



4001 Santa Anita Ave.
El Monte, CA 91731
Repair Station: AR4R175E

ARA Aviation FORM 305: Weight and Balance Revision

Section 1: Form Information

Customer Name: Aero Association Of Caltech N-Number: N2824Y Date: 06/21/2023
 Make: PIPER Model: PA-28RT-201 A/C TT: 2649.7 (HOBBS)
 S/N: 28R-7918161 W.O #: 0227

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: 10-05-2009	1826.00	87.54	159849.20
EQUIPMENT REMOVED:	-	-	-
Garmin GNS 530W (P/N: 011-01064-40, S/N: 78402377)	8.20	60.10	-492.82
Garmin GMA 340 (P/N: 011-00401-10, S/N: 96265449)	1.94	62.40	-121.06
Voiceflight (P/N: VFS101, S/N: 001252)	0.99	60.10	-59.50
Garmin GA 35 (P/N: 013-00235-00, S/N: 15692)	0.45	104.60	-47.07
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SUB TOTALS	1814.42	87.73	159175.83

* 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)		Weight of Equipment Removed	
Gross Weight [lb]:	2750.00	Weight [lb]:	-11.58
New Empty weight [lb]:	1814.42		
New CG [in]:	87.73		
Moment [lb-in]:	159128.76		
Useful Load [lb]:	935.58		

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

Section 3: Equipment Added

New C.G. Calculation (Equipment Added)			
Item, Make and Model *	Weight [lb]	Arm [in]	Moment [lb-in]
Previous information from Section 2 above.	1814.42		159175.83
EQUIPMENT ADDED:	-	-	-
Garmin GTN 750 Xi NAV/COM/GPS (P/N: 011-04634-01, S/N: 5FR051824)	9.00	60.60	545.40
Garmin Flight Stream 510 (P/N: 011-03595-00, S/N: 402021109)	0.00	65.60	0.00
Garmin GMA 35C (P/N: 011-02299-40, S/N: 1T6206209)	2.20	61.20	134.64
Garmin GA 35 (P/N: 013-00235-00, S/N: 225177)	0.45	104.60	47.07
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NEW TOTALS	1826.07	87.57	159902.94

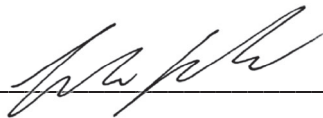
* Item numbers when listed in the pertinent aircraft specification may be used in lieu of "item, Make, and Model"

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]:	2750.00
New Empty weight [lb]:	1826.07
New CG [in]:	87.57
Moment [lb-in]:	159902.94
Useful Load [lb]:	923.93

Weight of Equipment Added	
Weight [lb]:	11.65

Prepared by:  CRS #: AR4R175E Date: 6/21/2023