

WEIGHT AND BALANCE

FOR

CHEROKEE SIX 260

APPLICABLE TO SERIAL NUMBERS 32-740001 THROUGH 32-760024

WARNING

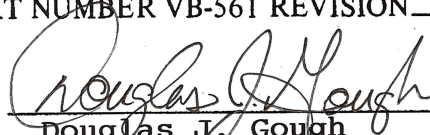
EXTREME CARE MUST BE EXERCISED TO LIMIT THE USE OF THIS MANUAL TO APPLICABLE AIRCRAFT. THIS MANUAL REVISED AS INDICATED BELOW OR SUBSEQUENTLY REVISED IS VALID FOR USE WITH THE AIRPLANE IDENTIFIED BELOW WHEN APPROVED BY PIPER AIRCRAFT CORPORATION. SUBSEQUENT REVISIONS SUPPLIED BY PIPER AIRCRAFT CORPORATION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

MODEL PA-32-260

AIRCRAFT SERIAL NO. 32-740029 REGISTRATION NO. _____

AIRPLANE FLIGHT MANUAL, REPORT NUMBER VB-561 REVISION 8

PIPER AIRCRAFT CORPORATION
APPROVAL SIGNATURE AND STAMP


Douglas J. Gough



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REPORT: VB-550
MODEL: PA-32-260

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WEIGHT AND BALANCE LOG OF REVISIONS

Revision	Revised Pages	Description and Revision	Approved Date
1	5-7 5-8 5-14 5-16 5-17 5-19 5-25 5-26 5-27 5-28	Revised Table Heading; added Oil and Basic Weight to Table. Changed Licensed Empty Weight and Licensed Basic Weight to Basic Weight. Revised Battery and Voltage Regulator Weights and Moments. Revised Toe Brakes Weight and Moment. Added Vacuum Pump (79399-0). Revised Battery Weights and Moment. Revised Selector Panel and Marker Beacons' Weights, Arms and Moments. Revised 68856-10 and -12 Microphones Weights, Arms and Moments. Revised Main and Nose Wheel Fairings' Weights, Arms and Moments; removed Cabin Overhead Vent System; revised Ground Vent Blower Weight, Arm and Moment; added Footnote. Revised Left and Right Adj. Front Seats' Weights, Arms and Moments; added Corrosive Resistant Kit.	Jan. 18, 1974 <i>J. J. J.</i>
2	Title	Added PAC Approval Form. (NOTE: AIRCRAFT DELIVERED WITH MANUALS PRIOR TO THIS REVISION DO NOT REQUIRE THIS REVISION.)	June 4, 1974 <i>gm</i>
3	5-12 5-14 5-16 5-17 5-19 5-20 5-21	Added Oil Filters; added footnote. Added Annunciator Lights; added footnote. Revised Part No., Weight, Arm and Moment of Inertia Safety Belts. Added Oil Filter, Low Vacuum Annunciator Light, and Vacuum Regulator No. 2H3-19; Revised Vacuum Regulator No. 133A4 Weight and Moment; added footnotes. Revised Instrument Light Part No., Weight, Arm and Moment. Added Instrument Panel Lights. Added Encoding Altimeter.	June 19, 1974 <i>R. Hamlin</i>

WEIGHT AND BALANCE LOG OF REVISIONS (cont)

Revision	Revised Pages	Description and Revision	Approved Date
3 (cont)	5-22	Added AutoControl IIIB; added AltiMatic IIIC; added footnotes; added ser. no. to AutoControl III Console.	
	5-23	Revised nomenclature (Narco Dual Comm); added footnote.	
	5-24	Revised nomenclature (King KX-175); added footnote.	
	5-25	Revised nomenclature (UGR-2A Glide Slope); added footnote.	
	5-26	Revised nomenclature (Narco AT50A Transponder and King KMA-20 Audio Panel); relocated Headset; added footnote.	
	5-26a	Added page; relocated Headset from page 5-26; added items for ser. nos. 7500001 and up.	
	5-26b, 5-26c	Added pages (Items for ser. nos. 7500001 and up).	
	5-26d 5-27	Added intentionally blank page. Revised Part Nos., Weights and Moments for Inertia Safety Belts (Center) and Inertia Safety Belts (Rear); added Assist Strap (79455)	
4	5-5	Corrected equations.	Nov. 4, 1974 <i>R. Bernaschi</i>
5	5-11	Added F-4-11 Governor and footnote.	Jan. 27, 1975 <i>R. Bernaschi</i>
6	5-16	Added 79337-5 Right Front Seat.	July 15, 1975 <i>J. Ketrna</i>
	5-19	Revised Rotating Beacon desc.	
	5-21	Added Engine Hour Meter, MK10 Radar Alt., NSD-360 Gyro and footnote.	
	5-22	Revised Alt. IIIC Console Weight, Arm and Moment.	
	5-28	Added 79592-0 Front Seat (Left) and 79592-1 Front Seat (Right); added 79337-18 Front, Center and Rear Headrests; added Stainless Steel Control Cables.	

WEIGHT AND BALANCE LOG OF REVISIONS (cont)

Revision	Revised Pages	Description and Revision	Approved Date
7	5-21 5-26 5-26a	Revised Clock; added OC-110 Converter and Mount. Revised Automatic Locator Transmitter. Added KN-61 and KN-65A DME's.	Dec. 3, 1975 <i>James Vengaley</i>
8	Title	Added Applicable Serial Numbers. (NOTE: AIRCRAFT DELIVERED WITH MANUALS PRIOR TO THIS REVISION DO NOT REQUIRE THIS REVISION.)	March 22, 1979 <i>Hal Fletcher</i>

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WEIGHT AND BALANCE

In order to achieve the performance, safety and good flying characteristics which are designed into the airplane, it 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 airplane, with the maximum number of adult passengers, 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 takeoff.

Misloading carries consequences for any aircraft. An overloaded airplane will not take off, climb or cruise as well as a properly loaded one. 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 takeoff or landing. If the C.G. is too far aft, the airplane may rotate prematurely on takeoff 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. This airplane is designed to provide excellent performance and safety within the flight envelope. Before the airplane is delivered, it is weighed, and a basic weight and C.G. location is 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 determining 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 takeoff weight and C.G.

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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.

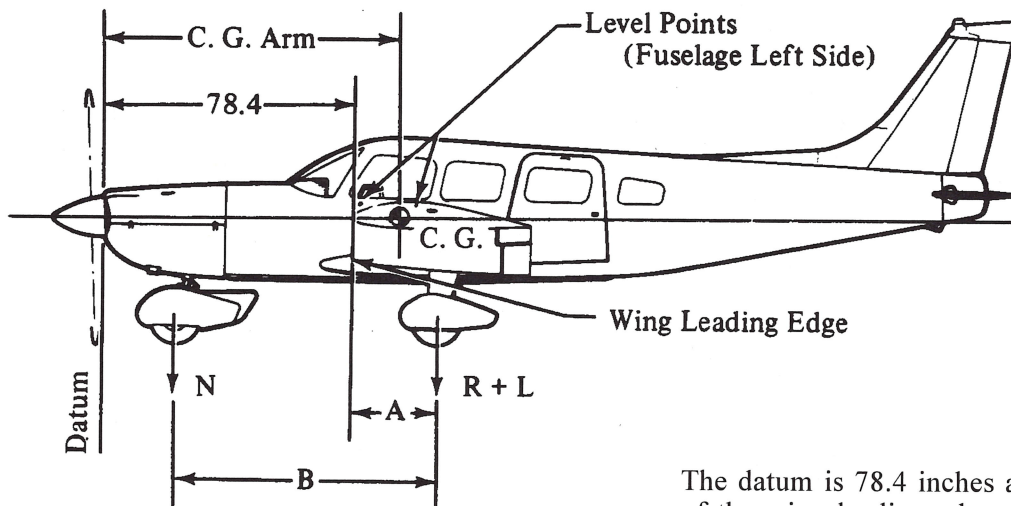
3. WEIGHING - AIRPLANE EMPTY WEIGHT

- 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	Net Weight
Nose Wheel (N)			
Right Main Wheel (R)			
Left Main Wheel (L)			
Airplane Empty Weight, as Weighed (T)			

4. EMPTY WEIGHT CENTER OF GRAVITY

- a. The following geometry applies to the PA-32-260 airplane when airplane is level (See Item 2).



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

A =

B =

- 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:

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

$$C. G. \text{ Arm} = 78.4 + (\quad) - \frac{(\quad)(\quad)}{(\quad)} = \quad \text{inches}$$

5. LICENSED EMPTY WEIGHT AND EMPTY WEIGHT CENTER OF GRAVITY

	Weight	Arm	Moment
Empty Weight (as weighed)			
Unusable Fuel (.4 gallon)	+2.3	103.0	+237
Licensed Empty Weight			

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WEIGHT AND BALANCE DATA

MODEL PA-32-260 CHEROKEE

Airplane Serial Number 32-7400029

Registration Number _____

Date _____

AIRPLANE BASIC WEIGHT

Item	Weight (Lbs)		C. G. Arm (Inches Aft of Datum)	= Moment (In-Lbs)
	Actual	Computed		
*Empty Weight				
Unusable Fuel (3.2 pints)	2.3		103.0	237
Standard Empty Weight				
Optional Equipment				
Licensed Empty Weight				
Oil (12 quarts)	22.5		16.6	374
Basic Weight				

*Empty weight is defined as dry empty weight (including paint and hydraulic fluid) plus 2.4 lbs undrainable engine oil.

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION

$$\begin{matrix} \text{(Gross Weight)} & - & \text{(Licensed Empty Weight)} & = & \text{Useful Load} \\ \text{(3400 lbs)} & & \text{(} & \text{lbs)} & \text{lbs.} \end{matrix}$$

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.

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C. G. RANGE AND WEIGHT INSTRUCTIONS

1. Add the weight of all items to be loaded to the basic 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 basic 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)

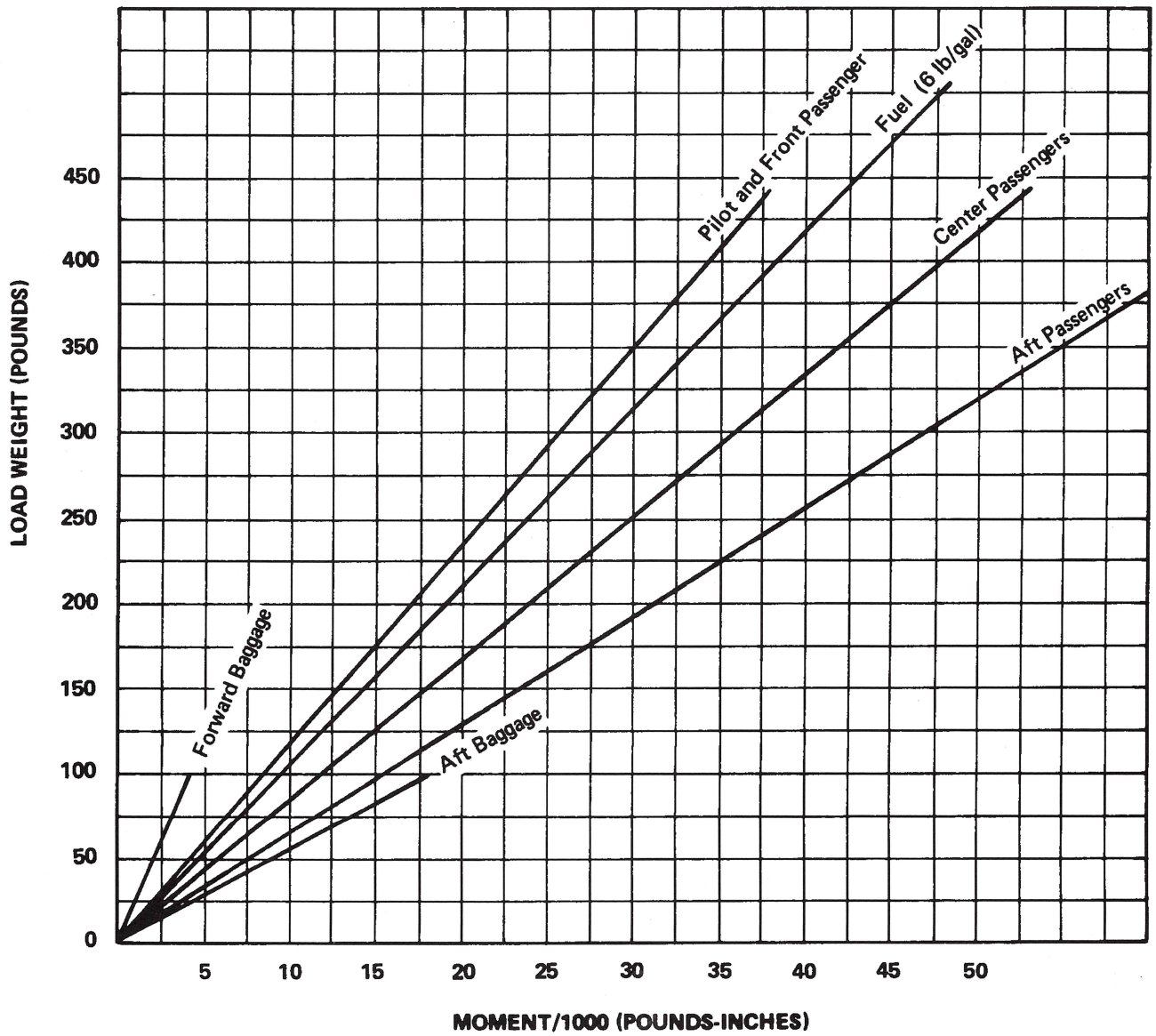
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Weight			
Pilot and Front Passenger	340.0	85.5	29070
Passengers (Center Seats)	340.0	118.1	40154
Passengers (Rear Seats)	340.0	155.7	52938
Passenger (Jump Seat)*		118.1	
Fuel (84-Gallon Maximum)		95.0	
Baggage (Forward)		42.0	
Baggage (Aft)		178.7	
Total Loaded Airplane			

The center of gravity (C.G.) of this sample loading problem is at _____ inches aft of the datum line. Locate this point () 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.

*Optional Equipment.

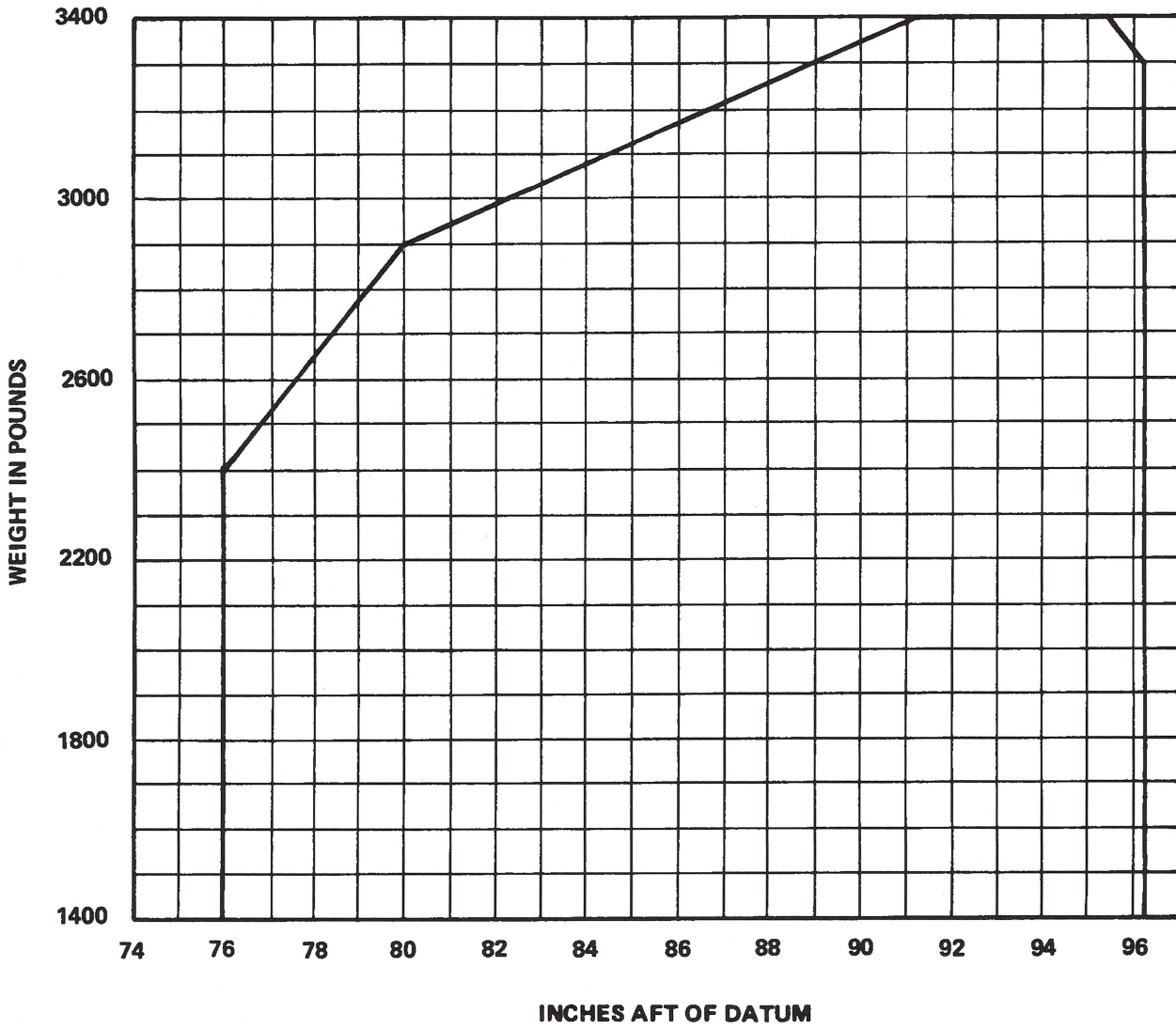
LOADING GRAPH



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C. G. RANGE AND WEIGHT



EQUIPMENT LIST

The following is a list of equipment which may be installed in the PA-32-260. 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. Propeller and Propeller Accessories					
_____	Spinner and Attachment Plates, Piper Dwg. 99374	3.5	- 13.0	- 46	TC A3SO
_____	Governor, Hartzell F-4-4 or F-4-11*	6.0	- 3.1	- 19	TC P920
_____	Propeller, Hartzell HC-C2YK-1 ()84772 or HC-C2YK-1()F/ F8477-2	56.0	- 12.1	- 678	TC P920
_____	Governor Control, Piper Dwg. 67639-12	1.5	61.8	93	TC A3SO
_____	Spinner Installation 99374	5.0	- 13.2	- 66	TC A3SO

*Engines with serial numbers ending with "-A" require the F-4-11 governor. Other engines require the F-4-4 governor.

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
B. Engine and Engine Accessories					
_____	Lycoming Model O-540-E4B5	386.8	10.9	4216	TC E295
_____	Fuel Pump, Electric Auxiliary Bendix Model 480543 (1)	1.8	113.8	205	TC A3SO
_____	Filter - Fram Model # CA 161 PL or Purolator Model AFP-2	.9	16.0	14	TC E295
_____	Fuel Pump, Engine Driven, Lycoming Dwg. 75246	1.6	27.6	44	TC E295
_____	Alternator, 60 amp, Chrysler # 2642997	12.5	-.6	- 8	TC A3SO
_____	Starter - Lycoming # 76211 (AC # MZ4206)	* 18.0	.7	13	TC A3SO
_____	Oil Cooler - Harrison # C-8529245	2.6	23.2	60	TC A3SO
_____	Oil Filter - Lycoming # 75528 (AC # OF5578770)** or	3.3	29.4	97	TC E295
_____	Oil Filter - Lycoming # LW-13743 (Champion # CH48110)**	2.8	29.4	82	TC E295

*Included in Engine Weight.

**Serial nos. 7500001 and up

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
C. Landing Gear and Brakes					
_____	Two Main Wheel Assemblies 6.00 - 6	32.2	109.6	3529	TC A3SO
	(a) Cleveland Aircraft Products Wheel Assembly No. 40-90 Brake Assembly No. 30-65				
	(b) Two Main 6-Ply Rating Tires 6.00 - 6 with Regular Tubes				
_____	One Nose Wheel, 6.00 - 6	12.5	16.4	205	TC A3SO
	(a) Cleveland Aircraft Products Wheel Assembly No. 38501 (Less Brake Drum)				
	(b) Tire 6.00 - 6, 4-Ply Rating				

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	D. Electrical Equipment				
_____	Battery 12V, 25 A.H., Rebat S-25	21.9	41.4	907	TC A3SO
_____	Stall Warning Device, Safe Flight Instrument Corporation No. C522074	.2	80.2	16	TC A3SO
_____	Voltage Regulator, Wico Electric # X16300B	.9	40.6	36	TC A3SO
_____	Overvoltage Relay, Wico Electric # X16799	.5	37.0	19	TC A3SO
_____	Annunciator Lights *	.9	61.0	55	TC A3SO

*Serial nos. 7500001 and up

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	E. Instruments				
_____	Compass - Piper Dwg. 67462	.9	64.9	58	TC A3SO
_____	Airspeed Indicator, Piper Dwg. 63205-9	.6	66.8	40	TC A3SO
_____	Tachometer, Piper Dwg. 62177-3	.7	66.2	46	TC A3SO
_____	Engine Cluster, Piper Dwg. 95241-2	.8	67.4	54	TC A3SO
_____	Engine Cluster - Piper Dwg. 95241-6	.8	67.4	54	TC A3SO
_____	Altimeter - Piper PS50008-2, -3, -4 or -5	1.0	65.9	66	TC A3SO
_____	Manifold Pressure Gauge PS50031-3 or -4	.9	65.8	59	TC A3SO

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
F. Miscellaneous					
_____	Forward Seat Belts (2) .75 lbs. each Piper No. PS50039-4-2A	1.5	86.9	130	TC A3SO
_____	Inertia Safety Belts (2) 0.8 lbs. each, Piper No. PS50039-4-16	1.6	119.6	191	TC A3SO
_____	Center Seat Belts (2) .70 lbs. each Piper No. PS50039-4-3A	1.4	123.0	172	TC A3SO
_____	Aft Seat Belts (2) .75 lbs. each Piper No. PS50039-4-4A	1.5	163.0	245	TC A3SO
_____	Toe Brakes (Dual) Piper Dwg. 63476-2	11.0	54.6	601	TC A3SO
_____	Tow Bar, Piper Dwg. 99458	1.3	168.0	218	TC A3SO
_____	Rear Cabin Door, Piper Dwg. 78085	16.5	152.2	2511	TC A3SO
_____	Front Seat, (Right) Piper Dwg. 78087	15.6	92.7	1446	TC A3SO
_____	(Right) Piper Dwg. 79337-5	15.3	92.3	1412	TC A3SO
_____	Center Seats (2) Piper Dwg. 78087	23.8	124.4	2961	TC A3SO
_____	Aft Seats (2) Piper Dwg. 78087	24.6	161.1	3963	TC A3SO
_____	Flight Manuals & Logs	2.6	95.1	247	TC A3SO
_____	Cargo Door Piper Dwg. 76367	6.5	178.9	1163	TC A3SO

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
G. Engine and Engine Accessories (Optional Equipment)					
_____	Vacuum Pump, Airborne Mfg. Co. Model No. 200cc and Drive	5.2	25.9	135	TC A3SO
_____	Oil Filter - Lycoming # 75528 (AC # OF5578770) *	3.3	29.4	97	TC E295
_____	Oil Filter - Lycoming # LW-13743 (Champion # CH-48110) *	2.8	29.4	82	TC E295
_____	Vacuum Regulator, Airborne Mech, No. 133A4*	.6	57.0	34	TC A3SO
_____	Vacuum Filter, Piper Dwg. 66673	.3	57.0	17	TC A3SO
_____	Vacuum Pump, Airborne Mfg. Co., Model 211cc & Drive, PAC 79399-0	3.4	25.9	88	TC A3SO
_____	Low Vacuum Annunciator Light **	Neglect			TC A3SO
_____	Vacuum Regulator, Airborne Mfg. Co., # 2H3-19 **	.5	57.0	28	TC A3SO

*Serial nos. 7400001 through 7400061
**Serial nos. 7500001 and up

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	H. Landing Gear and Brakes (Optional Equipment)				
_____	One Nose Wheel 6.00 - 6	12.5	16.4	205	TC A3SO
	(a) Cleveland Aircraft Products Wheel Assembly No. 38501 (Less Brake Drum)				
	(b) Tire 6.00 - 6, 6-Ply Rating				

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
I.	Electrical Equipment (Optional Equipment)				
_____	Landing Light, G. E. Model 4509	.5	- 2.6	- 1	TC A3SO
_____	Navigation Light (Rear) (1) Grimes Model A2064 (White)	.2	311.7	62	TSO C30b
_____	Navigation Lights (2) Grimes Model A1285 (Red and Green)	.4	106.6	43	TSO C30b
_____	Battery 12V, 35 A.H., Rebat R-35 (Weight 27.2 lbs)	* 5.3	41.4	219	TC A3SO
_____	Auxiliary Power Receptacle, Piper Dwg. 68815	2.5	48.4	121	TC A3SO
_____	External Power Cable, Piper Dwg. 62355-2	4.6	42.0	193	TC A3SO
_____	Cabin Speaker, Piper Dwg. 63239-2	.8	97.5	78	TC A3SO
_____	Instrument Light (2), Grimes 15-0083-7	.2	99.0	20	TC A3SO
_____	Forward Baggage Light, Piper Dwg. 68697	.2	43.5	9	TC A3SO
_____	Reading Light (2), Grimes # 10-0154-1	0.5	149.5	75	TC A3SO
_____	Reading Light (2), Grimes # 10-0154-1	0.5	115.0	58	TC A3SO
_____	Electric Trim Piper Dwg. 69378	4.4	191.5	843	TC A3SO
_____	Rotating Beacon	1.5	290.3	435	TC A3SO

*Weight and moment difference between standard and optional equipment.

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	I. Electrical Equipment (Optional Equipment) (cont)				
_____	Instrument Panel Lights	.3	67.8	20	TC A3SO
_____	Heated Pitot Head, Piper Dwg. 65797-5	.4	100.0	40	TC A3SO
	Red Strobe Light, Whelen Engineering Co. Piper Dwg. 99033-2 or -7				
_____	Power Supply, Whelen Model HS # A412A-14	2.3	229.8	529	TC A3SO
_____	Light (Fin Tip) # A470	.4	290.3	116	TC A3SO
_____	Cable # A417-1/151	.4	260.1	104	TC A3SO
	Red/White Strobe Light, Whelen Engineering Co.				
_____	Power Supply, Whelen Model HD, T3 # A413	3.0	229.8	689	TC A3SO
_____	Light (Fin Tip) # A470	.4	290.3	116	TC A3SO
_____	Cable, A417-1/151	.4	260.1	104	TC A3SO
_____	Lights (Wing Tip) (2), # A429 PR, # A429 PG	.3	106.6	32	TC A3SO
_____	Cables, A417-1/436 & A417-1/374	2.2	138.6	305	TC A3SO

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
J. Instruments (Optional Equipment)					
_____	Suction Gauge, Piper Dwg. 99480-0 or -2	.5	67.2	34	TC A3SO
_____	Vertical Speed, Piper Dwg. 99010-2, -4 or -5	1.0	65.9	66	TC A3SO
_____	Vertical Speed, Piper Dwg. 99010-3	.5	67.2	34	TC A3SO
_____	Attitude Gyro, Piper Dwg. 99002-2, -3, -4 or -5	2.2	64.4	142	TC A3SO
_____	Directional Gyro, Piper Dwg. 99003-2, -3, -4 or -5	2.6	64.7	168	TC A3SO
_____	Air Temperature Gauge, Piper Dwg. 99479-0 or -2	.2	77.6	16	TC A3SO
_____	Clock	.4	67.4	27	TC A3SO
_____	Tru-Speed Indicator, Piper Dwg. 62143-9 or -16	(same as Standard Equipment)			TC A3SO
_____	Turn and Slip Indicator, Piper PS50030-2 or -3	2.6	64.7	168	TC A3SO
_____	Exhaust Gas Temperature, Piper Dwg. 99026	.7	60.4	42	TC A3SO
_____	Encoding Altimeter Piper PS50008-6 or -7	* .9	65.3	58	TSO C10b C88
_____	Engine Hour Meter ** Piper Dwg. 69889-0	.3	66.2	20	TC A3SO
_____	MK10 Radar Altimeter ** Piper Dwg. 37693-2	5.4	181.3	979	TC A3SO
_____	NSD-360 Gyro **	4.1	64.9	266	TSO C52a TSO C5c
_____	Narco OC-110 ** Converter and Mount	2.1	231.5	486	TSO C36c C40a

* Weight and moment difference between standard and optional equipment.
 ** Ser. Nos. 32-7640001 and up.

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K. Autopilots (Optional Equipment)					
AutoControl III *					
_____	Roll Servo, # 1C363-1-183R	2.5	122.2	306	STC SA1406SW
_____	Console, # 1C338 (thru S/N 9999)	1.2	65.1	78	STC SA1406SW
_____	Cables	.7	95.5	67	STC SA1406SW
_____	Attitude Gyro, # 52D66	2.3	64.4	148	STC SA1406SW
_____	Directional Gyro, # 52D54	3.2	64.0	205	STC SA1406SW
_____	Omni Coupler, 1C388	.9	64.3	58	STC SA1406SW
AutoFlite II					
_____	Roll Servo, # 1C363-1-183R	2.5	122.2	306	STC SA1157SW
_____	Cable	.7	93.4	65	STC SA1157SW
_____	Panel Unit, # 52D75-3 or -4	2.4	64.4	155	STC SA1157SW
AutoControl IIIB **					
_____	Roll Servo # 1C363-1-183R	2.5	122.2	306	STC SA1406SW
_____	Console, # 1C338 (S/N 10000 & up)	1.0	65.1	65	STC SA1406SW
_____	Cables	.5	95.5	48	STC SA1406SW
_____	Attitude Gyro, # 52D66	2.7	64.4	174	STC SA1406SW
_____	Directional Gyro, # 52D54	2.9	64.0	186	STC SA1406SW
_____	Omni Coupler, # 1C388	1.0	64.3	64	STC SA1406SW
AltiMatic IIIC **					
_____	Roll Servo # 1C363-1-269R	2.5	122.2	306	STC SA3011SW-D
_____	Console, # 1D720	1.4	65.0	91	STC SA3011SW-D
_____	Cables	3.8	110.0	418	STC SA3011SW-D
_____	Attitude Gyro, # 52D67	2.8	64.9	182	STC SA3011SW-D
_____	Directional Gyro, # 52D54	2.9	64.9	188	STC SA3011SW-D
_____	Amplifier # 1C515-1	2.5	55.4	139	STC SA3011SW-D
_____	Altitude Hold, # 1C407	1.0	55.4	55	STC SA3011SW-D
_____	Pitch Servo, # 1C508-1-183P	2.5	117.0	293	STC SA3011SW-D
_____	Trim Servo, # 1C373-6-488	3.0	190.0	570	STC SA3011SW-D
_____	Trim Amplifier, # 1C709-5	0.6	55.4	33	STC SA3011SW-D
_____	Disconnect Relay 1A526	0.3	67.0	20	STC SA3011SW-D
_____	Omni Coupler, # 1C388	1.0	64.3	64	STC SA3011SW-D
_____	G/S Coupler, # 1C493	1.0	57.0	57	STC SA3011SW-D
_____	Cables	0.5	56.0	28	STC SA3011SW-D

*Serial nos. 7400001 through 7400061
 **Serial nos. 7500001 and up

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L. Radio Equipment (Optional Equipment)					
_____	Narco Mark 16 (VHF Comm/Nav)* Transceiver, Single	7.5	61.9	464	TC A3SO
_____	Transceiver, Dual	15.0	61.9	929	TC A3SO
_____	Narco VOA-50M Omni Converter *	2.1	64.9	136	TC A3SO
_____	Narco VOA-40(M) Omni Converter *	1.9	64.9	123	TC A3SO
_____	Narco VOA-40 Omni Converter *	1.9	64.9	123	TC A3SO
_____	Narco Comm 10A VHF Transceiver	3.9	62.4	243	TC A3SO
_____	Narco Comm 11A VHF Transceiver	3.6	62.4	225	TC A3SO
_____	Narco Dual Comm 11A VHF Transceiver	7.1	62.4	443	TC A3SO
_____	Narco Nav 10 VHF Receiver	1.9	63.6	121	TC A3SO
_____	Narco Nav 11 VHF Receiver	2.8	63.6	178	TC A3SO
_____	Narco Nav 12 VHF Receiver	3.4	63.6	216	TC A3SO
_____	Narco Dual Nav 11 VHF Receiver	5.6	63.6	356	TC A3SO
_____	King KX 170 () (VHF Comm/Nav) Transceiver, Single	7.5	61.6	462	TC A3SO
_____	Transceiver, Dual	15.0	61.6	924	TC A3SO
_____	King KI 201() VOR/LOC Ind.	2.5	64.9	162	TC A3SO
_____	King Dual KI 201() VOR/ LOC Ind.	5.0	64.9	324	TC A3SO
_____	King KI 214 () VOR/LOC/GS Ind.	3.3	64.9	214	TC A3SO

*Serial nos. 7400001 through 7400061

ISSUED: MAY 14, 1973
 REVISED: JUNE 19, 1974

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L. Radio Equipment (Optional Equipment) (cont)					
_____	King KX-175 () VHF Transceiver	8.1	61.6	499	TC A3SO
_____	King KN-73 Glide Slope Receiver	2.8	39.5	111	TC A3SO
_____	King KN-77 VOR/LOC Converter	3.1	38.7	120	TC A3SO
_____	King KNI-520 VOR/ILS Indicator	1.7	65.5	111	TC A3SO
_____	King KX-175 () VHF Transceiver (2nd)	7.8	61.6	480	TC A3SO
_____	King KN-77 VOR/LOC Converter	3.5	38.7	135	TC A3SO
_____	King KNI-520 VOR/ILS Indicator	1.7	65.5	111	TC A3SO
_____	Nav Receiving Antenna	.5	291.0	146	TC A3SO
_____	Cable, Nav Antenna	1.1	172.0	189	TC A3SO
_____	# 1 VHF Comm Antenna	.3	186.8	56	TC A3SO
_____	Cable, Antenna # 1 VHF	.5	122.0	61	TC A3SO
_____	# 2 VHF Comm Antenna	.3	222.0	67	TC A3SO
_____	Cable, Antenna # 2 VHF	.6	160.6	83	TC A3SO
Anti Static Kit					
_____	# 1 VHF Comm Antenna	1.0	190.6	191	TC A3SO
_____	Cable # 1 VHF Comm Antenna	0.5	122.0	61	TC A3SO
_____	# 2 VHF Comm Antenna	1.0	225.2	225	TC A3SO
_____	Cable # 2 VHF Comm Antenna	0.6	139.0	83	TC A3SO
_____	Low Frequency Antenna	0.6	160.0	96	TC A3SO
_____	Static Wicks	—	—	—	TC A3SO
Narco ADF-31 *					
_____	Panel Unit	5.0	63.5	318	TC A3SO
_____	Sensor Unit	2.5	194.5	486	TC A3SO
_____	Sensor Cable	2.3	124.0	285	TC A3SO
_____	Sense Antenna and Cable	.4	182.0	73	TC A3SO

*Serial nos. 7400001 through 7400061

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L.	Radio Equipment (Optional Equipment) (cont)				
	Bendix ADF-T-12 *				
_____	Receiver	3.5	64.4	225	TC A3SO
_____	Audio Amplifier	.8	53.6	43	TC A3SO
_____	Servo Indicator	1.7	65.9	112	TC A3SO
_____	Loop Antenna	1.2	194.5	233	TC A3SO
_____	Cable, Interconnecting	2.5	124.0	310	TC A3SO
_____	Sense Antenna and Cable	.4	182.0	73	TC A3SO
_____	Narco CP-25B/125, Selector Panel *	2.2	76.2	168	TC A3SO
_____	Narco MBT-12-R, Marker Beacon	4.0	77.7	311	TC A3SO
_____	Narco Comm 110 *	3.0	62.4	187	TC A3SO
_____	Narco Comm 111	3.0	62.4	187	TC A3SO
_____	Narco Nav 110 *	1.7	63.6	108	TC A3SO
_____	Narco Nav 111	2.5	63.6	159	TC A3SO
_____	Narco Nav 112	3.3	63.6	210	TC A3SO
	King KR-85 Digital ADF				
_____	Receiver	4.3	64.4	277	TC A3SO
_____	Servo Indicator	1.2	66.3	80	TC A3SO
_____	Loop Antenna	1.3	193.2	251	TC A3SO
_____	Loop Cable	1.8	124.0	223	TC A3SO
_____	Audio Amplifier	.8	54.1	43	TC A3SO
_____	Sense Antenna and Cable	.4	160.0	64	TC A3SO
	PM-1 Marker Beacon *				
_____	Receiver	1.1	121.3	133	TC A3SO
_____	Remote Unit	.3	128.4	39	TC A3SO
_____	Cable	.3	85.0	26	TC A3SO
	UGR-2A Glide Slope				
_____	Receiver	2.4	37.4	90	TC A3SO
_____	Cable	.6	49.5	30	TC A3SO
_____	Antenna	.4	92.4	37	TC A3SO
_____	Cable. Antenna	.5	100.0	50	TC A3SO

*Serial nos. 7400001 through 7400061

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 REVISED: JUNE 19, 1974

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L.	Radio Equipment (Optional Equipment) (cont)				
	Narco VD1-4 DME *				
_____	Receiver	8.5	61.7	524	TC A3SO
_____	Antenna	.3	26.8	8	TC A3SO
_____	Cable, Antenna	.4	48.0	19	TC A3SO
	Narco AT6-A Transponder *				
_____	Panel Unit	2.0	64.4	129	TC A3SO
_____	Remote Unit	5.7	204.3	1165	TC A3SO
_____	Antenna and Cable	.3	228.9	69	TC A3SO
_____	Cable Interconnecting	.4	134.4	54	TC A3SO
	Narco AT50A Transponder				
_____	Panel Unit	** 3.0	62.3	187	TC A3SO
	King KT76/78 Transponder				
_____	Panel Unit	3.1	63.1	196	TC A3SO
_____	Antenna and Cable	—	—	—	TC A3SO
	King KMA-20 () Audio Panel				
_____	Panel Unit	2.8	65.2	183	TC A3SO
_____	Antenna	.5	116.3	58	TC A3SO
_____	Cable	.4	90.0	36	TC A3SO
	Piper Automatic Locator				
_____	Transmitter, Piper Dwg. 79265-0	1.7	267.2	454	TC A3SO
_____	Transmitter, Piper Dwg. 79265-6	1.3	267.2	347	TC A3SO
_____	Antenna and Coax	.2	255.4	51	TC A3SO
_____	Shelf and Access	.33	266.4	88	TC A3SO
	King KN60C DME				
_____	Receiver	6.8	61.7	420	TC A3SO
_____	Antenna	.2	112.1	22	TC A3SO
_____	Cable, Antenna	0.3	95.6	26	TC A3SO
	Audio Selector Panel. Piper Dwg. 99395 *				
_____	Panel Unit	.7	66.3	46	TC A3SO
	Microphone, Piper Dwg. 68856-10				
_____	Panel Unit	.3	69.9	21	TC A3SO
	Microphone (Dynamic) Piper Dwg. 68856-12				
_____	Panel Unit	.3	69.9	21	TC A3SO

*Serial nos. 7400001 through 7400061
 **Weight includes antenna and cable.

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L.	Radio Equipment (Optional Equipment) (cont)				
_____	Headset, Piper Dwg. 68856-10	.5	65.0	33	TC A3SO
_____	King KI-213 VOR/LOC/GS Indicator *	2.5	64.9	162	TC A3SO
_____	King KR-86 ADF *				
_____	Receiver	3.9	64.4	551	TC A3SO
_____	Loop Antenna	1.5	193.2	290	TC A3SO
_____	Loop Cable	1.3	124.0	161	TC A3SO
_____	Audio Amplifier	0.8	54.1	43	TC A3SO
_____	Sense Antenna & Cable	0.4	160.0	64	TC A3SO
_____	King KR-86 ADF (2nd) *				
_____	Receiver	3.9	64.4	251	TC A3SO
_____	Loop Antenna	1.5	150.7	226	TC A3SO
_____	Loop Cable	1.3	105.0	132	TC A3SO
_____	Sense Antenna & Cable	3.0	147.5	443	TC A3SO
_____	King KN-73 Glide Slope Receiver *	3.2	39.5	126	TC A3SO
_____	King KN-77 VOR/LOC Converter *	3.6	38.7	139	TC A3SO
_____	King Dual KN-77 VOR/LOC Converter *	7.8	38.7	302	TC A3SO
_____	King KN-65 DME *				
_____	Receiver	7.6	230.5	1752	TC A3SO
_____	Antenna	0.2	112.1	22	TC A3SO
_____	Cable, Antenna	0.3	85.6	26	TC A3SO
_____	Indicator	1.0	66.3	66	TC A3SO
_____	King KN-74 R-Nav *				
_____	Computer	3.7	62.6	232	TC A3SO
_____	Cable Assy.	1.0	56.0	56	TC A3SO
_____	King KN-61 DME	13.3	189.5	2550	TC A3SO
_____	King KN-65A DME	13.8	185.4	2559	TSO C66a

*Serial nos. 7500001 and up

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 REVISED: DECEMBER 3, 1975

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L.	Radio Equipment (Optional Equipment) (cont)				
_____	Narco Comm 11B VHF Transceiver *	3.9	62.4	243	TC A3SO
_____	Narco Dual Comm 11B VHF Transceiver *	7.8	62.4	487	TC A3SO
_____	Narco Dual Comm 111 VHF Transceivers *	6.0	62.4	374	TC A3SO
_____	Narco Comm 111B VHF Transceiver *	3.9	62.4	243	TC A3SO
_____	Narco Dual Comm 111B VHF Transceiver *	7.8	62.4	487	TC A3SO
_____	Narco Nav 14 VHF Receiver *	2.5	62.4	156	TC A3SO
_____	Narco Nav 114 VHF Receiver *	2.5	62.4	156	TC A3SO
_____	Narco UGR-3 Glide Slope *				
_____	Receiver	2.3	37.4	86	TC A3SO
_____	Cable	0.6	49.5	30	TC A3SO
_____	Antenna	0.4	92.4	37	TC A3SO
_____	Cable Antenna	0.5	100.0	50	TC A3SO
_____	Narco CP-125 Audio Selector *				
_____	Panel	2.2	76.2	168	TC A3SO
_____	Narco ADF-140 *				
_____	Receiver	2.5	63.3	158	TC A3SO
_____	Servo Indicator	1.3	66.0	86	TC A3SO
_____	Loop Antenna	1.6	162.0	259	TC A3SO
_____	Cable, Loop	0.6	105.5	63	TC A3SO
_____	Sense Antenna and Cable	0.4	147.5	59	TC A3SO

*Serial nos. 7500001 and up

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L. Radio Equipment (Optional Equipment) (cont)					
	Narco Dual ADF-140 *				
_____	Receivers	5.0	63.3	317	TC A3SO
_____	Dual Needle Indicator	3.5	66.0	231	TC A3SO
_____	Loop Antenna # 1	1.6	162.0	259	TC A3SO
_____	Cable, Loop # 1	0.6	105.5	63	TC A3SO
_____	Sense Antenna and Cable # 1	0.4	143.8	56	TC A3SO
_____	Loop Antenna # 2	1.6	150.0	240	TC A3SO
_____	Cable, Loop # 2	0.6	93.8	56	TC A3SO
_____	Sense Antenna and Cable # 2	3.0	143.8	431	TC A3SO
_____	Remote for Dual Ind.	2.0	185.5	371	TC A3SO
	Narco DME-190 *				
_____	Receiver	5.2	61.8	321	TC A3SO
_____	Antenna	0.3	113.9	34	TC A3SO
_____	Cable, Antenna	0.4	85.6	34	TC A3SO
	Microphone (Dynamic) *				
_____	Piper Dwg. 68856-11	0.6	74.9	45	TC A3SO
	Narco CLC-60A R-Nav *				
_____	Display	1.6	65.6	105	TC A3SO
_____	Offset Control Head	1.0	66.7	67	TC A3SO
_____	Computer	3.8	214.9	817	TC A3SO
_____	Cables	5.1	108.0	551	TC A3SO

*Serial nos. 7500001 and up

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
M. Miscellaneous (Optional Equipment)					
_____	Nose Wheel Fairing, Piper Dwg. 76416	3.6	23.1	83	TC A3SO
_____	Main Wheel Fairing (2), Piper Dwg. 65237	7.6	113.6	863	TC A3SO
_____	Assist Step, Piper Dwg. 65384	1.5	147.5	221	TC A3SO
_____	Jump Seat (with seat belts) Piper Dwg. 69595-4	9.2	122.3	1125	TC A3SO
_____	Ground Ventilating Blower Piper Dwg. 79273-5	* 7.7	201.4	1551	TC A3SO
_____	Super Cabin Sound Proofing Piper Dwg. 78480	24.4	107.2	2616	TC A3SO
_____	Alternate Static Source	.4	66.0	26	TC A3SO
	Calibrated Alternate Static Source				
	Placard Required: Yes _____ No _____				
_____	Assist Straps and Coat Hooks Piper Dwg. 62353-5	.3	120.0	36	TC A3SO
	Assist Straps, Piper Dwg. 79455	.3	120.0	36	TC A3SO
_____	Inertia Safety Belts (Center) (2) .75 lbs. each, PS50039-4-15	1.5	133.9	201	TC A3SO
_____	Inertia Safety Belts (Rear) (2) 0.8 lbs. each PS50039-4-14	1.6	181.5	290	TC A3SO
_____	Lighter, # 200462, 12 Volt Universal	.2	67.9	14	TC A3SO
_____	Fire Extinguisher, Piper Dwg. 76167-2, Scott # 42211	4.6	71.0	327	TC A3SO

*Weight and moment difference between standard and optional equipment.

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
M.	Miscellaneous (Optional Equipment) (cont)				
_____	Adjustable Front Seat (Left) Piper Dwg. 78360-0	* 6.6	85.1	562	TC A3SO
_____	(Left) Piper Dwg. 79592-0	* 4.6	84.7	390	TC A3SO
_____	Adjustable Front Seat (Right) Piper Dwg. 78360-1	* 6.8	84.5	575	TC A3SO
_____	(Right) Piper Dwg. 79592-1	* 4.6	84.1	387	TC A3SO
_____	Headrests (2) Front, Piper Dwg. 96806-17 or 79337-18	2.0	99.5	199	TC A3SO
_____	Headrests (2) Center, Piper Dwg. 96806-17 or 79337-18	2.0	132.1	264	TC A3SO
_____	Headrests (2) Rear, Piper Dwg. 96806-17 or 79337-18	2.0	169.7	339	TC A3SO
_____	Zinc Chromate Finish	7.5	113.2	849	TC A3SO
_____	Corrosive Resistant Kit	3.0	106.0	318	TC A3SO
_____	Stainless Steel Control Cables	—	—	—	TC A3SO

TOTAL OPTIONAL EQUIPMENT _____

*Weight and moment difference between standard and optional equipment.

EXTERIOR FINISH

Base Color _____ Registration No. Color _____
 Trim Color _____ Type Finish _____
 Accent Color _____