

# **ARA Aviation** **FORM 305: Weight and Balance Revision**

## **Section 1: Form Information**

Customer Name: Aero Association Of Caltech Inc N-Number: N5997V Date: 10/25/2023  
 Make: PIPER Model: PA-28-181 A/C TT: 2325.2 (TACH)  
 S/N: 28-7790515 W.O #: 0264

## **Section 2: Equipment Removed**

New C.G. Calculation (Equipment Removed)			
Item, Make and Model *	Weight [lb]	Arm [in]	Moment [lb-in]
Previous information from W&B dated: 09/19/2018	1583.88	86.63	137205.38
<b>EQUIPMENT REMOVED:</b>	-	-	-
GARMIN GMA 345 P/N: 011-03520-00, S/N: 3Z0014921	1.64	58.40	-95.78
GARMIN GNS 430W P/N: 011-01060-40, S/N: 97125217	6.44	55.90	-360.00
GARMIN MX 20 P/N: 430-0270-601, S/N: 26001211	5.20	56.00	-291.20
GARMIN GTX 330 P/N: 011-00455-60, S/N: 84150638	4.08	55.90	-228.07
KING KX 155 P/N: 069-1024-42, S/N: 30301	5.20	55.90	-290.68
GARMIN GA 35 ANTENNA P/N: 013-00235-00, S/N: 22502	0.45	86.40	-38.88
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
<b>SUB TOTALS</b>	1560.87	87.07	135900.78

\* Item numbers when listed in the pertinent aircraft specification may be used in lieu of "item, Make, and Model"

Note: This weight and balance recalculation is accurate only to the extent of the accuracy of the data obtained from the previous weight and balance figures provided by the aircraft owner. It is the operator's responsibility to determine that the aircraft remains within the safe weight and balance limits. Refer to weight and balance data for loading instructions.

SUBTOTAL C.G. Calculation (Equipment Removed)	
Gross Weight [lb]:	2550.00
New Empty weight [lb]:	1560.87
New CG [in]:	87.07
Moment [lb-in]:	135900.78
Useful Load [lb]:	989.13

Weight of Equipment Removed	
Weight [lb]:	-23.01

\*\* Not final calculation. See additional pages for Equipment Added calculations.

### Section 3: Equipment Added

<b>New C.G. Calculation (Equipment Added)</b>			
<b>Item, Make and Model *</b>	<b>Weight [lb]</b>	<b>Arm [in]</b>	<b>Moment [lb-in]</b>
Previous information from Section 2 above.	1560.87		135900.78
<b>EQUIPMENT ADDED:</b>	-	-	-
GARMIN GTN 750 Xi P/N: 011-04634-01, S/N: 5FR053523	9.00	55.90	503.10
GARMIN FLIGHT STREAM 510 P/N: 010-01322-11, S/N: 6EN001044	0.01	61.40	0.61
GAMRIN GA 35 ANTENNA P/N: 013-00235-00, S/N: 229066	0.45	86.40	38.88
GARMIN GMA 35C P/N: 011-02299-40, S/N: 1T6206534	2.20	58.40	128.48
GARMIN GTX 345 P/N: 011-03302-02, S/N: 7KV001547	3.12	55.90	174.41
COMANT CI-105 TRANSPONDER ANTENNA	0.20	128.40	25.68
GARMIN GNC 255A P/N: 010-02486-50, S/N: 6MM014693	4.00	55.90	223.60
			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
<b>NEW TOTALS</b>	1579.85	86.71	136995.54

\* Item numbers when listed in the pertinent aircraft specification may be used in lieu of "item, Make, and Model"

**Note:** This weight and balance recalculation is accurate only to the extent of the accuracy of the data obtained from the previous weight and balance figures provided by the aircraft owner. It is the operator's responsibility to determine that the aircraft remains within the safe weight and balance limits. Refer to weight and balance data for loading instructions.

New C.G. Calculation (New Equipment)	
Gross Weight [lb]:	2550.00
New Empty weight [lb]:	1579.85
New CG [in]:	86.71
Moment [lb-in]:	136995.54
Useful Load [lb]:	970.15

<b>Weight of Equipment Added</b>	
Weight [lb]:	18.98

Prepared by: [Signature] CRS #: AR4R175E

Date: 10/25/2023