

Weight and Balance Equipment List Revision

Date: 02/24/2021

AIRTRONICS INC

Certified Repair Station
TH3R867L



Submitted To:

FRONT RANGE FLIGHT SCHOOL
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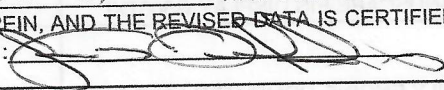
Aircraft Information:

Registration Number:	N258RM
Aircraft Make:	PIPER
Aircraft Model:	PA-44-180
Aircraft Serial Number:	44-8107029

As Received			
Max Gross Pounds:	3925	Basic Empty Weight:	2774.5
Longitudinal CG:	87.26	Longitudinal Moment:	242102.87
Useful Load:	1150.5		
Notes			
EIS AND GI275 UPGRADE			

Installed Items			
Description	Weight	Long Arm	Long Moment
PN:010-01219-21 SN:3LP000948 Description:GDU700 LANDSCAPE EIS DISPLAY G500TXI	6.6000	59.0000	389.40
PN:010-01329-01 SN:68L00135 Description:GEA110 ONLY ENGINE COMPUTER (ONE PER ENGINE)	2.0000	74.0000	148.00
PN:010-01329-01 SN:68L001133 Description:GEA110 ONLY ENGINE COMPUTER (ONE PER ENGINE)	2.0000	74.0000	148.00
PN:010-01788-01 Description:GMU 11, PMA COMPASS	0.2500	80.0000	20.00
PN:010-02325-00 Description:GI275 BASE DISPLAY	2.4000	58.0000	139.20
PN:010-02327-20 Description:GI275 WITH ADHRS + AP FUNCTION + GMU11 COMPASS	3.1200	58.0000	180.96
PN:PROBES AND TRANSDUCERS Description:LEFT AND RIGHT ENGINE PROBES AND TRANSDUCERS	3.5000	30.0000	105.00
Removed Items			
Description	Weight	Long Arm	Long Moment
PN:APOLLO MX20 Description:MFD	4.4500	60.0000	267.00
PN:ATTITUDE GYRO Description:PRIMARY ATTITUDE GYRO	1.9000	59.4000	112.86
PN:CHT Description:CYLINDER HEAD TEMP LEFT AND RIGHT	0.4000	61.4000	24.56
PN:DIRECTIONAL GYRO Description:DIRECTIONAL GYRO/HSI	2.6000	59.7000	155.22
PN:EGT Description:EXHAUST GAS TEMP LEFT AND RIGHT	0.4000	61.4000	24.56

PN:ENGINE CLUSTERS	1.6000	62.4000	99.84
Description:LEFT AND RIGHT ENGINE CLUSTERS			
PN:ENGINE CLUSTERS	1.6000	62.4000	99.84
Description:LEFT AND RIGHT ENGINE CLUSTERS			
PN:MP GAUGE	1.0000	60.6000	60.60
Description:MANIFOLD PRESSURE GAUGE			
PN:TACHOMETER	1.4000	60.7000	84.98
Description:ENGINE TACH			
PN:VAC FILTER	0.3000	73.3000	21.99
Description:VACUUM FILTER			
PN:VAC GAUGE	0.2000	62.0000	12.40
Description:VACU GAUGE			
PN:VAC PUMP	7.2000	64.0000	460.80
Description:LEFT AND RIGHT VACUUM PUMPS			
PN:VAC REGULATOR	1.2000	73.0000	87.60
Description:VACUUM REGULATOR			
PN:VACUUM LINES MISC	6.0000	73.0000	438.00
Description:MANIFOLD, HOSES, AND TACH GENERATOR			
	Weight Change		Long Mom Change
Totals:	-10.38		-819.69

As Completed			
Max Gross Pounds:	3925.00	Basic Empty Weight:	2764.12
Longitudinal CG:	87.29	Longitudinal Moment:	241283.18
UseFul Load:	1160.88		
THE DATA FROM PRIOR WEIGHT AND BALANCE DATED <u>1-15-21</u> WAS USED IN THESE CALCULATIONS ALONG WITH THE INSTALLED AND REMOVED EQUIPMENT LISTED HEREIN, AND THE REVISED DATA IS CERTIFIED ACCURATE THIS <u>23RD</u> DAY OF <u>FEB</u> , 20 <u>21</u> BY: 			

Aircraft Registration: **N258RM**
Aircraft Serial Number: **44-8107029**
Date: **April 5, 2013**
This report supercedes W&B Report dated: **May 23, 2004**

This a/c was weighted with full fuel, full engine oil, the fire extinguisher bottle removed, the POH and POH supplement in the copilots afts seat pocket.

	Weight (lbs)	Arm (in)	Moment (in-lbs)
Aircraft Empty Weight		87.26	242178.25
Removed:			
1 108 gal of fuel	(648.00)	95.00	(61560.00)
2			0.00
3			0.00
4			0.00
Installed:			
1 scale under NLG	710.00	8.70	6177.00
2 scale under LH MLGL	1370.00	109.70	150289.00
3 scale under RH MLG	1342.50	109.70	147272.25
4			0.00

New Basic Empty Weight: **2774.50 lbs.**
New Arm (Center of Gravity): **87.26 in.**
New Moment **242178.3 in-lbs**
New Useful Load **1168.5 lbs.**
Max Ramp Weight: **3943.0 lbs.**
Max takeoff weight **3925.0 lbs.**
Max Landing Weight **3800 lbs.**

*SUPERCEDED
01-15-21*

Brian J. Glenn

A&P3403535IA



Weight / Balance & Equipment List Revision

Page #: 1

TIM McCANDLESS, INC. - R02D142L

1274 B Olive Ave Hampton IA 50441

641-456-4500

WB ID #: 61

A/C Tail #: N258RM

Register Name: PMC Aviation LLC

Address: 1531 Airport Rd. Ste. 2

City, State, PC: Ames, IA 50010-8230

A/C Make: PIPER

A/C Model: PA-44-180

A/C Serial #: 44-8107029

WO Ref #: 10307

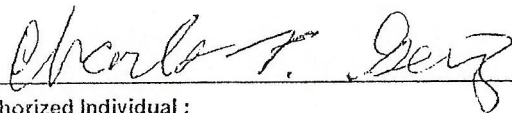
WB Date: May-23-2004

Previous data taken from document dated Jun-26-2003 Previous useful load = 1167.09

Model / Part #	Description	(LB / IN)	Weight	CG/Arm	Moment
	Previous data ->		2775.91	86.23	239373.03
*REMOVED					
KT-76A	TRANSPONDER		-3.10	58.00	-179.80
KN53-01	NAV REC		-2.70	58.00	-156.60
KI-203	VOR/LOC IND p/n 066-3034-00		-1.60	60.50	-96.80
KA-44B	ADF LOOP/SENSE ANT		-3.20	160.00	-512.00
KI-227	ADF IND		-0.70	61.50	-43.05
KR-87	ADF REC.		-3.20	57.50	-184.00
KY197	COMM		-3.50	58.70	-205.45
AR850-30K	ENCODER BLIND 30K p/n 03753-0300		-0.80	51.50	-41.20
M-1	LORAN		-5.10	50.00	-255.00
GDL-49	SATELLITE REC		-2.50	183.00	-457.50
AV-17	GDL-49 ANT		-0.50	193.00	-96.50
CI-122	COMM ANT		-0.50	125.00	-62.50
DMC 70 1/A	COMM ANT		-0.75	158.00	-118.50
KMA24	AUDIO PANEL/MARKER		-1.80	59.50	-107.10
AA80-001	INTERCOMM		-0.70	60.00	-42.00
REMOVED	15 Items @		-30.65	83.46	-2558.00
INSTALLED					
GTX-330	TRANSPONDER MODE S		4.20	57.00	239.40
MX 20 MFD	MULTI FUNCTION DISPLAY		4.65	60.00	279.00
SL 30	COMM/ NAV		2.25	57.50	129.38
AV-200	WSI REC.		1.50	183.00	274.50
CI-1530-1	WSI ANT		0.50	102.00	51.00
KI209	VOR/LOC/GS CONVERTER IND.		1.20	60.50	72.60
SSD 120 /RS232	BLIND ENCODER W/ RS232		0.63	51.50	32.45
GMA 340	AUDIO PANEL		1.63	59.50	96.99
COOLING FAN	COOLING FAN		0.75	51.00	38.25
CI 121	COMM ANT		0.50	158.00	79.00
CI 121	COMM ANT		0.50	193.00	96.50
INSTALLED	11 Items @		18.31	75.86	1389.06
NEW DATA >>	NEW USEFUL LOAD = 1179.43		2763.57	86.19	238204.09

Superseded By April 16/2013

It is the pilot's responsibility to keep the aircraft within proper weight and balance limits at all times. Refer to weight and balance data sheet and loading schedule and center of gravity for proper loading.



Authorized Individual:

N258RM



MODEL PA-44-180T

SERIAL # 44-8107029

REMOVED:

DM C 70-1/A Comm Antenna

WEIGHT

0.75

ARM

193.00

MOMENT

144.75

*Superceded
See 5/23/2004*

INSTALLED:

CI122 Comm Antenna

0.50

125.00

62.50

GDL49 Data Link Receiver

2.50

183.00

457.50

AV14 Data Link Antenna

0.50

193.00

96.50

OLD EMPTY DATA:

2773.16

86.15

238901.28

NEW EMPTY DATA:

2775.91

86.23

239373.03

GROSS WEIGHT

3943.00

NEW EMPTY WEIGHT

2775.91

NEW C.G.

86.23

NEW USEFUL LOAD

1167.09

DATE

6/26/2003

MUNCIE AVIATION COMPANY

C.R.S. # AJVR135C

INSPECTOR: Scott D. Picha

SCOTT D. PICA

WORK ORDER # C3115

Muncie Aviation Company

Delaware County Airport / P.O. Box 1169

Muncie, Indiana 47308 / (765) 289-7141

E-Mail: info@muncieaviation.com



MODEL PA-12-180T

REMOVED

REMOVED
DM C TO IN Cabin Airline

WEIGHT
0.75

ARM
183.00

MOMENT
144.75

Accepted 10/20/04

REMOVED
C122 Cabin Airline
GDS Data Link Receiver
AVE Data Link Airline

0.50	152.00	0.50
437.50	183.00	0.50
85.50	183.00	

OLD EMPTY DATA	27.15	27.15
NEW EMPTY DATA	27.15	27.15
GROSS WEIGHT	27.15	27.15
NEW EMPTY WEIGHT	27.15	27.15
NEW CG	27.15	27.15
NEW USEFUL LOAD	27.15	27.15
DATE		

WORK ORDER # 2812
 SCOTT G. PUCH
 INSPECTOR
 C.R. SALVENDY
 MUNICE AVIATION COMPANY

Munice Aviation Company

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Munice, Indiana 47362-1100
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