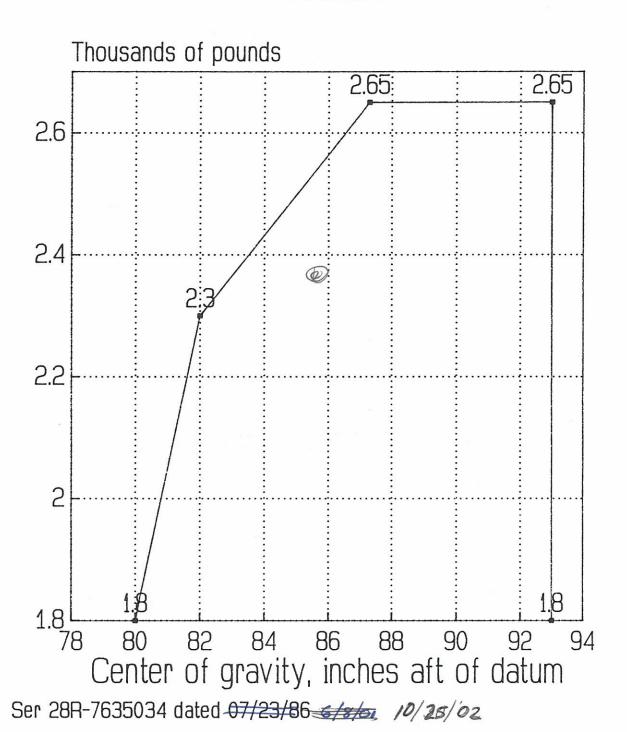
Weight & Balance N4389X



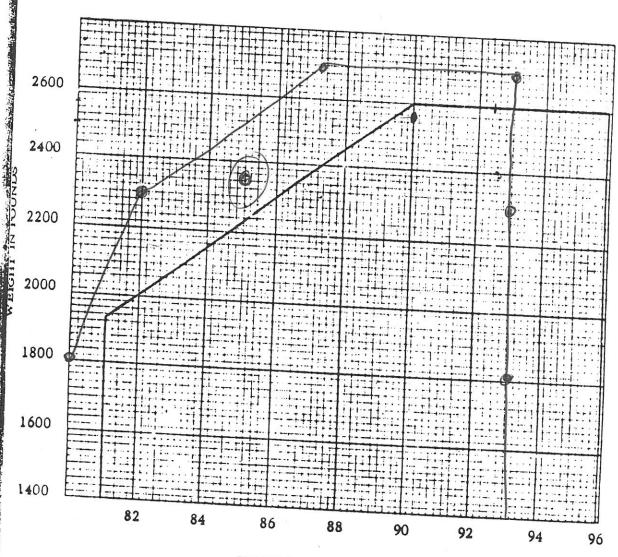
N4389X, PA28R-200, Serial # $28R-7635034\,,$ dated 07-23-86

BASIC EMPTY WEIGHT	1678.4	84.9	141686
	1000.0	80.5	14109
FRONT SEAT PASSENGER/PILOT			
REAR SEAT PASSENGERS		118.1	
FUEL @ 6 lbs/gallon		95.0	
oil at 7.5 lbs/gallon	15	24.5	368
BAGGAGE, max 200 pounds		142.8	
gear retraction			819
TOTAL LOADED AIRPLANE			
	1678.4	84.9	
BASIC EMPTY WEIGHT	1666.9	85.0	141686
FRONT SEAT PASSENGER/PILOT		80.5	
REAR SEAT PASSENGERS		118.1	
FUEL @ 6 lbs/gallon		95.0	
oil at 7.5 lbs/gallon	15	24.5	368
BAGGAGE, max 200 pounds		142.8	
gear retraction			819
TOTAL LOADED AIRPLANE			
	1678.4	84.9	
BASIC EMPTY WEIGHT	1666.9	85.0	141686
FRONT SEAT PASSENGER/PILOT		80.5	
REAR SEAT PASSENGERS		118.1	
FUEL @ 6 lbs/gallon		95.0	
oil at 7.5 lbs/gallon	15	24.5	368
BAGGAGE, max 200 pounds		142.8	
gear retraction			819
TOTAL LOADED AIRPLANE			

Note: Weight in pounds, arm in inches aft-of-datum, and moment in pound-inches.

CHECKED	PIPER AIRCRAFT CORP. DEVELOPMENT GENTER, VERO BEACH, FLA.	Weight and Balance Data Model PA-28R-2001
	REPORT VB-176	PAGE 4 Section i

C. G. RANGE AND WEIGHT



INCHES AFT OF DATUM

MOMENT DUE TO RETRACTING LANDING GEAR = + 819 IN-LBS

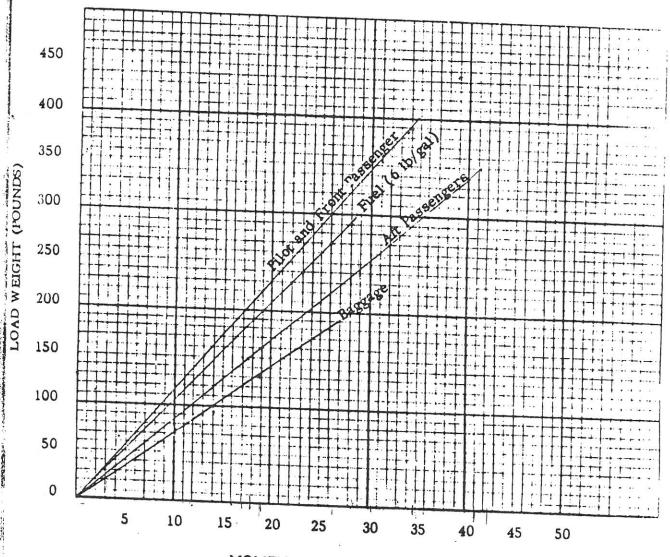
5)

PIPER AIRCRAFT CORP. Weight and Balance Data:
DEVELOPMENT CENTER, VERO BEACH, FLA. Model PA-28R-200

REPORT VB-176

PAGE 3 Section 1

LOADING GRAPH



MOMENT/1000 (POUND-INCHES)

WEIGHT AND BALANCE FOR CHEROKEE ARROW

WARNING

EXTREME CARE MUST BE EXERCISED TO LIMIT THE USE OF THIS REPORT TO APPLICABLE AIRCRAFT. THIS REPORT REVISED AS INDICATED BELOW OR SUBSEQUENTLY REVISED IS VALID FOR USE WITH THE AIRPLANE IDENTIFIED BELOW WHEN APPROVED BY PIPER AIRCRAFT CORPORATION. SUBSEQUENT REVISIONS SUPPLIED BY PIPER AIRCRAFT CORPORATION MUST BE PROPERLY INSERTED.

MODEL PA-28R-200

AIRCRAFT SERIAL NO. 28R-7635034 REGISTRATION NO. N4389X
WEIGHT AND BALANCE, REPORT NUMBER VB-549 REVISION 4

PIPER AIRCRAFT CORPORATION APPROVAL SIGNATURE AND STAMP M. Keller

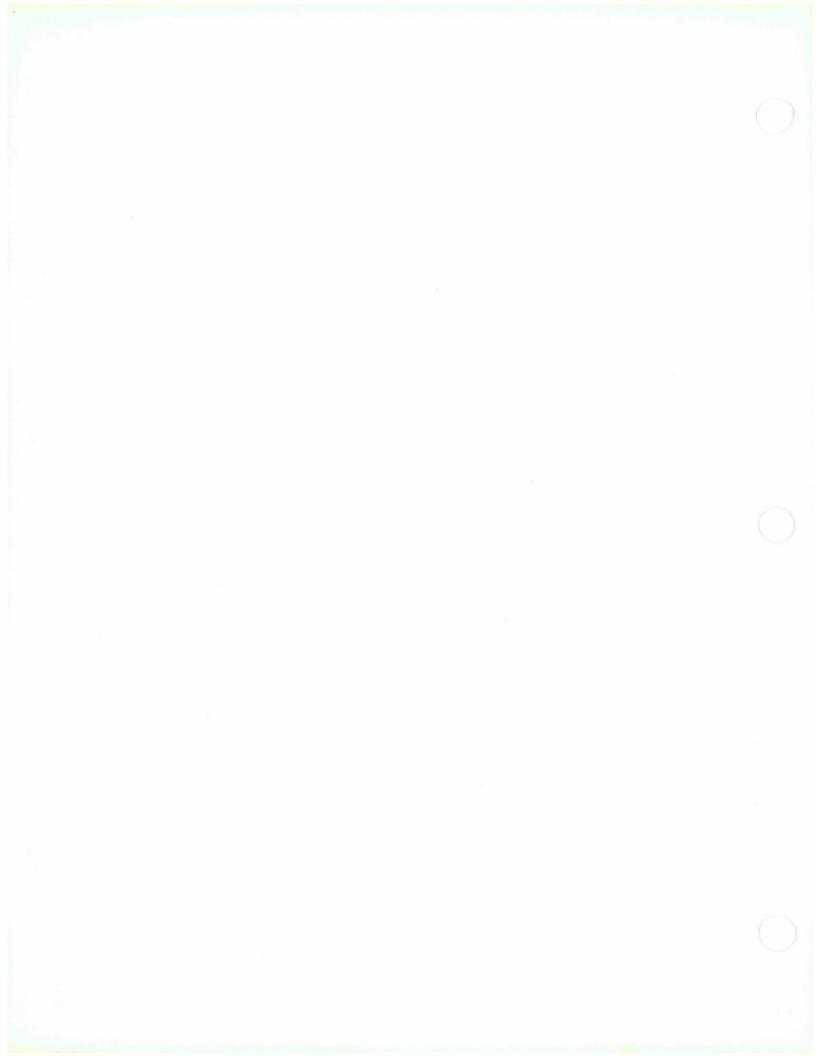
ISSUED: MAY 14, 1973 REVISED: MARCH 25, 1974

REPORT: VB-549 MODEL: PA-28R-200



WEIGHT AND BALANCE

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ISSUED: MAY 14, 1973

REPORT: VB-549 PAGE 5-i MODEL: PA-28R-200 THIS PAGE INTENTIONALLY LEFT BLANK

REPORT: VB-549 PAGE 5-ii MODEL: PA-28R-200 ISSUED: MAY 14, 1973

WEIGHT AND BALANCE LOG OF REVISIONS

	T		
Revision	Revised Pages	Description and Revision	Approved Date
1	5-8 5-14	Revised Fuel Capacity on Sample Problem. Revised Battery and Voltage Regulator Weights and Moments.	Oct. 29, 1973
	5-18 5-21 5-26	Revised Toe Brake Weight and Moment. Revised Battery Weights and Moment. Revised Selector Panel and Marker Beacon	
	5-28	Weights, Arms and Moments. Revised -10 and -12 Microphones Weights, Arms and Moments.	
	5-31	Revised Right and Left Vert. Adj. Front Seats' Weights, Arms and Moments.	~ 1/
	5-32	Revised Ground Vent. Blower; Added Corrosive Resistant Kit.	N. Tennant.
2	Title	Added PAC Approval Form. (NOTE: AIRCRAFT DELIVERED WITH	March 25, 1974
		MANUALS PRIOR TO THIS REVISION DO NOT REQUIRE THIS REVISION.)	O. moldovan
3	5-12 5-14	Added Oil Filters and footnote. Added Annunciator Light and footnote.	June 18, 1974
	5-18	Revised Inertia Safety Belts Weights, Arm, Moment and Part No.	
a	5-20	Added Oil Filter, Lycoming # LW-13743; added Vacuum Pump Model 211cc; added Low Vacuum Annunciator Light; added	2. Harlin
		Vacuum Regulator #133A4; added Vacuum	1/16
	5-23	Regulator * 2H3-19; added footnotes. Added AutoControl IIIB; added footnotes; added ser. nos. to AutoControl III Console.	
	5-25	Added footnotes; relocated Item.	
	5-26	Added item relocated from Page 5-25; revised item entries; added footnote; re-	
	5-27	located items; added Dual KNI-520. Added items relocated from Page 5-26; added	
	5-28	footnote; relocated items. Added items relocated from Page 5-27; added footnote.	
	5-28a 5-28b	Added page. Added page.	

ISSUED: MAY 14, 1973 REVISED: JUNE 18, 1974

REPORT: VB-549 PAGE 5-iii MODEL: PA-28R-200

WEIGHT AND BALANCE LOG OF REVISIONS (cont)

Revision	Revised Pages	Description and Revision	Approved Date
3 (cont)	5-28c	Added page.	
	5-28d	Added page.	
	5-29	Added Encoding Altimeter.	
	5-31	Revised Inertia Safety Belts' Weights, Arm, Moment and Part No.; revised Assist Strap and Coat Hook (62353-5); relocated info	
	5-32	to page 5-32. Added info from page 5-31.	
4	5-12	Deleted Alternator.	June 27, 1975
	5-14	Revised Battery description.	0 00.10
	5-18	Added 79337-3 Right Front Seat.	C.E. Rinkl
	5-21	Revised Rotating Beacon description.	
	5-29	Deleted Vacuum Regulator.	
*	5-30	Added Engine Hour Meter, Radar Altimeter and NSD Gyro; added footnote.	
	5-31	Added 79337-18 Front Headrest; added 79337-18 Rear Headrest; added 79591-0 Left Front Seat; relocated Right Front	
	5-32	Seat to page 5-32. Added Right Front Seat from page 5-31; added 79591-1 Right Front Seat; added 76304-11 and -12 Overhead Vent Systems; added Stainless Steel Control Cables; added footnote.	
5	5-22	Revised Electric Trim System to Piper Pitch Trim 67469-2; added Piper Pitch Trim 67469-3; added footnote.	Dec. 8, 1975
	5-27	Added King KN61 DME and King KN65A DME.	Jarge Tayoling
	5-28	Added Dwg. No. to PAL Transmitter; added PAL Transmitter 79265-6.	
	5-29	Deleted Dwg. No. from Clock.	
	5-30	Added Narco OC-110 Converter and Mount.	
6	5-28	Added PAL Transmitter 79761-4.	July 22, 1976
			Jarge Vargel
	. *		y o
	1		
	1	1	

REPORT: VB-549 PAGE 5-iv MODEL: PA-28R-200

ISSUED: MAY 14, 1973 REVISED: JULY 22, 1976

WEIGHT AND BALANCE LOG OF REVISIONS (cont)

D	I		I
Revision	Revised Pages	Description and Revision	Approved Date
Revision 7	5-11 5-12 5-15 5-29	Added McCauley Propeller and Spinner; added footnotes. Added Lycoming IO-360-C1C6 Engine and footnotes. Added Tachometer and footnotes. Revised Attitude and Directional Gyro dash nos.	Approved Date fame they also Feb. 28, 1977

ISSUED: FEBRUARY 28, 1977

REPORT: VB-549 PAGE 5-v MODEL: PA-28R-200 THIS PAGE INTENTIONALLY LEFT BLANK

REPORT: VB-549 PAGE 5-vi

MODEL: PA-28R-200

ISSUED: FEBRUARY 28, 1977

WEIGHT AND BALANCE

In order to achieve the performance, safety and good flying characteristics which are designed into the aircraft, the Arrow must be flown with the weight and center of gravity (C.G.) position within the approved envelope. The aircraft offers a tremendous flexibility of loading. However, you cannot fill the aircraft with four adults, full fuel tanks and maximum baggage. With the flexibility comes responsibility. The pilot must ensure that the airplane is loaded within the loading envelope before he makes a take-off.

Misloading carries consequences for any aircraft. An overloaded airplane will not take off, climb or cruise as well as when it is properly loaded. The heavier the airplane is loaded the less climb performance it will have.

Center of gravity is a determining factor in flight characteristics. If the C.G. is too far forward in any airplane, it may be difficult to rotate for take-off or landing. If the C.G. is too far aft, the airplane may rotate prematurely on take-off or try to pitch up during climb. Longitudinal stability will be reduced. This can lead to inadvertent stalls and even spins; and spin recovery becomes more difficult as the center of gravity moves aft of the approved limit.

A properly loaded aircraft, however, will perform as intended. The Arrow is designed to provide excellent performance and safety within the flight envelope. Before the aircraft is delivered, the Arrow is weighed and a basic weight and C.G. location computed. (Basic weight consists of the empty weight of the aircraft plus the unusable fuel and full oil capacity.) Using the basic weight and C.G. location, the pilot can easily determine the weight and C.G. position for the loaded airplane by computing the total weight and moment and then determine whether they are within the approved envelope.

The basic weight and C.G. location for a particular airplane are recorded in the aircraft log book or in the weight and balance section of the Airplane Flight Manual. The current values should always be used. Whenever new equipment is added or any modification work is done, the mechanic responsible for the work is required to compute a new basic weight and basic C.G. position and to write these in the aircraft log book. The owner should make sure that it is done.

A weight and balance calculation can be helpful in determining how much fuel or baggage can be boarded so as to keep the C.G. within allowable limits. If it is necessary to remove some of the fuel to stay within maximum allowable gross weight, the pilot should not hesitate to do so.

The following pages are forms used in weighing an airplane in production and in computing basic weight, basic C.G. position, and useful load. Note that the useful load includes fuel, oil, baggage, cargo and passengers. Following this is the method for computing take-off weight and C.G.

ISSUED: MAY 14, 1973 REPORT: VB-549 PAGE 5-1
MODEL: PA-28R-200

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REPORT: VB-549 PAGE 5-2

MODEL: PA-28R-200

ISSUED: MAY 14, 1973

WEIGHT AND BALANCE DATA

WEIGHING PROCEDURE

At the time of delivery, Piper Aircraft Corporation provides each airplane with the licensed empty weight and center of gravity location. This data is on Page 5-7.

The removal or addition of an excessive amount of equipment or excessive airplane modifications can affect the licensed empty weight and empty weight center of gravity. The following is a weighing procedure to determine this licensed empty weight and center of gravity location:

1. PREPARATION

- a. Be certain that all items checked in the airplane equipment list are installed in the proper location in the airplane.
- b. Remove excessive dirt, grease, moisture, foreign items such as rags and tools from the airplane before weighing.
- c. Defuel airplane. Then open all fuel drains until all remaining fuel is drained. Operate engine on each tank until all undrainable fuel is used and engine stops.
- d. Drain all oil from the engine, by means of the oil drain, with the airplane in ground attitude. This will leave the undrainable oil still in the system. Engine oil temperature should be in the normal operating range before draining.
- e. Place pilot and copilot seats in fourth (4th) notch, aft of forward position. Put flaps in the fully retracted position and all control surfaces in the neutral position. Tow bar should be in the proper location and all entrance and baggage doors closed.
- f. Weigh the airplane inside a closed building to prevent errors in scale readings due to wind.

2. LEVELING

- a. With airplane on scales, block main gear oleo pistons in the fully extended position.
- b. Level airplane (see diagram) deflating nose wheel tire, to center bubble on level.

ISSUED: MAY 14, 1973 REPORT: VB-549 PAGE 5-3
MODEL: PA-28R-200

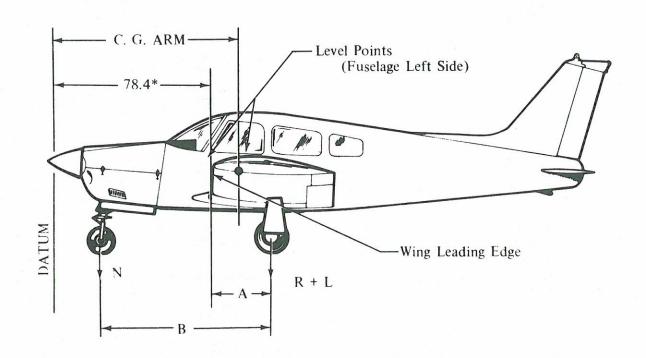
3. WEIGHING - AIRPLANE EMPTY WEIGHT

a. With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.

Scale Position and Symbol	Scale Reading	Tare	Weight
Nose Wheel (N)			
Right Main Wheel (R)		g = 1	
Left Main Wheel (L)			
Airplane Empty Weight, as Weighed (T)			

4. EMPTY WEIGHT CENTER OF GRAVITY

a. The following geometry applies to the PA-28R-200 airplane when airplane is level (See Item 2).



A =

B =

* The datum is 78.4 inches ahead of the wing leading edge at the intersection of the straight and tapered section.

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MODEL: PA-28R-200

ISSUED: MAY 14, 1973

- b. Obtain measurement "A" by measuring from a plumb bob dropped from the wing leading edge, at the intersection of the straight and tapered section, horizontally and parallel to the airplane centerline, to the main wheel centerline.
- c. Obtain measurement "B" by measuring the distance from the main wheel centerline, horizontally and parallel to the airplane centerline, to each side of the nose wheel axle. Then average the measurements.
- d. The empty weight center of gravity (as weighed including optional equipment and undrainable oil) can be determined by the following formula:

C.G. Arm =
$$78.4 + A - \frac{B(N)}{T}$$
C. G. Arm = $78.4 + () - () () =$ inches

5. LICENSED EMPTY WEIGHT AND EMPTY WEIGHT CENTER OF GRAVITY

	Weight	Arm	Moment
Empty Weight (as weighed)			
Unusable Fuel (13 1/3 Pints)	+10.0	103.0	+1030
Licensed Empty Weight			

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REPORT: VB-549 PAGE 5-6 MODEL: PA-28R-200 ISSUED: MAY 14, 1973

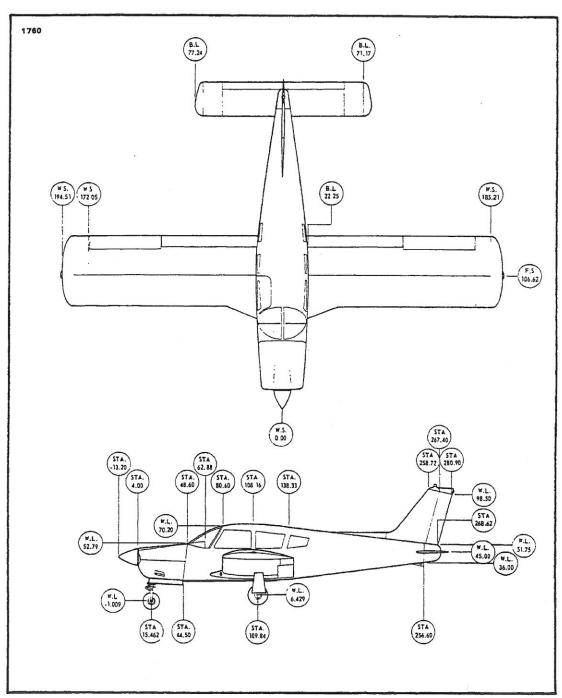


Figure 2-24. Station Reference Lines, PA-28R-200, Serial Nos. 28-7235001 and up

Reissued: 1/15/81

HANDLING AND SERVICING

Aircraft Weight and Balance Revision

Tail Number: N4389X			Date:	2/24	15 11/2/2015		
Prepared by:					Work Order No	97 W	
					Type Certificate	e 4PCI	_M
Aircraft Make:	DIDED					Time:	115:0 22
Registered Owner:				28R-7635034 Address:		JACH.	4519,53
POLISHCHUK ROSTYS	SLAV			3108 BLUE HE SAFETY HARB	ERON ST SOR, FL 34695-5	5304	
Maximum Weight	2650.0		CG Ra	nge FWD	80.0	AFT	93.0
As Received; Date of 09-08-2015	Previous Weight and E	Balance:	Us	seful Load: 979.56	EW: 1670.44	EWCG: 84.75	Moment: 141574.9
Notes: C.G. RANGE: (+80.0) to (+93.0) at 1	1800 lb. or le	ess, (+				
					Weight	Arm	Moment
Removed 52D54 Gyro/					-2.9	59	-171.1
Installed King KI 525A I	ISI Indicator SA: 15	692			3.4	59.1	200.94
Installed King KI 525A a	and King KI 206 Indica	tors wiring			1.9	54	102.6
Installed King KA 51B S	laving Accessory	1 26399	0		0.2	61.7	12.34
Removed King KI206 w	iring				-0.9	54	-48.6
Installed King KMT 112	Magnetic Transmitte	r with moun	it sw:	23437	0.5	118	59
Installed Magnetic Trar	nsmitter wiring				1.5	110	165
Installed King KG 102A	Remote Gyro with mo	ount SN: 3	1305	7Ø	4.8	192	921.6
Installed Remote Gyro					3.1	133	412.3
Installed King KA 57 Au	topilot Adaptor with r	nount			0.4	60	24
Removed King KT 76A 1					-3.1	58.1	-180.11
Installed Garmin GTX 3	27 Transponder with t	ray SN! 8	3371	8216	3.0	59.3	177.9
As Calculated	Moment	143250.7		New Empty	/ Weight CG	New	Useful Load
As Weighed	Weight	1682.34	1	85	.15	g	967.66
				Signature Aure Repair Age or License	Oalans ency No: a+P5	2	TA

Aircraft Equipment List Supplement

N4389X

Item	Weight Lbs.	Arm Aft Datum	Moment In-lbs.	Cert. Basis
Hartzell HC-C3YK Propeller	69	-1.9	-131.1	STC#SA4528NM
Hartzell Propeller Spinner	3.4	-2.2	-7.48	STC#SA4528NM
Copper Battery Cables	5.5	101	555.5	STC#SA3531NM
PS Engineering PMA8000-SR Audiopanel	2.2	60.2	132.44	C50c, C35d
Insight Engineering Strikefinder Display	1.2	59.85	71.82	TSO C110a
Insight Engineering Strikefinder Sensor	0.6	111.1	66.6	TSO C110a
Insight Engineering GEM-602 Engine Monitor	0.75	59	44.25	STC#SA175NE
Garmin GTX 327 Transponder	3.0	59.3	177.9	TSO C74b
King KA-60 Transponder Antenna	0.3	58.75	16	TSO C74b
Comant CI-104 Glide Slope Antenna	0.44	158.3	70.4	TSO C74b
Sky-Tec # 149-12LS Starter	7.8	10.5	81.9	STC#SE00218NY
Precise Flight Standby Vacuum System	1.8	36	64.8	STC#SE1779NM & STC#SA2167NM
Reiff L-4 Engine Preheat System	1.2	18.7	22.44	FAA-PMA PQ2585CE
Trans-Cal SSD120-30A Altitude Encoder/Digitizer	0.7	50	35	TSO C88a
King KX-155 Nav/Comm	5.3	57.6	305.28	C37b, C38b, C36c, C40a, C34c
King KI-204 Course Indicator	1.7	59.5	101.15	C34c, C36c, C40a
King KCS 55a Compass System	15.8	120.1	1897.8	TSO C6c
Garmin 530W GPS	9.2	58	533.6	STC#SA01933LA-D
Garmin GA 35 GPS Antenna	0.6	98	58.8	STC#SA01933LA-D
King KI-206 Course Indicator	1.3	59.9	77.87	C34c, C36c, C40a

Aircraft Weight and Balance Revision

Tail Number: N4389X			Date: 9/8/2015				
Prepared by:			Work Order No:				
				Type Certificate Data No: 4PCLM			
Aircraft Make:	Model:		Serial No:	Data No:	Time:	II√I	
PIPER	PA-28R-200		28R-7635034		Tille.		
Registered Owner: POLISHCHUK ROSTY	SLAV		Address: 3108 BLUE HERON ST SAFETY HARBOR, FL 34695-5304				
Maximum Weight	2650.0	CG Ra	ange FWD	80.0 AFT 93.0			
12-05-2015	Previous Weight and Balance:	U	seful Load: 972.66	EW: 1677.34	EWCG: 84.83	Moment: 142282.86	
Notes: C.G. RANGE:	(+80.0) to (+93.0) at 1800 lb. o	r less, (·	+82.0) to (+93	3.0) at 2300lb.,	(+87.3) to	(+93.0) at 2650 lb.	
				Weight	Arm	Moment	
INSTALLED KING I	XX-155 RADIO, WIRING AN	D TRAY	Y	5.3	57.6	305.28	
	KI-204 INDICATOR			1.7	59.5	101.15	
INSTALLED PS ENG WIRING AND TRAY	GINEERING PMA8000-SR AU	DIOPAN	NEL,	2.2	60.2	132.44	
REMOVED KING KMA-20 AUDIOPANEL, WIRING AND		AND T	TRAY	-2.8	60.2	-168.56	
REMOVED PS ENGINEERING PM-1000-II INTERCO		RCOM		-0.8	60.5	-48.4	
REMOVED LOOP CABLE				-1.8	105.5	-189.9	
REMOVED KING KX-170B RADIO, WIRING AND TRAY				-7.5	56.6	-424.5	
REMOVED KING KI-209 INDICATOR				-1.2	59.5	-71.4	
REMOVED KING KN-75 GLIDESLOPE RECEIVER				-1.5	189.4	-284.1	
REMOVED GS ANTEN	NNA CABLE			-0.5	120.0	-60	
As Calculated	Moment 141	574.9	New Empt	y Weight CG	New	Useful Load	
As Weighed		 570.44		1.75		979.56	
			Signature Warn Repair Age	Sa Paul ency	hn_		
			or License	No: AHP 2	06515	5 IA	

Aircraft Equipment List Supplement

N4389X

	Item	Weight Lbs.	Arm Aft Datum	Moment In-lbs.	Cert. Basis
	Hartzell HC-C3YK Propeller	69	-1.9	-131.1	STC#SA4528NM
	Hartzell Propeller Spinner	3.4	-2.2	-7.48	STC#SA4528NM
	Copper Battery Cables	5.5	101	555.5	STC#SA3531NM
V	PS Engineering PMA8000-SR Audiopanel	2.2	60.2	132.44	C50c, C35d
	Insight Engineering Strikefinder Display	1.2	59.85	71.82	TSO C110a
	Insight Engineering Strikefinder Sensor	0.6	111.1	66.6	TSO C110a
	Insight Engineering GEM-602 Engine Monitor	0.75	59	44.25	STC#SA175NE
	King KT-76A Transponder	3.1	58.1	180.11	TSO C74b
	King KA-60 Transponder Antenna	0.3	58.75	16	TSO C74b
	Comant CI-104 Glide Slope Antenna	0.44	158.3	70.4	TSO C74b
	Sky-Tec # 149-12LS Starter	7.8	10.5	81.9	STC#SE00218NY
	Precise Flight Standby Vacuum System	1.8	36	64.8	STC#SE1779NM & STC#SA2167NM
	Reiff L-4 Engine Preheat System	1.2	18.7	22.44	FAA-PMA PQ2585CE
	Trans-Cal SSD120-30A Altitude Encoder/Digitizer	0.7	50	35	TSO C88a
V	King KX-155 Nav/Comm	5.3	57.6	305.28	C37b, C38b, C36c, C40a, C34c
V	King KI-204 Course Indicator	1.7	59.5	101.15	C34c, C36c, C40a
	Garmin 530W GPS	9.2	58	533.6	STC#SA01933LA-D
	Garmin GA 35 GPS Antenna	0.6	98	58.8	STC#SA01933LA-D
	King KI-206 Course Indicator	1.3	59.9	77.87	C34c, C36c, C40a

David a Partiz 9/8/2015 A+P 2065155 IA

Aircraft Weight and Balance Revision

Tail Number:	N4389X				Date: 12-05-20	014		
Prepared by: BENDER AVIATION SERVICES INC. 1000 N. HERCULES AVE.			Work Order No:					
1				Type Certificate Data No: 4PCLM				
Aircraft Make: PIPER	Mod PA-	el: 28R-200		Serial No: 28R-7635034	Time: 4329.73			
Registered Owner: POLISHCHUK ROST	YSI AV			Address:				
					3108 BLUE HERON ST SAFETY HARBOR, FL 34695-5304			
Maximum Weight			CG R	ange FWD 80	0.0 AFT 93.0			
As Received; Date of 08-25-2002	Previous Weig	ht and Balance:	U	seful Load: 968.56	EW: 1681.44	EWCG: 84.77	Moment: 142530.88	
Notes: C.G. RANGE;	(+80.0) to (+93	i.0) at 1800 lb. or l	ess, (+8	2.0) to (+93.0)	at 2300 lb., (+87			
					Weight	Arm	Moment	
INSTALLED GARMIN 530W, WIRING AND TRAY.					9.2	58.00	533.60	
INSTALLED GA 35 GPS ANTENNA AND CABLE.					0.60	98.00	58.80	
INSTALLED KI-206 COURSE INDICATOR AND CONNECTOR.					1.30	59.90	77.87	
REMOVED KR85 ADF RECEIVER, CONNECTOR AND TRAY.				-4.30	59,40	-255.42		
REMOVED KR85 ADF SENSE ANTENNA AND CABLE.				-0.40	147.50	-59.00		
REMOVED KX170B NAV/COM, CONNECTOR AND TRAY.				-7.60	56.60	-430.16		
RTEMOVED KI-201C COURSE INDICATOR AND CONNECTOR.				-2.90	59.90	-173.71		
			0.00	0.00	0.00			
	***				0.00	0.00 ,	0.00	
					0.00	0.00	0.00	
X As Calculated	Moment	1422	82.86	New Empt	y Weight CG	New	Useful Load	
As Weighed	Weight	16	77.34	84	L83		972.66	
				Signature	<u>-</u>			
					Nies .	Dono		
			Repair Agency or License No: A+ P 3047363					
or			or License	or License No: At \$3047363				

ltem	Weight Lbs.	Arm Aft Datum	Moment In-lbs.	Cert. Basis
NARCO AR-850 Altitude Reporter Coff fg. A & P / 12836	9/NOU/040.7	50	35	TSO C88a
A ずり/12836 Hartzell HC-C3YK Propeller	9 <i>1590</i>	-1.9	-131.1	STC # SA4528NM
Hartzell Propeller Spinner	3.4	-2.2	-7.48	STC # SA4528NM
Copper Battery Cables	5.5	101	555.5	STC # SA3531NM
PS Engineering PM-1000-II Intercom	0.8	60.5	48.4	TSO C50c
Insight Engineering Strikefinder Display	1.2	59.85	71.82	TSO C110a
Insight Engineering Strikefinder Sensor	0.6	111.1	66.66	TSO C110a
Insight Engineering GEM-602 Engine Monitor	0.75	59	44.25	STC # SA175NE
King KT-76A Transponder	3.1	58.1	180.11	TSO C74b
King KA-60 Transponder Antenna	0.3	58.75	16	TSO C74b
Comant CI-104 Glide Slope Antenna	0.44	158.3	70.4	TSO C74b
Sky-Tec # 149-12LS Starter	7.8	10.5	81.9	STC # SE00218NY
Precise Flight Standby Vacuum System	1.8	36	64.8	STC # SE1779NM &
Reiff L-4 Engine Preheat System	1.2	18.7	22.44	STC # SA2167NM FAA-PMA PQ2585CE
Trans-Cal SSD120-30A Altitude Encoder/Digitizer	0.7	50	35	TSO C88a

Oct. 25, 2002

Weight and Balance Data as of June 8, 2001

Weight:

Arm:

Moment: 142508.44

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Moment Change
Install: Reiff SL4 Engine	1.20	18.70	22.44
Preheater System	/	2014	0.00
	12		0.00
			0.00
	7./		0.00
	1/1).		0.00
			0.00
Totals:	1.20		22.44

Weight and Balance Data as of 10/25/2002

Moment:

142530.88

Gross Weight	2650.00	lb.
New Empty Weight	1681.44	lb.
New Empty Weight C.G.	84.77	in.
New Useful Load	968 56	lh

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special one inputy of exposure.

100 (17) 	ofgrev felbouter	
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Manager accessors of the second of the secon		

Salari Village Inc. a	a upic crate thes delev

Weight and Balance Data as of 9/17/98

Weight: 1678.44

Arm: 84.87

Moment: 142443.64

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Moment Change
Install: Precise Flight	1.80	36.00	64.80
Standby Vacuum System			0.00
	0		0.00
	20010	2 //	0.00
	1100/25	1590	0.00
	pe 10/1	N 24 736	0.00
5		1,28	0.00
Totals:	1.80	**	64.80

Weight and Balance Data	as of 6/8/01		Moment:	142508.44
Gross Weight	2650.00	lb.		
New Empty Weight	1680.24	lb.		
New Empty Weight C.G.	84.81	in.		
New Useful Load	969.76	lb.		

Sept. 17, 1998

Weight and Balance Data as of 5/28/97

Weight: 1688.64

Arm:

Moment: 142550.74

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Moment Change
Remove Prestolite Starter	-18.00	10.50	-189.00
Install Sky-Tec 149-12LS	Starter 7.80	10.50	81.90
		(v)	0.00
			0.00
	Je .	200 1/1	0.00
	supercede 8/	a, 3/10/ A	0.00
	me 6	1 P 6 13	0.00
Totals:	-10.20	W & 183	-107.10
	\N	1, / n	

New Weight and Balance Data as of 9/17/98

Weight: 1678.44

Arm: 84.87

Moment: 142443.64

May 28,1997

Weight and Balance Data as of 6/5/96

Weight: Moment: 1688.30 142535.44

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Moment Change
Remove KT-76 Transponder & Tray	-3.10	58.10	-180.11
Install KT-76A Transponder & Tray	3.10	58.10	180.11
Remove Transponder Antenna	-0.15	58.75	-8.81
Install KA-60 Transp. Antenna	0.30	58.75	17.63
Remove G/S Antenna Cable	-0.75	124.45	-93.34
Install G/S Antenna Cable	0.50	120.00	60.00
Install CI-104 G/S Antenna	0.44	90.50	39.82
Totals:	0.34		15.30

New Weight and Balance Data as of 5/28/97

1688.64 Jel Arm: 84.

Moment:

142550.74

June 5, 1996

Weight and Balance Data as of 12/2/95

Weight: 1686.95

Arm:

Moment: 142488.37

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Momen Change
Remove Piper EGT Gauge	-0.70	55.40	-38.78
Add Insight Engine Monitor	0.75	59.00	44.25
Add Probes and Cabling	1.30	32.00	41.60

Totals:

1.35

Super 5/28/27 Horas 1540

47.07

New Weight and Balance Data as of 6/5/96

Weight: 1688.30

Arm:

Moment:

142535.44

December 2, 1995

Weight and Balance Data as of 10/8/94

Weight: 1684.55

Arm:

Moment: 142291.09

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Moment Change
Strikefinder Display	1.20	59.85	71.82
Strikefinder Sensor	0.60	111.10	66.66
Cabling	0.60	98.00	58.80

Totals:

2.40

197.28

New Weight and Balance Data as of 12/2/95

Weight: 1686.95

Arm:

Moment:

142488.37

Super ceded
Super 15/96 NA 15/0
What P8361590

October 8, 1994

Weight and Balance Data as of 9/10/91

Weight: 1666.25

Arm: 85.01

Moment: 141647.91

Changes to Weight and Balance

Equipment Changes	Weight Added(+)	Arm Aft (+)	Moment Change
Remove 2-Blade Prop	-55.00	-1.90	104.50
Remove 2-Blade Spinner	-5.00	-2.20	11.00
Install 3-Blade Prop	69.00	-1.90	-131.10
Install 3-Blade Spinner	3.40	-2.20	-7.48
Remove Mech. Clock	-0.40	62.40	-24.96
Install Electric Clock	0.30	62.40	18.72
Remove Extinguisher	-4.60	71.00	-326.60
Install Extinguisher	4.60	97.00	446.20
Remove Aluminum Cables	-2.60	101.00	-262.60
Instal! Copper Cables	5.50	101.00	555.50
Install Intercom Amplifier	0.80	60.50	48.40
Install Intercom Wiring	2.30	92.00	211.60
Totals:	18.30		643.18

New Weight and Balance Data as of October 8,1994

Weight: 1684.55

Arm: 84.47

Moment: 142291.09

Superceded 1 1 1 2 9 0

GREENLEAF FLIGHT BERVICE, INC. REVISED WEIGHT & BALANCE REPORT

DATE 09/10/Q1

OWNER-

ARTISAN FLYING CLUB, INC.

REGISTRATION-SERIAL NO. -

N-4389X 28R 7635034

AIRCRAFT MAKE-

PIPER

MODEL-

PA28 200R

PF EIGHT AF 1666.75 ====================================		IOMENT 41673.7 0 0 60 0 0 0 0
1666.75	85 1	41673.7 00000000000000000000000000000000000
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	1666.25	1666.25 1

GROSS WEIGHT 2650 LBS.

NEW EMPTY WEIGHT

1666.25 LBS.

NEW EMPTY WEIGHT CG

85.01 INS.

NEW USEFUL LOAD

983.75 LBS.

R.R.GRENINGER A&P114180676

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRPLANE OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.



July 23, 1986

Artisan Flying Club Po Box 15482 Rochester, N.Y. 14615

RE: N4389X, S/N 28R7635034, Piper PA28R-200

The weight and moment change incurred during the radio installation of the above aircraft are calculated below and on the attached sheets. Also see form 337.

Removed the following equipment:

1. King course selector indicator M/N KI-214, P/N 066-3025-01, S/N 1652.

Installed the following equipment:

- 1. King glideslope receiver M/N KN-75, P/N 066-1063-00, S/N 15119.
- 2. King Vor/Loc converter and glideslope indicator M/N KI209, P/N 066-3056-01 S/N 19219.
- 3. Wiring harness and coax cable.

The following is the aircraft empty weight, cg and moments from aircraft weight and balance revision dated 4-27-84.

Weight	<u>Cg</u>	Moments
1665.2	84.83	141258.9

The weight and moment change for this installation is:

Weight	Moments
+1.55	+375.61

The new revised aircraft empty weight, cg, moments and useful load is:

Weight		Moments	<u>Useful load</u>	
1666.75	85.0	141766.01	983.25	

It is the pilots responsibility to ensure that this aircraft is loaded in accordance with limitation set forth in the aircraft specification.

Prepared by: Page Avjet Corp. CRS 3964 Andre H. Blanchard Chief Inspector

Aircraft Services Division

P.O. Box 1132, Rochester, New York 14603, (716) 328-2720, Telex: 97-8208 Executive Offices: 1265 Scottsville Road

Sudu / Aladas

WEIGHT AND BALANCE

S/N 28R-7635034

			1
ITEM	WEIGHT	ARM	MOMENT
Removed the following equipment 1. King course selector indicator M/N KI-214, P/N 066-3025-01, S/N 1652	-3.3	59.9	197.67
Installed the following equipment 1. King glideslope receiver M/N KN-75, P/N 066-1063-00, S/N 15119	+1.5	189.4	284.1
2. King Vor/Loc converter & glideslope indicator M/N KI209, P/N 066-3056-01, S/N 19219 . Wiring harness 4. Coax cable	+1.2 +1.0 +.75	59.5 124.45 124.45	71.4 124.45 93.33
Just alle	+1.55		+375.61
NEG EMPEN LIETCHE 1666.75		÷	
NEW EMPTY WEIGHT			l
NEW E.W.C.G.			
NEW USEFUL LOAD 983.25			

3

TANGER-AIRE INC.
Royalton Airport
Dale & Mackey Rd.
Gasport, N.Y. 14067
716-772-7800

Piper N4389X 1078.93 Pa28R 200 28R7635034 Manufacturer Mode1 S/N Registration Tach Artisan Flying Club Inc. West Ridge Station, Rochester, N.Y. 14615 Owner Address Weight Arm Moment 1664.0 6/5/76 84.85 141201.39 Last Aircraft Log Entry Install Trans Cal Encoder 50.0 60.0 84.83 SUPERSEDED By 337 Dated 7-23-86 Gross Weight 2650.0 New Empty Weight 1665.2 New Empty Weight Center of Gravity 84.83

It is the pilot's responsibility to see that this aircraft is loaded

R. E. arnold

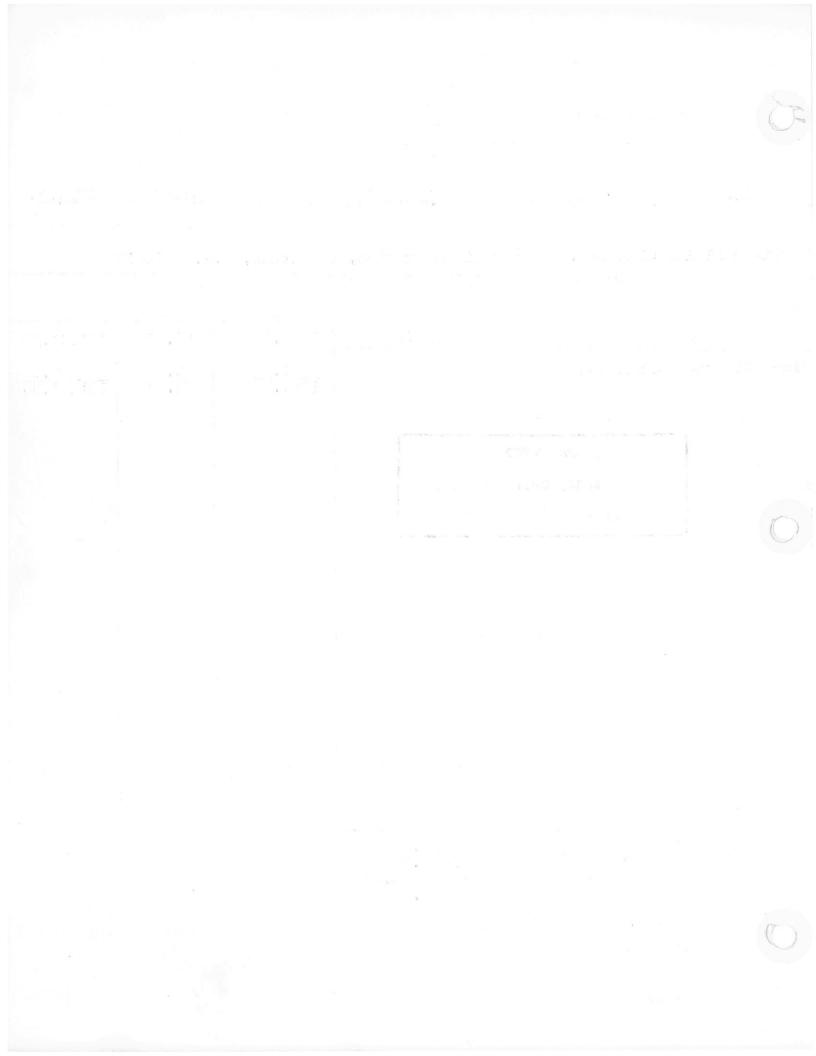
FOR CRS # 1186

n accordance with limitations set forth in the aircraft specifications issued

4-27-1984 Date

New Usefull Load

to this airplane.



TREGO

AVIATION INC.

GARY M. TREGO, PRES.

P. O. BOX 1226

LEE BIRD FIELD
NORTH PLATTE, NEBRASKA
69101

WEIGHT AND BALANCE DATA

June 5, 1976

N4389X Piper PA-28R-200 Serial No. 28R-7635034

Installed fire extinguisher, Scott $2\frac{1}{2}$ lb.

Old Data fire extinguisher	1659.4 4.6	84.89 71.00	1408 74. 39 327.00
New Data	1664.0	84.85	141201.39
New Empty Weight New Empty Weight C. G. New Empty Weight Moment New Useful Load (Normal)		1664.0 lbs. 84.85 ins 41201.39 in. 986.0 lbs.	lbs.

Karyl Clarida A&P 1723503

ATP 1723503

Superselect 4-27-84
RE Canda FOR CRS #1186



PHONE (308) 382-5783

NAME Trego Aviation Inc. ADDRESS P. O. Box 1226 CITY, STATE North Platte, Neb		RCRAFT MAKE PA	-28-R-200 N 4389X
	WEIGHT	ARM	MOMENT
OLD EMPTY ITEM REMOVED:	1637.1	85.1	139279
Whip Com. Ant. King KX 170B	7.5	157.8 56.6	47
#2 Comm Ant. Coax	•5	147.5	60
#2 Comm Ant. Dual KX 170B (King) King KI 214	.5 .5 .15.0	157.8 192.8 56.6 59.9	73.75 96.40 849.00 198.00
King KMA 20 King KR 85 ADF King KI 225 Indicator King Loop Ant.	2.8 4.0 1.3 1.3	60.2 59.4 61.3	169.00 237.60 79.69
Sense Antenna & Cable Marker Ant.	.5	121.5 147.5 174.0	157.95 59.00 87.00
TOTALS	1659.4	84.89	140874.39
EW EMPTY WEIGHT 1659.4			
EW USEFUL LOAD 990.6		namin P	ires
EW EMPTY C.G. 84.89		Marwin P pap 2 1970 Mar	003717.
λ	Superior	5,1970 New	Varfut



WEIGHT AND BALANCE DATA MODEL PA-28R-200 CHEROKEE

Airplane Serial Numbe	r28R-7635034
Registration Number	N4384X
Date	9/11/75

AIRPLANE EMPTY WEIGHT

Item	Weight (Lbs)	C. G. Arm (Inches Aft of Datum)	Moment (In-Lbs)
*Empty Weight Computed	1521.0	83.0	126219
Unusable Fuel (13-1/3 pints)	10.0	103.0	1030
Standard Empty Weight	1531.0	83.1	127249
Optional Equipment	106.1	113.4	12030
Licensed Empty Weight	1637.1	85.1	139279

*Empty weight is defined as dry empty weight (including paint and hydraulic fluid) plus 1.8 lbs undrainable engine oil.

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION

(Gross Weight) - (Licensed Empty Weight) = Useful Load
(2650 lbs) - (1637.1 lbs) = 1012.9 lbs - 25/76 = 946 lb. Useful

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

ISSUED: MAY 14, 1973

REPORT: VB-549 PAGE 5-7 MODEL: PA-28R-200

C. G. RANGE AND WEIGHT INSTRUCTIONS

- 1. Add the weight of all items to be loaded to the licensed empty weight.
- 2. Use the loading graph to determine the moment of all items to be carried in the airplane.
- 3. Add the moment of all items to be loaded to the licensed empty weight moment.
- 4. Divide the total moment by the total weight to determine the C.G. location.
- 5. By using the figures of Item 1 and Item 4, locate a point on the C.G. range and weight graph. If the point falls within the C.G. envelope, the loading meets the weight and balance requirements.

SAMPLE LOADING PROBLEM (Normal Category)

	13 01			
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)	
Licensed Empty Weight	1637.1	-85.1	141201.39	
Oil (8 quarts)	15	24.5	368	
Pilot and Front Passenger	340	80.5	27370	
Passengers, Aft (Rear Seat)	340	118.1	40154	
Fuel (48 Gal. Maximum)	217.9	95.0	20701	
*Baggage	100	142.8	14280	
Moment due to Retracting of Landing Gear			819	
Total Loaded Airplane	2650	91.7	242971	

The center of gravity (C.G.) of this sample loading problem is at 91.7 inches aft of the datum line. Locate this point (91.7) on the C.G. range and weight graph. Since this point falls within the weight-C.G. envelope, this loading meets the weight and balance requirements.

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

REPORT: VB-549 PAGE 5-8 MODEL: PA-28R-200

ISSUED: MAY 14, 1973 REVISED: OCTOBER 29, 1973

^{*}Check Aft C.G. between 150 lbs and 200 lbs.

EQUIPMENT LIST

The following is a list of equipment which may be installed in the PA-28R-200. Items marked with an "X" are items installed when the airplane was delivered by the manufacturer.

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
A.	Propellers and Propeller Accessories				
X	Propeller - Hartzell Model HC-C2YK-1()/7666A-2 or . HC-C2YK-1()F/F7666A-2*	55.0	-1.9	-105	TC P920
	Propeller - McCauley Model B2D34C213/90DHA-16**	49.0	-1.9	-93	TC P7EA
Х	Spinner and Attachment Plate Installation PAC Dwg. 99374*	5.0	-2.2	-11	TC 2A13
	Spinner and Attachment Plate Installation PAC Dwg. 35828-2**	4.7	-2.2	-10	TC 2A13
X	Hydraulic Governor Hartzell Model F-2-7 ()	5.5	34.1	188	TC P920

ISSUED: MAY 14, 1973 **REVISED: FEBRUARY 28, 1977**

REPORT: VB-549 PAGE 5-11 **MODEL: PA-28R-200**

^{*}Serial Nos. 28R-7435001 through 28R-7635516 **Serial Nos. 28R-7635517 and up

	Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	В.	Engine and Engine Accessories - Fuel and Oil Systems				
	X	Engine - Lycoming Model IO-360-C1C**	326	18.7	6096	TC 1E10
		Engine - Lycoming Model IO-360-C1C6***	333	18.7	6227	TC 1E10
	X	Fuel Pump - Electric Auxiliary Weldon *8120-AB	2.8	42.9	120	TC 2A13
	X	Induction Air Filter . Fram Model CA-144PL	.5	37.2	19	TC 2A13
	X	Fuel Pump - Engine Driven Lycoming 75247	1.6	32.0	51	TC 1E10
Remove	2 WY	Starter - 12V Prestolite Model MZ-4206 Lycoming 76211	18.0	10.5	189	TC 1E10
alili.	X	Oil Cooler, PAC 67848	2.6	39.7	103	TC 2A13
	-	Oil Filter with Adapter AC 0F5578770 (3.3 lbs. each) (Lycoming * 75528)*	3.3	33.1	109	TC 2A13
a B	X	Oil Filter, Lycoming *LW-13743 (Champion *CH-48110)*	2.8	33.1	93	TC 2A13

REPORT: VB-549 PAGE 5-12 MODEL: PA-28R-200

ISSUED: MAY 14, 1973 **REVISED: FEBRUARY 28, 1977**

^{*}Serial Nos. 28R-7535001 and up **Serial Nos. 28R-7435001 through 28R-7635516 ***Serial Nos. 28R-7635517 and up

ltem	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
C.	Landing Gear and Brakes				
	Two Main Wheel - Brake Assemblies 40-86 Wheel Assembly (Cleveland)				
<u> </u>	30-55 Brake Assembly (Cleveland) Two Main 4 Ply Rating Tires 6.00-6 with Regular Tubes	34.4	109.8	3777	TC 2A13
	One Nose Wheel Assembly 40-77 Wheel Assembly (Cleveland)				
X	(less brake drum) One 4 Ply Rating Tire				
	5.00-5 Regular Tube	8.1	15.5	126	TC 2A13

ISSUED: MAY 14, 1973

REPORT: VB-549 PAGE 5-13 MODEL: PA-28R-200

		Weight	Arm Aft		Cert.
Item	Item	Lbs.	Datum	Moment	Basis
D.	Electrical Equipment				
	One Battery 12V, 25 Amp Hour				
	Rebat S-25	21.9	168.0	3679	TC 2A13
	Battery Contactor, Piper				
*	63880-0	1.2	168.0	202	TC 2A13
			ı		
X	Stall Warning Detector, Safe	.2	80.2	16	TC 2A13
	Flight Inst. Corp. No. C52207-4	. 4	80.2	10	1C 2A13
X	Switch - Landing Gear Selector				
	Cutler Hammer 8906-K 1736	.2	62.8	13	TC 2A13
X.	Voltage Regulator				
	Wico Electric No. X-16300B	.9	59.4	53	TC 2A13
	0 - 1 - P.1				
X	Overvoltage Relay Wico Electric No. X-16799B	.5	55.4	28	TC 2A13
	Wico Electric No. X-10/77B	.5	33.4	20	TC ZATS
X	Starter Relay				
	Piper Dwg. 99130-2	1.0	47.0	47	TC 2A13
	Landing Gear Motor Contactor				
	Cole-Hersee *24059 (2) .8 lbs. each	1.6	162.0	259	TC 2A13
Σ΄.	(2).0 105. Cacii	1.0	102.0	237	IC ZAIJ
Δ.,	Annunciator Lights *	.9	55.5	50	TC 2A13

REPORT: VB-549 PAGE 5-14 MODEL: PA-28R-200

ISSUED: MAY 14, 1973 REVISED: JUNE 27, 1975

^{*}Serial nos. 7535001 and up

Item	Item		Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
E.	Instruments					
X	Compass - Piper 67462		.9	59.9	54	TSO C7c
	Airspeed Indicator - Piper 67434-2 or -3		.6	61.8	37	TSO C2b
X	Tachometer - Piper 62177-6*		.7	61.2	43	TC 2A13
-	Tachometer - Piper 62177-3**		0.7	61.2	43	TC 2A13
X	Engine Cluster - Piper 95241-2		.8	62.4	50	TC 2A13
X	Engine Cluster - Piper 95241-3		.8	62.4	50	TC 2A13
X	Altimeter - Piper PS50008-2, -3, -4 or -5		1.0	60.9	61	TSO C10b
X	Manifold Pressure and Fuel Flow - Piper PS50031-6	ň	1.7	60.8	103	TSO C45
	Airspeed Indicator - Piper PS 50049-5		.6	61.8	37	TSO C2b

ISSUED: MAY 14, 1973 REVISED: FEBRUARY 28, 1977 REPORT: VB-549 PAGE 5-15 MODEL: PA-28R-200

^{*}Serial Nos. 28R-7435001 through 28R-7635516 **Serial Nos. 28R-7635517 and up

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REPORT: VB-549 PAGE 5-16

MODEL: PA-28R-200

ISSUED: MAY 14, 1973

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
F.	Hydraulic Equipment				
x	Cylinder Hydraulic Nose Gear Piper 67504	.9	45.0	41	TC 2A13
×	Cylinder Hydraulic (2) Main Gear Piper 67505 (0.9 lbs. each)	1.8	108.4	195	TC 2A13
**	Pump Assembly - Piper 67500-2	9.0	159.0	1431	TC 2A13
2%	Switch, Pressure Consolidated Controls *211C243-3	.2	116.7	23	TC 2A13
Σζ.	Valve - Free Fall Piper 67522-2	.3	114.0	34	TC 2A13

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
G	Miscellaneous				
G.	Misceralicous				
340					
x	Forward Seat Belts (2) PS50039-4-2 (.75 lbs. each)	1.5	81.9	123	TSO C22
×	Rear Seat Belts (2) PS50039-4-3 (.70 lbs. each)	1.4	123.0	172	TSO C22
X	Inertia Safety Belts, Front Seats (2) PS50039-4-17 (0.75 lbs. each)	1.5	119.6	179	TC 2A13
25	Toe Brakes (Dual)				ma 44.44
	Piper Dwg. 67018-3	11.0	49.6	546	TC 2A13
	Front Seat				
	(Right) Piper Dwg. 76171-1	13.7	88.0	1206	TC 2A13
24	(Right) Piper Dwg. 79337-3	13.9	87.6	1218	TC 2A13
	Individual Rear Seats(2)				
*	Piper Dwg. 99730-0 and -1 (13.5 lbs. each)	27.0	124.1	3351	TC 2A13
	Flight Manual and Logs	2.6	95.1	247	TC 2A13
25	Tow Bar, Piper Dwg. 67336-0	2.3	155.2	357	TC 2A13

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
Н.	Engine and Engine Accessories - Fuel and Oil System (Optional Equipment)				
	Vacuum Pump Airborne Manufacturing Co.				
	Model 200 CC	5.0	29.6	148	TC 2A13
	Oil Filter with Adapter AC 0F5578770 (3.3 lbs. each) (Lycoming *75528) **	3.3	33.1	109	TC 2A13
	Oil Filter, Lycoming * LW-13743 (Champion	2.0	22.1	0.2	TO 24.12
-	* CH-48110)**	2.8	33.1	93	TC 2A13
×	Vacuum Pump, Airborne Mfg. Co., Model 211cc				
	PAC 79399-0	3.2	29.6	94	TC 2A13
X	Low Vacuum Annunciator Light *	Neglect			TC 2A13
	Vacuum Regulator, Airborne **				
	Mfg. Co., *133A4	.6	52.0	31	TC 2A13
x	Vacuum Regulator, Airborne * Mfg. Co., *2H3-19	.5	52.0	26	TC 2A13

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ISSUED: MAY 14, 1973 REVISED: JUNE 18, 1974

^{*}Serial nos. 7535001 and up **Serial nos. 7435001 through 7435331

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
1.	Electrical Equipment (Optional Eq	uipment)			
X	Landing Light G.E. Model 4509	.5	13.1	7	TC 2A13
×	Navigation Light (Rear) Grimes A2064	.2	281.0	56	TSO C30b
X	Navigation Light (Wing) (2) Grimes A1285-G-12 A1285-R-12				T00 6301
	(0.2 lbs. each)	.4	106.6	43	TSO C30t
_x	Auxiliary Power Receptacle Piper 65647	2.7	178.5	482	TC 2A13
X	External Power Cable Piper 62355-2	4.6	142.8	657	TC 2A13
X	Cabin Speaker Quincy Spkr. Co. 8B-15052	0	00.0	70	TC 2A1
	or Oaktron Ind. GEV 1937	.8	99.0	79	IC 2A13
<u> </u>	Cabin Light	.3	99.0	30	TC 2A13
	Rotating Beacon	1.5	263.4	395	TC 2A13
X	Battery 12V. 35 A.H. Reading R-35 (Weight 27.2 lbs.)	* 5.3	168.0	890	TC 2A1.

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^{*}Weight and moment difference between standard and optional equipment.

Item	Item	Weight Lbs.	Arm Aft	Manage	Cert.
rtem	rtem	LOS.	Datum	Moment	Basis
I.	Electrical Equipment (Optional Equipment) (cont)				
x					
A	Heated Pitot Head - Piper				
	67477-0	.4	100.0	40	TC 2A13
	Anti-Collision Lights				
	Whelen Engineering Co. Piper Dwg. 99030-2 or -5				
	Power Supply, Model HS, No.				
	A412A-14 (with fin light only)	2.3	198.0	455	TC 2A13
20.00	Power Supply, Model HD, T3 No. A413 (with fin and wing				
X	lights)	3.0	198.0	594	TC 2A13
X	Light, Fin Tip, A408	.4	263.4	105	TC 2A13
2%	Light, I in Tip, A400	.4	203.4	103	TC 2A13
	Cable, Fin Light, A417-1/300	.4	230.7	92	TC 2A13
200	Lights, Wing Tip (2)				
	(0.15 lbs. each) No. A429	.3	106.6	32	TC 2A13
X	Cable, Wing Lights				
F102	A417-1/298 & A417-1/252	2.0	115.6	231	TC 2A13
	Electric Trim System	4.3	155.3	668	TC 2A13

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MODEL: PA-28R-200

ISSUED: MAY 14, 1973

ltem	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
J	. Autopilots (Optional Equipment)				
A. S					
	* * * * * * * * * * * * * * * * * * *				
	AutoControl III *	3.5	122.2	206	STC SA1406SV
	_ Roll Servo \$1C363-1-183R	2.5	122.2	306	
	Console ² 1C338 (thru S/N 9999)	1.2	60.1	72	STC SA1406SV
	_ Cables	.7	95.5	67	STC SA1406SV
	_ Attitude Gyro *52D66	2.3	59.4	137	STC SA1406SV
	_ Directional Gyro *52D54	3.2	59.0	189	STC SA1406SV
	Omni Coupler \$1C388	.9	59.3	53	STC SA1406SV
	AutoFlite II				
	Roll Servo *1C363-1-183R	2.5	122.2	306	STC SA1157SV
- 1200	Cable	.7	93.4	65	STC SA1157S
	Panel Unit #52D75-3 or -4	2.4	59.4	143	STC SA1157S
	AutoControl III B **			20/	CTC C 1 1 40 (C)
X	_ Roll Servo * 1C363-1-183R	2.5	122.2	306	STC SA1406SV
<u> </u>	_ Console. *1C338 (S/N 10000 &	1.0	60.1	60	STC SA1406SV
×	up)	.5	95.5	48	STC SA1406S
	_ Cables	2.7	59.4	160	STC SA1406SV
X	Attitude Gyro, * 52D66	2.7	59.4	171	STC SA1406S'
6/4	_ Directional Gyro, * 52D54	2.9	39.0	1 / 1	31C 3A14003
x	_ Omni Coupler, *1C388	1.0	59.3	59	STC SA1406S
	_ Office Couplet, 10000				

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REPORT: VB-549 PAGE 5-23 **MODEL: PA-28R-200**

^{*}Serial nos. 7435001 through 7435331 **Serial nos. 7535001 and up

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MODEL: PA-28R-200

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K.	Radio Equipment (Optional Equipment)				
	Narco Mark 16 Transceiver, Single *	7.5	56.9	427	TC 2A13
	Narco Mark 16 Transceiver, Dual*	15.0	56.9	854	TC 2A13
	Narco VOA-50M Omni Converter*	2.1	59.9	126	TC 2A13
	Narco VOA-40M Omni Converter *	1.9	59.9	114	TC 2A13
	Narco VOA-40 Omni Converter *	1.9	59.9	114	TC 2A13
X	Nav. Receiving Antenna	.5	265.0	133	TC 2A13
х_	Cable, Nav. Antenna	.9	157.0	141	TC 2A13
X	#1 VHF Comm. Antenna	.5	157.8	47	TC 2A13
X	Cable, #1 VHF Comm. Antenna	.4	103.4	41	TC 2A13
X	#2 VHF Comm. Antenna	.5	192.8	58	TC 2A13
X	Cable, #2 VHF Comm. Antenna	.5	147.5	60	TC 2A13
	Anti Static Kit # 1 VHF Comm. Antenna	1.0	160.8	161	TC 2A13
	Cable, #1 VHF Comm. Antenna	.4	103.4	41	TC 2A13
	# 2 VHF Comm. Antenna	1.0	195.8	196	TC 2A13
	Cable, #2 VHF Comm. Antenna	.5	120.9	60	TC 2A13
	Low Frequency Antenna	.5	147.5	74	TC 2A13
	Static Wicks		_		TC 2A13

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^{*}Serial nos. 7435001 through 7435331

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
Κ.	Radio Equipment (Optional Equipment) (cont)				<u>Lan</u>
	Bendix ADF-T-1 2C or D * Receiver Model 201F	3.9	59.4	232	TC 2A13
	Receiver Model 201 C or D	3.5	59.4	208	TC 2A13
	Audio Amplifier 102A	.8	52.4	42	TC 2A13
	Servo Indicator 551A	1.7	60.9	104	TC 2A13
	Loop Antenna 2321E	1.3	160.8	209	TC 2A13
	Cable, Interconnecting	2.3	108.0	248	TC 2A13
	Sense Antenna and Cable	.4	150.0	60	TC 2A13
	Narco Comm 10 () Narco Comm 11 () Dual Comm 11 ()	3.9 3.6 7.1	57.4 57.4 57.4	224 207 408	TC 2A13 TC 2A13 TC 2A13
	Narco Nav 10 Narco Nav 11 Narco Nav 12 Dual Nav 11	1.9 2.8 3.4 5.6	58.6 58.6 58.6 58.6	111 164 199 328	TC 2A13 TC 2A13 TC 2A13 TC 2A13
X X X	King KX-170 () or KX-175 () Dual KX-170 () or KX-175 () King KI-201 () King KI-21 1 () Dual KI-201 () Dual KNI-520	7.5 15.0 2.5 3.3 5.0 5.6	56.6 56.6 59.9 59.9 59.9	425 849 150 198 300 335	TC 2A13 TC 2A13 TC 2A13 TC 2A13 TC 2A13 TC 2A13
	Narco ADF-31* Panel Unit Sensor Unit Sensor Cable Sensor Antenna and Cable	5.0 2.5 2.3 .4	58.5 162.7 105.6 150.0	293 407 243 60	TC 2A13 TC 2A13 TC 2A13 TC 2A13

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^{*}Serial nos. 7435001 through 7435331

n	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K.	Radio Equipment (Optional Equipment) (cont)				
X	King KR-85	4.2	50.4	255	TC 2A13
K	Receiver Servo Indicator	4.3 1.2	59.4 61.3	255 74	TC 2A13
K	Loop Antenna	1.3	161.5	210	TC 2A13
K	Loop Cable	1.8	105.5	190	TC 2A13
X.	Audio Amplifier	.8	51.0	41	TC 2A13
<u> </u>	Sense Antenna and Cable	.4	147.5	59	TC 2A13
	Narco CP-25B/125 Selector *				TC 24.12
	Panel	1.2	55.0	66	TC 2A13
	Narco MBT-12-R Marker Beacon	3.1	69.1	214	TC 2A13
	Narco Comm 110*	3.0	57.4	172	TC 2A13
	Narco Comm 111	3.0	57.4	172	TC 2A13
	Narco Nav 110 *	1.7	58.6	100	TC 2A13
	Narco Nav 111	2.5	58.6	147	TC 2A13
	Narco Nav 112	3.3	58.6	193	TC 2A13
	PM-1 Marker Beacon*				
	Receiver	1.1	121.3	133	TC 2A13
	Remote Unit	.3	128.4	39	TC 2A13
	Cable	.3	85.0	26	TC 2A13
	UGR-2A Glide Slope Receiver	2.4	173.8	417	TC 2A13
	Cable	1.8	128.0	230	TC 2A13
	Antenna	.4	92.4	37	TC 2A13
	Cable, Antenna	.5	145.0	73	TC 2A13
	King KN60C DME			201	TC 24 12
	Receiver	6.8	56.7	386	TC 2A13
	Antenna	.2	112.1	22	TC 2A13
	Cable, Antenna	.3	83.1	25	TC 2A13
	King KN61 DME	12.5	179.0	2237	TC 2A13
	King KN65A DME	13.0	174.9	2274	TSO C66a

*Serial nos. 7435001 through 7435331

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K	. Radio Equipment (Optional Equipment) (cont)				
	IFD Starlight Transponder *				
	Panel Unit	2.3	59.4	137	TC 2A13
	Antenna	.1	47.2	5	TC 2A13
	Cable	.3	46.5	14	TC 2A13
	IFD Skyline 300 Transponder *				
	Panel Unit	1.7	60.4	103	TC 2A13
-	Remote Unit	1.8	53.1	96	TC 2A13
	Antenna	.1	47.5	5	TC 2A13
	Cable	.1	52.1	. 5	TC 2A13
	Piper Automatic Locator				
	Transmitter, Piper Dwg.				
	79265-0	1.7	236.2	402	TC 2A13
	Transmitter, Piper Dwg.				
	79265-6	1.3	236.2	30 7	TC 2A13
V	Transmitter, Piper Dwg.				
<u> </u>	79761-4	1.7	236.2.	402	TC 2A13
X	Antenna & Coax Shelf & Access Hole	.2	224.4 235.4	45 78	TC 2A13 TC 2A13
		.55	233.4	70	1C 2A13
X	King KT76/38 Transponder				
X	Panel Unit	3.1	58.1	180	TC 2A13
	Antenna & Cable	11 11	7 -	-	TC 2A13
	Narco AT-50A Transponder				
	(Includes Antenna & Cable)	3.0	57.3	172	TC 2A13
	(metados rintenna de Cable)	3.0	37.3	1/2	IC ZAIS
X	King KMA-20 () Audio Panel	2.8	60.2	169	TC 2A13
X_	Antenna	.5	116.3	58	TC 2A13
X	Cable	.4	87.5	35	TC 2A13
	Audio Selector Panel - Piper *				
	99395-0, -2, or -3	.7	61.3	43	TC 2A13
	Missaultana (Carlana)				
X	Microphone (Carbon) Piper Dwg. 68856-10	2	64.0	10	TC 24.12
	1 ipol D wg. 00030-10	.3	64.9	19	TC 2A13
	Microphone (Dynamic)				
	Piper Dwg. 68856-12	.3	64.9	19	TC 2A13
Х	Headset	_	(0.0	20	TC 24.12
	Headset	.5	60.0	30	TC 2A13
*Serial no	os. 7435001 through 7435331				

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K.	Radio Equipment (Optional Equipment) (cont)				
	King KI-213 VOR/LOC/GS Indicator *	2.5	60.4	151	TC 2A13
	King KR-8 ADF * Receiver Loop Antenna Loop Cable Audio Amplifier Sense Antenna & Cable	3.9 1.5 1.3 0.8 0.4	59.4 161.5 105.5 51.0 147.5	232 242 137 41 59	TC 2A13 TC 2A13 TC 2A13 TC 2A13 TC 2A13
	King KR-86 ADF (2nd)* Receiver Loop Antenna Loop Cable Sense Antenna & Cable	3.9 1.5 1.3 3.0	59.4 150.7 105.0 147.5	232 226 137 443	TC 2A13 TC 2A13 TC 2A13 TC 2A13
	King KN-73 Glide Slope Receiver *	3.2	184.3	590	TC 2A13
	King KN-77 VOR/LOC Converter *	3.6	183.6	661	TC 2A13
	King Dual KN-77 VOR/LOC Converter *	7.8	183.6	1432	TC 2A13
	King KN-65 DME * Receiver Antenna Cable, Antenna Indicator	7.6 0.2 0.3 1.0	201.6 112.1 157.1 60.0	1532 22 47 60	TC 2A13 TC 2A13 TC 2A13 TC 2A13
	King KN-74 R-Nav * Computer Cable Assy.	3.7 1.0	57.6 53.0	213 53	TC 2A13 TC 2A13
	King KI-214 VOR/LOC Indicator *	3.3	59.9	198	TC 2A13

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^{*}Serial nos. 7535001 and up

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K.	Radio Equipment (Optional Equipment) (cont)				
	Narco Comm 11B VHF Transceiver *	3.9	57.4	224	TC 2A13
	Narco Dual Comm 11B VHF Transceiver *	7.8	57.4	448	TC 2A13
	Narco Dual Comm 111 VHF Transceiver*	6.0	57.4	344	TC 2A13
	Narco Comm 111B VHF Transceiver*	3.9	57.4	224	TC 2A13
	Narco Dual Comm 111B VHF Transceiver *	7.8	57.4	448	TC 2A13
	Narco Nav 14 VHF Receiver*	2.5	57.4	144	TC 2A13
	Narco Nav 114 VHF Receiver *	2.5	57.4	144	TC 2A13
	Narco UGR-3 Glide Slope * Receiver Cable Antenna Cable, Antenna	2.4 1.8 0.4 0.5	173.8 128.0 92.4 145.0	417 230 37 73	TC 2A13 TC 2A13 TC 2A13 TC 2A13
-	Narco CP-125 Audio Selector Panel*	2.2	55.0	121	TC 2A13
	Narco ADF-140* Receiver Servo Indicator Loop Antenna Cable, Loop Sense Antenna and Cable	2.5 1.3 1.6 0.6 0.4	58.3 61.0 162.0 105.5 147.5	146 79 259 63 59	TC 2A13 TC 2A13 TC 2A13 TC 2A13 TC 2A13

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^{*}Serial nos. 7535001 and up

Item	ltem	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K.	Radio Equipment (Optional Equipment) (cont)				
	Narco Dual ADF-140*				
	Receivers	5.0	58.3	292	TC 2A13
	Dual Needle Indicator	3.5	61.0	214	TC 2A13
	Loop Antenna *1	1.6	162.0	259	TC 2A13
	Cable, Loop * 1	0.6	105.5	63	TC 2A13
	Sense Antenna and Cable * 1	0.4	143.8	58	TC 2A13
	Loop Antenna *2	1.6	150.0	240	TC 2A13
	Cable, Loop *2	0.6	93.5	56	TC 2A13
	Sense Antenna and Cable * 2	3.0	143.8	431	TC 2A13
	Remote for Dual Ind.	2.0	185.5	371	TC 2A13
	Narco DME-190*				
	Receiver	5.2	61.8	321	TC 2A13
	Antenna	0.3	113.9	34	TC 2A13
	Cable, Antenna	0.4	85.6	34	TC 2A13
	Microphone (Dynamic)*				
	Piper Dwg. 68856-11	0.6	69.9	42	TC 2A13

^{*}Serial nos. 7535001 and up

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ISSUED: JUNE 18, 1974

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L.	Instruments (Optional Equipment)				
X	Suction Gauge - Piper 99480-0 or -2	.5	62.2	31	TC 2A13
X	Vacuum Filter, Piper 66673	.3	52.0	16	TC 2A13
X	Indicator - Rate of Climb - Piper 99010-2, -4, or -5	1.0	60.9	61	TSO C8b
	Indicator - Rate of Climb - Piper 99010-3	.5	62.2	31	TSO C8b
	Attitude Gyro - Piper 99002-2, -3, -4, or -8	2.2	59.4	131	TSO C4c
	Directional Gyro - Piper 99003-2, -3, -4, or -7	2.6	59.7	155	TSO C5c
X	Air Temperature Gauge Piper Dwg. 79316	.2	72.6	15	TC 2A13
X	Clock	.4	62.4	25	TC 2A13
X	Turn and Slip Indicator - Piper PS50030-2 or -3	2.6	59.7	155	TSO C3B Type II
Removed x	Exhaust Gas Temperature Gauge Piper 99026	.7	55.4	39	TC 2A13
X	Tru-Speed Indicator Piper 67433-2 or -3 or PS50049-4	(same as S	tandard Equ	ipment)	
	Encoding Altimeter PS50008 -6 or -7	* .9	60.3	54	TSO C10b, C88

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^{*} Weight and Moment difference between standard and optional equipment.

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L.	Instruments (Optional Equipment) (cont)				
	Engine Hour Meter* Piper Dwg. 79548-0	.3	61.2	18	TC 2A13
	MK10 Radar Altimeter* Piper Dwg. 37693-2	5.4	156.3	844	TC 2A13
	NSD-360 Gyro*	4.1	59.0	241	TSO C52a
	Narco OC-110* Converter and Mount	2.1	185.5	390	TSO C5c TSO C36c C40a

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ISSUED: MAY 14, 1973 REVISED: DECEMBER 8, 1975

^{*}Serial nos. 28R-7635001 and up.

Item	ltem	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
М.	Miscellaneous (Optional Equipment)				
×	Assist Step Piper 65384-0	1.8	156.0	281	TC 2A13
	Assist Strap and Coat Hook Piper 62353-5	.2	109.5	22	TC 2A1.
X	Assist Strap Piper Dwg. 79455	.2	109.5	22	TC 2A1.
	Inertia Safety Belts. Rear Seats (2) PS50039-4-14	1.6	140.3	224	TC 2A1.
	Lighter 200462 (12V Universal)	.2	62.9	13	TC 2A1
Х	Fire Extinguisher, Scott Aviation 42211-00 Piper Dwg. 76167-2	4.6	71.0	327	TC 2A1
	Headrests. (2) (1.0 lbs each) (Front) Piper Dwg. 99255-3 (Front) Piper Dwg. 79337-18	2.0 2.0	94.5 94.5	189 189	TC 2A1 TC 2A1
×	Headrests, (2) (1.0 lbs each) (Rear) Piper Dwg. 99255-3 (Rear) Piper Dwg. 79337-18	2.0 2.0	132.1 · 132.1	264 264	TC 2A1 TC 2A1
×	Alternate Static Source	.4	61.0	24	TC 2A1
	Calibrated Alternate Static Source	24			
	Placard Required: Yes No_				
	Zinc Chromate Finish	5.0	158.0	790	TC 2A1
	Air Conditioner Instl.	68.9	105.0	7235	TC 2A1
- X	Vert. Adj. Front Seat (Left) Piper Dwg. 76340-0 (Left) Piper Dwg. 79591-0	* 6.6 * 6.6	80.7 80.3	533 530	TC 2A TC 2A

^{*} Weight and Moment difference between standard and optional equipment.

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
Μ.	Miscellaneous (Optional Equipment)	(cont)			
	Vert. Adj. Front Seat				
	(Right) Piper Dwg. 76340-1	* 6.8	80.0	544	TC 2A13
-	(Right) Piper Dwg. 79591-1	* 6.6	79.6	525	TC 2A13
X	Super Cabin Sound Proofing				
	Piper Dwg. 79030-4	18.1	86.8	1571	TC 2A13
	Cabin Overhead Vent System				
-	Piper Dwg. 76304-3	5.9	157.9	932	TC 2A13
	Cabin Overhead Vent System				
	With Ground Ventilating Blower				
-	Piper Dwg. 76304-4	13.5	170.4	2300	TC 2A13
	Cabin Overhead Vent System				
	Piper Dwg. 76304-11	6.4	159.6	1022	TC 2A13
	Cabin Overhead Vent System				
X	With Ground Ventilating Blower				
-	Piper Dwg. 76304-12	14.0	170.7	2390	TC 2A13
	Corrosive Resistant Kit	3.0	106.0	318	TC 2A13
	Stainless Steel Control				
	Cables				TC 24.12
		550			TC 2A13

TOTAL OPTIONAL EQUIPMENT

<u>106.1</u> <u>113.4</u> <u>12030</u>

EXTERIOR FINISH

Base Color ___Juneau White

Registration No. Color Blue

Trim Color Madrid Red

Type Finish ____Lacquer

Accent Color ___ Bahama Blue

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ISSUED: MAY 14, 1973 REVISED: JUNE 27, 1975

^{*}Weight and Moment difference between standard and optional equipment.