



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

EQUIPMENT LIST

The following is a list of standard and optional equipment for the PA-32R-301T Saratoga II TC. Optional equipment items marked with an X are installed on the airplane. All items are as described below at the time of licensing by the manufacturer. The New Piper Aircraft, Inc. will not revise this equipment list once the aircraft is licensed. It is the owner's responsibility to retain and amend this equipment list to reflect changes in equipment installed in this airplane.

Unless otherwise indicated, the installation certification basis for the equipment included in this list is the aircraft's approved type design.

THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC

SERIAL NO. 3257313

REGISTRATION NO. N4169T

DATE 01/23/03

Item No.	Item	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
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(a) Propeller and Propeller Accessories

1.	Propeller, Hartzell HC-I3YR-1RF/F7663DR, Piper PS50077-97 Cert. Basis - TC P33EA	74.5	-17.8	-1326.1
3.	Spinner, Hartzell, C-3575-1(P)	4.2	-17.8	-74.8
5.	Propeller Governor, (Hartzell V-5-6) Cert. Basis - TC P33EA	4.5	-3.1	-14.0

(b) Engine and Engine Accessories, Fuel and Oil Systems

9.	Engine, Lycoming Model TIO-540-AH1A, Cert. Basis - TC E14EA	547.8	12.1	6628.4
11.	Engine Driven Fuel Pump, Lycoming P/N LW-13909 (Lear Romec P/N RG-9080-J4A), Cert. Basis - TC 1E4 (Included in dry engine weight)	1.9	27.6	52.4
13.	Electric Fuel Pump, Weldon P/N 461750	3.6	112.6	405.4
15.	Fuel Valve, Piper Drawing 69735-5 (Cameron or Airborne P/N 1-H65-5)	2.4	110.8	265.9
17.	Oil Coolers(2), Stewart Warner P/N 10901A (Piper Code no. 557-903)	7.3	22.5	164.364.3
19.	Air Filter, PS60007-3 (Piper Code no. 561-020)	0.9	16.0	14.4
21.	Starter, Lycoming P/N 31B-22101 (Included in dry Engine Weight)	7.9	-1.0	-7.9
23.	Oil Filter, Lycoming P/N LW-13215, Cert. Basis - TC 1E4 (Included in dry engine weight)	1.6	43.5	69.6
25.	Alternator, Lycoming Supplied P/N 32C22375 (Incl. in dry engine wt.)	14.9	-2.5	-37.3



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(c) Landing Gear and Brakes				
29.	Main Wheel Assemblies Heavy Duty Group a.) Cleveland Aircraft Products Wheel Assembly 40-120C (2) Piper PS 50035- 14 Brake Assembly 30-83 (2) Piper PS 50121-5, Cert. Basis-TSO C62 b.) 6.00 x 6 Type III 8 Ply Rating Tire (2) Piper PS50119-13 and Tubes (2) Piper PS50119-101, Cert. Basis - TSO C62d	44.8	109.7	4914.6
31.	Nose Wheel Assembly a.) Cleveland Aircraft Products Wheel Assembly No. 40-77B Piper PS-50035-24 Cert. Basis - TSO C26a b.) 5.00-5 Type III 6 Ply Rating Tire Piper PS50119-10 and Tube Piper PS50119-100, Cert. Basis - TSO C62d	3.0 6.8	14.3 14.3	42.9 97.2
33.	Handbrake Masters Cylinder, Cleveland Aircraft Products No. 10-22	0.6	60.9	36.5
35.	Toe Brake Cylinders a. Cleveland Aircraft Products No. 10-27 b. Gar-Kenyon Instruments 17000	0.7 0.4	55.1 55.1	38.6 22.0
37.	Landing gear Hydraulic pump (Oildyne 636294) Piper Drawing 38998-5	9.0	46.6	419.4
39.	Main Gear hydraulic Cylinders (2) (Syncro Devices SFA 232-3)	2.2	108.0	237.6
41.	Nose Gear hydraulic Cylinder (Gar Kenyon 94951) Piper Drawing 35797-2	2.0	41.8	83.6
(d) Electrical Equipment				
45.	Battery Master Relay, Cutler Hammer P/N 6041H202A	0.8	204.0	163.2
47.	Voltage Regulator, Piper Drawing 68804-7	0.3	19.4	5.8
49.	Battery, Gill G-243, Piper Drawing 101000	28.0	203.7	5703.6
51.	Starter Relay - Piper Drawing 26898-3	0.8	32.4	25.9
53.	Stall Warning Lift Detectors (2), Safe Flight 148-7, Piper Drawing 100838	0.4	85.9	34.4
55.	Stall Warning Horn (Safe Flight P/N 35214), Piper Drawing 100838	0.2	62.8	12.6
57.	Radio Master Switch Relay 6041H299, Piper Drawing 39870-10	0.5	62.6	31.3
59.	Instrument Panel Lights Installation, Piper Drawing 100838	0.3	67.8	20.3



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(d) Electrical Equipment - continued				
61.	Cockpit Flood Light (2), Whelen A300-W-28, Piper Drawing 95229-5	0.2	99.0	19.8
63.	Reading Lights (4), Piper Drawing 85311-4	0.6	133.0	79.8
65.	Courtesy Lights Installation, Piper Drawing 87348-5	0.4	125.2	50.1
67.	Forward Baggage Light, Piper Drawing 87348-5	0.2	43.5	8.7
71.	Nose Taxi Light, Piper Drawing 85347-3 (G.E. Model 4594)	0.8	24.9	19.9
73.	Navigation Lights (Wings)(2) Red/White and Green/White with White Strobe - Whelen, Piper Drawing 85505-2 Left Whelen Part No. 90071-00, Right Whelen Part No. 90071-01	6.6	106.6	703.6
74.	Low Profile Tail Strobe -Piper Drawings 104138 and 85505-004			
	a.) Strobe Light -Whelen P/N 01-0790111-02 Piper Code Number 683-504	0.241	293.54	70.60
	b.) Cable Assembly-Whelen Piper Code Number 653-623	0.813	225.16	182.95
	c.) Fin Strobe Installation hardware Piper Drawing 104138-2, 85505-004	0.057	293.04	16.72
75.	Wing Tip Landing Lights (2) G.E. Model 4594	1.6	94.1	150.6
77.	Heated Pitot Head, Piper Drawing 46609-0 (AN Heated)	0.9	115.1	103.6
79.	Auxiliary Power Receptacle, Piper Drawing 101000, MS3506-1 (Piper Code No. 484-125)	0.9	210.2	189.2
80.	Pulse Light Assembly , Piper Drawing 101295-2	1.0	53.6	53.6
82.	Power Point assembly -Instrument panel Piper Drawing 101300	0.075	66.390	4.957
(e) Instruments				
83.	Altimeter, Piper PS50008-10-2 (United Instruments U15934-PD-I) Cert. Basis -TSO C10b	0.9	65.9	59.3
85.	Truspeed, Airspeed Indicator, Piper PS50049-67T (United Instruments 8125) Cert. Basis -TSO C2b	0.6	66.8	40.1
87.	Manifold Pressure Indicator, Piper Drawing 100624-2	0.4	65.6	26.2
89.	Compass, Piper Drawing 67462-9(Airpath P/N C-2200-L4-1B) Cert. Basis- TSO C7c	0.9	64.9	58.4



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(e) Instruments - continued				
91.	Indicator, TIT/FF, Piper Drawing 100930-4	0.6	65.6	39.4
93.	Tachometer, Piper Drawing 100930-11	0.4	65.6	26.2
95.	Oil press./Oil temp., Piper Drawing 100930-5	0.6	65.6	39.4
97.	Indicator, VAC/CHT, Piper Drawing 100930-6	0.6	65.6	39.4
99.	Fuel Quantity Indicator, Piper Drawing 100930-7	0.6	65.6	39.4
101.	Ameri-King AK-350 Encoder Installation Piper Drawing 101426-002 Cert. Basis TSO C88(a)			
	a.) Ameri-King AK-350 Altitude Encoder PS50040-30-5 Piper Code 602-290	0.57	55.26	31.44
	b.) Ameri-King AK-350 Altitude Encoder Mounting Tray P/N AK-350-232-1 Piper Code 602-290	0.08	55.26	4.42
	c.) Altitude Encoder Hose , tube and hardware Piper Drawing 101426-002	0.14	58.01	7.92
103.	Rate of Climb, Piper Drawing 99010-5 (United Instruments P/N UI-7000) Cert. Basis-TSO C8b	0.7	65.9	46.1
105.	Indicator, Digital Display, Piper Drawing 100930-9	1.2	64.7	77.6
107.	Alternate Static Source Installation, Piper Drawing 85462-2	0.4	66.0	26.4
109.	Turn Coordinator, Piper PS50030-3-5 (Electric Gyro Corp. 1394T100-7Z) Cert. Basis -TSO C8b	1.1	65.9	72.5
111.	Engine Hour Meter (Piper Code no. 550-580)	0.3	67.3	20.2
113.	Clock, DVR-300i-XT - Piper Drawing 87347-5	0.9	67.4	60.7
115.	Vacuum Regulator Parker Hannifin P/N ARM-AM-2H3-19	0.440	53.2	23.4
117.	Vacuum Filter Assembly, Airborne P/N 1J7-1 Piper Code Number 460-888 (Piper Drawing 66673-0)	0.454	53.5	24.3
119.	Auxiliary Vacuum Pump Installation Piper Drawing 87778-004			
	a.) Standby Auxiliary Vacuum Pump Parker Hannifin P/N 4A2-1 Piper Code 651-650	7.12	42.65	303.63
	b.) Hardware -Parker Hannifin Kit P/N 373-1 Piper Code Number 651-650	2.72	43.74	119.03
	c.) Brackets and hardware -Piper Drawing 87778-004	2.81	44.73	125.56



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(e) Instruments - continued				
121.	Vacuum system Installation Piper Drawing 79399-005,-006			
	a.) Dry Air Pump Parker Hannifin P/N AM215CC Piper Drawing 79399-5 Piper Code number 461-763	2.00	27.40	54.80
	b.) Dry Air Pump Parker Hannifin P/N AM215CW Piper Drawing 79399-6 Piper Code number 461-762	2.00	27.40	54.80
(f) Cabin Interior				
129.	Pilot Adjustable Seat (leather) with headrest, armrest and lumbar support Piper Drawing 89026-12	25.59	91.2	2333.81
131.	CoPilot Adjustable Seat (leather) with headrest, armrest and lumbar support Piper Drawing 89026-13	25.61	91.2	2335.63
133.	Center Club Seat(leather) - (left) with Headrest, Piper Drawing 89036-2	18.58	112.8	2095.82
135.	Center Club Seat (leather) - (right) with Headrest, Piper Drawing 89036-2	18.66	112.8	2104.85
137.	Aft Seat(leather) - (left) with Headrest, Piper Drawing 89046-2	15.68	163.4	2562.11
139.	Aft Seat(leather)-(right) with Headrest and center armrest, Piper Drawing 89046-4	18.16	162.2	2945.55
141.	Pilot restraint system Piper Drawing 78087-013 Cert. Basis TSO- C114/JTSO-C114			
	a.) Pilot Inertia Reel - Schroth P/N 5-01-260701, Piper Code Number 564-886, Piper Drawing Number 104211-004	1.30	120.10	156.67
	b.) Pilot stiffening Sleeve - Schroth P/N 5-01-260701, Piper Code Number 564-886, Piper Drawing Number 104211-004	0.52	91.20	47.70
143.	CoPilot restraint system Piper Drawing 78087-013 Cert. Basis TSO- C114/JTSO-C114			
	a.) CoPilot Inertia Reel - Schroth P/N 5-01-265701, Piper Code Number 564-887, Piper Drawing Number 104211-005	1.30	120.10	156.31
	b.) CoPilot stiffening Sleeve - Schroth P/N 5-01-265701, Piper Code Number 564-887, Piper Drawing Number 104211-005	0.53	91.20	48.02
145.	Center Seat belt restraint system(LH) Piper Drawing 37825-012 Cert. Basis TSO-C114/JTSO-C114			
	a.) Center Seat Inertia Reel -Schroth P/N 5-01-595701, Piper Code Number 564-889, Piper Drawing Number 104211-006	0.87	108.90	94.53
	b.) Center Seat stiffening Sleeve --Schroth P/N 5-01-595701, Piper Code Number 564-889, Piper Drawing Number 104211-006	0.37	113.20	42.39



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(f) Cabin Interior - continued				
147.	Center Seat belt restraint system(RH) Piper Drawing 37825-012 Cert. Basis TSO-C114/JTSO-C114			
a.)	Center Seat Inertia Reel - Schroth P/N 5-01-590701, Piper Code Number 564-888, Piper Drawing Number 104211-007	0.87	108.90	94.85
b.)	Center Seat stiffening Sleeve - Schroth P/N 5-01-590701, Piper Code Number 564-888, Piper Drawing Number 104211-007	0.38	113.20	42.62
149.	Aft Seat restraint system(LH) Piper Drawing 78087-013 Cert. Basis TSO-C114/JTSO-C114			
a.)	Aft seat Inertia Reel - Schroth P/N 5-01-280701, Piper Code Number 564-892, Piper Drawing Number 104211-002	1.27	181.50	230.05
b.)	Aft Seat stiffening Sleeve - Schroth P/N 5-01-280701, Piper Code Number 564-892, Piper Drawing Number 104211-002	0.53	163.40	86.93
151.	Aft Seat restraint system (RH) Piper Drawing 78087-013 Cert. Basis TSO-C114/JTSO-C114			
a.)	Aft seat Inertia Reel - Schroth P/N 5-01-285701, Piper Code Number 564-893, Piper Drawing Number 104211-003	1.27	181.50	230.41
b.)	Aft Seat stiffening Sleeve - Schroth P/N 5-01-285701, Piper Code Number 564-893, Piper Drawing Number 104211-003	0.52	163.40	85.21
155.	Window Shades Installation, Piper Drawing 100836-2	7.8	143.6	1120.1
157.	Baggage Straps, Piper Drawing 66804-0 and 66805-0	1.3	177.0	230.1
159.	Refreshment Console Instl. Piper Drawing 37825-11			
a.	Refreshment Console -Piper Drawing 104215	10.1	118.5	1196.9
b.	Igloo "Legend Six-Packer" cooler - Piper Code Number 602-022	1.7	118.5	201.5
161.	Executive Writing Table, Piper Drawing 85366-2 (ICI P-0336-02)	3.0	142.1	426.97
163.	Add Fire Extinguisher Installation (Piper Drawing 100801-3), Saber 1211-1301 Halon Model 600	2.3	103.6	238.3



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(g) Autopilot				
165.	S-TEC System 55X Autopilot with Compass ST-180/HSI System and F/D Piper Drawing 104583-002			
a.)	S-TEC P/N 6405-28L Turn Coordinator	1.80	64.95	116.901
b.)	S-TEC P/N 01192-0-47T Programmer Computer	2.70	65.16	175.9185
c.)	S-TEC P/N 55254-1 Mounting Tray	0.35	65.16	22.93456
d.)	S-TEC Programmer Computer hardware	0.041	66.057	2.675
e.)	S-TEC P/N 0111 Transducer	0.20	67.01	13.40
f.)	S-TEC Transducer Installation hardware	0.097	67.010	6.517
g.)	S-TEC P/N 0106-R9 Roll Servo	2.90	117.70	341.33
h.)	S-TEC Roll Servo bracket and hardware	0.656	117.700	77.223
i.)	S-TEC P/N 0108-P4 Pitch Servo	2.90	263.9	765.31
j.)	S-TEC Pitch Servo bracket and hardware	1.360	264.182	359.222
k.)	S-TEC P/N 0106-T8 Trim Servo	2.90	193.2	560.28
l.)	S-TEC Trim Servo brackets and hardware	1.289	191.246	246.584
m.)	S-TEC P/N 01240-1 Trim Monitor	0.30	61.2	18.36
n.)	S-TEC P/N 6542 Sonalert	0.10	61.2	6.12
o.)	S-TEC Trim Monitor and Sonalert hardware	0.036	61.200	2.179
p.)	S-TEC Autopilot harness	5.081	82.844	420.889
q.)	S-TEC Potentiometer installation	0.225	114.183	25.693
r.)	S-TEC 90407-7 Switch Installation Kit (Control Wheel)	0.123	73.760	9.087
	ST-180 Compass Installation (HSI) S-TEC 901480 Kit Piper Code number 652-126			
s.)	S-TEC P/N 6443-PA Horizontal Situation Indicator	2.90	63.400	183.86
t.)	S-TEC P/N 6444 Remote Gyro	3.40	215.400	732.36
u.)	S-TEC P/N 01171-P Slaving Panel	0.10	67.300	6.73
v.)	S-TEC P/N 6446 Flux Sensor	0.30	89.300	26.79
w.)	S-TEC P/N 90480-1 Installation hardware	0.63	63.755	40.17
x.)	Compass ST-180/ HSI installation Piper Drawing 104583-002 Single Cue Flight Director System Piper Code number 652-161	5.96	112.718	672.14
y.)	S-TEC Flight Director Steering Horizon P/N 6413-28L	3.00	63.20	189.6
z.)	S-TEC Flight Director Annunciator P/N 01188-1PX	0.54	67.700	36.49
aa.)	S-TEC Flight Director Placards and trim Kit P/N 90481-1	0.112	67.855	7.593
ab.)	Autopilot Installation Hardware Piper Drawing 104583-002	0.676	65.490	44.264



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(h) Standard Avionics Equipment				
167.	Garmin GNS 530/430 System Installation - Dual COM/NAV/GPS Piper Drawing 104527-002 Cert. Basis TSO C37d,C38d,C40c,C36e,C34e,C129a			
a.)	Garmin GNS530 #1 with mount, connectors and data card Piper PS50040-40-3 Piper Code Number 601-220	8.47	62.955	533.29
b.)	Garmin GNS430 #2 with mount, connectors and data card Piper PS50040-40-1 Piper Code Number 601-214	6.48	62.955	407.95
c.)	Cables/harnesses and hardware Piper Drawing 104383-002	3.964	67.76	268.56
169.	Garmin GI-106 VOR /LOC Indicator Piper Drawing 104527 Piper Code Number 602-239 Cert. Basis-TSO C36c,C40a,C34c	1.02	64.66	65.95
171.	Garmin GTX-327 Transponder Installation with AK-350 and Dual GPS Piper Drawing 101428-002 Cert. Basis-TSO C74C			
a.)	Garmin GTX327 Transponder Unit P/N 011-00490-10, Piper PS50040-12-12 Piper Code 651-938	2.90	63.88	185.25
b.)	Garmin Connector/Rack Kit P/N 011-00338-00 ,PS50040-12-12 Piper Code 651-938	0.64	63.88	40.88
c.)	Garmin Transponder Antenna P/N 010-10160-00 Piper Code Number 683-724	0.21	60.98	12.81
d.)	Harness, Backing plate, and hardware Piper Drawings 101428-002 & 101425-002	1.76	63.81	112.53
173.	Garmin GMA -340 Audio Amp/Intercom Installation Piper Drawing 101249-002 Cert. Basis- TSO C35d,C50c			
a.)	Garmin GMA 340 Audio Selector Panel PS 50040-15-25 Piper Code Number 601-210			
1.)	Garmin P/N 011-00401-10 GMA Audio Panel Marker /Receiver	1.57	63.86	100.26
2.)	Garmin P/N 011-00403-00 Connector/Rack Kit	0.17	63.86	10.86
b.)	PS Engineering Part number 4622SS Headset (2) Piper Code 694-202	2.13	118.00	251.22
c.)	PS Engineering Part number 4622SS Headset (2) Piper Code 694-202	2.13	154.69	329.34
d.)	Harnesses, Brackets and hardware Piper Drawing 101249-002	3.74	114.62	428.79



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(h) Standard Avionics Equipment - continued				
175.	Dual Comm/Nav Antenna Installation with Dual GPS Provisions 101310-002			
a.)	NAV receiving AV12-PPR Antenna Piper Code Number 451-802	0.40	288.82	115.53
1.)	Nav Antenna Cable assembly and hardware Piper Drawing 101310-002	0.497	183.573	91.188
b.)	#1 VHF Comm Comant P/N CI-121 Antenna PS50040-18-2 Piper Code Number 596-664	0.543	168.000	91.140
1.)	Comm #1 Antenna Cable assembly and hardware Piper Drawing 101310-002	0.549	86.923	47.755
c.)	# 2 VHF Comm Antenna Comant P/N CI-122 Piper Code Number 683-725	0.601	112.00	67.312
1.)	Comm #2 Antenna Cable assembly and hardware Piper Drawing 101310-002	0.582	62.790	36.541
d.)	Comant P/N CI-1125 Antenna Coupler Piper Code Number 556-753	0.191	53.665	10.250
e.)	Installation hardware Piper Drawing 101310-002	0.048	53.665	2.597
f.)	GPS Antenna (Dual) Piper Drawing 101273-004			
1.)	Garmin P/N 011-00134-00 GA56 Antenna #1 Piper Code number 683-721	0.24	101.12	24.47
2.)	Garmin P/N 115-00031-00 Backing plate #1 Piper Code number 683-721	0.09	101.12	8.90
3.)	Coax cable #1 Piper Drawing 101265-005	0.52	84.59	44.24
4.)	Garmin P/N 011-00134-00 GA56 Antenna #2 Piper Code number 683-721	0.24	101.12	24.47
5.)	Garmin P/N 115-00031-00 Backing plate #2 Piper Code number 683-721	0.09	101.12	8.90
6.)	Coax cable #2 Piper Drawing 101266-004	0.50	84.59	42.3
177.	Marker Beacon Antenna installation Piper Drawing. 39737-005			
a.)	Marker Beacon Antenna Comant P/N CI-102 PS50040-15-10 Piper Code Number 597-893	0.45	247.43	112.33
b.)	Marker Beacon cable and hardware Piper Drawing 39737-005	0.80	156.06	124.50
179.	Emergency Locator Transmitter Installation Piper Drawing 06327-010 Cert. Basis TSO C91a			
a.)	Artex ELT Model 110-4 Kit Piper code number 599-515			
1.)	Artex Transmitter Model 110-4 Unit/Bracket Piper Code number 599-515	4.260	268.020	1141.765
2.)	Antenna Artex P/N 110-324 Piper Code number 599-515	0.090	240.150	21.614
3.)	Coax Cable Artex P/N 611-6013 Piper Code number 599-515	0.140	254.090	35.573
4.)	Remote Switch Artex P/N 645-6196 Piper Code number 599-515	0.070	67.320	4.712
b.)	Harness and hardware Piper Drawing 06327-010	0.885	214.827	190.224



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(h) Standard Avionics Equipment - continued				
181.	Avionics Cooling Blower Installation Piper Drawing 101319-004			
	a.) Troll Avionics Icebox FN-400 PSV P/N 4000022-002 Blower Piper Code number 460-112	1.18	53.60	63.32
	b.) Cable , bracket and hardware Piper Drawing 101319-004	1.07	59.90	64.00
183.	Cabin Speaker Installation Piper Drawing 84289-5			
	a.) Speaker Assembly Piper Drawing 85430-002			
	1.) Speakers (2), Oaktron P/N 4EU2742 Piper Code number 487-192	1.327	92.830	123.185
	2.) Harness and hardware Piper Drawing 85430-002	0.033	92.830	3.063
	b.) Brackets and hardware Piper Drawing 84289-5	0.171	92.830	15.909
185.	Ground Clearance Switch installation Piper Drawing 87458-006	0.53	60.26	31.91
187.	Pilot's microphone -Piper drawing 79036-023			
	a.) Telex 100T/NH Microphone P/N 62800-001 Piper Code Number 474-657	0.26	73.04	19.06
	b.) Telex Holder P/N 64022-000 and hardware Piper Drawing 79036-023	0.02	73.04	1.57
189.	Pilot's headset-Piper drawing 79036-023			
	a.) Telex 5161A Airman 760 Headset Piper Code Number 692-205	0.20	79.50	16.14
191.	Pilot STEC System 55 Autopilot Switch Assembly Piper Drawing 101117-017	0.29	73.88	21.08
193.	CoPilot Mike Switch assembly Piper Drawing 101117-008	0.068	73.880	5.050
195.	Static Wicks Installation Piper Drawing 78947-12			
	Static Wicks (4) - Wing	0.11	139.9	14.9
	Static Wicks (3) - Empennage	0.08	303.7	24.17
(i) Miscellaneous				
201.	Locking Fuel Caps (2), Piper Drawing 39824-3	0.85	93.85	80.10
203.	Tow Bar, Piper Drawing 69975-2	2.3	193.9	446.0
205.	Fresh Air Blower System			
	Fresh Air Blower Inst. (Drawing 36983-18)	8.8	212.24	1871.5
	Cable Assembly (Drawing 89402-3)	2.0	188.0	376.0

END OF STANDARD EQUIPMENT



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(j) Electrical (Optional Equipment)					
215.	Fin Tail Light Installation replaces standard Fin Tip Piper Drawing 85505-005				
	a.) Light Assembly Whelen P/N A555A-V-28 Piper Drawing 63886-004	☐	0.123	308.00	37.88
	b.) Harness and hardware Piper Drawing 85505-5	☐	0.266	285.20	75.93
	Fin Tail Light Installation Total Weight		0.389	292.40	113.81
(k) Instruments (Optional Equipment)					
Copilot's Advanced Instrumentation					
219.	Truspeed Indicator, Piper PS50049-65T United Instruments 8125-B.765, Cert. Basis - TSO C2b	☒	0.7	66.8	46.8
221.	Attitude Gyro, RCA26BK-6 Cert. Basis - TSO C4c	☐	2.2	64.4	141.7
223.	Altimeter, Piper PS50008-10-2D - United UI5934PD-3A134 Cert. Basis - TSO C10b	☒	0.9	65.9	59.3
225.	Turn and Bank Coordinator, Piper PS50030-3-5 Cert. Basis - TSO C3b	☒	1.2	64.7	77.6
227.	Directional Gyro, Piper PS 50126-5 Cert. Basis - TSO C5c	☒	2.4	64.7	155.3
229.	Vertical Speed Piper Drawing 99010-5 Cert. Basis - TSO C8b	☒	0.7	65.9	46.1
(l) Autopilot (Optional Equipment)					
231.	Altitude Vertical Speed Selector/Altitude Alerter System Piper Drawing 104583-003				
	a.) S-TEC Altitude Selector/Alerter P/N01279-PX Piper Code number 652-1586	☒	1.05	67.700	71.09
	b.) S-TEC Altitude Selector/Alerter Cable and hardware P/N 90482-1	☒	0.334	67.753	22.629
	c.) S-TEC Altitude Selector/Alerter Placards 90482-2	☒	0.002	67.880	0.136
	Altitude Vertical Speed Selector/Altitude Alerter System Total Weight		1.39	67.71296	93.85
233.	Co-pilots Electric Trim System, Piper Drawing 104583-004				
	a.) STEC 90485 Optional Co-Pilots Trim system Kit	☐	1.000	65.500	65.500
	b.) Co-pilots Electric Trim System hardware Piper Drawing 104583-004	☐	0.134	64.704	8.648
	Co-pilots Electric Trim System Total Weight		1.13	65.40621	74.15



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(l) Autopilot (Optional Equipment) - continued					
235.	ST-180 Compass Installation (HSI) S-TEC 901480 Kit with Stormscope/Skywatch Provisions Piper Code number 652-126 104391-003				
	a.) S-TEC P/N 6443-PA Horizontal Situation Indicator	☒	2.90	63.400	183.86
	b.) S-TEC P/N 6444 Remote Gyro	☒	3.40	215.400	732.36
	c.) S-TEC P/N 01171-P Slaving Panel	☒	0.10	67.300	6.73
	d.) S-TEC P/N 6446 Flux Sensor	☒	0.30	89.300	26.79
	e.) S-TEC P/N 90480-1 Kit Hardware Installation	☒	0.63	63.755	40.17
	f.) Compass installation harness and hardware Piper Drawing 104391-003	☒	6.113	111.615	682.31
	Removed Standard Compass ST-180 installation (harnesses and hardware) Piper Drawing (104391-002) (included in Autopilot)		-13.163	125.567	-1652.84
	Delta Weight		0.28	69.19	19.37
237.	Co-Pilot STEC Trim And Mike Switch Assembly - Piper Drawing 101117-018	☐	0.25	73.88	18.13
	Remove Standard Co-Pilot Mike Switch Assembly - Piper Drawing 101117-008		-0.07	73.88	-5.05
	Delta Between Copilot Standard and Optional Mike Switch Installation		0.18	73.88	13.08
(m) Avionics (Optional Equipment)					
241.	Garmin GNS 530 (11-33VDC)/430 (11-33VDC) System Installation - Dual COM/NAV/GPS Piper Drawing 104527-002				
	a.) Garmin GNS530 (11-33VDC) #1 with mount, connectors and data card Piper PS50040-40-5 Piper Code Number 601-228	☐	8.65	62.955	544.66
	b.) Garmin GNS430 (11-33VDC) #2 with mount, connectors and data card Piper PS50040-40-4 Piper Code Number 601-229	☐	6.56	62.955	412.76
	c.) Cables/harnesses and hardware Piper Drawing 104527-002	☐	3.964	67.756	268.56
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.26	62.96	16.18
243.	Garmin GNS 530/430 System Installation - Dual COM/NAV/GPS with DME Provisions Piper Drawing 104527-003				
	a.) Garmin GNS530 #1 with mount, connectors and data card Piper PS50040-40-3 Piper Code Number 601-220	☐	8.47	62.955	533.29
	b.) Garmin GNS430 #2 with mount, connectors and data card Piper PS50040-40-1 Piper Code Number 601-214	☐	6.48	62.955	407.95
	c.) Cables/harnesses and hardware Piper Drawing 104527-003	☐	4.154	67.756	281.431
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.19	67.75	12.87



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(m) Avionics (Optional Equipment) - continued					
245.	Garmin GNS 530 (11-33VDC)/430 (11-33VDC) System Installation with DME Provisions - Dual COM/NAV/GPS Piper Drawing 104527-003				
a.)	Garmin GNS530 (11-33VDC) #1 with mount, connectors and data card Piper PS50040-40-5 Piper Code Number 601-228	☐	8.65	62.955	544.66
b.)	Garmin GNS430 (11-33VDC) #2 with mount, connectors and data card Piper PS50040-40-4 Piper Code Number 601-229	☐	6.56	62.955	412.76
c.)	Cables/harnesses and hardware Piper Drawing 104527-003	☐	4.154	67.756	281.431
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.45	65.00	29.05
247.	Garmin GNS 530/430 System Installation - Dual COM/NAV/GPS with Stormscope and Skywatch provisions Piper Drawing 104527-004				
a.)	Garmin GNS530 #1 with mount, connectors and data card Piper PS50040-40-3 Piper Code Number 601-220	☐	8.47	62.955	533.29
b.)	Garmin GNS430 #2 with mount, connectors and data card Piper PS50040-40-1 Piper Code Number 601-214	☐	6.48	62.955	407.95
c.)	Cables/harnesses and hardware Piper Drawing 104527-004	☐	4.384	67.755	297.014
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.42	67.75	28.46
249.	Garmin GNS 530 (11-33VDC)/430 (11-33VDC) System Installation with Skywatch and Stormscope Provisions - Dual COM/NAV/GPS Piper Drawing 104527-004				
a.)	Garmin GNS530 (11-33VDC) #1 with mount, connectors and data card Piper PS50040-40-5 Piper Code Number 601-228	☒	8.65	62.955	544.66
b.)	Garmin GNS430 (11-33VDC) #2 with mount, connectors and data card Piper PS50040-40-4 Piper Code Number 601-229	☒	6.56	62.955	412.76
c.)	Cables/harnesses and hardware Piper Drawing 104527-004	☒	4.384	67.755	297.014
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.68	65.93	44.64
251.	GPS/NAV/COM Instl - GNS 430/GNS 530 with Skywatch, Stormscope and DME Provisions 104527-005				
a.)	Garmin GNS530 #1 with mount, connectors and data card Piper PS50040-40-3 Piper Code Number 601-220	☐	8.47	62.955	533.29
b.)	Garmin GNS430 #2 with mount, connectors and data card Piper PS50040-40-1 Piper Code Number 601-214	☐	6.48	62.955	407.95
c.)	Cables/harnesses and hardware Piper Drawing 104527-005	☐	4.614	67.755	312.598
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.65	67.76	44.04



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(m) Avionics (Optional Equipment) - continued					
253.	Garmin GNS 530 (11-33VDC)/430 (11-33VDC) System Installation with Skywatch, Stormscope and DME Provisions - Dual COM/NAV/GPS Piper Drawing 104527-005				
a.)	Garmin GNS530 (11-33VDC) #1 with mount, connectors and data card Piper PS50040-40-5 Piper Code Number 601-228	☐	8.65	62.955	544.66
b.)	Garmin GNS430 (11-33VDC) #2 with mount, connectors and data card Piper PS50040-40-4 Piper Code Number 601-229	☐	6.56	62.955	412.76
c.)	Cables/harnesses and hardware Piper Drawing 104527-005	☐	4.614	67.755	312.598
	Removed Standard Garmin GNS530/430 System Installation Dual COM/NAV/GPS -Piper Drawing 104527-002		-18.91	63.96	-1209.80
	Delta System Weight		0.91	66.39	60.22
255.	Garmin GTX-327 Transponder installation With AK-350, Dual GPS and Alt Preselect Piper Drawing 101428-003				
a.)	Garmin GTX327 Transponder Unit P/N 011-00490-10, Piper PS50040-12-12 Piper Code 651-938	☒	2.90	63.88	185.25
b.)	Garmin Connector/Rack Kit P/N 011-00338-00, Piper PS50040-12-12 Piper Code 651-938	☒	0.64	63.88	40.88
c.)	Garmin Transponder Antenna P/N 010-10160-00 Piper Code Number 683-724	☒	0.21	60.98	12.81
d.)	Harness, Backing plate, and hardware Piper Drawing 101428-003 & 101425-002	☒	1.59	63.81	101.24
	Removed Standard GTX 327 System Installation Piper Drawing 101428-002		-5.51	63.75	-351.47
	Delta System Weight		-0.18	63.88	-11.29
257.	S-TEC DME 451 with /450 Indicator installation Piper Drawing 101246-3				
a.)	S-TEC DME Installation Kit PS50040-31-26 Piper Code Number 601-212				
1.)	S-TEC Transceiver TCR-451 P/N 690109	☐	4.80	233.5	1120.8
2.)	S-TEC Transceiver Installation Kit P/N 690224	☐	0.69	233.5	160.4145
3.)	S-TEC Indicator IND-450 P/N 690111-P	☐	0.54	63.88	34.55908
4.)	S-TEC Indicator Installation Kit P/N 690221	☐	0.08	63.88	5.091236
5.)	S-TEC Antenna ANT-451 P/N 690126	☐	0.19	123.74	23.88182
6.)	S-TEC Antenna Installation Kit P/N 690218	☐	0.05	123.74	5.87765
b.)	Harness and hardware Piper Drawing 101246-3	☐	3.55	121.2036	429.72
	S-TEC DME 451 with 450 Indicator Installation Total Weight		9.89	179.95	1780.34



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(m) Avionics (Optional Equipment) - continued					
259.	S-TEC ADF RCR-650A Installation Piper Drawing 101254-002				
a.)	S-TEC ADF Kit (RCR-650A) PS50040-31-27 Piper Code Number 601-213				
1.)	S-TEC Receiver RCR-650A P/N 690108-P	☐	2.44	64.07	156.3308
2.)	S-TEC Receiver Installation Kit P/N 690212	☐	0.55	64.07	35.2385
3.)	S-TEC Indicator IND-650A P/N 690113-P	☐	0.66	64.07	42.2862
4.)	S-TEC Indicator Installation Kit P/N 690217	☐	0.02	64.07	1.2814
5.)	S-TEC Antenna ANT-650A P/N 690124	☐	2.28	194.01	442.3428
6.)	S-TEC Antenna Installation Kit P/N 690215	☐	0.18	194.01	34.92
7.)	S-TEC Power Adapter P/N 01255	☐	0.52	196.80	102.34
b.)	Harness, bracket and hardware Piper Drawing 101254-002	☐	2.87	110.7225	318.29
	S-TEC ADF RCR-650A Installation Total Weight		9.52	118.96	1133.03
261.	S-TEC ADF RCR-650D Installation Piper Drawing 101254-004				
a.)	S-TEC ADF Kit 901483 (RCR-650D) Piper Code Number 652-168				
1.)	S-TEC Receiver RCR-650D P/N 690108-4	☐	2.48	64.07	159.15
2.)	S-TEC Receiver Installation Kit P/N 690212	☐	0.55	64.07	35.2385
3.)	S-TEC Indicator IND-650D P/N 690113-P	☐	0.66	64.07	42.2862
4.)	S-TEC Indicator Installation Kit P/N 690217	☐	0.02	64.07	1.2814
5.)	S-TEC Antenna ANT-650D P/N 690124	☐	2.28	194.01	442.3428
6.)	S-TEC Antenna Installation Kit P/N 690215	☐	0.18	194.01	34.92
7.)	S-TEC Power Adapter P/N 01255	☐	0.52	196.80	102.34
b.)	Harness, bracket and hardware Piper Drawing 101254-004	☐	2.87	110.7225	318.29
	S-TEC ADF RCR-650D Installation Total Weight		9.57	118.70	1135.85
263.	WX500 Stormscope System Installation Piper Drawing 104386-002				
a.)	WX-500 System (Stormscope) BF Goodrich P/N 830-11500-001 Piper Code Number 601-225				
1.)	WX-500 Stormscope Processor BF Goodrich P/N 805-11500-001 Piper Code Number 601-226	☒	1.70	233.44	396.84
2.)	WX-500 NY163 Stormscope Antenna BF Goodrich P/N 805-10930-001 Piper Code Number 683-728	☒	0.81	236.94	190.73
3.)	WX-500 Stormscope Antenna Cable BF Goodrich P/N 803-10950-004 Piper Code Number 653-688	☒	0.39	232.69	89.59
4.)	WX-500 Stormscope Instl. Kit BF Goodrich P/N 817-11500-001 Piper Code Number 601-227	☒	1.15	234.61	269.80
b.)	Cable, Harness, bracket and hardware Piper Drawing 104386-002	☒	1.52	159.28	242.08
	WX500 Stormscope System Installation Total Weight		5.56	213.86	1189.04



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(m) Avionics (Optional Equipment) - continued					
265.	TRC-497 Skywatch System Installation Piper Drawing 104278-2				
	a.) SKY -497 System (Skywatch) Piper Drawing 72496-280				
	1.) TRC-497 Transmitter/Receiver Computer (Skywatch) BF Goodrich P/N 805-10800-001 with Mounting tray assembly P/N 805-10870-001 Piper Code Number 601-223	☒	9.86	215.32	2123.0552
	2.) TRC-497 Instl. Kit BF Goodrich P/N 817-10800-003 Piper Code Number 601-224	☒	0.51	215.32	109.8132
	3.) TRC-497 NY164 Directional Antenna BF Goodrich P/N 805-10890-001 Piper Code Number 683-726	☒	2.31	128.5	296.835
	4.) TRC-497 NY164 Directional Antenna Instl. Kit BF Goodrich P/N 817-10009-006 Piper Code Number 683-727	☒	0.76	128.5	97.0175
	b.) Cable, Harness, bracket and hardware Piper Drawing 104278-2	☒	4.83	148.95	719.77
	TRC-497 Skywatch System Installation Total Weight		18.27	183.19	3346.49
267.	Shelf Installation (Required with DME and WX-500 Stormscope options) Piper Drawing 99466-026				
	a.) Shelf assembly Piper Drawing 101253-004	☒	1.10	233.03	255.29
269.	Inverter Installation - MD 26-28 (required with Skywatch and Stormscope Option) Piper Drawing 104091-005				
	a.) Mid Continent Industries DC-AC Inverter P/N MD26-28 28VDC/26 VAC Piper Code Number 602-248	☒	0.48	199.187	95.61
	b.) Harness and hardware Piper Drawing 104091-005	☒	0.372	144.279	53.683
	Inverter Installation - MD 26-28 with Radar Provisions Total Weight	☒	0.85	175.21	149.29
271.	Pilot Boom Mike – Headset. (Telex -Airman 750) replaces standard Pilot's Headset 5161A Telex Airman 760				
	a.) Pilot's headset-Telex Airman 750 Piper Code Number 464-448	☐	0.26	79.50	20.63
	b.) Removed Standard Pilot headset Telex 5161A Airman 760 Headset Piper Code Number 692-205		-0.20	79.50	-16.14
	Delta Weight		0.06	79.50	4.49



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

Item No.	Item	Mark if Option Installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lbs.-In.)
(n) Miscellaneous (Optional Equipment)					
281.	Air Conditioning Installation HFC 134A - Piper Drawing 85506-4				
	a.) Condenser Installation (Piper Drawing 99855-4)	☒	11.9	223.8	2663.2
	b.) Condenser - Heathcraft P/N 979495 (Piper Code No. 552-250)	☒	4.6	211.8	974.3
	c.) Condenser Frame Assembly (Piper Drawing 99549-20)	☒	3.3	210.0	693.0
	d.) Refrigerant Lines Assembly (Piper Drawing 99980-6)	☒	5.5	163.6	899.8
	e.) Electrical Installation (Piper Drawing 101294-2)	☒	3.74	141.27	528.22
	f.) Air Conditioning Installation Forward of Firewall (Piper Drawing 100920-7)	☒	9.8	6.4	62.7
	g.) Air Conditioning Compressor Assembly, Sanden SD-507 (Piper Drawing 100821-3)	☒	15.0	-1.6	-24.0
	h.) Bulkhead Installation (Piper Drawing 78734-10) - Evaporator Installation Items	☒	4.1	203.8	835.6
	i.) Evaporator - Heathcraft P/N C-6177 (Piper Code No. 552-201)	☒	3.8	192.4	731.1
	j.) Blower Assembly (Piper Drawing 99642-4)	☒	3.9	206.6	805.7
	k.) Receiver-Dehydrator-AMA P/N 37781 (Piper Code number 602-275)	☒	1.36	199.80	271.73
	Fresh Air Blower Installation Piper Drawing 36983-18-Aft		-8.82	212.24	-1871.5
	Remove Cable Installation (Piper Drawing 89402-3)		-2.0	188.0	-376.0
	Delta Weight		56.18	188.00	6193.848
283	Fixed Oxygen System - Scott Aviation Products - 36964-8 Kit Piper Drawing. 100946-2 Revision H (Charged Weight)	☒	28.33	184.913	5239.01

END FACTORY INSTALLED OPTIONS

TOTAL OPTIONAL EQUIPMENT	<u>112.5</u>	<u>146.84</u>	<u>16519.5</u>
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END OF ORIGINAL EQUIPMENT INSTALLATION



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301T, SARATOGA II TC
EQUIPMENT LIST
S/N 3257312 and UP

NO FACTORY INSTALLED EQUIPMENT LISTED THIS PAGE