

AIRCRAFT

LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

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

Registration Marking:..... **VH-IBU** Serial No: 28-7515387

ISSUE:..... FOUR	DATE:..... 21.10.05	EXPIRY:..... INDEFINITE
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AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (Kg.mm)	CABIN CONFIGURATION
EMPTY	646.5	2205	1425526	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb)	
EMPTY	1425.2	86.8	123730	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

BASIC EMPTY WEIGHT - unusable fuel and **full** oil

AeroWeigh Pty. Ltd.
BRUCE GLESSOLD
AUTHORITY NUMBER AN-9
PHONE: 9755 7104 FAX: 9755 7126
MOBILE: 0412 58 5551

LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

This list details the items included in the empty weight shown in Page 1.

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ENGINES/PROPS

Lycoming 0-320-E..... 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

RADIO EQUIPMENT (TYPE)

ADF..... KING KR87

A/P-F/D..... 0

Speakers..... 1

G/slope..... PART KX155

Headsets..... 1

VHF Com..... KING KX155

VHF Nav..... PART KX155

Audio..... KING KMA24H

Marker..... KING KR21

GPS..... TRIMBLE TNL2000 APP+

Txponder..... KING KT76A

Encoder..... TRANSCAL D120P2

Intercom..... 0

DISPOSABLE LOAD LIST

Torch..... 1

V.S.Beacon/E.L.T..... ARTEX 200

INSTRUMENTS

Altimeters..... 1

Ammeters..... 1

Clocks..... 1

GAUGES

Engine Oil Pressure..... 1

Fuel Contents..... 2

Fuel Pressure..... 1

Suction Pressure..... 1

LIGHTS

Anti-collision..... 1

White Strokes(tips)..... 0

Inst. Full Panel..... 1

Inst. Flood/Spot..... 1

Landing..... 1

Map Reading..... 1

Cabin Dome..... 1

Navigation..... 3

RESTRAINT EQUIPMENT

Rear Bagg Straps..... 2

Inertia Reels..... 2

Lap-sash Harnesses..... 2

Lap Belts..... 2

ELECTRICAL EQUIPMENT

Batteries..... 1

Starters (lightweight)..... 1

Alternator (Bosch)..... 1

External Power..... 0

MISCELLANEOUS EQUIPMENT

Dual Controls..... 1

Fire Ext.(Portable)..... 1

Cabin Heater (Muff)..... 1

Vacuum Pumps..... 1

Heated Pitots..... 1

Alternate Static..... 1

Vent Fan..... 1

Wheel Fairings..... 0

AeroWeigh Pty. Ltd.

BRUCE GIBBOLD

AUTHORITY NUMBER AN-9

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LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

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The following is valid only for the Empty Weight specified in page 1 of 3 - Aeroplane Weight dated.. 21.10.05 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)	90.1 Kg
Two	90.7 Kg
Three	59.5 Kg
Four	16.0 Kg

3. FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....1055 Kg

B...UTILITY CATEGORY OPERATIONS:-

1. With PILOT Only Utility Category Operations are not permitted

2. With TWO Occupants Maximum Fuel is 60 Litres.

MAXIMUM TAKE-OFF WEIGHT.....885 Kg

NOTE: In utility category operations, the baggage compartment must be empty and the rear seat unoccupied.

AeroWeigh Pty. Ltd.

BRUCE REID SOLD

AUTHORITY NUMBER AN-9

PHONE: 9755 7104 FAX: 9755 7126

MOBILE: 0412 58 5551

WEIGHT AND BALANCE DATA

MODEL PA-28-151 CHEROKEE

Airplane Serial Number _____

Registration Number _____

Date _____

AIRPLANE EMPTY WEIGHT

Item		Weight (Lbs)	× C. G. Arm (Inches Aft of Datum)	= Moment (In-Lbs)
*Empty Weight	Actual Computed			
Unusable Fuel (2 gal.)		12	103	1236
Standard Empty Weight				
Optional Equipment				
Licensed Empty Weight				

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

AIRPLANE USEFUL LOAD

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

Normal Category: (2325 lbs) - (lbs) = lbs

Utility Category: (1950 lbs) - (lbs) = lbs

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.

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)

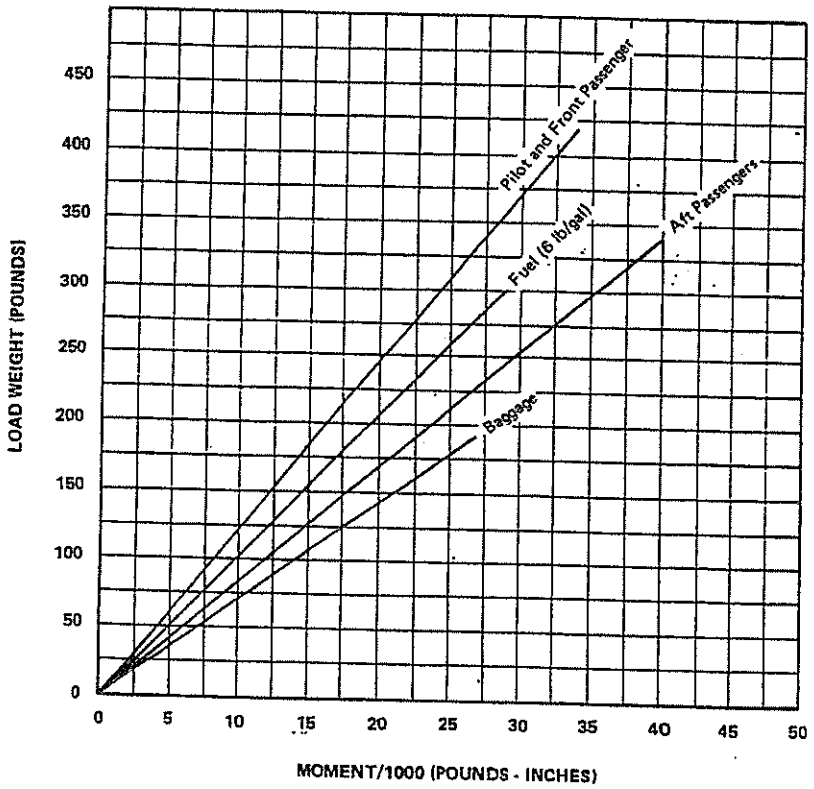
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Licensed Empty Weight			
Oil (8 quarts)	15	27.5	413
Pilot and Front Passenger	340	80.5	27370
Passengers, Aft* (Rear Seat)	340	118.1	40154
Fuel (48 Gal. Maximum)		95.0	
Baggage*		142.8	
Total Loaded Airplane			

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.

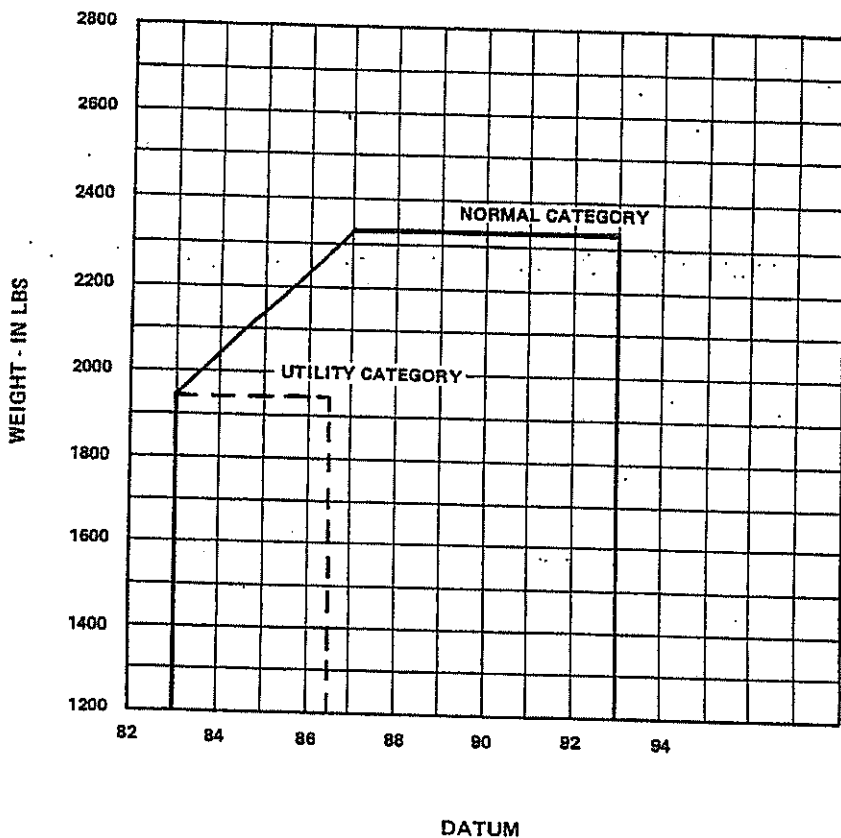
*Utility Category Operation - No baggage or aft passengers allowed.

LOADING GRAPH

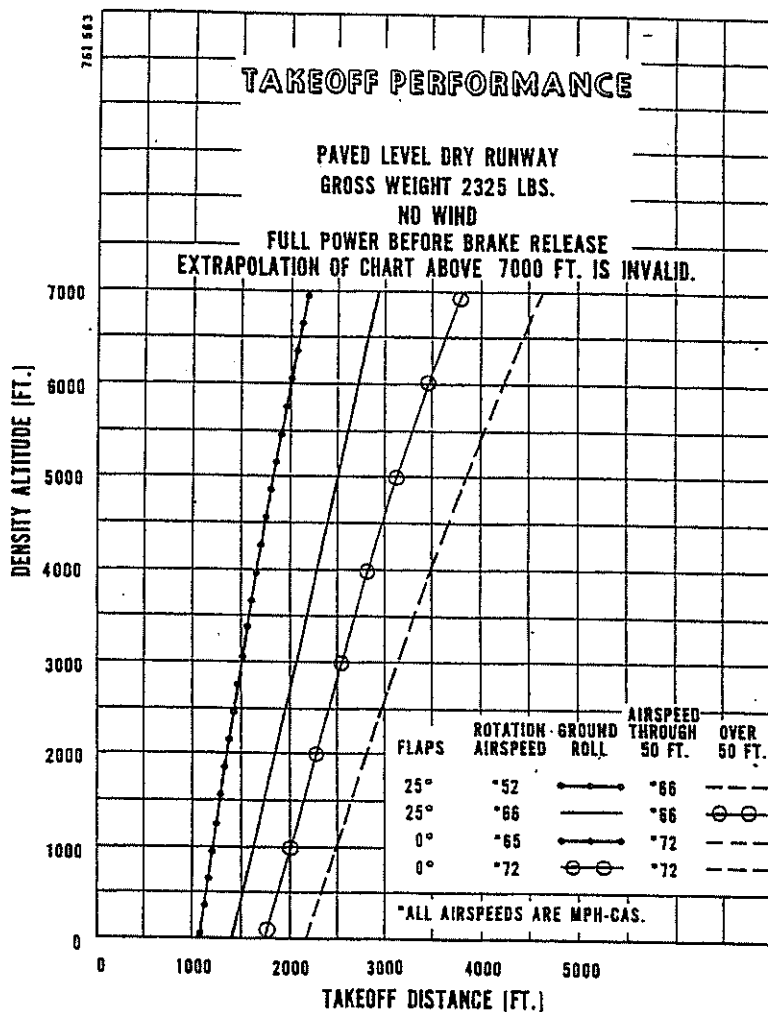


CHEROKEE WARRIOR

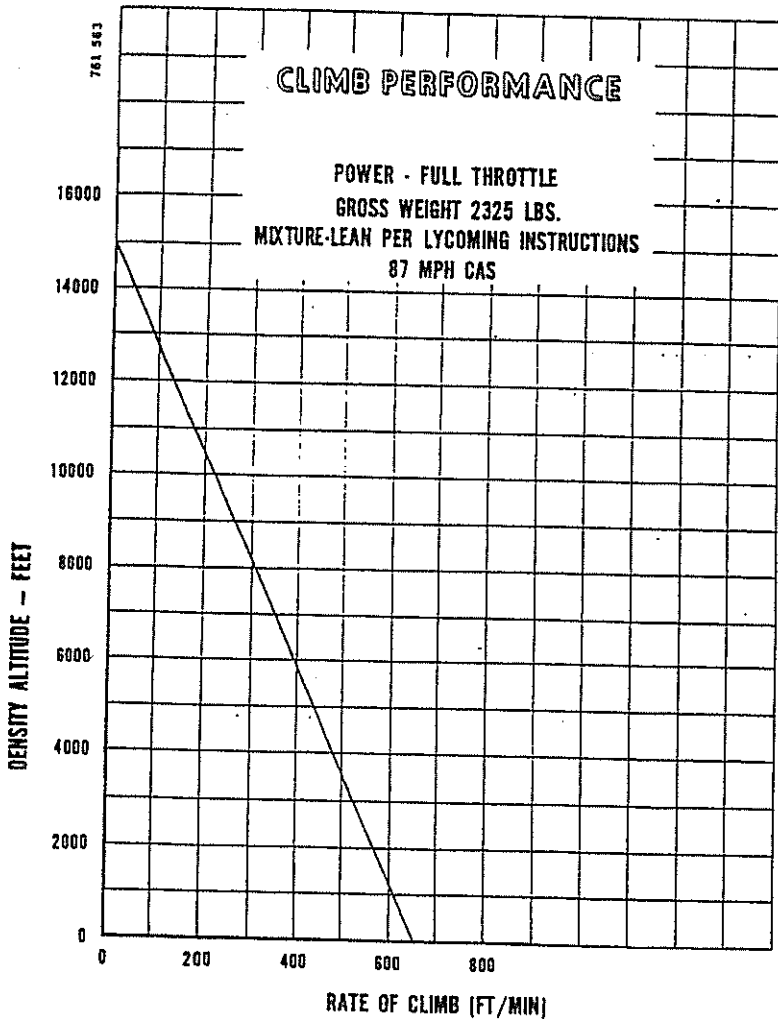
C. G. RANGE AND WEIGHT



PA-28-151 CHEROKEE



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