

ACTUAL WEIGHT AND BALANCE
 MODEL PA-30, TWIN COMANCHE
 EQUIPMENT LIST

<u>Item</u>	<u>Item</u>	<u>Weight Lbs.</u>	<u>Arm Aft Datum</u>	<u>Cert. Basis</u>
<u>Propellers and Propeller Accessories</u>				
Two Propellers				
	a. Hartzell Model HC-E2YL-2/7663-4	54.5 ea.	23.0	TC P9EA
	b. Hartzell Model HC-E2YL-2A/7663-4	54.5 ea.	23.0	TC P9EA
<u>x</u>	c. Hartzell Model HC-E2YL-2B/7663-4	54.5 ea.	23.0	TC P9EA
<u>x</u>	Two Spinners - PAC Dwg. 23818, Dome PAC Dwg. 23819 and Bulkhead Adaptors PAC Dwg. 23815. <i>& TIP Props. Installed - W+B - Revised 12/13/01</i>	4.0 ea.	20.1	TC A1EA
<u>Engine and Engine Accessories - Fuel and Oil Systems</u>				
<u>x</u>	Two Engines - Lycoming Model IO-320-B1A	293.0 ea.	45.8	TC 1E12
<u>x</u>	Two Oil Coolers - Piper Dwg. 18622 Harrison Model No. APO7AU06-03 Installed in accordance with Piper Dwg. 24086.	2.1 ea.	62.3	TC A1EA
	Two Fuel Pumps - Engine Driven AC Type JT Model 5656696-A or AC Type JT Model 6440160	2.0 ea.	58.8	TC 1E12
<u>x</u>	Two Fuel Pumps - Elect. - Rotary One Weldon Model No. 8100A Right and One Weldon Model No. 8100AA Left	3.0 ea.	90.0	TC A1EA
<u>x</u>	Two Starters - 12V Delco Remy Model 1109511	18.0 ea.	37.0	TC 1E12
	Two Vacuum Pumps			
*	a. Airborne Mechanisms Model 113A8	3.5 ea.	59.3	TC A1EA
* <u>x</u>	b. Airborne Mechanisms Model 200CC	3.5 ea.	58.9	TC A1EA
	Two Hydraulic Governors			
	a. Hartzell Model F-6 Per PAC Dwg. 16564-6	4.6 ea.	61.8	TC P9EA
<u>x</u>	b. Hartzell Model F-6-3 Per PAC Dwg. 16564-6	4.6 ea.	61.8	TC P9EA
<u>x</u>	Two Induction Air Filters - Fram Model CA144PL	0.7 ea.	57.0	TC A1EA
<u>Landing Gear</u>				
<u>x</u>	Two Main Wheel - Brake Assemblies (With #40-34 Wheel Assemblies, #30-23 Brake Assemblies), 6.00-6, Type III, Cleveland Products No. 20-29	10.6 ea.	108.5	FAA TSO C26
<u>x</u>	Two Main 6-Ply Rating Tires 6.00-6, Type III, with Regular Tubes	9.4 ea.	108.5	TC A1EA

*Denotes Optional Equipment

Revised: May 1, 1963 August 14, 1963 Dec. 18, 1963
 570 008 July 9, 1963 Sept. 30, 1963 Feb. 24, 1964
 August 13, 1963 Oct. 16, 1963

ACTUAL WEIGHT AND BALANCE - MODEL PA-30
 TWIN COMANCHE, EQUIPMENT LIST (CONT'D.)

<u>Item</u>	<u>Item</u>	<u>Weight Lbs.</u>	<u>Arm Aft Datum</u>	<u>Cert. Basis</u>
<u>Landing Gear (Continued)</u>				
x	One Nose Wheel 6.00-6, Type III Cleveland Aircraft Products Number 38501	6.4	21.0	FAA TSO C26
x	One Nose Wheel - 6-Ply Rating Tire 6.00-6 Type III, With Regular Tube	9.4	21.0	TC A1EA
<u>Electrical Equipment</u>				
	One Generator - 12V. 50 amp. Delco-Remy Model 1101915	18.0	37.0	TC 1E12
	One Battery - 12V. 35 ampere hour	27.0	162.0	TC A1EA
	a. Wisco			
x	b. Reading R-35			
	c. Bowers B-34			
	Two Landing Lights			
	a. G.E. Model 4509	1.0 ea.	86.0	TC A1EA
x	b. Westinghouse Model 4509	1.0 ea.	86.0	TC A1EA
x	Rotating Beacon Model WRML-12	1.4	275.0	TC A1EA
x	Dual Generators 12V. 50 amp.	38.7	38.15	TC 1E12
x	Delco-Remy 1101915 with Regulator, Removed 30 MAY 1967			
x	Brackets and Relay			
x	Rotating Beacon Model WRML-12	1.4	168	STC #A 334500
y	INTER AV DUAL ALTERNATOR CONVERSION KIT	22.0	33.8	
<u>Interior Equipment</u>				
x	DMCR Approved Airplane Flight Manual Piper Report No. 1269, Dated February 5, 1963, revised September 16, 1963.			TC A1EA
* x	Glar Ban Lights Per PAC Dwg. 24230		Neglect Wt. Change	TC A1EA
	Heater			
	a. Modified Stewart Warner 940-DB12 Per PAC Dwg. 23770	24.5	15.0	FAA TSO C20
*	b. Janitrol Model 20D35 Removed 10/1/67	29.0	15.0	FAA TSO C20
x	C & D Associates Part # CD 12090-1 ser. # 1420 negligible wt. change Heater			FAA TSO C20

*Denotes Optional Equipment

Revised: May 1, 1963
 May 21, 1963
 July 9, 1963
 December 18, 1963
 September 16, 1963
 February 24, 1964
 April 22, 1964

ACTUAL WEIGHT AND BALANCE - MODEL PA-30
 TWIN COMANCHE, EQUIPMENT LIST (CONT'D.)

<u>Item</u>	<u>Item</u>	<u>Weight Lbs.</u>	<u>Arm Aft Datum</u>	<u>Cert. Basis</u>
<u>Interior Equipment (Continued)</u>				
* _____	Altimatec II Auto-Pilot Inst. Mitchell AK089, in accordance with Piper Dwg. 24240. DMCR Approved Supplement No. 1 to Airplane Flight Manual, Piper Report No. 1269, required. Eligible on airplane Serial Numbers 30-1 and up.	13.1	56.5	TC ALEA
* _____	DMCR Approved Supplement No. 1, Dated May 10, 1963, to Airplane Flight Manual, Piper Report No. 1269. Required when Altimatec II Auto-Pilot Installation is installed.			TC ALEA
* _____	AutoControl II Auto-Pilot Installation Mitchell AK065-E, in accordance with Piper Dwg. 24250. DMCR approved Supplement No. 2 to Airplane Flight Manual, Piper Report No. 1269, required. Eligible on Airplane Serial Number 30-1 and up.	4.6	55.3	TC ALEA
* _____	DMCR Approved Supplement No. 2 Dated August 13, 1963, Revised July 6, 1964, to Airplane Flight Manual, Piper Report No. 1269. Required when AutoControl II Auto-Pilot Installation is installed.			TC ALEA
* <u>x</u> _____	Altimatec II Auto-Pilot Inst. Mitchell AK089 with Automatic Electric Trim in accordance with Piper Drawing 25001. DMCR Approved Supplement No. 3 to Airplane Flight Manual, Piper Report No. 1269, required. Eligible on Airplane Serial Number 30-1 and up.	17.1	81.4	TC ALEA
		<i>S-TEC 40 AUTO PILOT sys. installed STC SA 52275W-D * Electric trim unit REMAINS. Reflected IN WT & BALANCE. DATED Aug 29, 1989 ATTACHED</i>		
* <u>x</u> _____	DMCR Approved Supplement No. 3 Dated July 6, 1964, to Airplane Flight Manual, Piper Report No. 1269. Required when Altimatec II Auto-Pilot Installation with Automatic Electric Trim is installed.			TC ALEA

*Denotes Optional Equipment

Revised: May 9, 1963
 July 9, 1963
 August 13, 1963
 February 12, 1964
 July 6, 1964

ACTUAL WEIGHT AND BALANCE - MODEL PA-30
 TWIN COMANCHE, EQUIPMENT LIST (CONT'D.)

Item	Item	Weight Lbs.	Arm Aft Datum	Cert Basis
<u>Miscellaneous Equipment (Not Listed Above)</u>				
<i>6 + R GEM Monitor installed - W & Bal. Revised 12/23/64</i>				
* <u>X</u>	Heated Pitot Head - PAC 21301	1	99.0	TC ALEA
<u>X</u>	Stall Warning Indicator PAC Dwgs. 23445 and 23700	Neglect	Wt. Change	TC ALEA
* <u> </u>	Fire Extinguisher and Bracket Type A-20 Spec. MIL-E-5220A Per PAC Dwg. 21731	8	84.8	TC ALEA
* <u> </u>	Fire Extinguisher and Bracket Type 2 1/2 DCK (Purch. Walter Kidde) Per PAC Dwg. 21731	5	84.8	TC ALEA
* <u> </u>	Piper Electric Trim Per PAC DWG. 24889	4	163	TC ALEA
* <u> </u>	Piper Radio Coupler Per PAC Dwg. 25001	.5	66	TC ALEA
<u>Radios - See updated 337's + W & Bal. Revisions</u>				
* <u>X</u>	Narco Mark 12 Installation (Less Antennas)	12.1	103.8	TC ALEA
* <u>X</u>	Narco Mark 12 Installation (Less Antennas)	12.1	103.8	TC ALEA
* <u>X</u>	Motorola ADF-T12B with Antenna and Cables	10.8	80.1	TC ALEA
* X	Narco UGR-1A Glide Slope with Antenna and Cables	9.25	144.5	TC ALEA
* <u> </u>	Narco UDI-2 DME with Antenna and Cables	19.25	105.3	TC ALEA
* X	Narco VOA-4 Omni Head and Converter	3.25	64.0	TC ALEA
* X	Narco VOA-5 Omni and G.S. Head and Converter	3.25	64.0	TC ALEA
* <u>X</u>	Narco MBT-12 with antenna and Cables	2.25	99.9	TC ALEA
* <u>X</u>	Omni Antenna Narco Type VRP-37	1.0	268.0	TC ALEA
* <u> </u>	Transmitting Antenna #1 Narco No. VTP-17	1.0	139.5	TC ALEA
* <u> </u>	Transmitting Antenna #2 Narco No. VTP-17	1.0	187.5	TC ALEA
* <u> </u>	Piper PM-1 Marker Beacon with Antenna, Cables and Control Panel	2.5	18.7	TC ALEA
* <u> </u>	Narco UGR-1A Glide Slope with C.C.C. GS-401 Antenna and Cables	9.25	144.5	TC ALEA
* <u> </u>	Narco UDI-3 DME/Ground Speed Indicator with Antenna and Cables	9.0	60.0	TC ALEA
<u>X</u>	Narco VCA-2 Antenna	1.0	94.0	
<u>X</u>	Narco VP-16 Multiplexer	1.0	65.0	
X	Airline GE-R625A Isolation Amplifier	2.3	65.0	
* <u>X</u>	<i>Denotes Optional Equipment</i> <i>Nautron 400 electronic clock</i>	0.2	64.0	
Revised:	May 1, 1963			
	May 9, 1963 & <i>Nautron M655-2 electronic</i>			
	May 21, 1963 <i>5AT, altimeter, & Density</i>	0.2	64.0	
570 008	February 24, 1964 <i>altitude meter</i>			
	March 30, 1964			
	July 6, 1964			

MODEL PA-30, TWIN COMANCHE
 SUPPLEMENTAL EQUIPMENT LIST
 FOR
 AIR FLOW MODIFICATION KIT

<u>Wt.</u> <u>Lbs.</u>	<u>Arm</u> <u>Aft</u> <u>Datum</u>	<u>Cert.</u> <u>Basis</u>
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MISCELLANEOUS EQUIPMENT

* <u>X</u>	Kit-Air Flow Modification Per P.A.C. Dwg. 27205	1.6	110 in.	TC A1EA
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INTERIOR EQUIPMENT

* _____	Delegation Option Authoriza- tion EA-1 Approved. Supple- ment Number 12, Dated June 10, 1970 to Airplane Flight Man- ual, Piper Report No. 1269. Required when Air Flow Modifi- cation Kit Installed.	---	---	TC A1EA
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* _____	Delegation Option Authoriza- tion EA-1 Approved. Supple- ment Number 9, Dated June 10, 1970 to Airplane Flight Man- ual, Piper Report No. 1515. Required when Air Flow Modi- fication Kit is installed.	---	---	TC A1EA
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SUPPLEMENTARY EQUIPMENT LIST

DATE: 9/18/2007

Model: Piper PA-30

Reg. No. N7539Y

S/N 30-603

	<u>ITEM</u>	<u>Weight</u>	<u>Arm About Wing LE</u>	
	Lycoming Oil Filter Adapters and Filters	4.0	48.0	- Included in 9/18/07 wt & balance
	Gulf Coast Exhaust Stack Extensions	2.6	79.0	"
5-4-08	Davton 655-2 OAT Gauge	0.2	64.0	
9-11-09	J.P. Instruments Fuel Flow System FS450			negligible wt change
5-11-2010	Webco door latch Kit			negligible wt change
6-30-2010 7-12-2007	Two B+C lightweight starters	<16.0>	51.0	Included in 9/18/07 wt & balance