

LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type:..... PIPER PA28-180

Registration Marking:..... **VH-CHJ** Serial No: 28-5043

ISSUE:.... THREE	DATE:..... 04-Apr-19	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	642.0	2187	1403896	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE AIRPLANE FLIGHT MANUAL				
	(lb)	(in)	(in.lb)	
EMPTY	1415.4	86.1	121853	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

EMPTY - unusable fuel and full oil

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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 O-360-A4A..... 1

Sensenich 76EM8S5..... 1

COMPASSES

Magnetic..... 1

THERMOMETERS

Cylinder Head Temp..... 0

Oil Temp..... 1

Outside Air Temp..... 1

Carb Air Temp..... 0

INDICATORS

Airspeed..... 1

Directional Gyro..... 1

E.G.T..... 1

Flight Hour..... 1

Fuel Flow Computer..... 0

Gyro Horizon..... 1

Stall Warning..... 1

Tacho Recording..... 1

Trim Indicator..... 2

Turn Co-ordinator..... 1

Vertical Speed..... 1

Assigned Altitude..... 0

RADIO EQUIPMENT (TYPE)

ADF..... 0

A/P-F/D..... AUTOCONTROL III

Coupler..... EDO IC-388

Speakers..... 1

G/slope..... 0

Headsets..... 1

Nav/Com..... TKM MX170B

VHF Com..... TKM MX11

Audio/Mkr.... GARMIN GMA340

Txponder..... NARCO AT150

Encoder..... ACK A-30

Intercom..... 0

DISPOSABLE LOAD LIST

Torch..... 0

Portable E.L.T..... 0

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

Inst. Panel Flood..... 1

Landing..... 1

Map Reading..... 1

Cabin Dome..... 2

Navigation..... 3

White Strobes(tips/tail)..... 0

RESTRAINT EQUIPMENT

Rear Bagg Straps..... 0

Inertia Reels..... 2

Lap-sash Harnesses..... 2

Lap Belts..... 2

ELECTRICAL EQUIPMENT

Alternators..... 1

Batteries 1

Starters..... 1

External Power..... 0

MISCELLANEOUS EQUIPMENT

Dual Controls..... 1

Fire Ext.(Portable)..... 0

Cabin Heater (Muff)..... 1

Vacuum Pumps..... 1

Heated Pitots..... 0

Alternate Static..... 0

Electric Trim..... 0

Wheel Fairings..... 3

USB Port..... 1

Go Pro Mounts (Cabin).... 3

Go Pro Mounts (Wings)... 4

LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:..... PIPER PA28-180

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ISSUE:.... THREE

DATE:..... 4.04.19

The following is valid only for the Empty Weight specified in Page 1 of 3 Aeroplane Weight dated... 4.04.19 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:-

<u>Number of Occupants</u>	<u>Rear Baggage</u>	
	<u>Minimum</u>	<u>Maximum</u>
One(pilot)	0.0 Kg	90.7 Kg
Two	10.0 Kg	90.7 Kg
Three	10.0 Kg	89.7 Kg
Four	0.0 Kg	57.7 Kg

3. FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....1088 Kg

B...UTILITY CATEGORY OPERATIONS:-

Due to an Aft C of G problem, this aircraft should not be operated in the Utility Category.

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

NOTE: If a full Loading Check is required, refer to Instructions and Charts in the Piper AFM Weight & Balance Section.

LOADING SYSTEM (Load Chart)

Aeroplane Type:..... PIPER PA28-180

Registration Marking:..... **VH-CHJ** Serial No: 28-5043

The information below is based on the Empty Weight specified in
Load Data Sheet Issue 3 dated 4th April 2019

Basic Empty Weight (Kg) - includes <u>FULL</u> Oil	Arm (mm)
Four Seats Total	642
	2187

INSTRUCTIONS FOR LOAD CHART BC/PA180/1 ISSUE ONE (14 MARCH 2018) PIPER PA28-180 ARCHER

1. Use standard trim sheet procedures. Enter top of chart using current Basic EMPTY Weight and Arm obtained from the Load Data Sheet.
2. Total load weights in left hand column obtaining Zero Fuel Weight and Take-off Weight.
Draw horizontal lines on the C.G. Limits Graph at the bottom of the chart.
3. From the Basic Weight Versus Arm point at the top of the chart, draw a line VERTICALLY down until it intersects one of the oblique lines on the first load item scale.
4. Move HORIZONTALLY along the load item scale in the direction of the arrow and mark a point appropriate to the load indicated in the left hand column. [e.g. with 50 Kg/Div a 100 Kg load = 2 Div.]
5. Draw a VERTICAL line down to the next load item scale and repeat the above process. (Exercise care in plotting values of segments, noting that occupant scale segments are 50 Kg)
6. Proceed VERTICALLY down the load item scales, moving to left or right as indicated by the arrows and marking scale divisions as appropriate to each load.
7. From the last cabin load item scale draw a line VERTICALLY down to intersect the Zero Fuel line previously drawn on the limits graph.
8. Continue down to the fuel scales and mark off the appropriate load, noting that FUEL has 50 Kg/Div scales, then draw a line VERTICALLY down from the last fuel point to intersect the Take-off Weight line previously drawn on the limits graph.
9. The two intersection points above must not exceed the boundaries of the limits graph (heavily lined). If either point does, then the load must be rearranged and loading rechecked with steps 2 to 8.

*****DO NOT EXCEED MAXIMUM WEIGHTS SHOWN ON THE CHART*****

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04-Apr-19

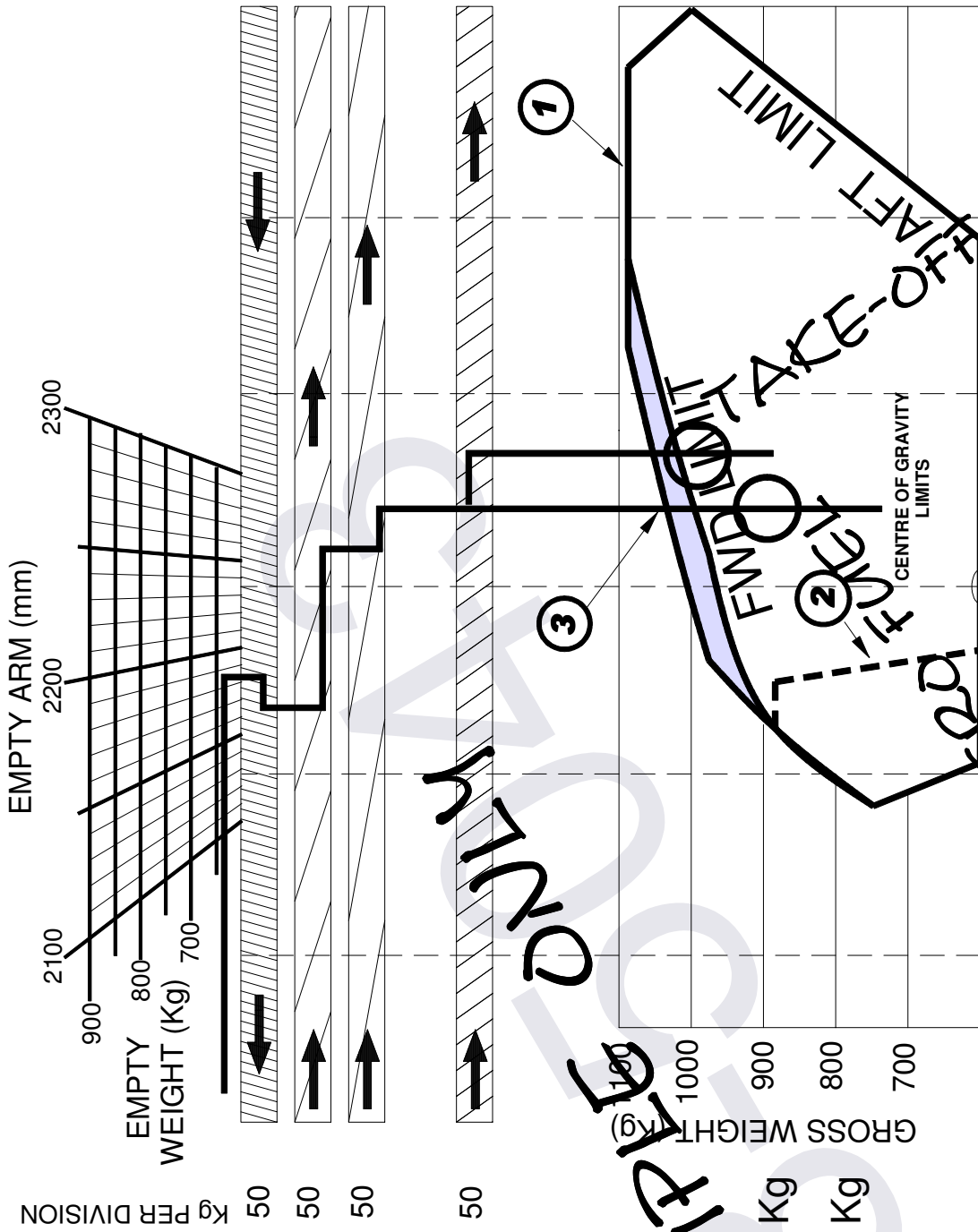
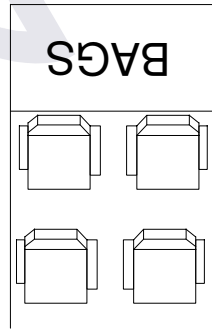
LOAD CHART BC/PA180/1 PIPER PA28-180 ARCHER

* APPLICABLE TO ALL PA28-180 ARCHER AIRCRAFT UP TO S/N 28-7253018

EMPTY WEIGHT	642
PILOT/CO-PILOT	150
REAR SEATS	75
BAGS (MAX 90.7)	10
ZERO FUEL WEIGHT	877
FUEL (MAX 130)	100
TAKE-OFF WEIGHT	977
FUEL BURN-OFF	60
LANDING WEIGHT	917

MAXIMUM TAKE-OFF WEIGHT

- ① NORMAL — 1088.6 Kg
- ② UTILITY — 884.5 Kg



③ THE EXTENDED FORWARD LIMIT (SHADED AREA) ONLY APPLIES FROM S/N 28-7105001 TO 28-7205318 AND EARLIER AIRCRAFT THAT HAVE FLIGHT MANUAL SUPPLEMENT No.2 REPORT VB-261

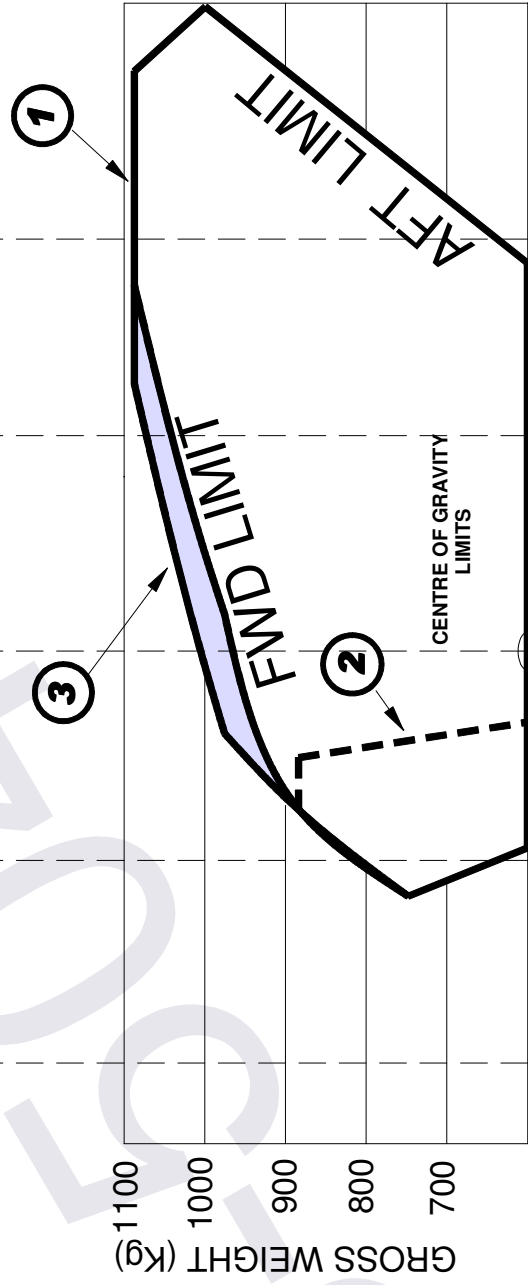
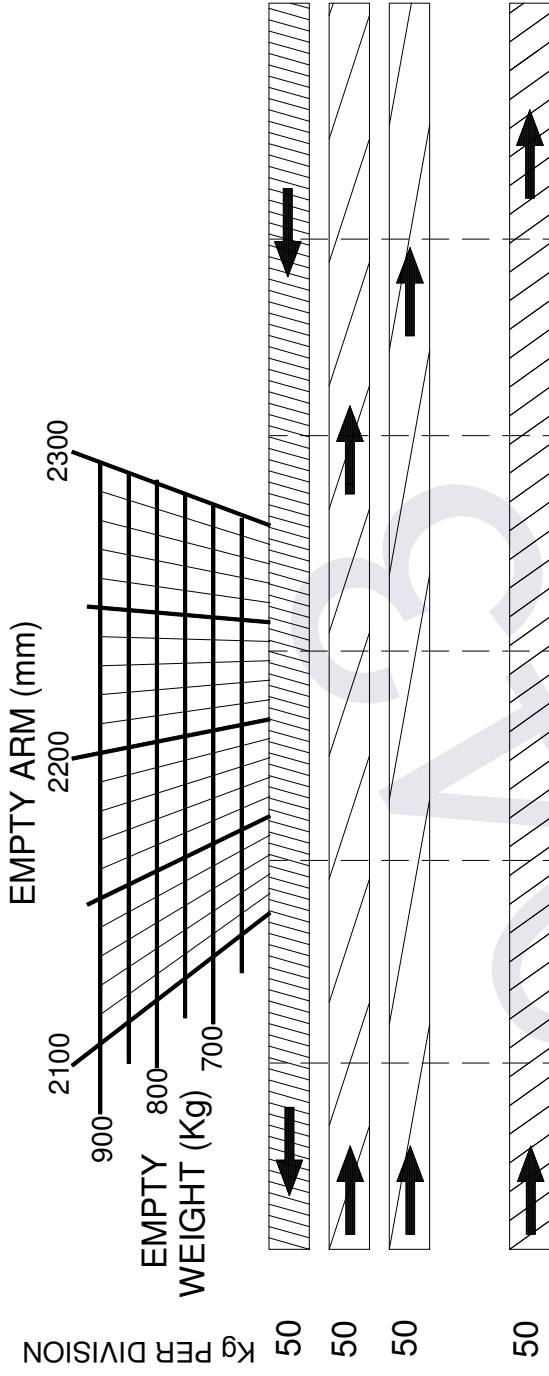
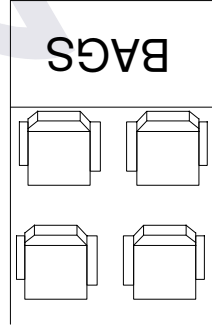
LOAD CHART BC/PA180/1 PIPER PA28-180 ARCHER

* APPLICABLE TO ALL PA28-180 ARCHER AIRCRAFT UP TO S/N 28-7253018

EMPTY WEIGHT	
PILOT/CO-PILOT	
REAR SEATS	
BAGS (MAX 90.7)	
ZERO FUEL WEIGHT	
FUEL (MAX 130)	
TAKE-OFF WEIGHT	
FUEL BURN-OFF	
LANDING WEIGHT	

MAXIMUM TAKE-OFF WEIGHT

- ① NORMAL — 1088.6 Kg
- ② UTILITY — 884.5 Kg



- ③ THE EXTENDED FORWARD LIMIT (SHADED AREA)
- ③ ONLY APPLIES FROM S/N 28-7105001 TO 28-7205318 AND EARLIER AIRCRAFT THAT HAVE FLIGHT MANUAL SUPPLEMENT No.2 REPORT VB-261