



BOSHART ENTERPRISES
 AND AIRCRAFT SERVICES, INC.
 F.A.A. CRS # B2ER144J

GENESEE COUNTY AIRPORT
 BATAVIA, NY 14020
 (585) 344-1749
 (585) 344-4192

24-Jan-03

For Reference Only, Verify ALL DATA.

Owner Robert Courmoyer
 Address 759 Hightower Way
 Webster, N.Y. 14580-251

MANUFACTURER	MODEL	SERIAL NUMBER	REG. NUMBER
Piper	PA28-140	28-21618	USA N6437R

Previous Weight & Balance	DATED	WEIGHT	ARM	MOMENT
	9/11/92	1246.33	84.94	105864.28

EQUIPMENT REMOVED				
Narco VOA-4 CDI		-3.00	65.30	-195.90
Comant CI-505 Splitter		-0.20	54.50	-10.90
EQUIPMENT INSTALLED				
King KR22 Marker Beacon Receiver		0.40	64.00	25.60
TKM MG200 Glide Slope Receiver		1.20	55.50	66.60
TKM MC60 CDI		0.80	65.00	52.00
RAMI AV569 Marker Beacon Antenna		0.45	191.00	85.95
Comant CI-507 Splitter		0.20	54.50	10.90
TOTALS		1246.18	84.98	105898.53

Gross Weight= 2152.00
 EMPTY WEIGHT= 1246.18
 EMPTY WEIGHT C.G. = 84.98
 USEFUL LOAD= 905.82

REPAIR STATION #B2ER144J

x *MAE*

PREPARED	PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.	Weight and Balance Data Model PA 28-140
CHECKED		
APPROVED		PAGE 11 Section 1

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY. THE EMPTY WEIGHT C. G. IS FOR THE AIRPLANE AS DELIVERED FROM THE FACTORY. REFER TO FORM FAA-337 WHEN ALTERATIONS HAVE BEEN MADE.

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 weight 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 all weight and balance requirements.

Note: With Optional Jump Seats installed, aft passenger weight is restricted only by Airplane Weight and Balance limitations (See page 10 of this Section).
Baggage capacity is limited to 200 pounds by tiedown requirements.

SAMPLE LOADING PROBLEM (NORMAL CATEGORY)

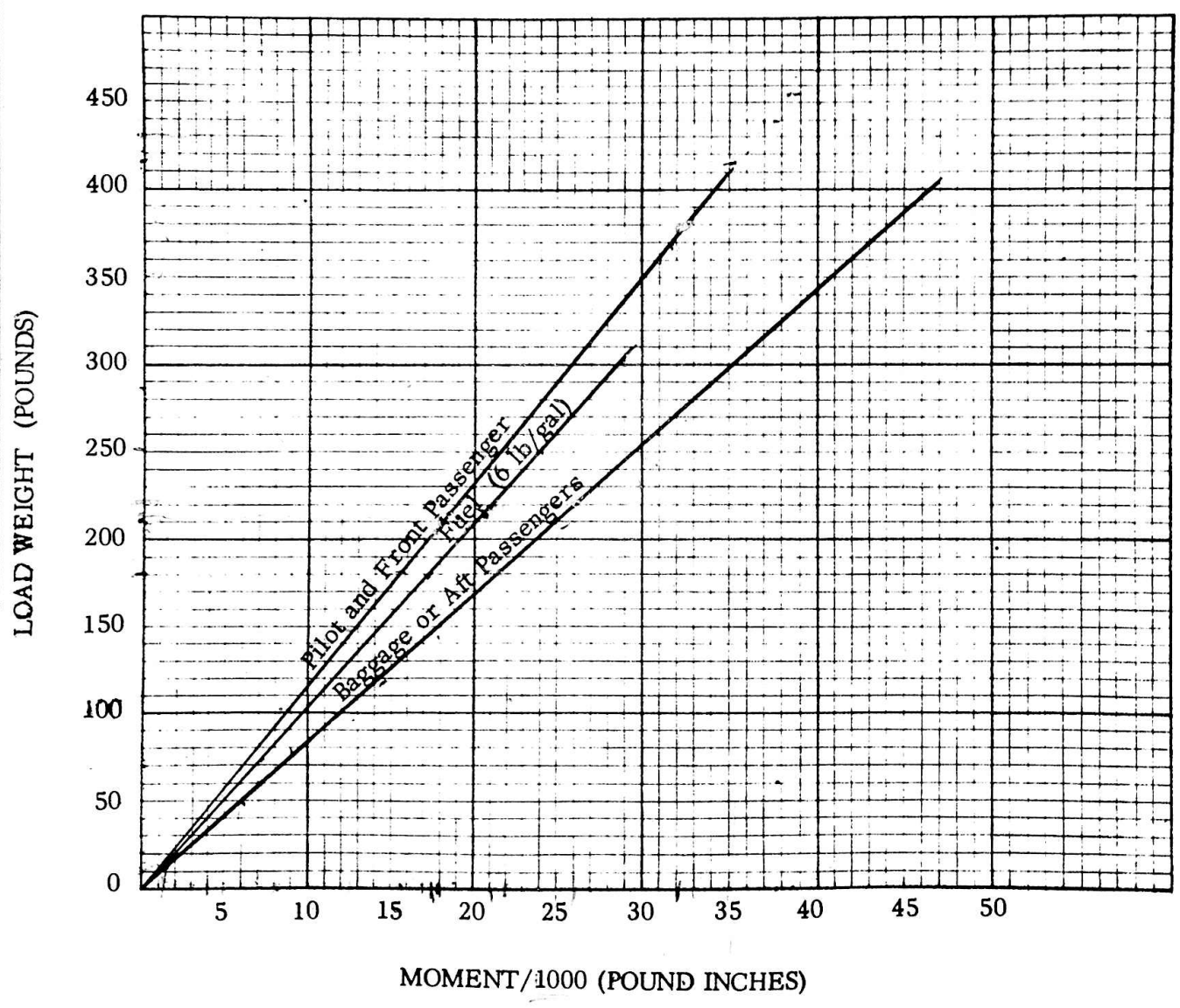
	WEIGHT (LBS.)	ARM AFT DATUM (INCHES)	MOMENT (POUND-INCHES)
LICENSED EMPTY WEIGHT	1273.0	84.8	107935
OIL (2 GAL.)	15	32.5	488
PILOT & PASSENGER	340	85.5	29070
PASSENGERS (AFT) *	340	117.0	39780
FUEL 30.3 gal.	182	95.0	17290
BAGGAGE *		117.0	

TOTAL LOADED AIRPLANE	2150	SEE LOGBOOK ENTRY 5-9-75	194563
		SEE LOGBOOK ENTRY 9-13-76	
		SEE LOGBOOK ENTRY 7-18-91	
	$\frac{194563}{2150} = 90.5$	INCHES (ARM AFT DATUM)	

LOCATE THIS POINT (90.5) ON THE C. G. RANGE AND WEIGHT GRAPH. SINCE THIS POINT FALLS WITHIN THE C. G. ENVELOPE THE LOADING MEETS ALL WEIGHT AND BALANCE REQUIREMENTS.

* UTILITY CATEGORY OPERATION - NO BAGGAGE OR AFT PASSENGERS ALLOWED.

LOADING GRAPH



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C. G. RANGE AND WEIGHT

