

6.3 - LOADING SYSTEM

Aeroplane Type:..... PIPER PA28-151

Registration Marking:..... **VH-PZW** Serial No: 28-7715208

ISSUE:..... THREE DATE:..... 20.7.99

The following is valid only for the Empty Weight specified in paragraph 6.2 - Aeroplane Weight dated. 20.7.99 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

A..NORMAL CATEGORY OPERATIONS:-

1. OCCUPANTS:-

Load Front to Rear (i.e. Front seats first)
Load Heaviest Passenger in front row

2. BAGGAGE:-

Number of Occupants	Rear Baggage Maximum
One(pilot)	83.9 Kg
Two	90.7 Kg
Three	53.7 Kg
Four	10.2 Kg

3. FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT1055 Kg

B...UTILITY CATEGORY OPERATIONS:-

Due to an Aft Centre of Gravity, this aircraft can not be operated in the Utility Category.

AeroWeight Pty. Ltd.

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6.2(a) - EQUIPMENT LIST

This list details the items included in the empty weight shown in Section 6.2

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ENGINES/PROPS

Lycoming O-320..... 1
Sensenich 74DM6..... 1

COMPASSES

Magnetic..... 1

THERMOMETERS

Engine Temp(Cyl.Head.) 0
Oil Temp..... 1
Outside Air Temp..... 1

INDICATORS

Airspeed..... 1
Directional Gyro..... 1
Exhaust Gas Temp..... 0
Flight Hour..... 1
Gyro Horizon..... 1
Stall Warning..... 1
Tacho Recording..... 1
Trim Indicator..... 2
Turn Co-ordinator..... 1
Vertical Speed..... 1
Assigned Altitude..... 1

LIGHTS

Anti-collision..... 1
Inst. Full Panel..... 1
Inst. Flood/Spot..... 1
Landing..... 1
Map Reading..... 1
Cabin Dome..... 1
Navigation..... 3

GAUGES

Engine Oil Pressure..... 1
Fuel Contents..... 2
Fuel Pressure..... 1
Suction Pressure..... 1

INSTRUMENTS

Altimeters..... 1
Ammeters..... 1
Clocks..... 1

RADIO EQUIPMENT (TYPE)

ADF..... KING KR87
AP-F/D..... 0
Speakers..... 1
Int DME..... 0
G/slope.....
Headsets..... 1
Nav/Com..... KING KX155
Marker..... KING KR21
Txponder..... KING KT76A
Encoder..... TRANSCAL D120P2
Audio..... KING KMA24H
GPS..... TRIMBLE TNL2000T

RESTRAINT EQUIPMENT

Rear Bagg Straps..... 2
Inertia Reels..... 2
Lap-sash Harnesses..... 2
Lap Belts..... 2

MISCELLANEOUS EQUIPMENT

Dual Controls..... 1
Fire Ext. (Portable)..... 1
Cabin Heater (Muff)..... 1
Vacuum Pumps..... 1
Heated Pitots..... 1
Alternate Static..... 1
Piper Vent Fan..... 0
Wheel Fairings..... 0

DISPOSABLE LOAD LIST

Torch..... 1
V.S.Beacon/E.L.T..... ELT-10

6.2 - AEROPLANE WEIGHT

Aeroplane Type:..... PIPER PA28-151

Registration Marking:..... **VH-PZW** Serial No: 28-7715208

ISSUE:.... THREE	DATE:..... 20.7.99	EXPIRY:..... INDEFINITE
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AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	INDEX UNIT (Kg.mm)	CABIN CONFIGURATION
BASIC	664.3	2221	1475483	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION "MAGNA FLITE" LIGHTWEIGHT STARTER FITTED				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb)	
BASIC	1464.5	87.4	128066	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

BASIC - unusable fuel and full oil

AeroWeigh Pty. Ltd.

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SECTION 6 WEIGHT AND BALANCE

PIPER AIRCRAFT CORPORATION
PA-28-151, CHEROKEE WARRIOR

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passengers (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage*		142.8	
Total Loaded Airplane			

Totals must be within approved weight and C.G. limits. It is the responsibility of the pilot to ensure 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.

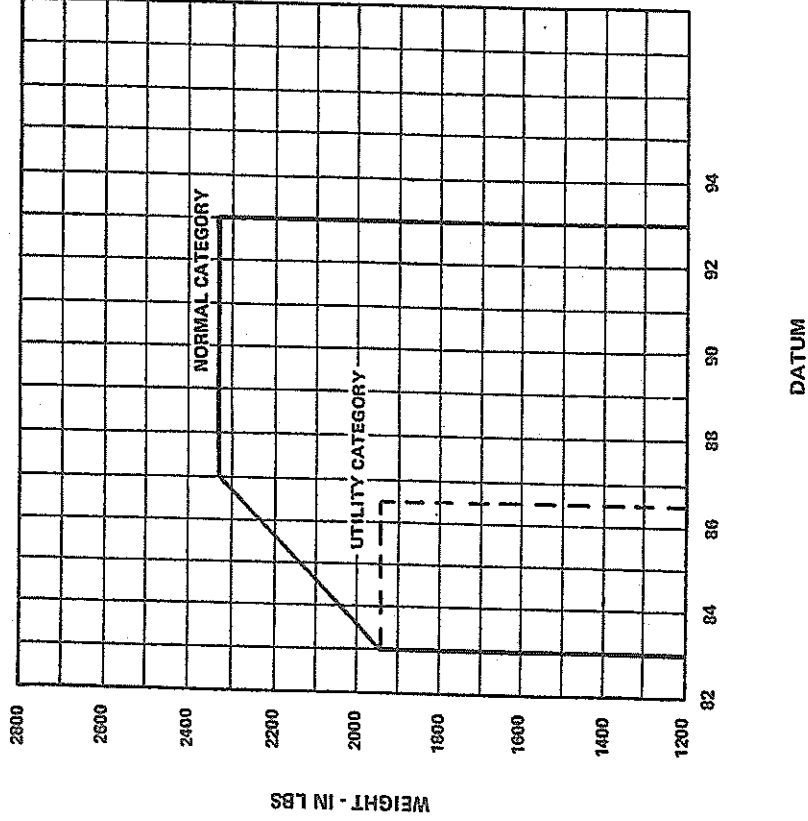
*Utility Category Operation - No baggage or aft passengers allowed.

WEIGHT AND BALANCE LOADING FORM

Figure 6-11

SECTION 6
WEIGHT AND BALANCE

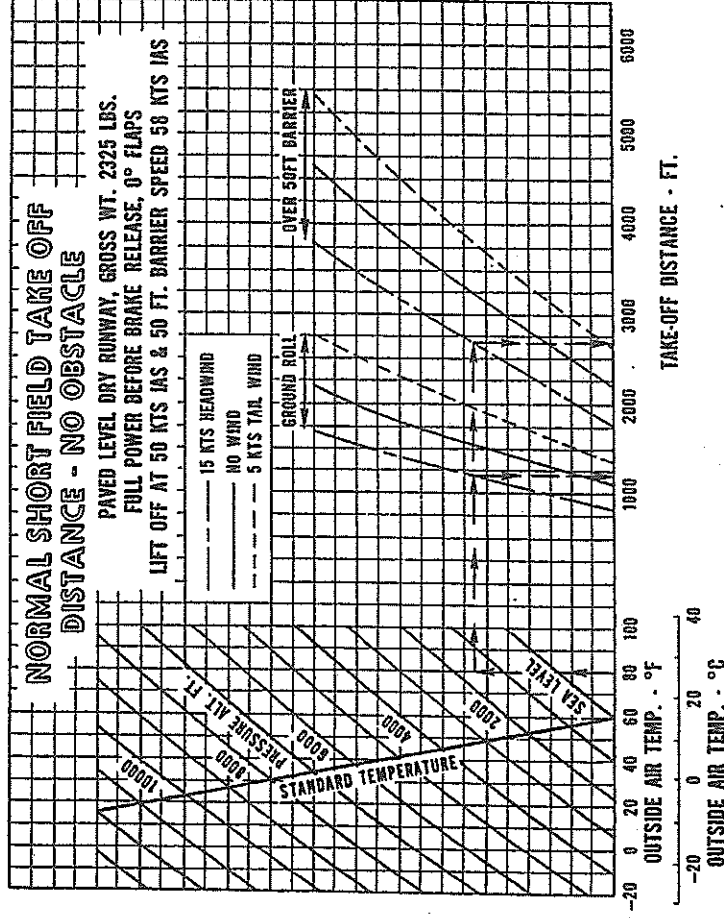
PIPER AIRCRAFT CORPORATION
PA-28-151, CHEROKEE WARRIOR



C. G. RANGE AND WEIGHT

Figure 6-15

PA-28-151



Example:

Departure airport pressure altitude: 1500 ft.

Departure airport temperature: 80°F

Wind: 15 KTS headwind

Ground roll: 1200 ft.

Distance over 50 ft. barrier: 2650 ft.

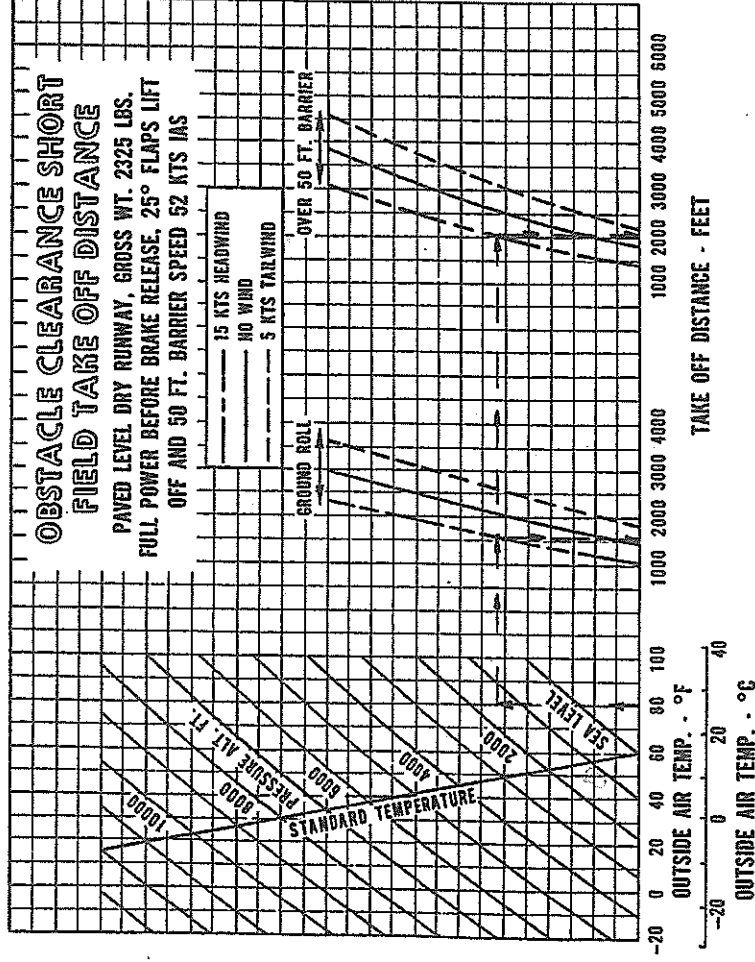
NORMAL SHORT FIELD TAKEOFF DISTANCE - NO OBSTACLE

Figure 5-5

ISSUED: JUNE 17, 1976

REPORT: VB-780
5-13

PA-28-151



Example:

Departure airport pressure altitude: 1500 ft.
Departure airport temperature: 80°F
Wind: 15 KTS headwind
Ground roll: 1600 ft.
Distance over 50 ft. barrier: 2100 ft.

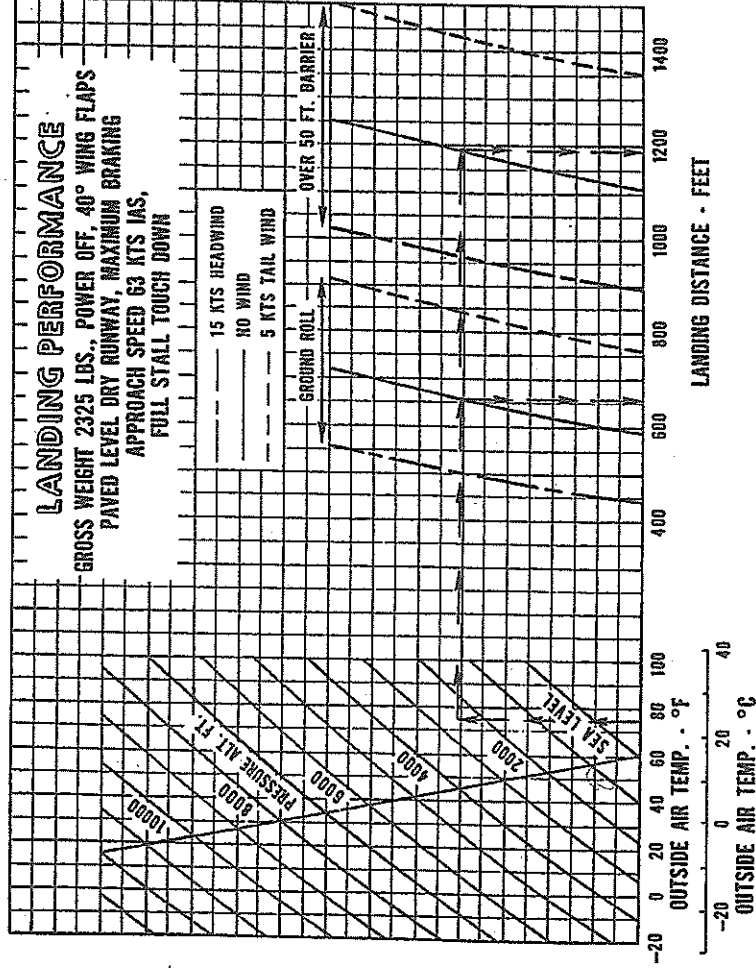
OBSTACLE CLEARANCE SHORT FIELD TAKEOFF DISTANCE

Figure 5-7

SECTION 5
PERFORMANCE

PIPER AIRCRAFT CORPORATION
PA-28-151, CHEROKEE WARRIOR

PA-28-151



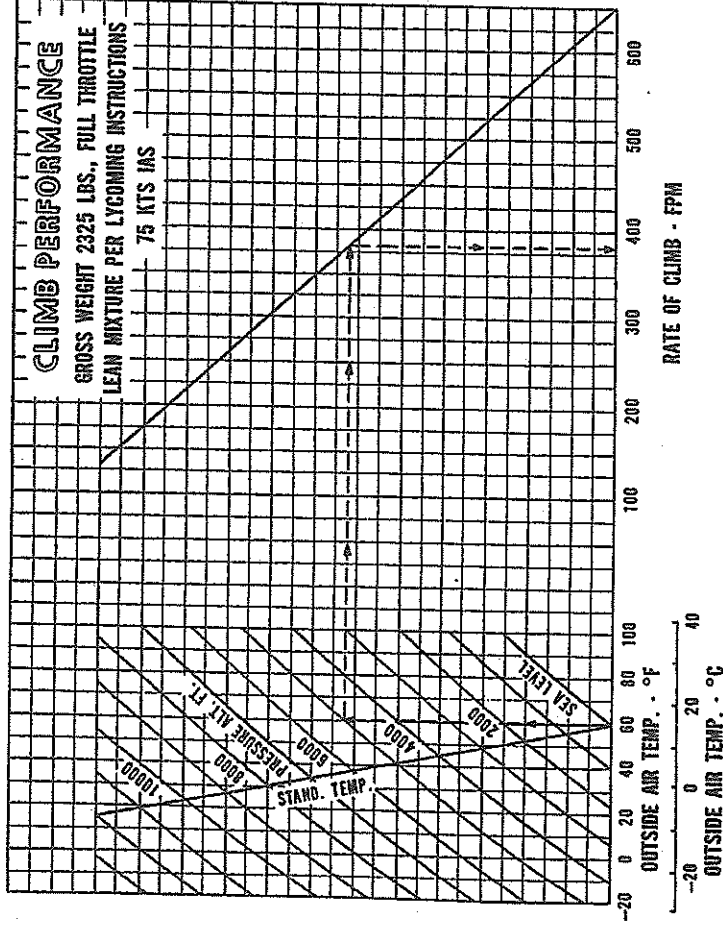
Example:

Destination airport pressure altitude: 2500 ft.
 Destination airport temperature: 75°F
 Destination airport wind: 0 KTS
 Ground roll: 660 ft.
 Distance over 50 ft. barrier: 1190 ft.

LANDING PERFORMANCE

Figure 5-27

PA-28-151



Example:

Climb pressure altitude: 5000 ft.
Climb OAT: 60°F
Rate of climb: 380 ft./min.

CLIMB PERFORMANCE

Figure 5-11