

Part A - Weight & Balance Maintenance Data (to be completed by a Weight and Balance Control Officer (WBCO))

Part B - Record of Empty Weight and Balance Changes: the person co-ordinating maintenance shall ensure that Part B is calculated and recorded in accordance with CAO 100.71

Organisation	HAWKER PACIFIC - BANKSTOWN	Aircraft Type	PIPER PA28-181	Registration	VH-XCW	Page	ONE
				Serial	2881484		

WEIGHT AND BALANCE RECORD

LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type PIPER PA28-181
Registration Marking VH-XCW Serial No 2881484

ISSUE: ONE	DATE: 15-Oct-21	EXPIRY: INDEFINITE
------------	-----------------	--------------------

AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (kg.mm)	CABIN CONFIGURATION
EMPTY	806.6	2273.5	1833756	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb)	
EMPTY	1778.2	89.51	159163	FOUR SEATS TOTAL

NOTE: The above empty weights include:

EMPTY - unusable fuel and full oil

AeroWeigh Pty. Ltd.
BRUCE CUSCO
AUTHORITY DERIVED
MOBILE 0412 56 5551

LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

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

Aeroplane Type PIPER PA28-181
Registration Marking VH-XCW Serial No 2881484

ISSUE: ONE	DATE: 15-Oct-21
------------	-----------------

ENGINES PROPELLERS Lycoming O-360-A4M 1 Sensenich 76M8S14 1	INSTRUMENTS Altimeters 1* Standby Altimeters G5 Volt Ammeters 1* Clocks 1*
COMPASSES Magnetic 1 Remote Indicating 1*	GAUGES Engine Oil Pressure 1* Fuel Contents 2* Fuel Pressure 1*
THERMOMETERS Cyl Head Temp 1* Oil Temp 1* Outside Air Temp 1*	LIGHTS Tail Sirobo 1 Wing Sirobes (Tips) 2 Inst. Full Panel 1 Inst. Overhead 2 Landing 2 Map 2 Navigation 4 Cockpit Courtesy 1 Passenger O/Head 2
INDICATORS Airspeed 1* Standby Airspeed G5 Direction Indicator 1* Exhaust Gas Temp 1* Hourmeters 2 Fuel Flow 1* Attitude Indicator 1* Standby Gyro Horizon G5 Tacho Non-recording 1* Trim Indicator 2 Vertical Speed 1* Altitude Alert 1* CO Detector Guardian	RESTRAINT EQUIPMENT Lap-sash Inertia 4 Inflatable Restraints 2 Rear Baggage Straps 2
RADIO EQUIPMENT (TYPE) ADF 0 Autopilot GARMIN GFC700 Speakers 1 G slope Headsets 1 GPS/Com GARMIN GIA64W(x2) Audio/Mkr GARMIN GMA1360 Txponder GARMIN GTX345R PFD GARMIN GDU1050 MFD GARMIN GDU1054 ADAHRS GARMIN GSU75 Magnetomir GARMIN GMU44B Analyzer GARMIN GEA71B Traffic GARMIN GTS800 TAWS-B GARMIN G1000 Standby GARMIN G5 Magnetomir GARMIN GMU11	ELECTRICAL EQUIPMENT Alternator 1 Batteries 2 Starters 1 External Power 1 MISCELLANEOUS EQUIPMENT Dual Controls 1 Fire Ext (Portable) 1 Heated Pilot 1 Cabin Heat (Muff) 1 Alternate Static 1 Piper Vent Fan 1 Airconditioner 1 Electric Trim 1 Wheel Fairings 0 DISPOSABLE LOAD LIST Torch 1 V.S. Beacon/EL.T. Artex 1000 Tow Bar 1

* ITEMS MARKED ARE PART OF ELECTRONIC DISPLAYS

LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type..... PIPER PA28-181

Registration Marking..... VH-XCW Serial No: 2881484

ISSUE:..... ONE DATE:..... 15 Oct 21

The following is valid only for the Empty Weight specified in Page 1 of 3
Aeroplane Weight dated, 15 Oct 21, 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 COMPARTMENT LIMITATIONS:-

Number of Occupants	Maximum Baggage
One(pilot)	66.4 Kg
Two	90.7 Kg
Three	37.2 Kg
Four	0.0 Kg

3. FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT1157 Kg

B...UTILITY CATEGORY OPERATIONS:-

No limitations except Utility Category all up weight limit

MAXIMUM TAKE-OFF WEIGHT966 Kg

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

NOTE: If a full Loading Check is required, refer to Instructions and Charts in the Pilots Handbook Section Six.

PIPER PA28-181 LOADING SYSTEM

Registration
VH XCW

Aircraft Type
PIPER PA28-181

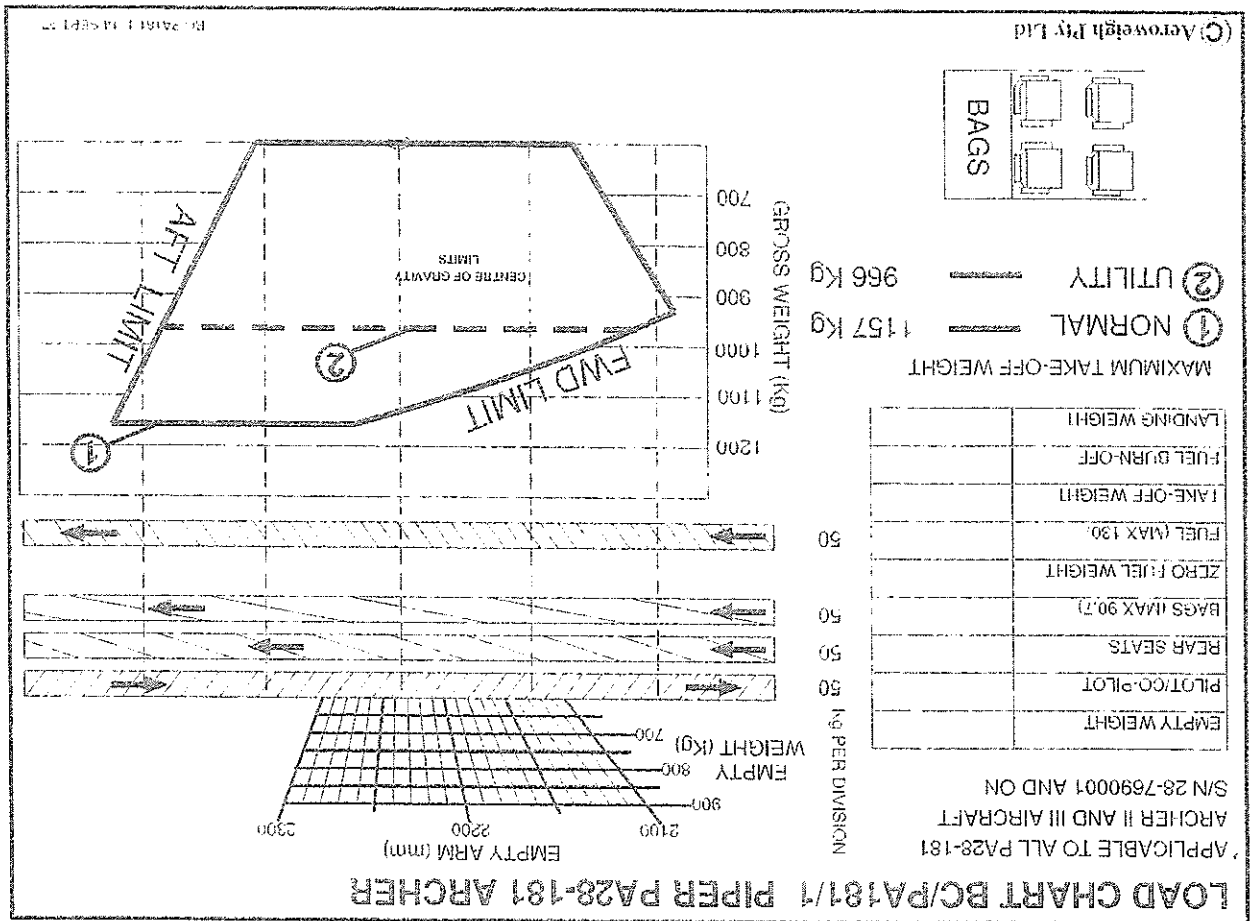
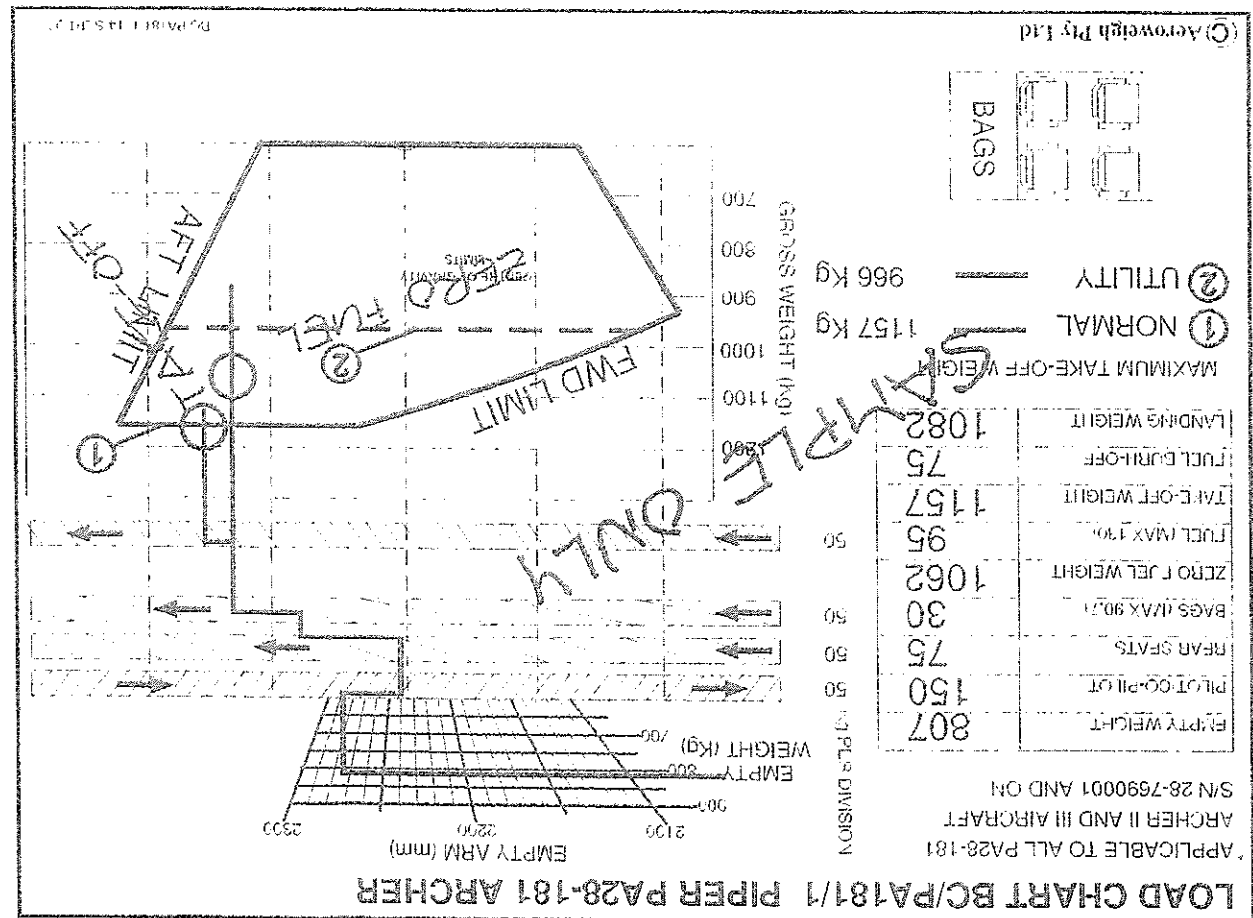
Serial Number
2881484

**INSTRUCTIONS FOR LOAD CHART BC/PA181/1
(14 SEP 1997)**

PIPER PA28-181 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*****



Arm Aft	Weight	Datum	Moment
(Lbs)	(Inches)	(In-Lbs)	
Basic Empty Weight			
Pilot and Front Passenger	80.5		
Passengers (Rear Seats)*	118.1		
Fuel (48 Gallon Maximum)	95.0		
Baggage (200 Lbs. Maximum)*	142.8		
Ramp Weight (2558 Lbs. Normal, 2138 Lbs. Utility Maximum)			
Fuel Allowance			
For Engine Start, Taxi and Run Up	-8	95.0	-760
Takeoff Weight (2550 Lbs. Normal, 2130 Lbs. Utility Maximum)			

Totals must be within approved weight and C.G. limits. It is the responsibility of the airplane owner and 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 rear passengers allowed.

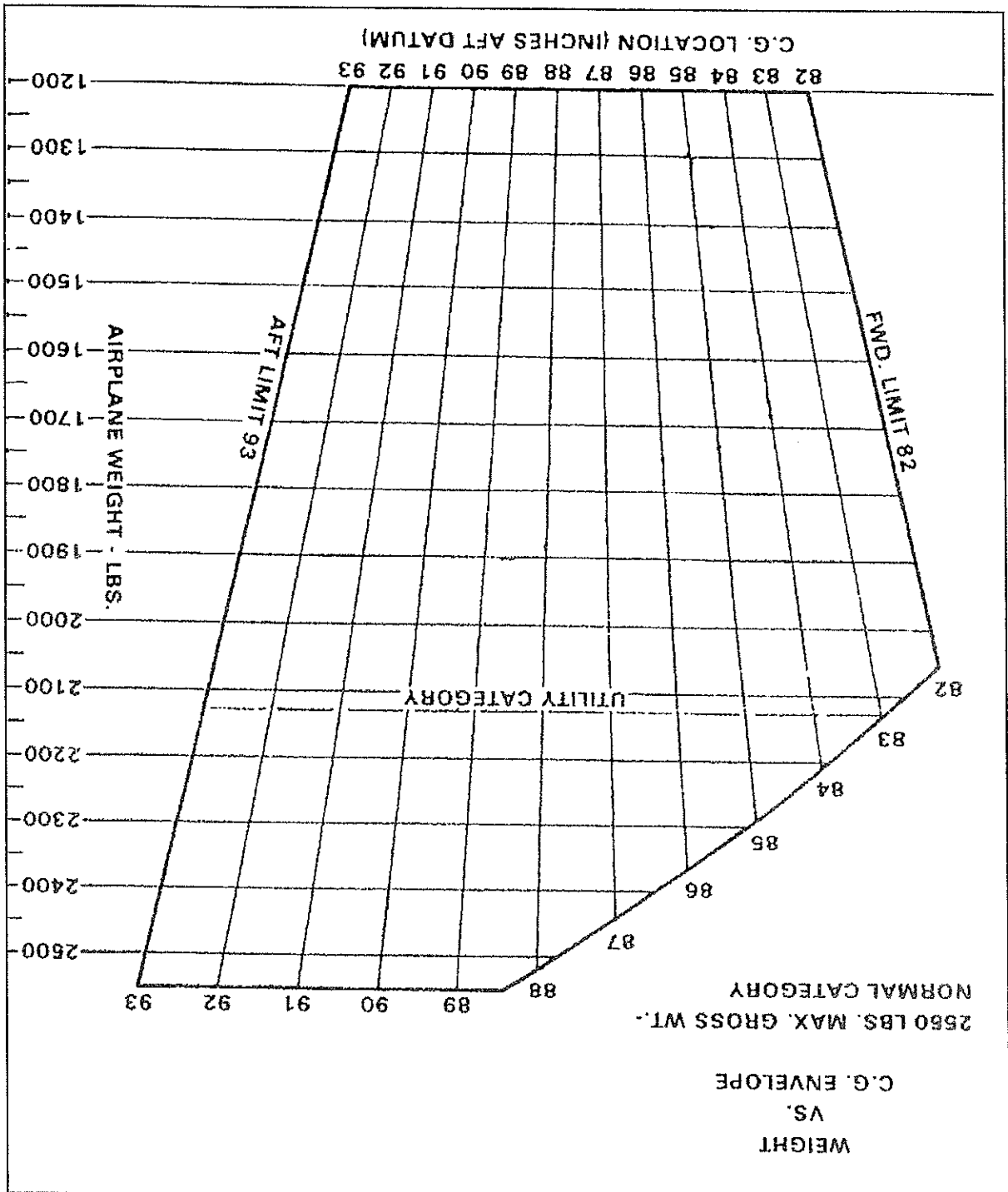
WEIGHT AND BALANCE LOADING FORM

Figure 6-11

SECTION 6

WEIGHT AND BALANCE

PA-28-181, ARCHER III



C.G. RANGE AND WEIGHT

Figure 6-15

FLAPS UP TAKEOFF PERFORMANCE

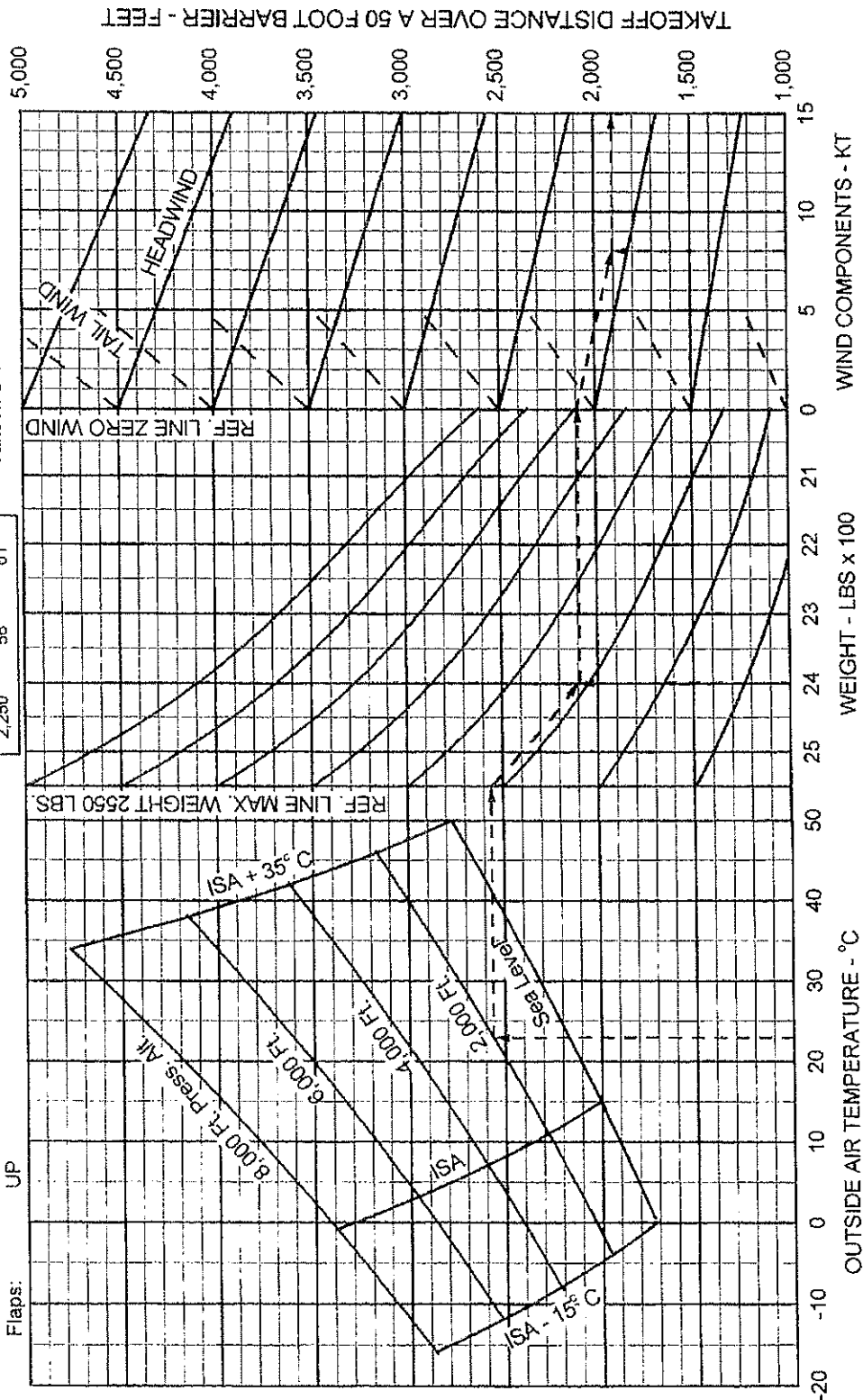
ASSOCIATED CONDITIONS:

Power: FULL THROTTLE BEFORE BRAKE RELEASE
Air Conditioner: OFF
Runway: PAVED, LEVEL, & DRY
Airspeed: REFER TO TABLE AT RIGHT
Propeller: SENSENICH 76EM8S14-0-62
Flaps: UP

EXAMPLE:

Depart Airport Pressure Alt: 2,000 Ft
Temperature: 23° C
Gross Weight: 2,400 Lb.
Headwind: 8 Kt.
Takeoff Distance: 1907 Ft.

TAKEOFF SPEEDS		KIAS
WT	LIFTOFF	50 FT
2,550	60	65
2,450	58	64
2,350	57	63
2,250	56	61



FLAPS UP TAKEOFF PERFORMANCE

Figure 5-7

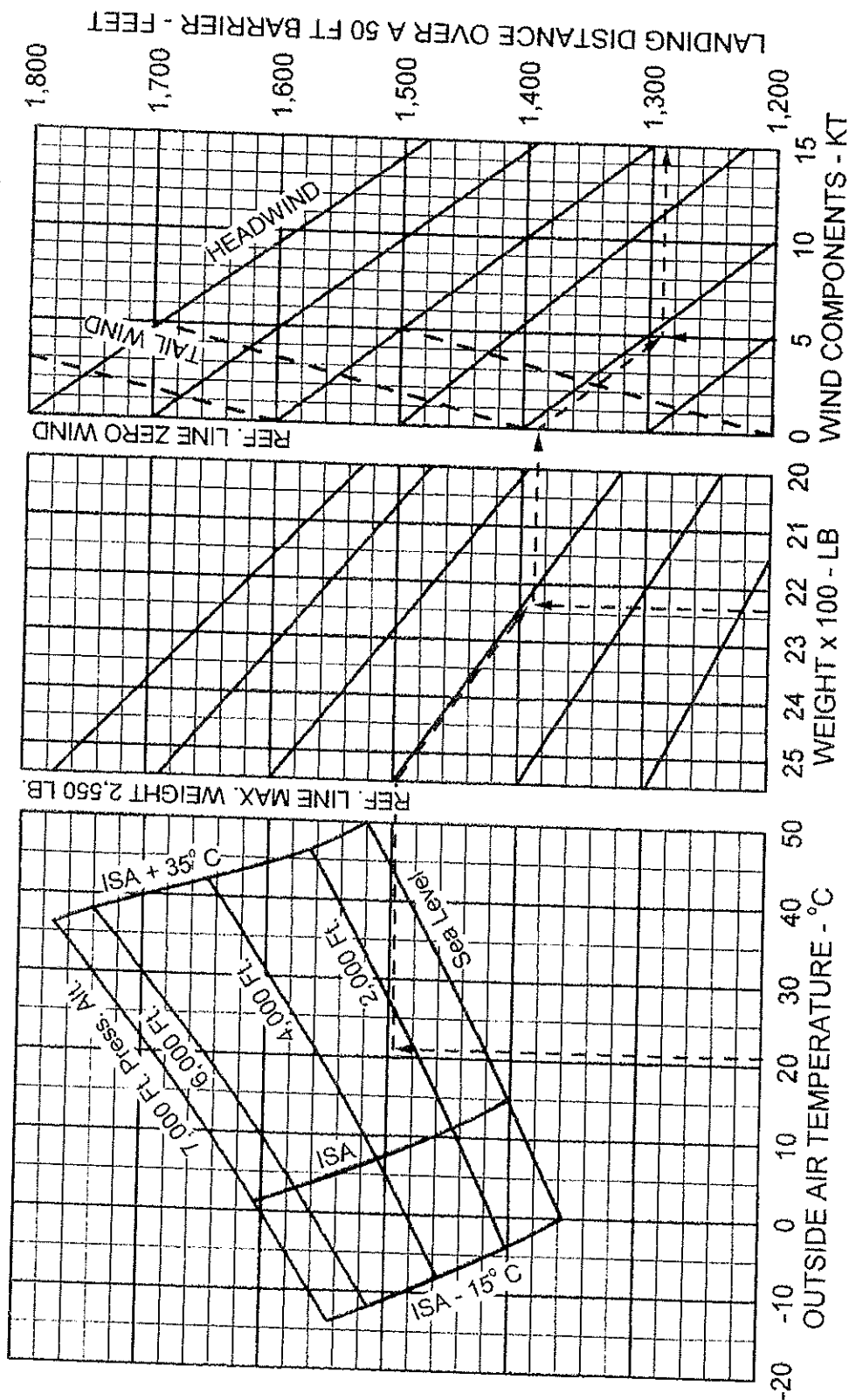
LANDING PERFORMANCE

ASSOCIATED CONDITIONS

Power Off Approach, 40° Flaps, 66 KIAS, Full Stall
Touchdown, Maximum Braking, Paved, Level, Dry Runway

EXAMPLE:

Airport Pressure Altitude: 2,500 FT.
O.A.T.: 21°C
Gross Weight: 2,240 LB.
Headwind: 5 KT.
Landing Distance: 1,290 FT.



LANDING PERFORMANCE

Figure 5-41

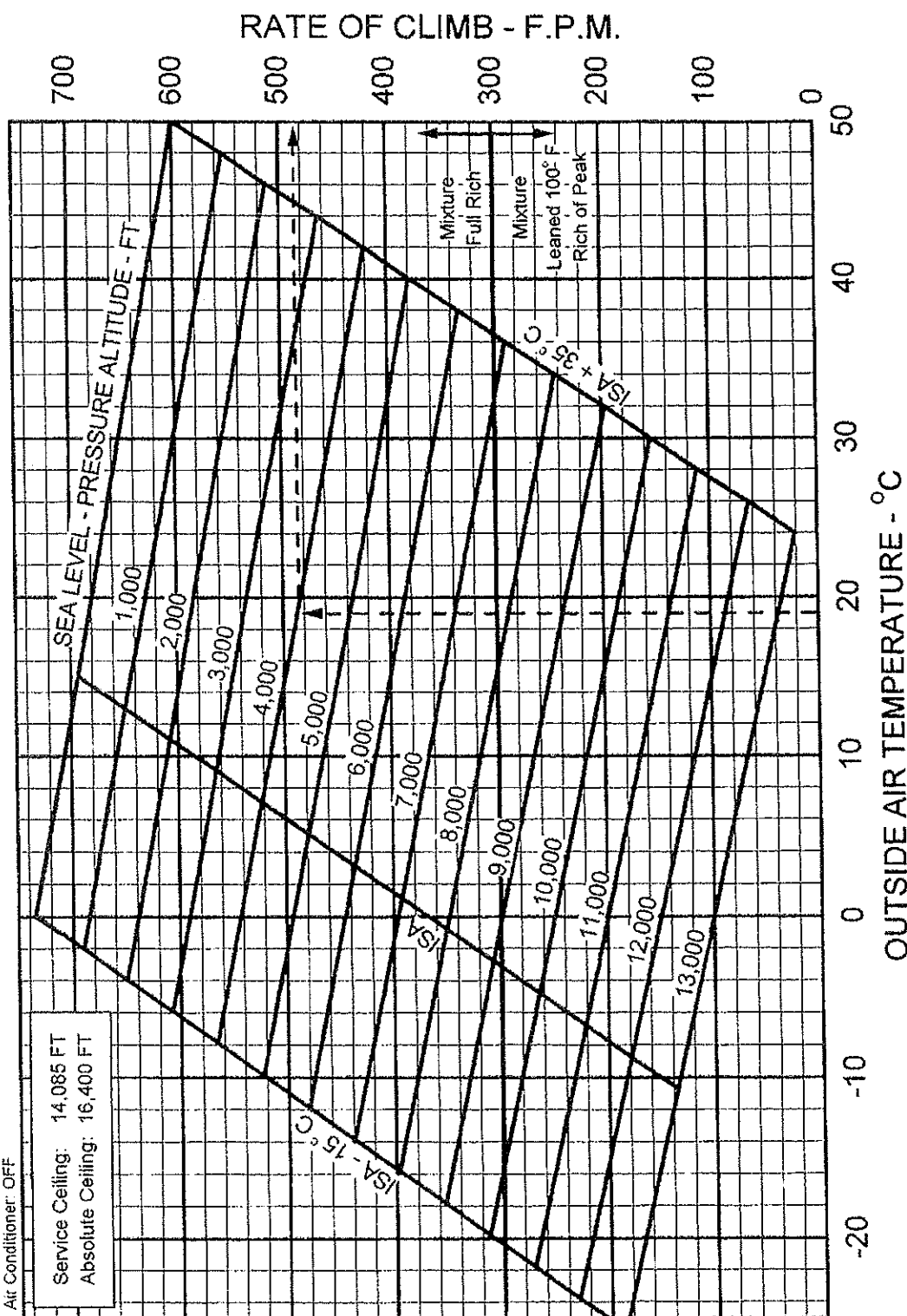
CLIMB PERFORMANCE

ASSOCIATED CONDITIONS:
Gross Weight: 2550 LBS.
Power: FULL THROTTLE
Airspeed: 76 KIAS
Flaps: UP
Air Conditioner: OFF

Service Ceiling: 14,085 FT
Absolute Ceiling: 16,400 FT

EXAMPLE:

Climb Pressure Alt.: 4000 Ft.
Temperature: 19° C
Rate of Climb: 487 Ft/Min.



CLIMB PERFORMANCE

Figure 5-15