

**HIGH DESERT AVIONICS FAA#HD7R252J
WEIGHT AND BALANCE/SUPPLEMENTAL EQUIPMENT LIST**

Date: 03-14-2014
 A/C N# : N55028
 A/C Serial # : 28-7305295

Date of Previous Weight and Balance: 12-08-06

Previous useful load: 976.1

	Empty Weight	ARM	Moment
Removed:			
	1473	86.46	127437.67
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
total	1473		127437.67

Installed			
			0
GDC31 roll steering convertor	1	60	60
GDC31 coupler	0.6	60	36
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
	1.6		127533.67

New Empty Weight: 1474.6
 New Empty C.G. : 86.49
 Useful Load: 974.5



PREPARED	PIPER AIRCRAFT CORP. Development Center, Vero Beach, Fla.	Weight and Balance Data Model PA-28-180
CHECKED		
APPROVED	REPORT VB-439	PAGE 2 Section 1

C. G. RANGE AND WEIGHT INSTRUCTIONS

1. Add the weight of all items to be loaded to the licensed empty weight.
2. Use the loading graph to determine the moment of all items to be carried in the airplane.
3. Add the moment of all items to be loaded to the licensed empty weight moment.
4. Divide the total moment by the total weight to determine the C. G. location.
5. By using the figures of Item 1 and Item 4, locate a point on the C. G. range and weight graph. If the point falls within the C. G. envelope, the loading meets the weight and balance requirements.

SAMPLE LOADING PROBLEM (Normal Category)

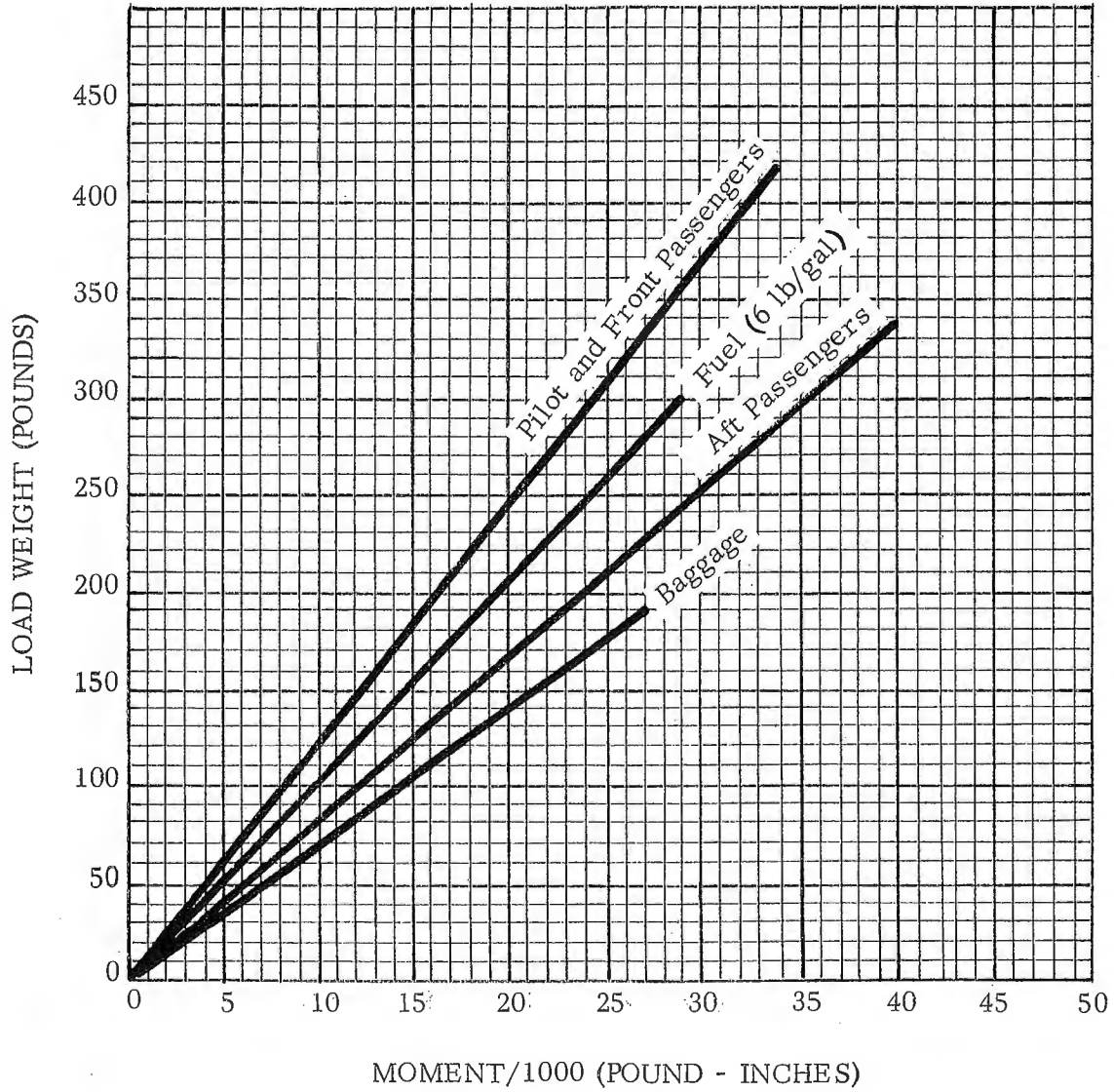
	Weight (lbs)	Arm Aft Datum (Inches)	Moment (In - lbs)
Licensed Empty Weight			
Oil (8 quarts)	15	27.5	413
Pilot and Front Passenger	340	80.5	27370
Passengers, Aft* (Rear Seat)	340	118.1	40154
Fuel (50 Gal. Maximum)		95.0	
Baggage *		142.8	
Total Loaded Airplane			

The center of gravity (C. G.) of this sample loading is at _____ inches aft of the datum line. Locate this point () on the C. G. range and weight graph. Since this point falls within the weight - C. G. envelope, this loading meets the weight and balance requirements.

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

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

LOADING GRAPH



PREPARED	PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.	Weight and Balance Data Model PA-28-180
CHECKED		
APPROVED	REPORT VB-439	PAGE 4 Section 1

C. G. RANGE AND WEIGHT

