

AIRCRAFT DESCRIPTION

Registration No. N22KC

Model: PA-32R-301T Popular Name: SARATOGA II TC

Serial No.: 3257076 Type Certificate No.: A350

Colors: WHITE / GREEN + GOLD MET. / LT. GREEN

Engine Manufacturer: LYCOMING Serial Numbers: Single L-10097-61A

Original Engine Model: T1D-540-AH1A Left _____

Right _____

Propeller Manufacturer: HARTZELL Hub or Serial Number: Single HK 347A

Original Propeller Model: HC-I 34R-1RF Left _____

Right _____

Blade Numbers

Left

Right

J16962

J16956

J16965

1999 MODEL

AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
JAN 27 1999	Brought Forward →	10.6	I HAVE INSPECTED THIS AIRCRAFT AND ISSUED A STANDARD AIRWORTHINESS CERTIFICATE DATED <u>JAN 27 1999</u> , I/A/W FAR 21.183(a) PER 21.273. <u>[Signature]</u> FAA DOA SO-1 RICHARD L. MURDOCK	
			THE ALTIMETER AND STATIC SYSTEM TEST REQUIRED BY FAR PART 91.411 HAVE BEEN PERFORMED. THE ALTIMETER(S) HAVE BEEN TESTED TO <u>20,000</u> FT. ON(L) <u>10-21-98</u> (R) <u>N/A</u> SIGNED <u>[Signature]</u> DATE <u>JAN 27 1999</u> RICHARD L. MURDOCK	
			The ELT is installed per FAR 91.207. Battery re- placement date <u>Dec 2000</u> <u>[Signature]</u> D.O.A. No. SO-1 The New Piper Aircraft, Inc. RICHARD L. MURDOCK	
Total To Carry Forward		10.6		

Registration No. N 22KC

and Remarks

Signature

Certificate No.

The ATC Transponder Tests and Inspections required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F.

ATC Transponder:

1. Make GARMIN Model GTK-320 S/N 83500007

2. Make N/A Model N/A S/N N/A

Details of this inspection are on file at this facility under

S/N 3257076 Date 12/13/98

Q.A. Inspector

[Signature]
THE NEW PIPER AIRCRAFT, INC.
VERO BEACH, FLORIDA

RICHARD L. MURDOCK

THE AUTOMATIC PRESSURE ALTITUDE
REPORTING EQUIPMENT TEST REQUIRED BY
FAR PART 91.217 HAVE BEEN PERFORMED THIS

DATE: 12/13/98 SIGNED [Signature]

RICHARD L. MURDOCK

nance

1999

AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
2/8/99	Brought Forward →			
				INSTALLED BFGoodrich WX-1000 +
				STORMSCOPE W/ SKYWATCH AND P. LOT & CO-P. LOT
				BOSE INTERFACES. SKYWATCH INSTALLED IAW
				FAA STC SA 00733CH. All work performed IAW
				MANUF INSTALL INSTRUCTIONS AND APPL FAR'S.
				XANDE/ENC CORRELATION checked AS REQUIRED.
				AK WT& BAL AND
				EQUIP LIST AMENDED
				Maintenance Release: The aircraft and/or component identified herein, was repaired and inspected in accordance with current FAA Regulations and was found airworthy for return to service. Permanent details of the repair are on file at this agency under this work order # 09323
				Date: 2/8/99 Inspector: [Signature]
				SUN AVIATION FAA CRS ECWR4700
Total To Carry Forward				

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL TIO-540-AH1A SERIAL NO. L-10097-61A
DATE 10-29-98 [Signature]
(AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

cd

A. D.
and

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance	and
	This Date	Since Major			
1-20-99	Brought Forward →		S.O	Complied with AD 98- -18-12	
				checked min. torque of 25	
				Cap attaching screws	

SOWELL AVIATION COMPANY INC.

3469 Airport Drive
P.O. Box 1490
Panama City, FL 32401
(904) 785-4325

13 APR 99

7-14-99

Eng Log

To N22KC PA-32R-301T

Serial # 3257076

Hobbs 0040.8 TOTAL Time 0040.8

1. DRAINED OIL AND SERVICED WITH 12 QTS
AEROShell 15W50

2. Replaced and Replaced oil Filter with
A CH 48110

3. Inspected oil Filter No Defects Noted

Total To
Carry Forward

Hobbs

AEROShell

CH 48110

Washed

Reading

and Remarks	Signature	Certificate No.
-18-12 on Fuel Pump s/n D-9515. of 25 in lbs. To the RelF Valve	Donald R. [redacted] Lycoming Rep.	[redacted]

7-14-99

Hobbs 67.5 DRAINED oil and serviced with 129TS
 Aeroshell 15W50 removed and replaced filter with
 CH48110 Filter but Filter open and no defects found
 washed engine and ran and no leaks noted and all
 readings normal at this time.

[redacted]
 [redacted]

S-TEC Corporation

One S-TEC Way
Municipal Airport
Mineral Wells, Texas 76067-9236
Phone: (940) 325-9406
Fax: (940) 325-3904
www.s-tec.com



SERVICE LETTER

NO. 99-002

DATE: 04-08-99

TO: ALL S-TEC DEALERS AND NEW PIPER AIRCRAFT DEALERS

FROM: S-TEC CUSTOMER SERVICE

SUBJECT: ST-536 (SYSTEM 55 FLIGHT CONTROL SYSTEM) installed in Piper aircraft model PA32R-301/T.

- A. Effectivity: Aircraft serial numbers; 3246093, 3246126, 3257076 thru 3257083.
- B. Reason: Pitch performance enhancement (smoother altitude capture during high rate of climb.)
- C. Compliance: As soon as practical.
- D. Description: Replacement of pitch servo and/or modification, replacement of programmer/computer.

Modification consists of:

- 1. Gain access to tail section of fuselage and replace pitch servo.
- 2. Replace or modify programmer/computer.
- 3. Perform ground checks to confirm proper operation (pitch and trim servo direction of rotation).
- 4. Adjust programmer/computer roll centering.
- 5. Logbook entry (stating compliance of SL99-002).

E. Material Required:

The Parts listed below are required to modify one SYSTEM 55 Autopilot:

- 1. 1 EA. 0108-P1 pitch servo.
- 2. 1 EA. 01192-1-47TP programmer/computer
- 3. 1EA. 76987 sheet 1 of 7 drawing
- 4. 1EA. 76987 sheet 4 of 7 drawing

F. Labor: 4 hours (reimbursed if completed within system warranty period.)

G. Approved Data: S T C 8396 SW-D, drawing 76987 rev. D, dated 2-8-99.

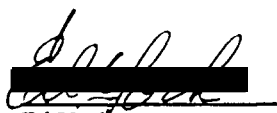
S-TEC Corporation

One S-TEC Way
Municipal Airport
Mineral Wells, Texas 76067-9236
Phone: (940) 325-9406
Fax: (940) 325-3904
www.s-tec.com



NOTE:

- (1) The following information will be required at time of order: aircraft model number, serial number, registration number and model of heading system installed with autopilot.
- (2) This service letter to be complied with by an S-TEC dealer.
- (3) Return programmer/computer to S-TEC factory for modification.
- (4) To reverse the direction of rotation of the pitch servo, reverse pins 3 and 4 (motor drive) and pins 6 and 8 (trim switches) at pitch servo pigtail.
- (5) If any questions contact S-TEC customer service, phone 1-800-872-7832, e-mail support@s-tec.com, FAX 940-325-8808


Ed York
Customer Service Manager

Actual Aircraft WeighingModel PA-32R-301T II TC
Reference Report VB-1647Form 149-54
Page 1 of 1Serial Number 3257076

Standard Paint Scheme (X) Yes () No

Registration Number N22KCEquipped per APO revision E
Exceptions: NONEWeighed w/full oil of 12 qts.Aircraft as Weighed

Scale Position	Scale Readings	Tare	Net weight
Forward Weigh Point	618	-0.65	617.35
Right Weigh Point	948	-1.5	946.50
Left Weigh Point	952	-1.5	950.50

[Signature] / 1/19/99
(Personnel Weighing) / (Date)Total Empty weight 2514.35Calculated weigh Point Moment

Weigh Point Measurements (if necessary)	<u>14.2</u> x <u>617.35</u> = <u>8766.37</u>
Forward: _____	Weigh Point Forward Weight
	POH Dimensions/Actual
Right: _____	<u>109.7</u> x <u>1897.00</u> = <u>208100.90</u>
	Weigh Point Right and Left
Left: _____	POH Dimensions/Actual
	Total Moment <u>216867.27</u>

Note: Datum is 78.4

Standard Empty Weight

	Weight (lbs.)	Inches Aft Datum	Moment (Inch-lbs.)
Total Empty Weight	2514.35	86.252	216867.27
+ Unusable Fuel	30.00	95.20	2856.00
- Optional Equipment	85.78	134.353	11524.83
Standard Empty Weight*	2458.57	84.683	208198.44

Standard Empty weight Range _____ to _____
CG. Range _____ to _____
OFF FILE WEIGHT CALCULATIONS ONLYR. Rosenmeier / 1/25/99
(Calculations performed by) / (Date)*Standard Empty Weight includes full oil capacity and 5 gallons of unusable fuel.

Date Issued:	Issued By	Approved By	Authorized by
Issued: 05/19/97	R. Rosenmeier	Wm. R. Moreu	Richard Murdock

APPROVAL SIGNATURES ON FILE IN QAM MASTER

SECTION 6**WEIGHT AND BALANCE****PA-32R-301T, SARATOGA II TC**

MODEL PA-32R-301T SARATOGA II TC

Airplane Serial Number 3257076Registration Number N22KCDate 1/25/99**AIRPLANE BASIC EMPTY WEIGHT**

Item	C.G. Arm		
	Weight (Lbs)	x (Inches Aft of Datum)	= Moment (In-Lbs)
Actual	2458.6	84.7	208198
Standard Empty Weight*			
Optional Equipment			
Optional Equipment	85.8	134.4	11525
Basic Empty Weight	2544.4	86.4	219723

*The standard empty weight includes full oil capacity and 5.0 gallons of unusable fuel.

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION
$$(\text{Ramp Weight}) - (\text{Basic Empty Weight}) = \text{Useful Load}$$
$$(3615 \text{ lbs}) - (2544.4 \text{ lbs}) = 1070.6 \text{ lbs.}$$

THIS BASIC EMPTY WEIGHT, C.G. AND USEFUL LOAD ARE FOR THE AIRPLANE AS LICENSED AT THE FACTORY. REFER TO APPROPRIATE AIRCRAFT RECORD WHEN ALTERATIONS HAVE BEEN MADE.

WEIGHT AND BALANCE DATA FORM

Figure 6-5

REPORT: VB-1647

ISSUED: JUNE 30, 1997

6-6

PA-32R-301T		Serial Number 3257076		Registration Number N22KC			Page Number	
DATE	Item No.	Description of Article or Modification	Added (+) Removed (-)	Weight Change			Running Basic Empty Weight	
				Wt. (lb)	Arm (in)	Moment /100	Wt. (lb)	Moment /100
1/25/99		As licensed					2544.4	219723

WEIGHT AND BALANCE RECORD
Figure 6-7

ISSUED: JUNE 30, 1997

REPORT: VB-1647
6-7

3106 Cherokee Dr.
Vero Beach, FL 32960
(561)567-0603

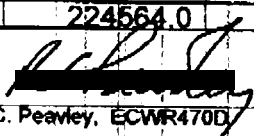
UPDATED WEIGHT & BALANCE/EQUIPMENT LIST

Reg. Number: N22KC
Make/Model: Piper PA-32R-301T
Year: 1999
Serial Number: 3257076

Date: 1/27/99
Hobbs: 15.0
Max Weight: 3615
Work Order: 09284

New A/C Empty Weight: 2568.3
New A/C Empty C.G.: 87.44
New A/C Useful Load: 1046.7

Description	Serial Number	Weight	Arm	Moment	Installed	Removed
Previous Aircraft Empty	3257076	2544.4	86.40	219836.2	n/a	n/a
Removed						
Installed						
WX-1000+ Display	JSD08804095	2.30	63.50	146.1	X	
SKYWATCH Antenna	SKA10800978	2.80	117.00	327.6	X	
SKYWATCH Processor	SKY10800863	9.82	215.00	2111.3	X	
WX-1000+ Processor	JXP08803871	6.67	233.00	1554.1	X	
WX-1000+ Antenna	JSA08802236	2.30	256.00	588.8	X	
New Aircraft Values		2568.3	87.44	224564.0		


R. C. Peavley, ECWR4700

**OPERATOR'S MANUAL
AVCO LYCOMING
Series TIO-540
60297-23**

TIO-540-AH1A

	RPM	HP	Fuel Cons. Gal./Hr.
Normal Rated	2500	300	33.2
Performance Cruise (75% Rated)	2400	225	19.2
Economy Cruise (60% Rated)	2350	180	13.2

RECEIVED

Page

Lubbock Aero
The High Plains Finest FBO
Rt 3 Box 50
Lubbock, Tx 79401
806-747-5101
Your Full Service FBO

JUL 29 1997

NTSB-DEN

Invoice #: 146703

7/19/97

12:56P

Sales Person: MT

Sold To:

Cash

Ron Keeton

Lynn Haven, FL 32444

LN	Type	Number/Name/Code	CR	Aircraft	Quantity	Lst Price	Dsc	Unit Price	Extended
1	Fuel	100 LL		22KC	90.6	2.250		2.250	203.85
Fuel	:	203.85				Subtotal	:		203.85
						Total Due	:		203.85
						Amount Paid	:		203.85
								AvFuel	0.00
						Balance To Acct:			0.00

A Finance Charge of 1.50% monthly, 18.00% Annually,
will be added on balances outstanding past 30 days.

Introduce a Friend To Flying With An Introductory Flight Lesson!

King Air 200 Available for Charter.

We Appreciate Your Business!

Visit our web site @ www.lubbockaero.com

We are now authorized for Static System and Transponder certifications!

New Cessna 172SP Now Available For Rental!

ZAB-ARTCC-173
N22KC

N22KC PA32/A T170 G170 94 403 02	TXO 239 057 1859	19 30	VFR 130	ABQ 116 038 1901	LBB LAS
		CNX 001/010			

0552
ABQ AA+

N22KC 1 PA32/A T170 G167 17 403 06	ABQ 231 026 2000	20 33	180	INW 357 024	LBB LAS
		ZUN 358/014			

0552

Formal Accident
ZAB-ARTCC-173
July 19, 1999

Certificate of Completion
from

ATTITUDES INTERNATIONAL, INC.

This is to certify that

RON KEETON

has completed

Initial Pilot Training

for the

SARATOGA

Date: JULY 15, 1997

Location: Vero Beach, FL

Instructor: Stanley E. R. M.



CLIENT		Ron Keeton		COURSE Saratoga 1997 <i>196KC</i>	
Date	7/23-25/97	Location	Vero	TYPE	INITIAL S/N#87
PREREQUISITE DOCUMENTATION ON FILE				COURSE MATERIAL PREPARATION	
ITEM	On File	NOTES		Syllabus/Cover/Tent	Pin/Pen/Cards
Registration	✓			Simulator Sheet	BFR Exam
Indem. Form	✓			Flight Sheet	BFR Sticker
Cert. of Ins.	✓			Course Exam	BFR/ICC Exam
Pilot License	✓			Weight/Balance	ICC Sticker
Medical Cert.	✓			Certificate of Compl.	Lycoming (350) #1
Course Fee	800	<i>Riser 7/17</i>		<u>Course Evaluation</u>	Lycoming (350) 180+
Deposit	800	<i>124057 8/15/97</i>			Invoice#3246087
Balance	- 0 -				Control#97-211

CURRICULUM

GROUND SCHOOL		Date	Instructor Signature	GROUND SCHOOL	Date	Instructor Signature	
Introduction		7/23	S. R. H.	Human Factors	7/23	H. B.	
Aircraft Familiarization		7/23	S. R. H.	Hydraulic/Landing Gear	7/23	S. R. H.	
Flight Controls		7/23	S. R. H.	Electrical System	7/23	S. R. H.	
Aircraft Performance		7/24	H. B.	Emergency Procedures			
FAR/AIM FMS		7/24	H. B.	Powerplant	7/23	S. R. H.	
Environmental System		7/23	S. R. H.	Pneumatic/De-Ice System	7/23	S. R. H.	
Weight and Balance		7/24	H. B.	Question/Answer	7/24	H. B.	
Fuel System							
SIMULATOR	Time	Date	Instructor Signature	FLIGHT	Time	Date	Instructor Signature
Session #1				Flight #1	2.0	7/24	S. R. H.
Session #2				Flight #2	2.0	7/25	S. R. H.
Session #3				BFR /			
Session #4				ICC			

QUALITY ASSESSMENT

Reviewed By	Date of Review	REVIEWER COMMENTS
<i>[Signature]</i>		

Instructor