

SECTION 6  
WEIGHT AND BALANCE

PA-28R-201, AR

6.7 WEIGHT AND BALANCE DETERMINATION FOR FLIGHT  
(continued)

PA28R-201 PIPER ARROW - N106ER  
WEIGHT AND BALANCE

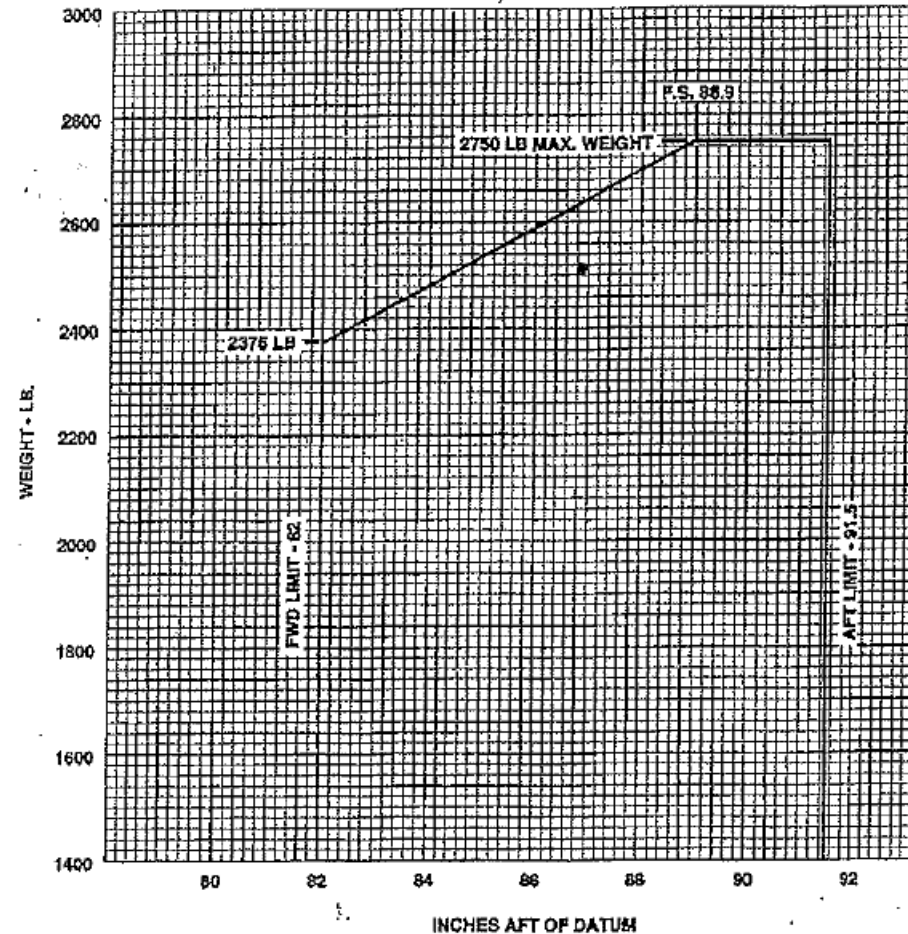
ITEM	(MAX)	WEIGHT	ARM	MOMENT
B.E.W.		1842.14		158946.37
Pilot and Passenger		360	80.5	28980
Rear Passenger(s)		20	118.1	2362
Baggage 1	(200 lbs)	10	142.8	1428
Z.F.W.		2232.14		191716.37
Ramp Fuel	(432 lbs)	301	95	28595
Ramp Wt.	(2758 lbs)	2533.14		220311.37
- Taxi Fuel		-8.43	95	-800.66
G.T.W.	(2750 lbs)	2524.71		219510.71
- Trip Fuel		-60.2	95	-5719
G.L.W.		2464.51		213791.71

ZFW CG 85.9      GTW CG 86.94      GLW CG 86.75

LIMITATIONS

Takeoff Forward C.G. 84.75      Aft C.G. 91.5  
Landing 83.65      91.5

V<sub>A</sub> 111 (118 kts. @ 2750 lbs. to 96 kts. @ 1865 lbs.)



B.E.W.		1842.14		158946.37	
Pilot and Passenger		360	80.5	28980	
Rear Passenger(s)		10	118.1	1181	
Baggage 1	(200 lbs)	0	142.8	0	
Z.F.W.		2212.14		189107.37	
Ramp Fuel	(432 lbs)	301	95	28595	
Ramp Wt.	(2758 lbs)	2513.14		217702.37	
- Taxi Fuel		-8.43	95	-800.66	
G.T.W.	(2750 lbs)	2504.71		216901.71	
- Trip Fuel		-60.2	95	-5719	
G.L.W.		2444.51		211182.71	
ZFW CG	85.5	GTW CG	86.60	GLW CG	86.39
<b>LIMITATIONS</b>					
Takeoff	Forward C.G.	84.39	Aft C.G.	91.5	
Landing		83.28		91.5	
V <sub>A</sub>	110	(118 kts. @ 2750 lbs. to 96 kts. @ 1865 lbs.)			
		-2.49 kts./100 lbs.			

RMS

Resource Maintenance System

# Aircraft Weight and Balance

Resource: 106

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Serial #: 2844137

Model: PA28R-201

Location: Daytona

## N106ER

Who	Date	Total Time	Action	Item	Weight	Arm	Moment
			Install	INITIAL WEIGHT AND BALANC	1,811.50	85.7201	155,281.96
Ford, J.	Sep 25 2007	5.80	Install	UAT top antenna	0.25	178.0000	44.50
JDP	Jul 28 2008	671.80	Install	UAT bottom antenna	0.25	170.0000	42.50
JDP	Jul 28 2008	671.80	Install	UAT GPS antenna	0.41	180.0000	73.80
JDP	Jul 28 2008	671.80	Install	DL 90 UAT and tray	6.50	180.0000	1,170.00
JDP	Jul 28 2008	671.80	Install	MX 20 and tray	5.00	63.0000	315.00
JDP	Jul 28 2008	671.80	Install	AdSB Harness	5.13	117.0000	600.21
JDP	Jul 28 2008	671.80	Install	Gill G-35 Battery S/N G02331781	27.20	156.0000	4,243.20
Ober, D.	Jul 29 2008	672.30	Remove	Concorde RG35A/XC S/N 40117846	32.00	156.0000	4,992.00
Ober, D.	Jul 29 2008	672.30	Install	MX20	5.00	63.0000	315.00
JDP	Jul 24 2012	3,718.70	Remove	GMX200	8.37	63.0000	527.31
JDP	Jul 24 2012	3,718.70	Install	Gear Alert Unit	0.50	44.5000	22.25
Demick, M.	Nov 26 2012	3,929.90	Install	Transducer Antenna and Harness	1.50	147.0000	220.50
Demick, M.	Nov 26 2012	3,929.90	Install	T/C, VSI, 2ea GI-106A, DG, Enc, 2	7.48	63.5900	475.65
Johnson, S.	Oct 10 2014	5,139.30	Remove	GDU 620 Display Unit	7.40	56.8000	420.32
Johnson, S.	Oct 10 2014	5,139.30	Install	GTP 59 Temp Probe	0.20	54.0000	10.80
Johnson, S.	Oct 10 2014	5,139.30	Install	GRS 77 AHRS	3.46	186.5000	644.19
Johnson, S.	Oct 10 2014	5,139.30	Install		0.00	0.0000	0.00

Johnson, S.	Oct 10 2014	5,139.30	Install	GMU 44 Magnetometer	0.50	104.0000	52.00
Johnson, S.	Oct 10 2014	5,139.30	Install	GDC 74A Air Data Comp	2.30	53.4000	122.82
Johnson, S.	Oct 10 2014	5,139.30	Install	2ea GA35 WAAS Antenna	0.80	108.0000	86.40
Parker, S.	Jan 26 2015	5,295.80	Remove	Gear Alert Unit	0.50	44.5000	-22.25
Parker, S.	Jan 26 2015	5,295.80	Remove	Transducer	1.50	147.0000	-220.50
JDP	Oct 20 2016	6,560.80	Remove	GDL90	6.50	180.0000	-1,170.00
JDP	Oct 20 2016	6,560.80	Install	GDL88	4.25	180.0000	765.00

Max	Empty	Useful Load	CG		
2,750.00	-	1,842.14	=	907.86	86.2835

TOTAL WEIGHT: 1,842.14

TOTAL MOMENT: 158,946.37