

NEW empty
weight on
other sheet
attached



AIRCRAFT CORP.
NT CENTER, VERO BEACH, FLA.

Weight and Balance Data
Model PA-28-140L

REPORT VB-161

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WEIGHT AND WEIGHT INSTRUCTIONS

be loaded to the licensed empty weight.

mine the moment of all items to be carried in the airplane.

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.

NOTE: With optional jump seats installed, aft passenger weight is restricted only by airplane weight and balance limitations (See Page 4 of this section). For baggage allowance, see Page 2A of this section.

SAMPLE LOADING PROBLEM (Normal Category)

| | Weight (lbs) | Arm Aft Datum (Inches) | Moment (In - lbs) |
|---------------------------|-----------------|---------------------------|----------------------|
| Licensed Empty Weight | 1250.4 | 84.7 | 105,883 |
| Oil (8 quarts) | 15 | 32.5 | 488 |
| Pilot and Front Passenger | 340 | 85.5 | 29070 |
| Passengers, Aft * | | 117.0 | |
| Fuel (50 Gal. Maximum) | 300 | 95.0 | 28500 |
| Baggage * Area ① | | 117.0 | |
| Baggage * Area ② | | 133.3 | |
| Total Loaded Airplane | 2195 | | |

The center of gravity (C.G.) of this sample loading problem 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.
- Normal Category Operation - See Page 2A of this section.