

N809M

(c) Weighing - Airplane Basic Empty Weight

- (1) With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.

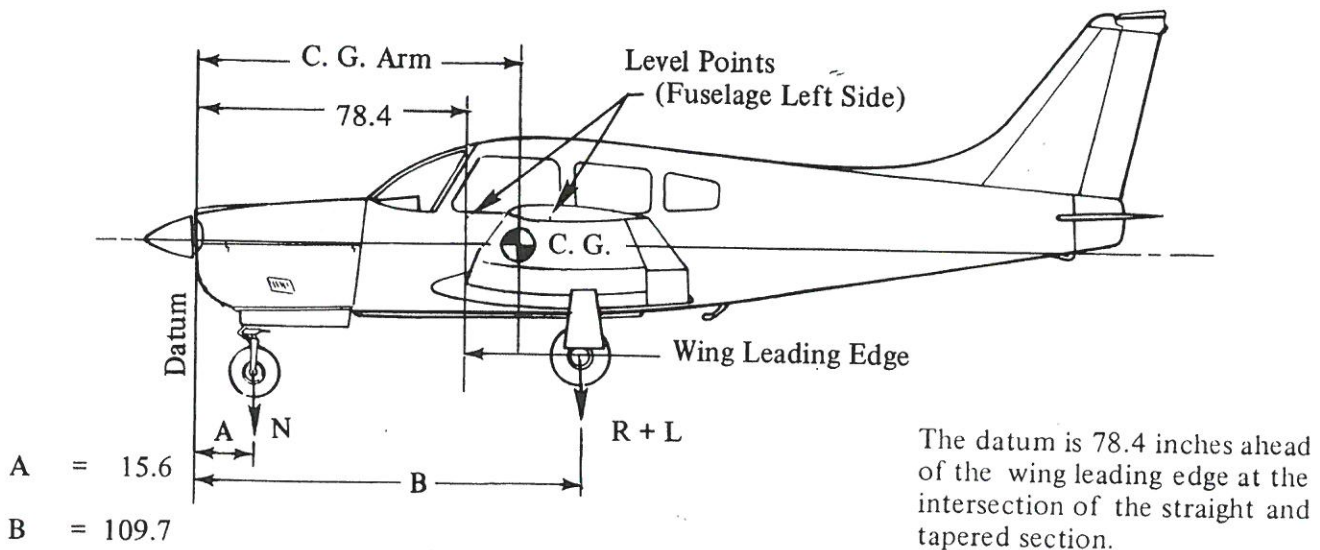
Scale Position and Symbol	Scale Reading	Tare	Net Weight
Nose Wheel (N)			
Right Main Wheel (R)			
Left Main Wheel (L)			
Basic Empty Weight, as Weighed (T)	— —	— —	

WEIGHING FORM

Figure 6-1

(d) Basic Empty Weight Center of Gravity

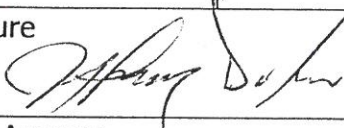
- (1) The following geometry applies to the PA-28R-201 airplane when it is level. Refer to Leveling paragraph 6.3 (b).



LEVELING DIAGRAM

Figure 6-3

Aircraft Weight and Balance Revision

Tail Number: N809M		Date: 11/19/15		
Prepared by: BERKSHIRE AVIATION		Work Order No: B1433		
		Type Certificate Data No: 2A13		
Aircraft Make: PIPER	Model: PA28R-201	Serial No: 28R-783701	Time: 1171	
Registered Owner: BERKSHIRE AVIATION		Address: 70 EGREMONT PLAIN RD GREAT BARRINGTON, MA. 01230		
Maximum Weight 2750		CG Range: FWD +82.0 AFT +91.5		
As Received; Date of Previous Weight and Balance: 1/26/11	Useful Load: 1005.97	EW: 1744.03	EWCG: 85.71	Moment: 149484.4
Notes:				
		Weight	Arm	Moment
TANIS HEAT INSTALLATION		+1	+16	16.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
<input checked="" type="checkbox"/> As Calculated <input type="checkbox"/> As Weighed		Moment <hr/> Weight	149500.40 1745.03	New Empty Weight CG 85.67
				New Useful Load 1004.97
Signature 				
Repair Agency or License No: BPGR558C				

SECTION 6
WEIGHT AND BALANCE

PA-28R-201, ARROW

6.7 WEIGHT AND BALANCE DETERMINATION FOR FLIGHT
(continued)

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passengers (Rear Seats)		118.1	
Fuel (72 Gallons Maximum)		95.0	
Baggage (200 Lbs. Maximum)		142.8	
Ramp Weight (2758 Lbs. Maximum)			
Fuel Allowance For Engine Start, Taxi, and Run-Up	-8	95.0	-760
Moment due to Retraction of Landing Gear			819
Takeoff Weight (2750 Lbs. Maximum)			

Totals must be within approved weight and C.G. limits. It is the responsibility of the airplane owner and the pilot to insure that the airplane is loaded properly. The Basic Empty Weight C.G. is noted on the Weight and Balance Data Form (Figure 6-5). If the airplane has been altered, refer to the Weight and Balance Record for this information.

WEIGHT AND BALANCE LOADING FORM

Figure 6-11

SECTION 6
WEIGHT AND BALANCE

PIPER AIRCRAFT CORPORATION
PA-28-181, ARCHER II

SECTION 6
WEIGHT AND BALANCE

PIPER AIRCRAFT CORPORATION
PA-28-181, ARCHER II

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passengers (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage (200 Lbs. Maximum)*		142.8	
Ramp Weight (2558 Lbs. Maximum) Allowance for engine start, taxi, and run-up	-8	95.0	-760
Total Loaded Airplane (2550 Lbs. Normal, 2130 Lbs. Utility Maximum)			

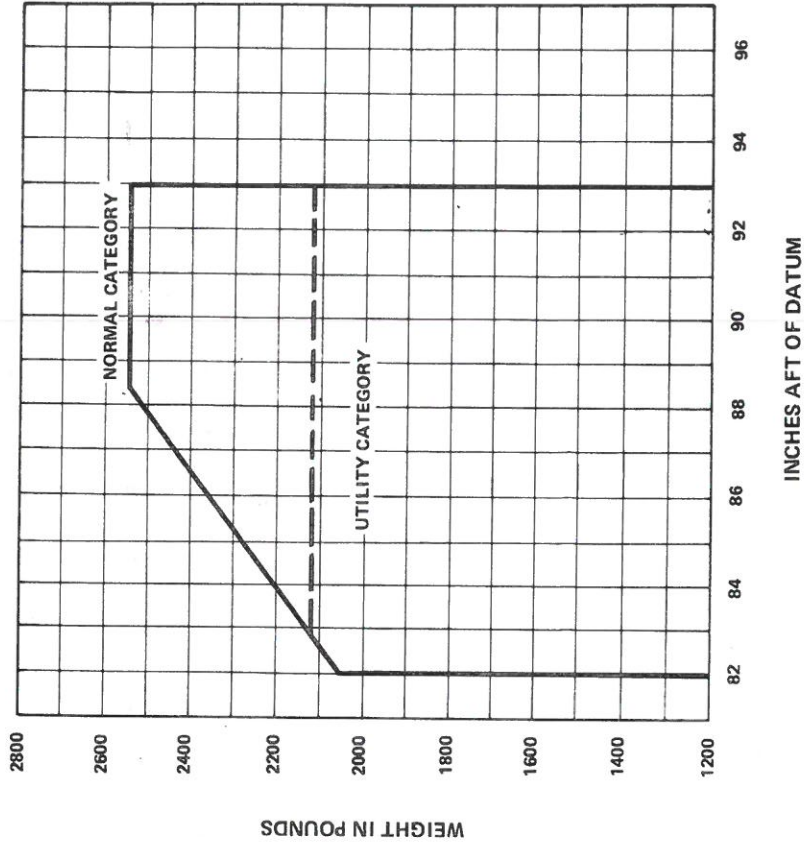
Totals must be within approved weight and C.G. limits. It is the responsibility of the airplane owner and the pilot to insure that the airplane is loaded properly. The Basic Empty Weight C.G. is noted on the Weight and Balance Data Form (Figure 6-5). If the airplane has been altered, refer to the Weight and Balance Record for this information.

*Utility Category Operation - No baggage or rear passengers allowed.

WEIGHT AND BALANCE LOADING FORM
Figure 6-11

REPORT: VB-1120
6-10

ISSUED: JULY 2, 1979
REVISED: JUNE 7, 1982



C.G. RANGE AND WEIGHT
Figure 6-15

REPORT: VB-1120
6-12

ISSUED: JULY 2, 1979