

TABLE OF CONTENTS
SECTION 6
WEIGHT AND BALANCE

| Paragraph No. | | Page No. |
|------------------|---|-------------|
| 6.1 | General | 6-1 |
| 6.3 | Airplane Weighing Procedure | 6-2 |
| 6.5 | Weight and Balance Data and Record | 6-5 |
| 6.7 | Weight and Balance Determination for Flight | 6-9 |
| 6.9 | Equipment List | 6-13 |
| (a) | Propeller and Propeller Accessories | 6-14 |
| (b) | Engine and Engine Accessories | 6-15 |
| (c) | Landing Gear and Brakes | 6-17 |
| (d) | Electrical Equipment | 6-19 |
| (e) | Instruments | 6-20 |
| (f) | Miscellaneous | 6-22 |
| (g) | Propeller and Propeller Accessories (Optional Equipment) | 6-24 |
| (h) | Engine and Engine Accessories (Optional Equipment) | 6-25 |
| (i) | Landing Gear and Brakes (Optional Equipment) | 6-26 |
| (j) | Electrical Equipment (Optional Equipment) | 6-26 |
| (k) | Instruments (Optional Equipment) | 6-29 |
| (l) | Autopilots (Optional Equipment) | 6-33 |
| (m) | Radio Equipment (Optional Equipment) | 6-39 |
| (n) | Miscellaneous (Optional Equipment) | 6-44 |

**SECTION 6
WEIGHT AND BALANCE**

6.1 GENERAL

In order to achieve the performance 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 operating range (envelope). Although the airplane offers a tremendous flexibility of loading, it cannot be flown with the maximum number of adult passengers, full fuel tanks and maximum baggage. With the flexibility comes responsibility. The pilot must insure 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 tend 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 airplane, however, will perform as intended. Before the airplane is delivered, it is weighed, and a basic empty weight and C.G. location is computed (basic empty weight consists of the standard empty weight of the airplane plus the optional equipment). Using the basic empty 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.

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

The basic empty weight and C.G. location are recorded in the Weight and Balance Data Form (Figure 6-5) and the Weight and Balance Record (Figure 6-7). 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 empty weight and C.G. position and to write these in the Aircraft Log Book and the Weight and Balance Record. The owner should make sure that it is done.

A weight and balance calculation is necessary in determining how much fuel or baggage can be boarded so as to keep within allowable limits. Check calculations prior to adding fuel to insure against improper loading.

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

6.3 AIRPLANE WEIGHING PROCEDURE

At the time of delivery, Piper Aircraft Corporation provides each airplane with the basic empty weight and center of gravity location. This data is supplied by Figure 6-5.

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

(a) Preparation

- (1) Be certain that all items checked in the airplane equipment list are installed in the proper location in the airplane.
- (2) Remove excessive dirt, grease, moisture, foreign items such as rags and tools from the airplane before weighing.
- (3) 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. Then add the unusable fuel (5.0 gallons total, 2.5 gallons each wing).

CAUTION

Whenever the fuel system is completely drained and fuel is replenished it will be necessary to run the engines for a minimum of 3 minutes at 1000 RPM on each tank to insure no air exists in the fuel supply lines.

- (4) Fill with oil to full capacity.
- (5) 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.
- (6) Weigh the airplane inside a closed building to prevent errors in scale readings due to wind.

(b) Leveling

- (1) With airplane on scales, block main gear oleo pistons in the fully extended position.
- (2) Level airplane (refer to Figure 6-3) deflating nose wheel tire, to center bubble on level.

(c) Weighing - Airplane Basic Empty Weight

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

**SECTION 6
WEIGHT AND BALANCE**

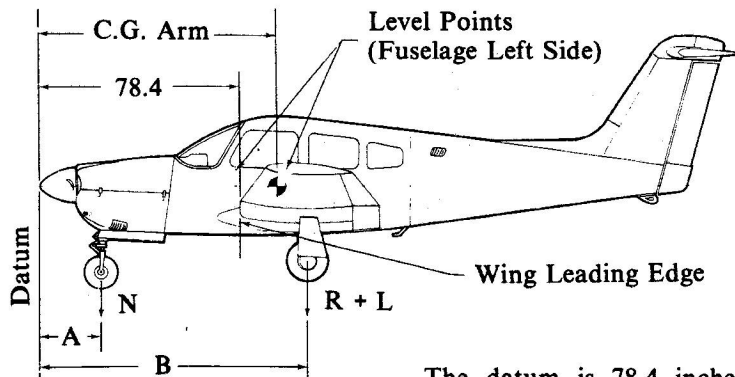
**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Scale Position and Symbol | Scale Reading | Tare | Net Weight |
|------------------------------------|---------------|------|------------|
| Nose Wheel (N) | | | |
| Right Main Wheel (R) | | | |
| Left Main Wheel (L) | | | |
| Basic Empty Weight, as Weighed (T) | | | |

WEIGHING FORM
Figure 6-1

(d) Basic Empty Weight Center of Gravity

(1) The following geometry applies to the PA-28RT-201 airplane when it is level. Refer to Leveling paragraph 6.3 (b).



A = 15.6
B = 109.7

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

LEVELING DIAGRAM
Figure 6-3

- (2) The basic empty weight center of gravity (as weighed including optional equipment, full oil and unusable fuel) can be determined by the following formula:

$$\text{C.G. Arm} = \frac{N(A) + (R + L)(B)}{T} \quad \text{inches}$$

Where: $T = N + R + L$

6.5 WEIGHT AND BALANCE DATA AND RECORD

The Basic Empty Weight, Center of Gravity Location and Useful Load listed in Figure 6-5 are for the airplane as delivered from the factory. These figures apply only to the specific airplane serial number and registration number shown.

The basic empty weight of the airplane as delivered from the factory has been entered in the Weight and Balance Record (Figure 6-7). This form is provided to present the current status of the airplane basic empty weight and a complete history of previous modifications. Any change to the permanently installed equipment or modification which affects weight or moment must be entered in the Weight and Balance Record.

| | | | |
|----------------|----------|------|----------|
| NEW Empty WT | 1797.7 | 87.8 | 157730.5 |
| Seat # 2 | - 24.1 | | - 1940.1 |
| Seats # 3-4 | - 28.0 | | - 3306.8 |
| NEW Empty WT | | | |
| with seats out | - 1745.6 | 87.3 | 152483.6 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

MODEL PA-28RT-201 ARROW IV

Airplane Serial Number 28R-7918135

Registration Number N29026

Date 9-16-80

AIRPLANE BASIC EMPTY WEIGHT

| Item | C.G. Arm | | |
|---|-------------------------------------|-----------------|-------------------|
| | Weight x (Inches Aft = Moment (Lbs) | of Datum) | (In-Lbs) |
| Standard Empty Weight* Actual Computed | 1641.0 | 88.8 | 142361 |
| Optional Equipment | 151.8 | 88.9 | 15014 |
| Basic Empty Weight | 1792.8 | 87.8 | 157375 |

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

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION

(Gross Weight) - (Basic Empty Weight) = Useful Load

(2750 lbs.) - ~~1792.8~~ lbs. = ~~957.2~~ lbs.

THIS BASIC 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.

SUPERCEDED 7/5/83
James S. Gregory Jr. FAA CRS 401-149
 WEIGHT AND BALANCE DATA FORM
 SEE PAGE 6-4A Figure 6-5

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| PA-28RT-201 | | Serial Number 28R-7918135 | Registration Number N29026 | | | Page Number | | |
|-------------|----------|--|----------------------------|-----------|-----------|--------------|----------------------------|--------------|
| Date | Item No. | Description of Article or Modification | Added (+) Removed (-) | Wt. (Lb.) | Arm (In.) | Moment / 100 | Running Basic Empty Weight | |
| | | | | | | | Wt. (Lb.) | Moment / 100 |
| 4/6/79 | | | | | | | 1792.8 | 157375 |
| 7/5/83 | | INSTALLED OMEGA | + | 4.9 | 72.55 | 355.5 | 1797.7 | 157730.5 |
| | | Cargo A (pilot seat only) | | | | | 1748.7 | 152658.0 |
| 8/1/89 | | Ewt | | | | | 1792.8 | 157375 |
| 8/1/89 | | KR86 ADF | + | 6.7 | 91.6 | 6.14 | 1799.5 | 157989 |

WEIGHT AND BALANCE RECORD

Figure 6-7

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| PA-28RT-201 | Serial Number | Description of Article or Modification | Added (+) Removed (-) | | Registration Number | | | Page Number | |
|-------------|---------------|---|--------------------------|--------------|---------------------|----------------|-------------------------------|----------------|--|
| | | | Wt. (Lb.) | Arm (In.) | Wt. (Lb.) | Moment /100 | Running Basic Empty Weight | Moment /100 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

WEIGHT AND BALANCE RECORD (cont)
Figure 6-7 (cont)

6.7 WEIGHT AND BALANCE DETERMINATION FOR FLIGHT

- (a) Add the weight of all items to be loaded to the basic empty weight.
- (b) Use the Loading Graph (Figure 6-13) to determine the moment of all items to be carried in the airplane.
- (c) Add the moment of all items to be loaded to the basic empty weight moment.
- (d) Divide the total moment by the total weight to determine the C.G. location.
- (e) By using the figures of item (a) and item (d) (above), locate a point on the C.G. range and weight graph (Figure 6-15). If the point falls within the C.G. envelope, the loading meets the weight and balance requirements.

| | Weight (Lbs) | Arm Aft Datum (Inches) | Moment (In-Lbs) |
|---|-----------------|------------------------------|--------------------|
| Basic Empty Weight | 1792.8 | 87.8 | 157375 |
| Pilot and Front Passenger | 340.0 | 80.5 | 27370 |
| Passengers (Rear Seats) | 340.0 | 118.1 | 40154 |
| Fuel (72 Gallons Maximum) | 277.2 | 95.0 | 26334 |
| Baggage (200 Lbs. Maximum) | | 142.8 | |
| Moment due to Retraction of Landing Gear | | | 819 |
| Total Loaded Airplane | 2750 | 91.7 | 252052 |

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.

SAMPLE LOADING PROBLEM (NORMAL CATEGORY)

Figure 6-9

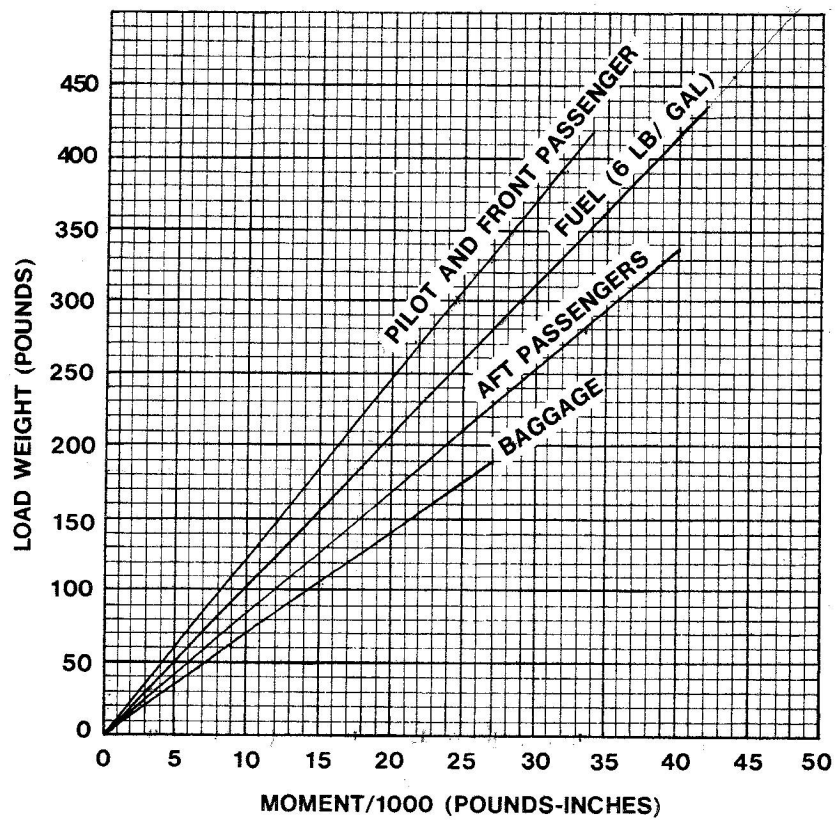
**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| | Weight (Lbs) | Arm Aft Datum (Inches) | Moment (In-Lbs) |
|---|-----------------|------------------------------|--------------------|
| Basic Empty Weight | | | |
| Pilot and Front Passenger | | 80.5 | |
| Passengers (Rear Seats) | | 118.1 | |
| Fuel (72 Gallons Maximum) | | 95.0 | |
| Baggage (200 Lbs. Maximum) | | 142.8 | |
| Moment due to Retraction of Landing Gear | | | 819 |
| Total Loaded Airplane | | | |

Totals must be within approved weight and C.G. limits. It is the responsibility of the airplane owner and the pilot to insure that the airplane is loaded properly. The Basic Empty Weight C.G. is noted on the Weight and Balance Data Form (Figure 6-5). If the airplane has been altered, refer to the Weight and Balance Record for this information.

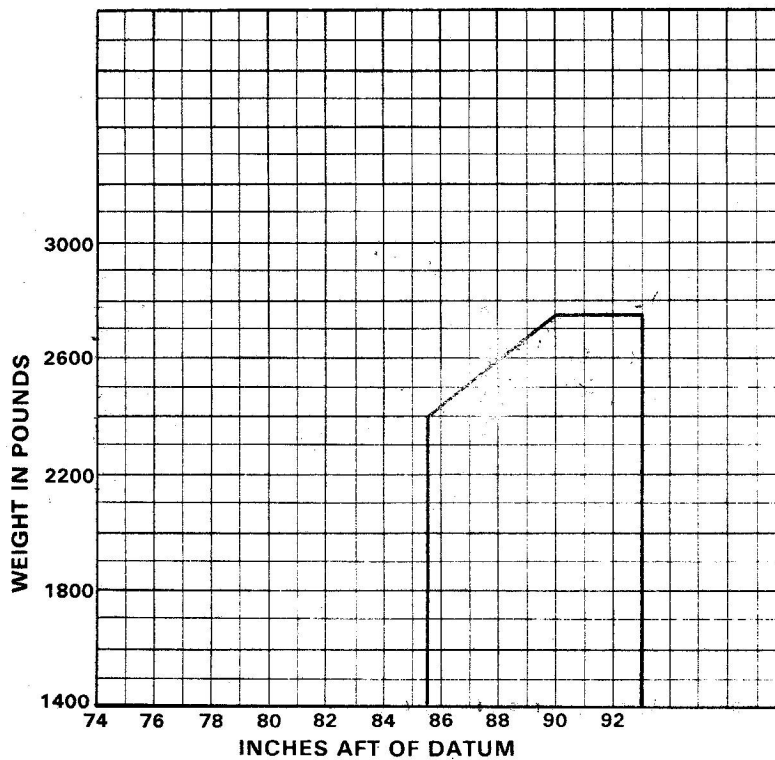
WEIGHT AND BALANCE LOADING FORM
Figure 6-11



LOADING GRAPH
Figure 6-13

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**



Moment due to retracting landing gear = +819 in.-lbs.

C.G. RANGE AND WEIGHT
Figure 6-15

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

6.9 EQUIPMENT LIST

The following is a list of equipment which may be installed in the PA-28RT-201. It consists of those items used for defining the configuration of an airplane when the basic empty weight is established at the time of delivery. Only those standard items which are alternate standard items and those required to be listed by the certifying authority (FAA) are presented. Items marked with an "X" are those items which were installed on the airplane described below as delivered by the manufacturer.

Where the letter "A," "B," or "C" precedes an item, "A" denotes an item which is required equipment that must be installed in the aircraft; "B" denotes and item which is required equipment that must be installed in the aircraft unless replaced by an optional equivalent item; "C" denotes an optional item which replaces a required item of standard equipment. Where no letter precedes an item, that item is not required equipment.

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

PIPER AIRCRAFT CORPORATION

PA-28RT-201 ARROW IV

SERIAL NO. 28R-7916135 REGISTRATION NO. N29025 DATE: 2-16-80

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|--|---|----------------|-----------------|---------------------|-----------------|
| (a) Propeller and Propeller Accessories | | | | | |
| 1 | A Propeller | | | | |
| | a. McCauley B2D34C213/90DHA-16 Cert. Basis - TC P7EA | X | 49.0 | -1.9 | -93 |
| | b. Hartzell HC-C2YK-1() F/F7666A-2R Cert. Basis - TC P920 | | 55.0 | -1.9 | -105 |
| 3 | Spinner Installation | | | | |
| | Piper Dwg. 35828-2 (McCauley Prop) or Piper Dwg. 99374 (Hartzell Prop) | | | | |
| | a. Spinner Dome and Forward Bulkhead (McCauley Prop) | X | 2.8 | -6.0 | -17 |
| | b. Spinner Dome and Forward Bulkhead (Hartzell Prop) | | 3.1 | -5.6 | -17 |
| | c. Aft Bulkhead | X | 1.9 | 3.4 | 6 |
| 5 | A Propeller Governor | | | | |
| | Hartzell Model F-2-7() Piper Dwg. 66634-4 Cert. Basis - TC P7EA | | | | |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| Item No. | (b) Engine and Engine Accessories | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|----------|--|----------------|-----------------|---------------------|------------------|
| 9 | A Engine - Lycoming Model IO-360-C1C6 Cert. Basis - TC 1E10 | | 329.0 | 15.2 | 5001 |
| 11 | A Engine Driven Fuel Pump Lycoming P/N 75247 or LW-15473 Cert. Basis - TC 1E10 | * | | | |
| 13 | A Electric Fuel Pump (Weldon P/N 8120-G) | | 2.2 | 42.3 | 93 |
| 15 | A Fuel Valve Piper Dwg. 66945-0 (System Components Corp. P/N SP 2378-B3) | | 0.6 | 61.9 | 37 |
| 17 | A Oil Coolers Piper Dwg. 67848-0 (Harrison P/N 8537820) | | 4.1 | 42.0 | 173 |

*Included in basic engine dry weight.

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Engine and Engine Accessories (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|----------------|-----------------|---------------------|-----------------|
| 19 A | Air Filter (Fram P/N CA-144PL) | | 0.9 | 20.0 | 19 |
| 21 B | Alternator Piper Dwg. 99945-0 a. Chrysler P/N 3656624 b. Chrysler P/N 4111810 | ===== ===== | 12.7 13.5 | 9.3 9.3 | 118 126 |
| 23 A | Starter (Prestolite P/N MZ4218) Cert. Basis - TC 1E10 | | * | | |
| 25 A | Oil Filter Lycoming P/N LW-13215 (Champion P/N CH-48110) or Lycoming P/N 15624) Cert. Basis - TC 1E10 | | * | | |

*Included in basic engine dry weight.

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| Item No. | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|-----------------------------|--|----------------|--------------------|-------------------------|--------------------|
| (c) Landing Gear and Brakes | | | | | |
| 35 | A Two Main Wheel Assemblies a. Cleveland Aircraft Products Wheel Assy. No. 40-86 Brake Assy. No. 30-55 Cert. Basis - TSO C26a b. 6.00-6 Type III 6 Ply Rating Tires with Reg. Tubes Cert. Basis - TSO C62 | | 5.4 3.6 17.2 | 109.7 109.7 109.7 | 592 395 1887 |
| 37 | A Nose Wheel Assembly a. Cleveland Aircraft Products Wheel Assy. No. 40-77 Cert. Basis - TSO C26a b. McCauley Industrial Corp. Wheel Assy. No. D-30500 Cert. Basis - TSO C26b c. 5.00-5 Type III 4 Ply Rating Tire with Reg. Tube Cert. Basis - TSO C62 | X | 2.6 3.6 5.8 | 15.6 15.6 15.6 | 41 56 90 |
| 39 | A Handbrake Master Cylinder Cleveland Aircraft Products No. 10-22 | | 0.6 | 60.9 | 37 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | (c) Landing Gear and Brakes (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|----------------|-----------------|---------------------|-----------------|
| 41 | A Toe Brake Cylinders a. Cleveland Aircraft Products No. 10-27 b. Gar-Kenyon Instruments 17000 | <u>X</u> | 0.7 * 0.4 | 53.0 53.0 | 37 21 |
| 43 | A Landing Gear Hydraulic Pump Piper Dwg. 67509-0 (Prestolite 105255B) | | 9.0 | 159.0 | 1431 |
| 45 | A Main Gear Hydraulic Cylinders (2) Piper Dwg. 96860-0 (Synco Devices SFA 232-3) | | 2.2 | 108.0 | 238 |
| 47 | A Nose Gear Hydraulic Cylinder Piper Dwg. 35797-2 (Gar-Kenyon 94951) | | 2.0 | 41.8 | 84 |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| Item No. | Electrical Equipment Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|----------------|-----------------|---------------------|-----------------|
| 55 A | Voltage Regulator Piper Dwg. 68804-3 | | 0.5 | 53.4 | 27 |
| 57 B | Battery (Rebat S-25) | | 21.9 | 43.2 | 946 |
| 59 A | Starter Relay Piper Dwg. 99130-2 (RBM Control P/N 111-111) | | 1.0 | 45.7 | 46 |
| 61 A | Overvoltage Relay Piper PS50034-1 (Prestolite "Wico Div." P/N FOC-4002B) | | 0.5 | 51.2 | 26 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Instruments | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|--|------|----------------|-----------------|---------------------|-----------------|
| 71 B | Altimeter Piper PS50008-2 (United Instruments UI5934-P or UI5934P-1) Cert. Basis - TSO C10b | | — | 1.1 | 60.9 | 67 |
| 73 B | Airspeed Indicator Piper PS50049-50S (United Instruments 8025-B.363) Cert. Basis - TSO C2b | | — | 0.6 | 61.8 | 37 |
| 75 A | Manifold Pressure and Fuel Flow Indicator Piper PS50031-6 (United Instruments 6092-H.55 or 6331-H.55) Cert. Basis - TSO C45 & C47 | | | 1.2 | 60.8 | 73 |
| 77 A | Compass Piper Dwg. 67462-6 (Airpath P/N C-2200-L4-B) Cert. Basis - TSO C7c | | | 0.9 | 59.9 | 54 |
| 79 A | Tachometer Piper Dwg. 62177-3 Stewart Warner 551-WE(N) | | | 0.7 | 61.2 | 43 |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| (e) Instruments (cont) | | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|------------------------|---|--|-------------------|--------------------|------------------------|--------------------|
| Item No. | | | | | | |
| 81 | A | Left Engine Cluster Piper Dwg. 95241-11 | | 0.8 | 62.4 | 50 |
| 83 | A | Right Engine Cluster Piper Dwg. 95241-23, Plus 38224-3 (2) | | 0.8 | 62.4 | 50 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Miscellaneous Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|----------------|-----------------|---------------------|-----------------|
| 89 B | Left Front Seat Piper Dwg. 79337-21 | — | 15.5 | 84.0 | 1302 |
| 91 | Right Front Seat Piper Dwg. 79337-22 | | 15.5 | 84.0 | 1302 |
| 93 | Left Rear Seat Piper Dwg. 96827-22 | | 14.5 | 123.0 | 1784 |
| 95 | Right Rear Seat Piper Dwg. 96827-23 | | 14.5 | 123.0 | 1784 |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| Item No. | Miscellaneous (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|----------|---|-------------------|--------------------|------------------------|---------------------|
| 97 A | Front Seat Belts (2) Piper PS50039-4-2A (American Safety Eqpt. Corp. 449965 Black) Cert. Basis - TSO C22f | | 1.8 | 84.0 | 151 |
| 99 A | Aft Seat Belts (2) Piper PS50039-4-3A (American Safety Eqpt. Corp. 44996B Black) Cert. Basis - TSO C22f | | 1.6 | 123.0 | 197 |
| 101 A | Shoulder Harness (2) (Front Seats Only) Piper PS50039-4-21 (Pacific Scientific 1107447-05 Black) | | 1.4 | 119.5 | 167 |
| 103 A | Baggage Straps Piper Dwg. 66804-0 and 66805-0 | | 1.3 | 142.8 | 186 |
| 105 | Tow Bar Piper Dwg. 67336-0 | | 2.2 | 156.0 | 343 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| (g) Propeller and Propeller Accessories (Optional Equipment) | Item No. | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|---|-------------|------|-------------------|--------------------|------------------------|--------------------|
|---|-------------|------|-------------------|--------------------|------------------------|--------------------|

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| Item No. | Engine and Engine Accessories (Optional Equipment) | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|--|--|-------------------|--------------------|------------------------|--------------------|
| 137 | Vacuum Pump | a. Piper Dwg. 79399-0 (Airborne P/N 211CC) | | 1.8 | 40.0 | 72 |
| | | b. Piper Dwg. 36535-2 (Edo-Aire P/N IU128A) | X | 2.2 | 40.0 | 88 |
| 139 | Exhaust Gas Temperature Gauge Installation Piper Dwg. 69190-0, Alcor Indicator P/N 202A-7A or P/N 202B-7A Probe Model "A" Lead Assembly 90.00 | | | 0.7 | 55.4 | 39 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|---|-------------------------------------|----------------|-----------------|---------------------|-----------------|
| (i) Landing Gear and Brakes (Optional Equipment) | | | | | |
| | | | | | |
| (j) Electrical Equipment (Optional Equipment) | | | | | |
| | | | | | |
| 151 | Instrument Panel Lights Instl. | X | 0.3 | 62.8 | 19 |
| 153 | Instrument Light (Grimes 15-0083-7) | X | 0.1 | 99.0 | 10 |
| 155 | Cabin Light Piper Dwg. 79247 | X | 0.3 | 99.0 | 30 |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| Item No. | Electrical Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|--|----------------|-----------------|---------------------|-----------------|
| 157 | Landing Light Piper PS10008-4509 (G.E. Model 4509) | X | 0.5 | 10.0 | 5 |
| 159 | Navigation Lights (Wing) (2) Whelen P/N A429PR-D-14 (Red) and P/N A429PG-D-14 (Green) | | 0.4 | 106.6 | 43 |
| 161 | Navigation Light (Rear) (2) Grimes Model A2064 (White) | X | 0.4 | 292.0 | 117 |
| 163 | Anti-Collision Lights (Wing Tip) (Whelen) Piper Dwg. 79850-14 & -15 Cert. Basis - STC SA615EA | X | 5.7 | 157.9 | 900 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Electrical Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|-------------------|--------------------|------------------------|--------------------|
| 165 | Heated Pitot Installation Piper Dwg. 35896-4 & -5 | X | 0.4 | 100.0 | 40 |
| 167 | Piper Pitch Trim Piper Dwg. 67496-5 | X | 4.3 | 155.3 | 668 |
| 169 C | Battery 12v 35 A.H. (Rebat R35) | X | *6.5 | 43.2 | 281 |
| 171 | Auxiliary Power Receptacle Piper Dwg. 35842 | X | 2.7 | 62.7 | 169 |
| 173 | External Power Cable Piper Dwg. 62355-2 | | 4.6 | 142.8 | 657 |
| 175 | Lighter (Casco P/N 200462) | X | 0.2 | 62.9 | 13 |

*Weight and moment difference between standard and optional equipment.

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| (k) Item No. | Instruments (Optional Equipment) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|-----------------|--|----------------|-----------------|---------------------|------------------|
| 191 | Attitude Gyro a. Piper Dwg. 99002-3 (Edo-Aire P/N 5000B-9) b. Piper Dwg. 99002-8 (Aeritalia S.P.A. P/N 36101P) Cert. Basis - TSO C4c | — | 1.9 | 59.4 | 113 |
| 193 | Directional Gyro a. Piper Dwg. 99003-3 (Edo-Aire P/N 4000B-9) b. Piper Dwg. 99003-7 (Aeritalia S.P.A. P/N 31101P) Cert. Basis - TSO C5c | — | 2.4 | 59.7 | 143 |
| 195 | Horizontal Situation Indicator (HSI) (Mitchell P/N NSD-360A) Cert. Basis - TSO C6c, C9c, C52c | — | 1.9 | 59.7 | 113 |
| 197 C | Tru-Speed Indicator Piper PS50049-50T (United Instruments P/N 8125-B.364) Cert. Basis - TSO C2b | X | 4.6 | 59.9 | 276 |

(Same as standard equipment)

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Instruments (Optional Equipment) (cont) | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|--|------|----------------|-----------------|---------------------|------------------------------|
| 199 C | Altimeter Piper PS50008-3 (United Instruments P/N UI5934-PM or P/N UI5934-PM-1) Cert. Basis - TSO C10b | | X | | | (Same as standard equipment) |
| 201 C | Encoding Altimeter Piper PS50008-6 (United Instruments P/N UI5035P-P23) or Piper PS50008-7 (United Instruments P/N UI5035PM-P24) Cert. Basis - TSO C10b & C88 | | X | *0.9 | 60.3 | 54 |
| 202 | Altitude Digitizer (United Instruments P/N 5125-P3) Cert. Basis - TSO C88 | | X | 1.0 | 51.5 | 52 |

*Weight and moment difference between standard and optional equipment.

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| (k) Item No. | Instruments (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|-----------------|--|-------------------|--------------------|------------------------|--------------------|
| 203 | Rate of Climb Piper Dwg. 99010-5 (United Instruments P/N UI-7000) Cert. Basis - TSO C8b | — | 1.0 | 60.9 | 61 |
| 205 | Alternate Static Source Installation Piper Dwg. 35896-3 & -5 | X | 0.4 | 61.0 | 24 |
| 207 | Turn and Slip Indicator Piper PS50030-2 (R. C. Allen P/N A2475-2) Cert. Basis - TSO C3b | — | 2.6 | 59.7 | 155 |
| 209 | Turn Coordinator Piper PS50030-3 (Electric Gyro Corp. P/N 1394T100) Cert. Basis - TSO C3b | X | 2.6 | 59.7 | 155 |
| 211 | MK 10 Radar Altimeter Piper Dwg. 37693-7 | — | 5.4 | 156.3 | 844 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| (k) Item No. | Instruments (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|--------------|--|----------------|-----------------|---------------------|-----------------|
| 213 | Engine Hour Meter Piper Dwg. 79548-3 | — | 0.3 | 61.2 | 18 |
| 215 | Clock Piper Dwg. 79621-4 | — | 0.4 | 62.4 | 25 |
| 217 | Outside Air Temperature Gauge Piper Dwg. 79316-0 (Dresser Industries P/N NHM-70) | X | 0.2 | 72.6 | 15 |
| 219 | Gyro Suction Gauge Piper Dwg. 99480-0 (Airborne P/N 1G10-1) or (AN Std. P/N AN577-11) | — | 0.5 | 62.2 | 31 |
| 221 | Vacuum Regulator (Airborne P/N 2H3-19) | X | 0.6 | 49.6 | 30 |
| 223 | Vacuum Filter Piper Dwg. 66673-0 (Airborne P/N 1J7-1) | X | 0.3 | 49.6 | 15 |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| (1) Item No. | Autopilots (Optional Equipment) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|--------------|--|-------------------|---------------------------|-------------------------------|-------------------------|
| 233 | AutoFlite II Cert. Basis STC SA3162SW-D | — | 5.6 | 91.8 | 514 |
| 235 | AutoControl IIIB a. Directional Gyro 52D54 b. Omni Coupler IC-388 Cert. Basis STC SA3161SW-D | X X X | 9.6 2.9 1.0 | 77.6 60.0 60.3 | 745 174 60 |
| 237 | AltiMatic IIIC a. Directional Gyro 52D54 b. Omni Coupler IC-388 c. G/S Coupler IC-493 Cert. Basis STC SA3323SW-D | — — — — | 24.3 2.9 1.0 1.4 | 147.7 60.0 60.3 53.1 | 3589 174 60 74 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

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PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| (m) Item No. | Radio Equipment (Optional Equipment) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|-----------------|---|-------------------|--------------------|------------------------|--------------------|
| 243 | Collins VHF-250 or VHF-251 Comm Transceiver | | | | |
| | a. Single | — | 4.0 | 56.9 | 228 |
| | b. Dual Cert. Basis - TSO C37b, C38b | — | 8.1 | 56.9 | 461 |
| 245 | Collins VIR-350 or VIR-351 Nav Receiver | | | | |
| | a. Single | — | 3.9 | 57.4 | 224 |
| | b. Dual Cert. Basis - TSO C40a, C36c | — | 7.9 | 57.4 | 453 |
| 247 | Collins IND-350 () VOR/LOC Indicator | | | | |
| | a. Single | — | 1.0 | 60.2 | 60 |
| | b. Dual Cert. Basis - TSO C40a, C36c | — | 2.0 | 60.2 | 120 |
| 249 | Collins IND-351 () VOR/LOC/GS GS Indicator | | | | |
| | Cert. Basis - TSO C40a, C36c | — | 1.3 | 60.2 | 78 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| (m) Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|-----------------|--|-------------------|--------------------|------------------------|---------------------|
| 251 | Collins GLS-350 Glide Slope Receiver Cert. Basis - TSO C34c | — | 2.0 | 181.8 | 364 |
| 253 | Collins DCE 400 Distance Computing Equipment Cert. Basis - TSO C40a | — | 2.1 | 58.9 | 124 |
| 255 | Collins RCR-650 ADF Receiver and Antenna and IND-650 Indicator Cert. Basis - TSO C41c | — | 7.7 | 104.8 | 807 |

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| Item No. | Radio Equipment (Optional Equipment) (cont) | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|------|----------------|-----------------|---------------------|-----------------|
| 256 | Collins RCR-650A ADF Receiver and Antenna and IND-650A Indicator. Cert. Basis - TSO C41C | | — | 8.4 | 100.9 | 848 |
| 257 | Collins AMR-350 Audio/Marker Panel Cert. Basis - TSO C35d, C50b | | — | *3.3 | 110.0 | 363 |
| 259 | Collins TDR-950 Transponder Cert. Basis - TSO C74c | | — | *2.8 | 63.2 | 177 |
| 271 | King KX 170 () VHF Comm/Nav a. Transceiver, Single b. Transceiver, Dual | | — | 7.3 14.6 | 56.6 56.6 | 413 826 |

*Weight includes antenna and cable.

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Radio Equipment (Optional Equipment) (cont) | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|----------|--|------|----------------|-----------------|---------------------|------------------|
| 273 | King KX 175 () VHF a. Transceiver b. King KN 75 Glide Slope Receiver c. King KN 75 Glide Slope Receiver (2nd) d. King KN 72 VOR/LOC Converter e. King KI 204 VOR/ILS Indicator Cert. Basis - TSO C33c, C37b, C38b, C40a | | _____ | 11.4 | 56.6 | 645 |
| | | | _____ | 1.6 | 184.3 | 295 |
| | | | _____ | 1.6 | 184.3 | 295 |
| | | | _____ | 1.3 | 183.6 | 239 |
| | | | _____ | 1.7 | 60.5 | 103 |
| 275 | King KX 175 () VHF a. Transceiver (2nd) b. King KN 72 VOR/LOC Converter c. King KI 203 VOR/LOC Indicator Cert. Basis - TSO C36c, C37b, C38b, | | _____ | 10.0 | 56.6 | 566 |
| | | | _____ | 1.3 | 183.6 | 239 |
| | | | _____ | 1.6 | 60.5 | 97 |

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

**SECTION 6
WEIGHT AND BALANCE**

| Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|-------------------------|-----------------|---------------------|-----------------|
| 277 | King KI 208 VOR/LOC Indicator a. Single b. Dual Cert. Basis - TSO C34c, C36c, C40a | X _____ _____ | 1.0 2.0 | 59.6 59.9 | 60 120 |
| 279 | King KI 209 VOR/LOC/GS Indicator Cert. Basis - TSO C34c, C36c, C40a | X _____ _____ | 1.2 | 59.9 | 72 |
| 281 | King KN 74 R-Nav | _____ _____ | 4.7 | 56.6 | 266 |
| 283 | King KI 206 R-Nav Indicator Cert. Basis - TSO C34c, C36c, C40a | _____ _____ | 1.3 | 56.6 | 74 |
| 285 | King KN 65A DME Cert. Basis - TSO C66a | _____ _____ | 13.0 | 174.9 | 2274 |
| 287 | King KR 85 Digital ADF a. Audio Amplifier Cert. Basis - TSO C41b | _____ _____ _____ | 8.6 0.8 | 85.2 51.0 | 733 41 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|----------|---|------------------------------|-------------------|-----------------------|-------------------|
| 289 | King KR 86 ADF a. First b. Second c. Audio Amplifier | X _____ _____ _____ | 6.7 9.7 0.8 | 91.6 107.0 51.0 | 614 1038 41 |
| 291 | King KMA 20 () Audio Panel Cert. Basis - TSO C35c, C50b | X _____ | *3.7 | 70.8 | 262 |
| 293 | King KT 76 ()/78 () Transponder Cert. Basis - TSO C74b | X _____ | *3.1 | 58.1 | 180 |
| 305 | Narco Comm 120 VHF Transceiver a. Single b. Dual Cert. Basis - TSO C37b, C38b | _____ _____ _____ | 4.8 8.6 | 56.9 57.4 | 273 494 |
| 307 | Narco Nav 121 VHF Receiver a. Single b. Dual Cert. Basis - TSO C36C, C40c, C66a | _____ _____ _____ | 3.1 6.2 | 58.4 58.4 | 181 362 |

*Weight includes antenna and cable.

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|---|----------------|-----------------|---------------------|-----------------|
| 309 | Narco Nav 122 VHF Receiver | | | | |
| | a. Single | | *5.1 | 99.4 | 507 |
| | b. Dual | | *8.6 | 82.9 | 713 |
| | Cert. Basis - TSO C35d, C36c, C40c, C66a | | | | |
| 311 | Narco Nav 122A VHF Receiver | | | | |
| | a. Single | | *5.2 | 98.5 | 512 |
| | b. Dual | | *8.8 | 82.2 | 723 |
| | Cert. Basis - TSO C34c, C35d, C36c, C40c, C66a | | | | |
| 313 | Narco Nav 124A VHF Receiver | | | | |
| | a. Single | | *6.2 | 92.3 | 572 |
| | b. Dual | | *10.9 | 77.2 | 841 |
| | Cert. Basis - TSO C35d, C36c, C40a, C66a | | | | |
| 315 | Narco Nav 124R VHF Receiver | | | | |
| | Cert. Basis - TSO C36c, C40a, C66a | | 4.4 | 57.5 | 253 |

*Weight includes marker antenna and cable.

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| (m) Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb.-In.) |
|-----------------|--|-------------------|--------------------|------------------------|---------------------|
| 317 | Narco ID 124 VOR/LOC/GS Indicator | — | 1.2 | 60.5 | 73 |
| | a. Single | — | 2.4 | 60.5 | 145 |
| 319 | b. Dual | — | | | |
| | Cert. Basis - TSO C34c, C35d, C36c, C40c | — | | | |
| 321 | Narco UGR-2A Glide Slope | — | 4.2 | 154.0 | 647 |
| | a. Single | — | 8.4 | 220.0 | 1848 |
| 323 | b. Dual | — | | | |
| | Cert. Basis - TSO C34b | — | | | |
| 325 | Narco CP135 Audio Selector Panel | — | 2.2 | 55.0 | 121 |
| | Cert. Basis - TSO C50b | — | | | |
| 323 | Narco CP135M Audio Selector Panel | — | *3.7 | 114.3 | 423 |
| | Cert. Basis - TSO C50b, C35d | — | | | |
| 325 | Narco CLC-60A R-Nav | — | 9.6 | 140.1 | 1345 |
| | a. Narco SA-11 Adapter | — | 0.7 | 174.0 | 122 |

*Weight includes marker antenna and cable.

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| (m) Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|-----------------|---|-------------------|--------------------|------------------------|--------------------|
| 327 | Narco DME-190 TSO Cert. Basis - TSO C66a | — | *5.9 | 60.9 | 359 |
| 329 | Narco DME-195 Receiver and Indicator Cert. Basis - TSO C66a | — | *13.2 | 154.5 | 2039 |
| 331 | Narco ADF-141 a. Single b. Dual Cert. Basis - TSO C41c | — — — | *8.9 **17.9 | 91.2 107.6 | 812 1926 |
| 333 | Narco AT150 Transponder Cert. Basis - TSO C74c a. Narco AR-500 Altitude Encoder Cert. Basis - TSO C88 | — — — | *3.0 1.0 | 57.3 51.5 | 172 52 |

*Weight includes antenna and cable.

**Weight includes dual antenna and cable.

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| Item No. | Radio Equipment (Optional Equipment) (cont) | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|--|--------------------------|-------------------|--------------------|------------------------|--------------------|
| 345 | Antenna and Cable | a. Nav Receiving | X | 1.4 | 195.7 | 274 |
| | | b. #1 VHF Comm | | 0.7 | 125.7 | 88 |
| | | c. #2 VHF Comm | | 0.8 | 147.5 | 118 |
| | | d. Glide Slope (Single) | | 0.9 | 122.2 | 110 |
| | | e. Glide Slope (Dual) | | 2.8 | 154.0 | 431 |
| | | f. Single ADF Sense | | 0.4 | 147.5 | 59 |
| 347 | Anti-Static Antenna and Cable | a. #1 VHF Comm | X | 1.4 | 144.3 | 202 |
| | | b. #2 VHF Comm | X | 1.5 | 170.7 | 256 |
| | | c. Single ADF Sense | X | 0.5 | 147.5 | 74 |
| 349 | Emergency Locator Transmitter | a. Antenna and Coax | X | 1.7 | 236.2 | 402 |
| | | b. Shelf and Access Hole | X | 0.2 | 224.4 | 45 |
| | | | X | 0.3 | 235.4 | 71 |
| 351 | Headphone | | | | | |
| | Wm. J. Murdock P/N P-23 | | | | | |
| | 300 Ohms with MC162A | | | | | |
| | Cushions or Telex | | | | | |
| | Comm. P/N 61650-03 | X | 0.5 | 60.0 | 30 | |

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| (m) Item No. | Radio Equipment (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|--------------------|--|------------------------------|--------------------|------------------------|--------------------|
| 353 | Microphone a. Telex Acoustics P/N 60837-17 (Model 66C) b. Narco P/N M700B c. Telex Acoustics P/N 62800-04 (Model 100T/NH) | X _____ _____ _____ | 0.3 0.6 0.3 | 64.9 69.9 64.9 | 19 42 19 |
| 355 | Boom Microphone - Headset Piper Dwg. 37921-2 Telex 5 x 5 Mark II (P/N 62629-00) | _____ | 0.3 | 80.5 | 24 |
| 357 | Cabin Speaker, Installation Piper Dwg. 99746-0 | X _____ | 0.8 | 99.0 | 79 |

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| (n) Item No. | Miscellaneous (Optional Equipment) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|--------------|---|----------------|------------------------------|---------------------|-----------------|
| 387 | Zinc Chromate Finish Piper Dwg. 79700-2 | — | 5.0 | 158.0 | 790 |
| 389 | Stainless Steel Control Cables Piper Dwg. 79700-9 | — | (Same as standard equipment) | | |
| 391 | Air Conditioner Piper Dwg. 35878-3 | — | 69.8 | 105.7 | 7378 |
| 393 | Overhead Vent System Piper Dwg. 76304-23 | — | 6.4 | 159.6 | 1022 |
| 395 | Overhead Vent System with Ground Ventilating Blower Piper Dwg. 76304-24 | X | 14.9 | 172.2 | 2566 |
| 397 | Assist Step Piper Dwg. 65384 | X | 1.8 | 156.0 | 281 |
| 399 | Super Cabin Sound Proofing Piper Dwg. 79601-4 | X | 18.1 | 86.8 | 1571 |
| 401 C | Adjustable Front Seat (Left) Piper Dwg. 79591-2 | X | *6.6 | 80.3 | 530 |

*Weight and moment difference between standard and optional equipment.

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| Item No. | Miscellaneous (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|----------|--|----------------|-----------------|---------------------|-----------------|
| 403 | Adjustable Front Seat (Right) Piper Dwg. 79591-3 | — | *6.6 | 79.6 | 525 |
| 405 | Headrests (2) Front Piper Dwg. 79337-18 | — | 2.2 | 94.5 | 208 |
| 407 | Headrests (2) Rear Piper Dwg. 79337-18 | — | 2.2 | 132.1 | 291 |
| 409 | Oversize Headrest (2) Front Piper Dwg. 79764-2 | ✕ | 3.2 | 94.5 | 302 |
| 411 | Oversize Headrests (2) Rear Piper Dwg. 79764-2 | ✕ | 3.2 | 132.1 | 423 |
| 413 | Inertia Safety Belts (Rear) (2) 0.8 lbs. each Piper PS50039-4-14 (Pacific Scientific P/N 1107319-01 Black) or (American Safety Eqpt. Corp. P/N 500853-401) | — | 1.6 | 140.3 | 224 |

*Weight and moment difference between standard and optional equipment.

**SECTION 6
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV**

| (n) Item No. | Miscellaneous (Optional Equipment) (cont) Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
|--------------|---|----------------|-----------------|---------------------|-----------------|
| 415 | Assist Strap Piper Dwg. 79455-0 | — | 0.2 | 109.5 | 22 |
| 417 | Curtain and Rod Installation Piper Dwg. 67955-2 | X | 4.2 | 124.0 | 521 |
| 419 | Luxurious Interior Piper Dwg. 67952-3 | X | *17.0 | 101.9 | 1732 |
| 421 | Fire Extinguisher Piper Dwg. 37872-2 (Graviner HA1014-01) | — | 5.6 | 57.9 | 324 |

*Weight and moment difference between standard and optional equipment.

PIPER AIRCRAFT CORPORATION
PA-28RT-201, ARROW IV

SECTION 6
WEIGHT AND BALANCE

| (n) Miscellaneous (Optional Equipment) (cont) | | | | | |
|--|---|-------------------|--------------------|------------------------|--------------------|
| Item No. | Item | Mark if Instl. | Weight (Pounds) | Arm (In.) Aft Datum | Moment (Lb-In.) |
| 423 | Clip Installation - Map Piper Dwg. 37907-2 | | 0.1 | 70.0 | 7 |
| TOTAL OPTIONAL EQUIPMENT | | | 151.8 | 98.9 | 15014 |

EXTERIOR FINISH

| | | | | |
|--------------|--------------|------------------|---------|-------|
| Base Color | Juneau White | Registration No. | Color | Black |
| Trim Color | Ocala Orange | Type Finish | Lacquer | |
| Accent Color | Matador Red | | | |

