



3163 Airport Drive, Box 11
 Jamestown, NY 14701
 716-664-7700
 FAA CRS# DKZR372X

WEIGHT & BALANCE AND EQUIPMENT LIST REVISION

Work Order #: 6321
 Customer: Williamson Flying Club
 Address: PO Box 148
Williamson, NY 14589

Aircraft Make: Piper
 Aircraft Model: PA28-140
 Aircraft Serial #: 28-23369
 FAA Registration #: N9855W

Supersedes: W&B Dated Gross Weight Empty Weight CG Moment
7/10/13 2150 1275.15 85.20 108636.27

REMOVED EQUIPMENT

<u>Manufacturer</u>	<u>Description</u>	<u>Part Number</u>	<u>Serial#</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Bendix King	KT76A Transponder	066-1062-00	63623	3.50	63.60	222.60

INSTALLED EQUIPMENT

<u>Manufacturer</u>	<u>Description</u>	<u>Part Number</u>	<u>Serial#</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Garmin	GTX327 Transponder	011-00490-00	83743001	3.00	64.00	192.00
Garmin	GDL82 ADS-B Transmitter	010-01560-31	4PF002103	1.25	67.00	83.75
Garmin	GA35 WAAS gps antenna	013-00235-00	153918	0.50	92.00	46.00

<u>New Useful Load</u>	<u>New Empty</u>	<u>Total Change</u>	<u>New CG</u>	<u>New Moment</u>
873.60	1276.40	1.25	85.19	108735.42

Completed By: *ml*
 Revision to Weight and Balance dated: 7/10/13

Date: 10/5/18

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)

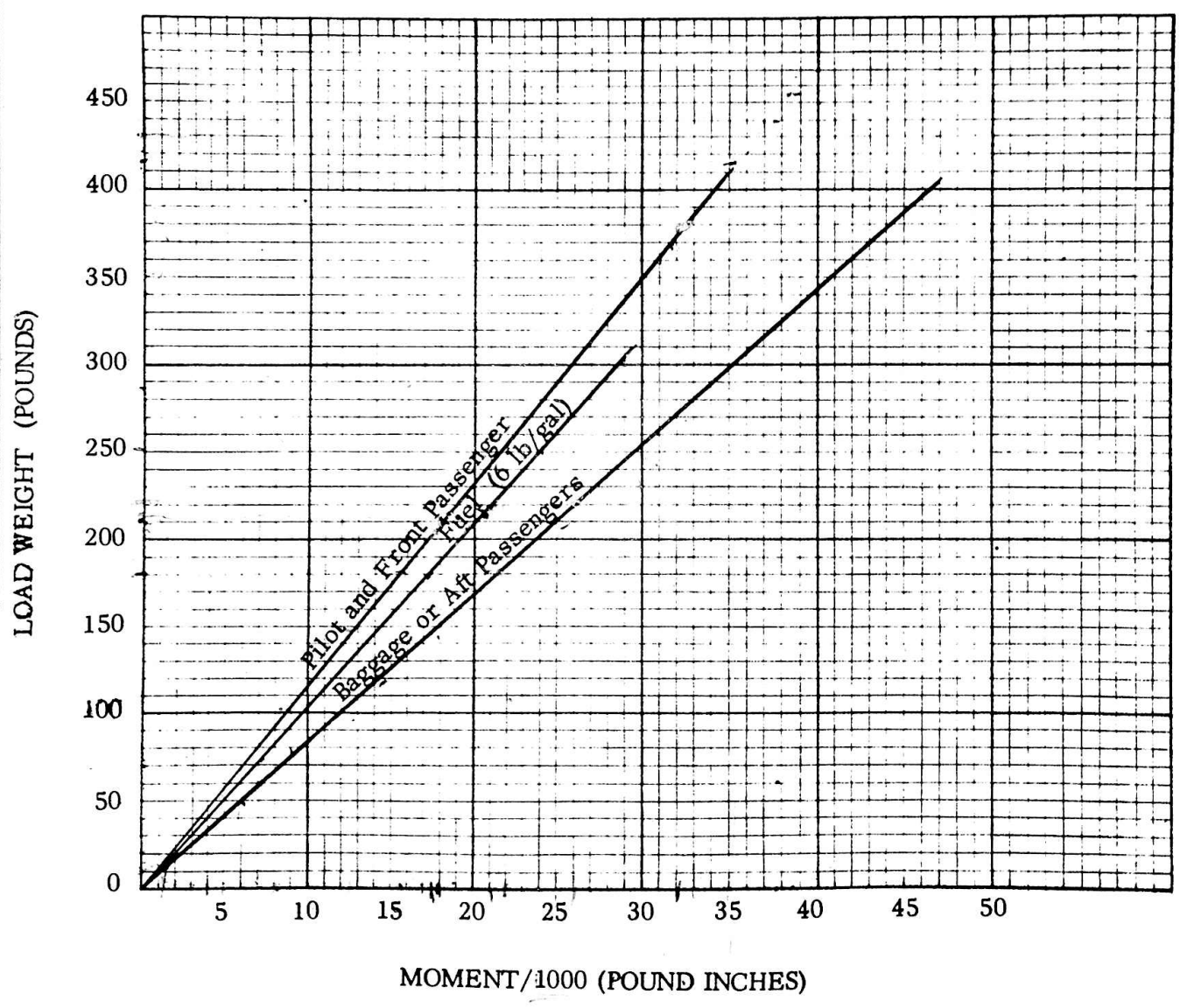
	WEIGHT (LBS.)	ARM AFT DATUM (INCHES)	MOMENT (POUND-INCHES)
LICENSED EMPTY WEIGHT	1273.0	84.8	107935
OIL (2 GAL.)	15	32.5	488
PILOT & PASSENGER	340	85.5	29070
PASSENGERS (AFT) *	340	117.0	39780
FUEL 30.3 gal.	182	95.0	17290
BAGGAGE *		117.0	

TOTAL LOADED AIRPLANE	2150	SEE LOGBOOK ENTRY 5-9-75	
		SEE LOGBOOK ENTRY 9-13-76	194563
		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

