	.3	( 16.0)
Fixed Ballast		( 155.0)
Radio Installation		
_____		
_____		
Main Gear Doors, Mooney E.O. 208	3.5	( 47.7)
Aux. Gas Tank Dwg. 1049	10	( 51.0)

## NORMAL CATEGORY OPERATING LIMITS APPROVED RANGE 31.1 TO 34.4

## 6. MINIMUM WEIGHT LOADING:

Item	Weight	Arm	Moment
Weight Empty as Weighed			
Pilot	170	37.0	6290
Oil	7.5	-4.5	-34
Fuel (5½ Gallons) (Main)	33	58.7	1937
WEIGHT & C.G.			

## 7. GROSS WEIGHT FORWARD LOADING:

Weight Empty as Weighed			
Pilot	170	37.0	6290
Oil	7.5	-4.5	-34
Fuel ( _____ Gallons) (Main)		58.7	
_____			
Baggage Front Compt.		51.0	
Baggage Aft Compt.		70.0	
WEIGHT & C.G.			

## 8. GROSS WEIGHT MOST REARWARD LOADING:

Weight Empty as Weighed			
Pilot	170	37.0	6290
Oil	7.5	-4.5	-34
Fuel ( _____ Gallons) (Main)		58.7	
_____			
Baggage in Front Compt.		51.0	
Baggage in Aft Compt.		70.0	
WEIGHT & C.G.			

9. NOTE: IF USEFUL LOAD IS LESS THAN 231.5 LBS.  
Loading Placard Required

## LOADING SCHEDULE

The following loadings may be made with this airplane without exceeding weight or C.G. Limits.

170 Lb. Pilot _____ Gal. Usable	140 Lb. Pilot _____ Gal. Usable
160 Lb. Pilot _____ Gal. Usable	130 Lb. Pilot _____ Gal. Usable
150 Lb. Pilot _____ Gal. Usable	

Fuel may be replaced by baggage down to 5½ Gallons