

PREPARED	PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.	Weight and Balance Data Model PA-28-180
CHECKED		
APPROVED	REPORT VB-268 STANDARD EQUIPMENT LIST	PAGE 8 Section 1

WEIGHT AND BALANCE  
STANDARD EQUIPMENT LIST  
MODEL PA-28-180

Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Engine Accessories</u>			
<input type="checkbox"/>	Engine - Lycoming Model O-360-A4A	282.4	26.1	7371
<input type="checkbox"/>	Fuel Pump, Electric Auxiliary, Bendix Model 478360	1.8	41.8	75
<input type="checkbox"/>	Fuel Pump, Engine Driven, Lycoming Drawing No. 73297, 74082, 75148 or 75246	1.6	41.3	66
<input type="checkbox"/>	Oil Cooler, Piper Dwg., Harrison #C-8526250	2.6	18.1	47
<input type="checkbox"/>	Air Filter, Fram Model CA-161 PL or Purolator AFP-2	.9	20.1	18
<input type="checkbox"/>	Alternator, 60 Amp., Chrysler No. 2642997	12.5	19.0	238
<input type="checkbox"/>	Starter-Lycoming 76211 (Prestolite MZ4206) *	18.0	19.5	351
	<u>Propeller and Propeller Accessories</u>			
<input type="checkbox"/>	Propeller, Sensenich 76EM8S5-0-60	38.5	8.8	339
<input type="checkbox"/>	Spinner and Attachment Plates	4.3	8.0	34

\* Included in Engine Weight.

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Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Landing Gear and Brakes</u>			
	Two Main Wheel Assemblies	32.3	109.6	3540
	(a) Cleveland Aircraft Products Wheel Assembly No. 40-86 Brake Assembly No. 30-55			
	(b) Two Main 4-Ply Rating Tires 6.00-6 with Regular Tubes			
	One Nose Wheel 6.00-6	12.5	34.8	435
	(a) Cleveland Aircraft Products Wheel Assembly No. 38501 (Less Brake Drum)			
	(b) One Nose Wheel 4-Ply Rating Tire 6.00-6 with Regular Tube			
	<u>Electrical Equipment</u>			
	Stall Warning Device, Safe Flight Instrument Corporation No. C52207-4	.2	80.2	16
	Voltage Regulator, Wico Electric #X-16300B	.5	56.9	28
	Battery 12V, 25A. H., Rebat Model S-25	21.5	168.0	3612
	Overvoltage Relay, Wico Electric No. X16799	.5	60.4	30

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Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Instrument</u>			
_____	Compass - Piper Drawing 67462	.9	64.9	58
_____	Airspeed Indicator, Piper Drawing 63205-2	.6	66.8	40
_____	Tachometer, Piper Drawing 62177-3	.7	66.2	46
_____	Altimeter, Piper Dwg. PS50008-2 or -3	1.0	65.9	66
_____	Engine Cluster, Piper Drawing 95241-4	.8	67.4	54
_____	Engine Cluster, Piper Drawing 95241-2	.8	67.4	54
	<u>Miscellaneous</u>			
_____	Forward Seat Belts (2) . .75 lbs. each	1.5	86.9	130
_____	Inertia Safety Belts (2) . 0.9 lbs. each	1.8	119.6	215
_____	Rear Seat Belts (2) . .70 lbs. each	1.4	123.0	172
_____	Rear Seats (2)	27	124.1	3351
_____	Flight Manual	---	---	---
_____	Tow Bar	1.3	161.8	210
_____	Nose Wheel Fairing - Piper Dwg. 65348	3.8	34.8	132
_____	Main Wheel Fairings - Piper Dwg. 65237	7.0	109.6	767

THE ABOVE ITEMS ARE INCLUDED IN THE AIRPLANE STANDARD EMPTY WEIGHT.

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OPTIONAL EQUIPMENT LIST  
MODEL PA-28-180

Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Engine Accessories</u>			
_____	Vacuum Pump, Airborne Mfg. Co. Model No. 10-113A1, 113A5 or 200cc and Drive	5.0	37.0	185
_____	Oil Filter-Lycoming No. 75528 (AC #OF5578770)	3.3	40.5	134
_____	Vacuum Regulator	.7	57.0	40
_____	Vacuum Filter	.3	57.0	17
	<u>Electrical Equipment</u>			
_____	Rotating Beacon, Grimes #40-0101-15-12	1.5	263.4	395
_____	Landing Light, G. E. Model 4509	.5	18.1	9
_____	Navigation Lights (2) Grimes Model A1285 (Red and Green)	.4	106.6	43
_____	Navigation Light (Rear)(1) Grimes Model 2064 (White)	.2	281.0	56
_____	Battery 12 V, 35 A. H. Rebat R-35 (Weight 27.0 lbs.)	5.5 *	168.0	924

\* Weight and Moment difference between standard and optional equipment.

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Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Electrical Equipment</u> (Cont'd)			
_____	Cabin Light	.3	104.0	31
_____	Cabin Speaker	.8	104.0	83
_____	Auxiliary Power Receptacle, Piper Dwg. 65647	2.7	178.5	482
_____	External Power Cable 62355-2	4.6	142.8	657
_____	Piper Pitch Trim	4.3	155.3	668
_____	Heated Pitot Head	.4	100.0	40
_____	Red Strobe Light, Whelen Engineering Company			
_____	Power Supply, Whelen Model HS	2.3	198.0	455
_____	Light (Fin Tip)	.4	263.4	105
_____	Cable	.4	230.7	92
_____	Red/White Strobe Light, Whelen Engineering Company			
_____	Power Supply, Whelen Model HD, T3	3.0	198.0	594
_____	Light (Fin Tip)	.4	263.4	105
_____	Cable	.4	230.7	92
_____	Lights (Wing Tip) (2)	.3	106.6	32
_____	Cables	2.0	115.6	231

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Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Instruments</u>			
_____	Suction Gauge, Piper Drawing 99480-0 or -2	.5	67.2	34
_____	Vertical Speed, Piper Drawing 99010-2, -4 or -5	1.0	65.9	66
_____	Vertical Speed, Piper Drawing 99010-3	.5	67.2	34
_____	Attitude Gyro, Piper Drawing 99002-2, -3, -4 or -5	2.2	64.4	142
_____	Directional Gyro, Piper Drawing 99003-2, -3, -4 or -5	2.6	64.7	168
_____	Air Temperature Gauge, Piper Drawing 99479-0 or -2	.2	77.5	16
_____	Clock, Piper Drawing 99478	.4	67.4	27
_____	Tru-Speed Indicator, Piper Dwg. 62143-2 (Same as Standard Equipment Weight) or -13			
_____	Turn and Slip Indicator, Piper PS50030-2 or -3	2.6	64.7	168
_____	Manifold Pressure Gauge, Piper PS50031-3 or -4	.9	65.8	59
_____	Exhaust Gas Temperature, Piper Dwg. 99026	.7	60.4	42

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Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Auto Pilots</u>			
	AutoControl III			
	Roll Servo, #1C363-1-183R	2.5	122.2	306
	Console, #1C338	1.2	65.1	78
	Cables	.7	95.5	67
	Attitude Gyro, #52D66	2.3	64.4	148
	Directional Gyro, #52D54	3.2	64.0	205
	Omni Coupler, #1C388	.9	64.3	58
	<u>AutoFlite II</u>			
	Roll Servo, #1C363-1-183R	2.5	122.2	306
	Cable	.7	93.4	65
	Panel Unit, #52D75-3 or -4	2.4	64.4	155

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Check if Installed	ITEM	WEIGHT (LBS)	ARM AFT DATUM (INCHES)	MOMENT (POUND- INCHES)
	<u>Radio</u>			
	Narco Mark 16 (VHF Comm/Nav)			
	Transceiver, Single	7.5	61.9	464
	Transceiver, Dual	15.0	61.9	929
	Narco Mark 12B (VHF Comm/Nav)			
	Transceiver, Single	5.7	61.9	353
	Transceiver, Dual	11.4	61.9	706
	Modulator-Power Unit, Single	4.0	186.0	744
	Modulator-Power Unit, Dual	8.0	186.0	1488
	Cable, Single Interconnecting	2.0	120.0	240
	Cable, Dual Interconnecting	4.0	120.0	480
	Narco VOA-50M Omni Converter	2.1	64.9	136
	Narco VOA-40(M) Omni Converter	1.9	64.9	123
	Narco VOA-40 Omni Converter	1.9	64.9	123
	Narco Comm 10A VHF Transceiver	3.9	62.4	243
	Narco Comm 11A VHF Transceiver	3.6	62.4	225
	Narco Dual Comm 11 VHF Transceiver	7.1	62.4	443
	Narco Nav 10 VHF Receiver	1.9	63.6	121
	Narco Nav 11 VHF Receiver	2.8	63.6	178
	Narco Nav 12 VHF Receiver	3.4	63.6	216
	Narco Dual Nav 11 VHF Receiver	5.6	63.6	356