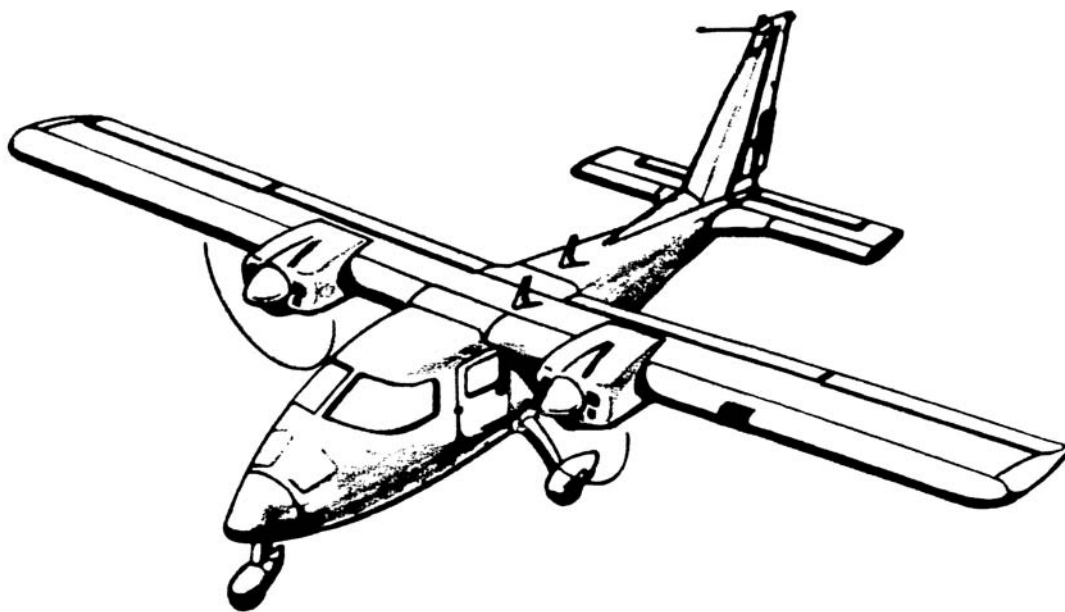


FLIGHT MANUAL



P68B VICTOR

R.A.I. Approved with letter No. 115.831/T dated 24th May 1974 for Sections I, II, III and for pages 4-1, 4-3, 4-5, 4-5bis of Section IV.

THIS DOCUMENT MUST BE CARRIED
IN THE AIRPLANE AT ALL TIMES.

Serial Number _____

Registration Number _____

Compiled by _____

Date _____

NOR10.707-21
VALID FOR AIRCRAFT UPTO TO SERIAL NUMBER 152

Reprinted by Vulcanair S.P.A. on 19th March 2007

RAI APPROVED FLIGHT MANUAL

PARTENAVIA S.p.A.
Naples - Italy

PARTENAVIA MODEL P68B VICTOR
U.S. TYPE CERTIFICATION NUMBER A31EU

AIRCRAFT SERIAL NUMBER _____

AIRCRAFT IDENTIFICATION _____

THIS DOCUMENT MUST BE CARRIED IN THE AIRPLANE AT ALL TIMES.
OBSERVANCE OF THE OPERATING LIMITATIONS HEREIN, IS REQUIRED BY LAW

R.A.I. Approved with letter No. 115.831/T
Only for parts from I to III and pages 4-1,
4-3, 4-5, 4-5 bis of part IV.

Date 24th May 1974

PARTENAVIA P68B VICTOR

LOG OF REVISIONS

Revised Material Indicated by black vertical line in right hand margin

REVISION NO.	PAGE NO.	DATE	Ref. APPROVAL	
			DOCUMENT NO.	DATED
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Note: Revision 4 is applicable for aircraft from S/N 65 onwards.

PARTENAVIA P68B VICTOR

TABLE OF CONTENTS

SECTION I – OPERATING LIMITATIONS

Engines	1-1
Engine Limits	1-1
Fuel	1-1
Oil	1-1
Propellers	1-1
Engine Instruments	1-1
Airspeed Limitations	1-2
Manoeuvres	1-2
Flight Load Factors	1-2
Maximum Weight	1-2
Centre of Gravity Limits	1-2
Placards (for aircraft from Serial Number 123 to 152)	1-3
Placards (for aircraft up to Serial Number 122)	1-3a

SECTION II – NORMAL PROCEDURES

Before Starting Engines	2-1
Starting Engines	2-1
Engine Run-up	2-1
Before Take-off	2-2
Take-off and Climb	2-2
Cruise	2-3
Before Landing	2-3
After Landing	2-3
Securing Aircraft	2-3

SECTION III – EMERGENCY PROCEDURES – EMERGENCY CHECK LIST

Engine Inoperative Procedure	3-1
Engine Failure during Take-off – Speed below 62 Kts. IAS	3-1
Engine Failure during Take-off – Speed above 62 Kts. IAS, Runway still available for landing..	3-1
Engine Failure during Take-off – Speed above 62 Kts. IAS, and no Runway available for landing	3-1
Procedure for best performance after engine failure during cruise flight	3-1
Engine Inoperative Landing	3-1

For aircraft from Serial Number 123 to 152

Engine Inoperative Go Around	3-2
Engine Restart in Flight	3-2
Fuel Cross-feed Procedure	3-2
Fuel System Independence	3-2
Flight Instruments - Emergency Procedure	3-2
Vacuum System	3-2
Static Alternate Air Door Actuation	3-2

For aircraft up to Serial Number 122

Engine Inoperative Go Around	3-2a
Engine Restart in Flight	3-2a
Fuel Cross-feed Procedure	3-2a
Fuel System Independence	3-2a
Flight Instruments - Emergency Procedure	3-2a
Vacuum System	3-2a
Static Alternate Air Door Actuation	3-2a

Revision 9

DATE: 26th March 2007

Page II

PARTENAVIA P68B VICTOR

SECTION III – EMERGENCY PROCEDURES – EMERGENCY CHECK LIST (Cont.)

Electrical System - Emergency Procedure	3-3
Alternators	3-3
Speaker, Amplifier Failure	3-3
Spins	3-3

SECTION IV – PERFORMANCE

Airspeed Calibration	4-1
Density and Pressure Altitude	4-2
Stall Speed – Power Off	4-3
True Airspeed Vs. Density Altitude	4-4
Rate of Climb (Two Engines Operating)	4-5
Rate of Climb (One Engine Operating)	4-5 bis
Take-off Run and Take-off Distance over 50 foot Obstacle	4-6
Take-off and Landing Distance – Wind Correction	4-6 bis
Landing Run and Landing Distance over 50 foot Obstacle	4-7
Payload Vs. Range 75% Rated Power	4-8
Payload Vs. Range 65% Rated Power	4-9
Payload Vs. Range 55% Rated Power	4-10

WEIGHT AND BALANCE REPORT	1 to 10
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SUPPLEMENT LIST

_____	A « INSTALLATION OF PHOTOGRAMMETRIC HATCH »
_____	B « DE-ICE BOOT SYSTEM AND PROPELLER ELECTRIC ANTI-ICE SYSTEM »
_____	C « PARACHUTIST VERSION »
_____	D « EDO-AIRE MITCHELL CENTURY III AUTOPILOT AND ELECTRIC TRIM MODEL AK511»
_____	E « HEATING, VENTILATING AND DEFROSTING SYSTEM – JANITROL MODEL B-2030 COMBUSTION HEATER»
_____	F « RESERVED FOR OBSERVER VERSION »
_____	G « RESERVED FOR THREE-BLADE PROPELLER VERSION »
_____	H « INSTALLATION OF OECM AP-3 AUTOPILOT »
_____	L « OPTIONAL AUXILIARY FUEL WING TANKS »
_____	M « OXYGEN EQUIPMENT (RESERVED SPORTAVIA) »
_____	N « INSTALLATION OF WING TIP PODS »
_____	P « AIRBORNE-KLEBER WING/EMPENNAGE PNEUMATIC DE-ICING SYSTEM AND GOODRICH ELECTROTHERMAL PROPELLER DE-ICING»

PARTENAVIA P68B VICTOR

SECTION I – OPERATING LIMITATIONS

ENGINES: Two Lycoming IO-360-A1B or
Two Lycoming IO-360-A1B6

ENGINE LIMITS: For all operations 2700 RPM, 200 HP

FUEL: 100/130 Minimum Grade Aviation Gasoline 103 U.S. Gallons (392 Litres)
Usable Capacity: 51.5 U.S. Gallons (196 Litres) each tank
Unusable Fuel 2.5 U.S. Gallons (9 Litres) each tank
Avoid Rapid Taxi Turns before Take-off or Excessive Nose-up Attitude with $\frac{1}{4}$ fuel or less in each tank

OIL: Total Oil Capacity: 8 Quarts per Engine
Usable Oil: 6 Quarts per Engine

PROPELLERS: Two Hartzell constant speed, full feathering, two blade propellers.
Model HC-C2YK-2C () F/FC7666A-4, 72 inch diameter.
Blade angle range at 30 inch station.

Low 14.2 ÷ 0.2

Feather 81.2 ÷ 0.3

Avoid continuous operation between 2100 RPM to 2350 RPM (for IO-360-A1B only)

ENGINE INSTRUMENTS:

1. Engine Gauge Unit

a. Oil Temperature:

Green Arc (Normal)

75 °F to 245 °F

Red Radial (Maximum)

245 °F

b. Oil Pressure:

Red Radial (Minimum for Idle)

25 PSI

Green Arc

60 PSI to 90 PSI

Red Radial (Maximum)

90 PSI

c. Cylinder Head Temperature:

Green Arc (Normal)

200 °F to 475 °F

Red Radial (Maximum)

475 °F

PARTENAVIA P68B VICTOR

SECTION I – OPERATING LIMITATIONS

2. Tachometer

Green Arc (Normal)

550 RPM to 2700 RPM

Red Arc

2100 RPM to 2350 RPM
(for IO-360-A1B only)

Red Radial (Maximum)

2700 RPM

3. Fuel Pressure (Fuel Flow Gauge)

Red Radial (Maximum)

12 PSI

4. Suction

Green Arc

4.5 to 5.2 in. Hg.

AIRSPEED LIMITATIONS: (*)

Never Exceed (Red Radial)

193 Kts. CAS

Caution Range (Yellow Arc)

153 Kts. CAS to 193 Kts. CAS

Normal Operating Range (Green Arc)

64 Kts. CAS to 153 Kts. CAS

Flap Operating Range (White Arc)

56 Kts. CAS to 99 Kts. CAS

Maximum Flap Extension Speed:

0° to 17°

152 Kts. CAS

17° to 30°

138 Kts. CAS

30° to 35°

99 Kts. CAS

Best Single Engine Rate of Climb (Blue Radial)

89 Kts. CAS

Manoeuvring Speed

125 Kts. CAS

Maximum Structural Cruising Speed

153 Kts. CAS

Minimum Single Engine Control Speed (Red Radial)

60 Kts. CAS

Maximum demonstrated crosswind velocity for Take-off and Landing

25 Kts.

(*) A.S.I. Colour Markings based on IAS

MANOEUVRES: This is a normal category airplane. Aerobatic manoeuvres including spins prohibited.

Full deflection of the controls must not be accomplished above the Manoeuvring Speed (125 Kts. CAS)

FLIGHT LOAD FACTORS : At Maximum Gross Weight of 4321 pounds:

Manoeuvre:	Flaps 0°	Positive 3.8 g;	Negative 1.52 g
	Flaps 35°	Positive 2.0 g;	Negative 0.80 g

MAXIMUM TAKE-OFF WEIGHT: 4321 Pounds

MAXIMUM LANDING WEIGHT: 4100 Pounds

CENTRE OF GRAVITY LIMITS:

Aft Limit: 20.7 inches Aft of Datum (34% MAC) at all weights

Forward Limit: 12.8 inches Aft of Datum (21% MAC) at 4321 Pounds

10.2 inches Aft of Datum (16.8% MAC) at 3527 Pounds or less with straight line variation between these points. Datum location is at wing leading edge.

RAI Approval No.: 144.750/T dated 2nd January 1978

Revision 7

PARTENAVIA P68B VICTOR

SECTION I – OPERATING LIMITATIONS FOR AIRCRAFT FROM SERIAL NUMBER 123 TO 152

PLACARDS:

1. On Emergency Window:

“EMERGENCY EXIT” “1-PULL LOWER HANDLE 2- SLIDE UPPER LEVER RIGHT
3- PUSH WINDOW OUT”

2. On Fuel Selector Valves:

	RIGHT TANK	51.5 GALS. (196 LITRES)		LEFT TANK	51.5 GALS. (196 LITRES)
LEFT TANK 51.5 GALS.	LEFT ENGINE	ENG. SHUT OFF	ENG. SHUT OFF	RIGHT ENGINE	RIGHT TANK 51.5 GALS.

3. Between Fuel Selectors:

“TAKE-OFF AND LAND WITH AUXILIARY FUEL PUMPS ON”

4. On Front Panel Left Side:

a. “OPERATIONAL LIMITS

This airplane must be operated as a NORMAL Category Airplane in compliance with the Operating limitations stated in the form of placards, markings and manuals.

No Aerobatic Manoeuvres, including spins approved.

Minimum Single Engine Control Speed 62 KIAS

Manoeuvring Speed: 129 KIAS

Demonstrated Crosswind Velocity for Take-off and Landing: 25 Knots

One Engine Inoperative Stall: Maximum Altitude Loss: 600 feet.

Maximum Pitch Angle: 30°. ”

b. “WARNING

- Do Not Lower Flaps with Cargo Door Open

- Expect Large Trim Change with Flap

- Maximum Flap Extension Speed:

0° - 17° : 157 KIAS

17° - 30° : 143 KIAS

30° - 35° : 101 KIAS “

c. “PARKING BRAKE

To apply brakes, depress rudder pedals and pull knob then release pedal pressure.

To release brakes, push knob.”

5. On Instrument Panel:

a. “Stall Warning Inoperative with Battery and Alternators OFF”

b. “ VFR”, “IFR”, “DAY” or “NIGHT” (as applicable)

Revision 9

DATE: 26th March 2007

Page 1 - 3

PARTENAVIA P68B VICTOR

SECTION I – OPERATING LIMITATIONS FOR AIRCRAFT UP TO SERIAL NUMBER 122

PLACARDS:

1. On Emergency Window:

“EMERGENCY EXIT” - “ROTATE HANDLE – PUSH WINDOW OPEN”

2. On Fuel Selector Valves:

- a. “TANK OFF”
- b. “ON 51.5 GASLS”
- c. “ENG. SHUT OFF”
- d. “CROSSFEED”
- e. “TANK OFF”
- f. “ON 51.5 GALS”
- g. “ENG. SHUT OFF”
- h. “CROSSFEED”

3. Between Fuel Selectors

“CROSSFEED” – “RIGHT TANK TO LEFT ENGINE” – “RIGHT TANK TO BOTH ENGINES” –
“LEFT TANK TO RIGHT ENGINE” – “LEFT TANK TO BOTH ENGINES”-
“TAKE-OFF AND LAND WITH AUXILIARY FUEL PUMPS ON”

4. On Front Panel Left Side:

a. “OPERATIONAL LIMITS

This airplane must be operated as a NORMAL Category Airplane in compliance with the Operating limitations stated in the form of placards, markings and manuals.

No Aerobatic Manoeuvres, including spins approved.

Minimum Single Engine Control Speed 62 KIAS

Manoeuvring Speed: 129 KIAS

Demonstrated Crosswind Velocity for Take-off and Landing: 25 Knots

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- Do Not Lower Flaps with Cargo Door Open
- Expect Large Trim Change with Flap
- Maximum Flap Extension Speed:

0° - 17° : 157 KIAS

17° - 30° : 143 KIAS

30° - 35° : 101 KIAS “

c. “PARKING BRAKE

To apply brakes, depress rudder pedals, then pull knob and rotate clockwise. To release brakes, rotate knob counter-clockwise and release; then press and release rudder pedals.

5. On Instrument Panel:

- a. “The Stall Warning Inoperative when the Battery switch is in the OFF position”
- b. “ VFR”, “IFR”, “DAY” or “NIGHT” (as applicable)

PARTENAVIA P68B VICTOR

SECTION I – OPERATING LIMITATIONS

- c. "Calibration Placard of the Magnetic Compass"
- d. "WARNING – Avoid rapid taxi turns before Take-off or Excessive Nose-up Attitude with 1/4 fuel or less in each tank."
- e. "WARNING - When flying in high humidity environment and at freezing temperature, open the engine alternate air doors."
- f. "Flight into known icing conditions prohibited."

6. On Electric Panel:

- a. "Before switching ON the BACK-UP REGULATOR switch OFF all electrical loads."
- b. "When starting on external power, select OFF both alternators and battery."

7. On Aft Cabin Walls:

"Maximum baggage capacity 400 pounds – Maximum distributed load on cabin and cargo floor 200 lb/sq. ft.."

8. On Engine Control Pedestal:

- a. "OPEN - THROTTLE - CLOSED"
- b. "INCR. - PROPELLER - RPM - DECR. - FEATHER "
- c. "RICH - MIXTURE - LEAN - IDLE-CUT-OFF"
- d. "NOSE DOWN - NOSE UP" (Near Stabilator Trim Control)
- e. "L-O-R" (Near Rudder Trim Control)
- f. "L-NOSE-R" (Near Rudder Trim Control)

9. On the Door:

"Full Locked Position"

10. Near each Fuel Filler Cap:

"Fuel Tank Capacity 54 U.S. Gallons (205 Litres) – 100/130 Minimum Grade Aviation Gasoline"

11. Near the Oil Filler Cap:

"Oil – 8 Qts. Capacity"

SECTION II – NORMAL PROCEDURES

A. PRE-FLIGHT CHECKS

a. External Inspection

- a.1 Check for general serviceability and cleanliness of all external surfaces, intakes and aerals. Accumulations of frost and snow must be adequately removed.
- a.2 Check security of access panels and fuel tank caps.
- a.3 Inspect de-icer boots (if fitted) for damage.
- a.4 Examine oleo gear for obvious pressure faults and inspect tyres for creeping and condition. Check the brake hoses for general serviceability and look for signs of fluid leakage in this area.
- a.5 See that the wheels are correctly chocked and all external locks and covers are removed and stowed.

CAUTION

If fluid defrosting preparations are used to clear ice and snow from wing and tail surfaces, ensure that the solutions do not contaminate control surface ballraces as this can lead to seizure.

b. Internal Inspection

Check Security of Seats and Safety Belts.

SECTION II – NORMAL PROCEDURES

B. BEFORE STARTING ENGINES

1. Pre-flight Inspection - COMPLETE
2. Cabin Door Safety - LATCHED
3. Seats - ADJUSTED
4. Seat Belts - FASTENED
5. Parking Brake - SET
6. Circuit Breakers - ON
7. Radios - OFF
8. Alternate Air - OFF
9. Battery and Alternators - ON
10. Fuel Selectors - ON

C. STARTING ENGINES (ON AIRCRAFT BATTERY)

1. Mixture Controls - IDLE CUT-OFF
2. Throttle Controls - OPEN ½ INCH
3. Propeller Controls - FORWARD
4. Master Switch - ON
5. Engine to be Started
- 5.1 Ignition Switch - LEFT MAGNETO ON
- 5.2 Auxiliary Fuel Pumps - ON
- 5.3 Mixture Controls – Move to RICH position until a fuel flow is indicated and stabilised, then move to IDLE CUT-OFF
- 5.4 Propeller - CLEAR
- 5.5 Starter - ENGAGE
- 5.6 Mixture Control - Advance as Engine Starts
- 5.7 Ignition Switches - BOTH ON
- 5.8 Oil Pressure - Check to see that the oil pressure rises within thirty seconds, except in very cold weather when it may take somewhat longer. If the oil pressure does not show an indication, shut down the engine and have it checked.
- 5.9 Auxiliary Fuel Pumps - OFF. Check Fuel Pressure
6. Repeat steps 5.1 through 5.9 with the other Engine

NOTE: When starting on External Power leave Battery and Alternators OFF. After disconnecting the External Power, switch ON the battery first and then the Alternators.

D. ENGINE RUN-UP

1. Parking Brake – SET
2. Fuel Selectors – ON SAME SIDE TANK
3. Mixture Controls – FORWARD
4. Propeller Controls - FORWARD
5. Alternate Air - OFF
6. Both Engines at 1200 RPM
7. Left Engine
- 7.1 Throttle Control – FORWARD TO 1500 RPM

SECTION II – NORMAL PROCEDURES

- 7.2 Alternator Output - CHECK
- 7.3 Stand by Voltage Regulator - CHECK
- 7.4 Propeller Control – Check the feather position by bringing the propeller control fully back and then to the full forward position. Do not allow more than a 500 RPM drop during the feathering check
- 7.5 Mixture Control - CHECK
- 7.6 Throttle Control – FORWARD TO 2100 RPM
- 7.7 Alternate Air Control – ON then OFF again
- 7.8 Magnetos – CHECK
 - Normal drop – 100 RPM
 - Maximum drop – 175 RPM
 - Maximum Differential Drop – 50 RPM
- 7.9 Throttles – 1200 RPM
- 8. Repeat steps 7.1 through 7.9 with the Right Engine

E. BEFORE TAKE-OFF

- 1. Fuel Selectors – ON SAME SIDE TANK
- 2. Alternators – ON
- 3. Engine Gauges – IN THE GREEN
- 4. Vacuum Gauge – 4.5 to 5.2 In. Hg.
- 5. Altimeter – SET
- 6. Trim Tabs – SET
- 7. Clock – WOUND AND SET
- 8. Mixtures – FORWARD
- 9. Propellers – FORWARD
- 10. Quadrant Friction – ADJUSTED
- 11. Alternate Air – OFF
- 12. Wing Flaps – SET FOR TAKE-OFF
- 13. Seat Belts – FASTENED
- 14. Door – LOCKED
- 15. Controls – FREE, FULL TRAVEL
- 16. Auxiliary Fuel Pumps – ON
- 17. Pitot Heat – AS REQUIRED

F. TAKE-OFF AND CLIMB

- 1. Throttles – FORWARD
- 2. Raise Nose Wheel at 62 Kts. IAS (Minimum Control Speed)
- 3. Accelerate to 90 Kts. IAS (Best Rate of Climb Speed)
- 4. Retract Flaps at Safe Altitude
- 5. Maximum Climb Power: 2700 RPM – FULL THROTTLE
- 6. Auxiliary Fuel Pumps – OFF

SECTION II – NORMAL PROCEDURES

G. CRUISE

1. Throttles – SET
2. Engine RPM – SET
3. Mixtures – SET
4. Entering I.M.C.: Watch for possible need of Alternate Air.

H. BEFORE LANDING

1. Auxiliary Fuel Pumps – ON
2. Mixtures – FULL RICH
3. Propellers - FORWARD
4. Alternate Air – OFF
5. Flaps – DOWN 15° below 157 Knots IAS
6. Flaps – DOWN 35° below 101 Knots IAS
7. Minimum Control Speed - 62 Knots IAS

I. AFTER LANDING

1. Auxiliary Fuel Pumps – OFF (During Landing Run)
2. Wing Flaps – UP
3. Unnecessary Radios - OFF

J. SECURING AIRCRAFT

1. Parking Brake - SET
2. Radios - OFF
3. Throttles - IDLE
4. Propellers – FORWARD
5. Mixtures – IDLE CUT-OFF
6. Breaker Switches - OFF
7. Magneto Switches – OFF
8. Battery and Alternators - OFF

PARTENAVIA P68B VICTOR

SECTION III – EMERGENCY PROCEDURES – EMERGENCY CHECK LIST

1. ENGINE INOPERATIVE PROCEDURE

A. ENGINE FAILURE DURING TAKE-OFF – SPEED BELOW 62 KNOTS IAS

1. Throttles – CLOSE IMMEDIATELY
2. Brakes – AS REQUIRED

B. ENGINE FAILURE DURING TAKE-OFF – SPEED ABOVE 62 KNOTS IAS RUNWAY STILL AVAILABLE FOR LANDING

1. Cut Power
2. Maintaining Direction, Land Directly

C. ENGINE FAILURE DURING TAKE-OFF – SPEED ABOVE 62 KNOTS IAS AND NO RUNWAY AVAILABLE FOR LANDING

1. Maintain enough speed margin above V_{MC} = 62 Knots IAS and maintain heading with co-ordinated use of Rudder and Ailerons
2. Both Engines: THROTTLES FULL FORWARD
3. Flaps Retracted (If extended)
4. Trim Tabs: ADJUST
5. Inoperative Engine:
 - 5.1 Throttle – CLOSE
 - 5.2 Propeller – FEATHER
 - 5.3 Mixture – IDLE CUT-OFF
 - 5.4 Auxiliary Fuel Pump – OFF
 - 5.5 Magnetos – OFF
 - 5.6 Fuel Selector – ENG. SHUT OFF
 - 5.7 Alternator - OFF
6. Climb at Best Single Engine Climb Speed 88 Knots IAS
7. Land as soon as practicable

D. PROCEDURE FOR BEST PERFORMANCE AFTER ENGINE FAILURE DURING CRUISE FLIGHT

1. Inoperative Engine – SECURE
2. Operative Engine – ADJUST
3. Trim Tab - ADJUST
4. Fuel Valve Positions: Inoperative Engine – ENG. SHUT OFF
Operative Engine – ON SAME SIDE TANK. Also see Cross-feed Procedure
5. Electrical Load – DECREASE TO MINIMUM REQUIRED
6. As soon as practicable – LAND

E. ENGINE INOPERATIVE LANDING

1. Operative Engine:
 - 1.1 Fuel Selector – ON SAME SIDE TANK
 - 1.2 Mixture – FULL RICH
 - 1.3 Propeller - FORWARD

PARTENAVIA P68B VICTOR

SECTION III – EMERGENCY PROCEDURES – EMERGENCY CHECK LIST FOR AIRCRAFT FROM SERIAL NUMBER 123 TO 152

- 1.4 Auxiliary Fuel Pumps - ON
2. Approach at – 88 Knots IAS
3. Wing Flaps – DOWN when landing is assured

F. ENGINE INOPERATIVE GO AROUND

1. Throttle – FULL FORWARD
2. Flaps - UP (If extended)
3. Climb at Best Single Engine Climb Speed – 88 Knots IAS

G. ENGINE RESTART IN FLIGHT

1. Fuel Selectors – ON
2. Magneto Switches - ON
3. Throttle – FORWARD APPROXIMATELY ONE INCH
4. Propeller – OUT OF FEATHER POSITION
5. Starter . PRESS AND HOLD UNTIL ENGINE IS WINDMILLING
6. Mixture – FULL RICH
7. Alternator - ON

H. FUEL CROSSFEED PROCEDURE

1. Right Tank to Left Engine (Right Engine Shut Off): LH Fuel Selector - RIGHT TANK
RH Fuel Selector - ENG. SHUT OFF
2. Right Tank to Both Engines: RH Fuel Selector - RIGHT TANK
LH Fuel Selector - RIGHT TANK
3. Left Tank to Right Engine: (Left Engine Shut Off): RH Fuel Selector - LEFT TANK
LH Fuel Selector - ENG. SHUT OFF
4. Left Tank to Both Engines: RH Fuel Selector - LEFT TANK
LH Fuel Selector - LEFT TANK

I. FUEL SYSTEM INDEPENDENCE

To obtain complete independence between the Right Side Fuel System and the Left Side Fuel System, position each Fuel Selector ON.

II. FLIGHT INSTRUMENTS – EMERGENCY PROCEDURE

A. VACUUM SYSTEM (Attitude and Directional Gyros)

1. Red Indicator on Gauge will show Failure
2. Automatic Valve will select Operative Source

B. STATIC ALTERNATE AIR DOOR ACTUATION

In the event of ice, foreign matter or other causes obstructing the external static doors, actuate the Alternate Air Control located on the left hand side of the Engine Pedestal.

The correction on the Altimeter and the Air Speed Indicator is contained in – 30 ft. and – 4 Kts.

PARTENAVIA P68B VICTOR

SECTION III – EMERGENCY PROCEDURES – EMERGENCY CHECK LIST FOR AIRCRAFT UP TO SERIAL NUMBER 122

- 1.4 Auxiliary Fuel Pumps - ON
2. Approach at – 88 Knots IAS
3. Wing Flaps – DOWN when landing is assured

F. ENGINE INOPERATIVE GO AROUND

1. Throttle – FULL FORWARD
2. Flaps - UP (If extended)
3. Climb at Best Single Engine Climb Speed – 88 Knots IAS

G. ENGINE RESTART IN FLIGHT

1. Fuel Selectors – ON
2. Magneto Switches – ON
3. Throttle – FORWARD APPROXIMATELY ONE INCH
4. Propeller – OUT OF FEATHER POSITION
5. Starter . PRESS AND HOLD UNTIL ENGINE IS WINDMILLING
6. Mixture – FULL RICH
7. Alternator – ON

H. FUEL CROSSFEED PROCEDURE

- | | |
|---|----------------------------------|
| 1. Right Tank to Left Engine (Right Engine Shut Off): | LH Fuel Selector - TANK OFF |
| | RH Fuel Selector - ENG. SHUT OFF |
| 2. Right Tank to Both Engines: | RH Fuel Selector - CROSSFEED |
| | LH Fuel Selector - TANK OFF |
| 3. Left Tank to Right Engine: (Left Engine Shut Off): | RH Fuel Selector - TANK OFF |
| | LH Fuel Selector - ENG. SHUT OFF |
| 4. Left Tank to Both Engines: | RH Fuel Selector - TANK OFF |
| | LH Fuel Selector - CROSSFEED |

I. FUEL SYSTEM INDEPENDENCE

To obtain complete independence between the Right Side Fuel System and the Left Side Fuel System, position each Fuel Selectors ON.

II. FLIGHT INSTRUMENTS – EMERGENCY PROCEDURE

A. VACUUM SYSTEM (Attitude and Directional Gyros)

1. Red Indicator on Gauge will show Failure
2. Automatic Valve will select Operative Source

B. STATIC ALTERNATE AIR DOOR ACTUATION

In the event of ice, foreign matter or other causes obstructing the external static doors, actuate the Alternate Air Control located on the left hand side of the Engine Pedestal.

The correction on the Altimeter and the Air Speed Indicator is contained in – 30 ft. and – 4 Kts.

SECTION III – EMERGENCY PROCEDURES – EMERGENCY CHECK LIST

III. ELECTRICAL SYSTEM – EMERGENCY PROCEDURES:

1. ALTERNATORS

A. ONE ALTERNATOR EMERGENCY LIGHT COMES ON :

1. Check the Alternator Output
2. If the Alternator's Output is Normal, disregard the light
3. If Output is Zero, Insufficient or Fluctuating, Switch Off the Alternator

B. BOTH ALTERNATOR EMERGENCY LIGHTS COME ON:

1. Reduce Electric Load to a Minimum
2. Switch to Stand-by Regulator
3. If Emergency Lights go off, reconnect electric loads
4. If lights do not go off, switch both Alternators off and prepare to terminate the flight

WARNING

In case of an abnormally high load, it could occur that when switching back on the electrical loads, the failure lights may come on again. In this case leave the abnormal load OFF and repeat the manoeuvre from steps B1 to B3

IV. SPINS

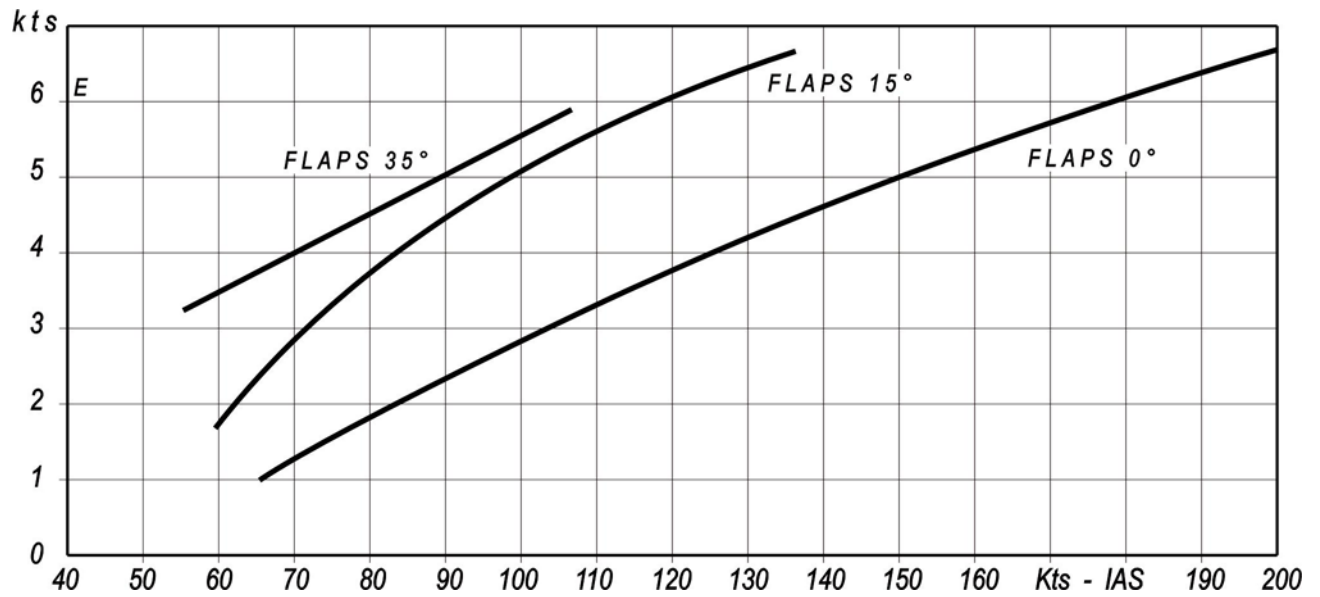
All spins are prohibited. However, in the event an unintentional spin is encountered, recovery can be accomplished by immediately using the following procedures:

- a. Retard both throttles to the idle position
- b. Apply full rudder in the opposite direction of the spin.
- c. Push control wheel forward.
- d. Maintain controls in these positions until the spin stops, then neutralise rudder.
- e. Recover from dive with smooth back pressure on the control wheel. No abrupt control movement should be used during recovery from the dive, as the manoeuvring speed and positive limit factor may be exceeded.

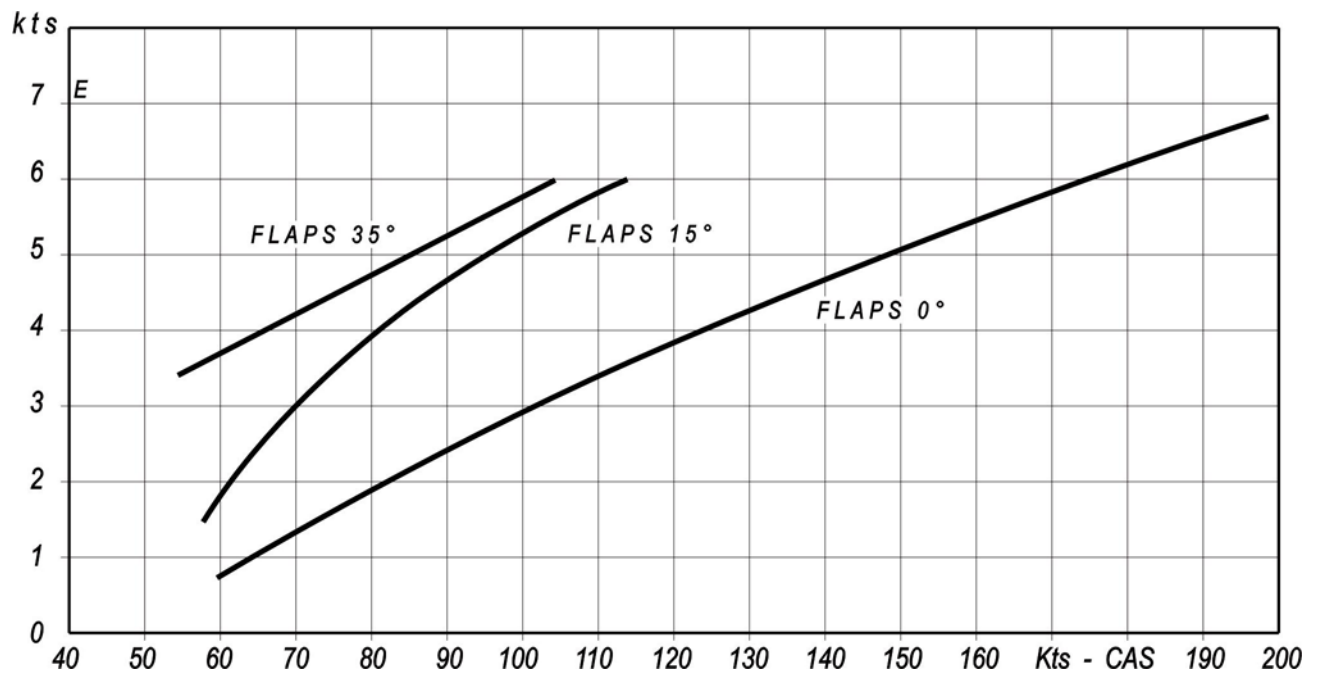
PARTENAVIA P68B VICTOR

SECTION IV – PERFORMANCE

TO OBTAIN CAS FROM IAS SUBTRACT “E” FROM IAS
 $CAS = IAS - “E”$



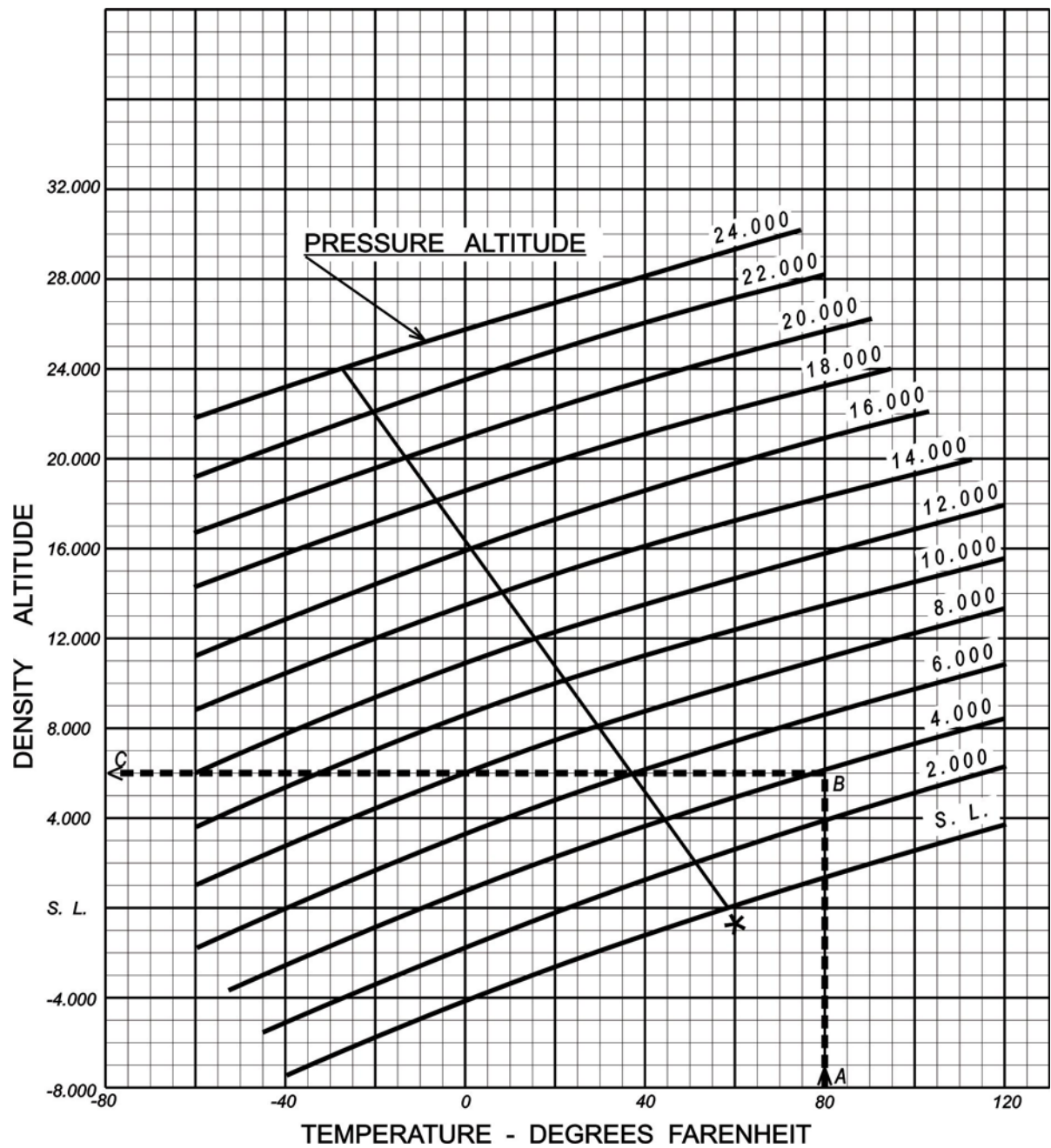
TO OBTAIN IAS FROM CAS ADD “E” TO CAS
 $IAS = CAS + “E”$



PARTENAVIA P68B VICTOR

SECTION IV – PERFORMANCE

DENSITY AND PRESSURE ALTITUDE CONVERSION



EXAMPLE

- a. Temperature - 80 °F
- b. Pressure Altitude - 4000 ft.
- c. Density Altitude

* Standard Temperature

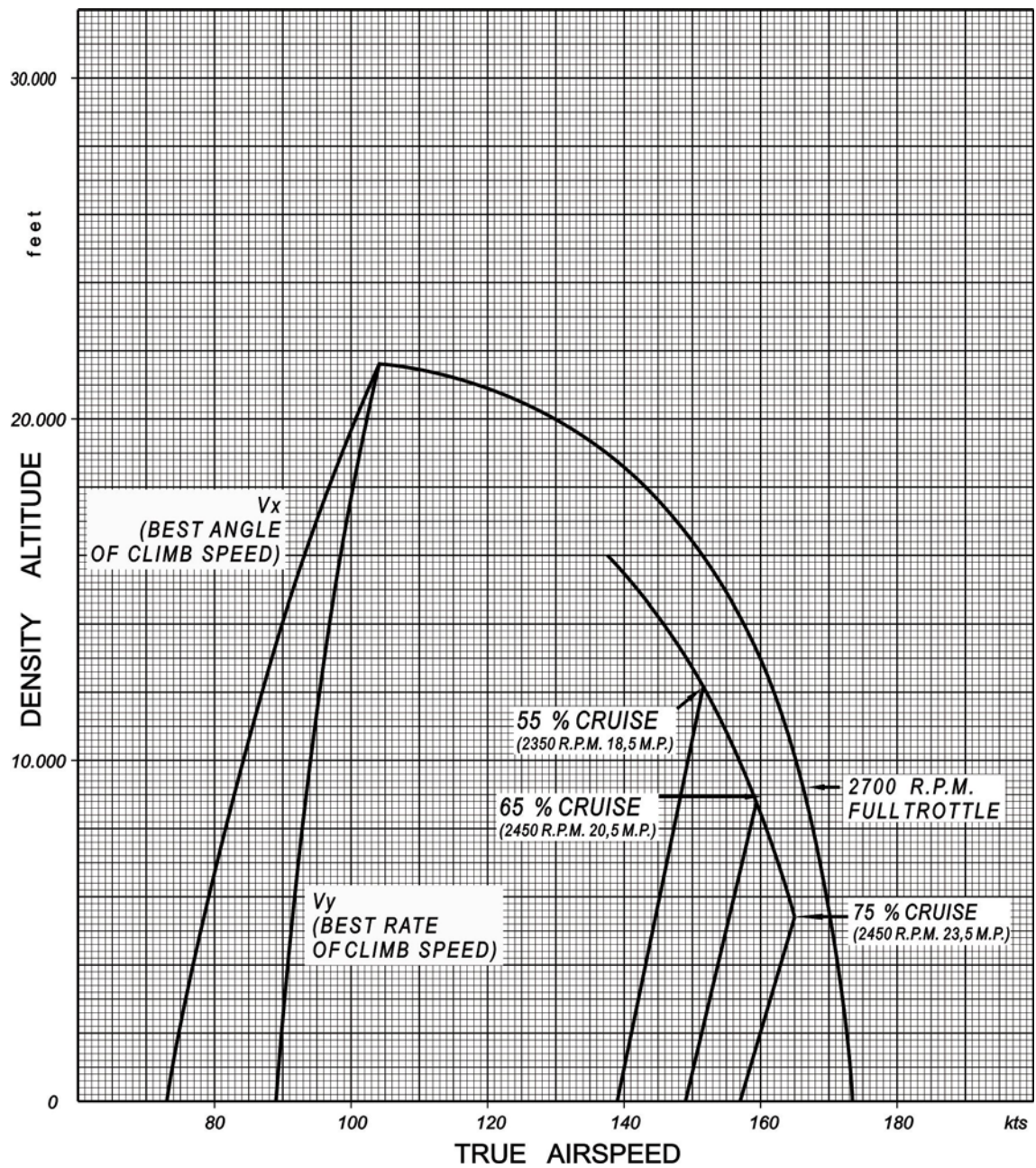
SECTION IV – PERFORMANCE

STALL SPEED – POWER OFF
MAXIMUM TAKE-OFF WEIGHT: 4321 POUNDS

CONFIGURATION	ANGLE OF BANK	STALL SPEED KNOTS IAS
FLAPS 0° CRUISE	0°	65
	30°	70
	60°	93
FLAPS 15° TAKE-OFF	0°	62
	30°	67
	60°	89
FLAPS 35° LANDING	0°	60
	30°	64
	60°	84

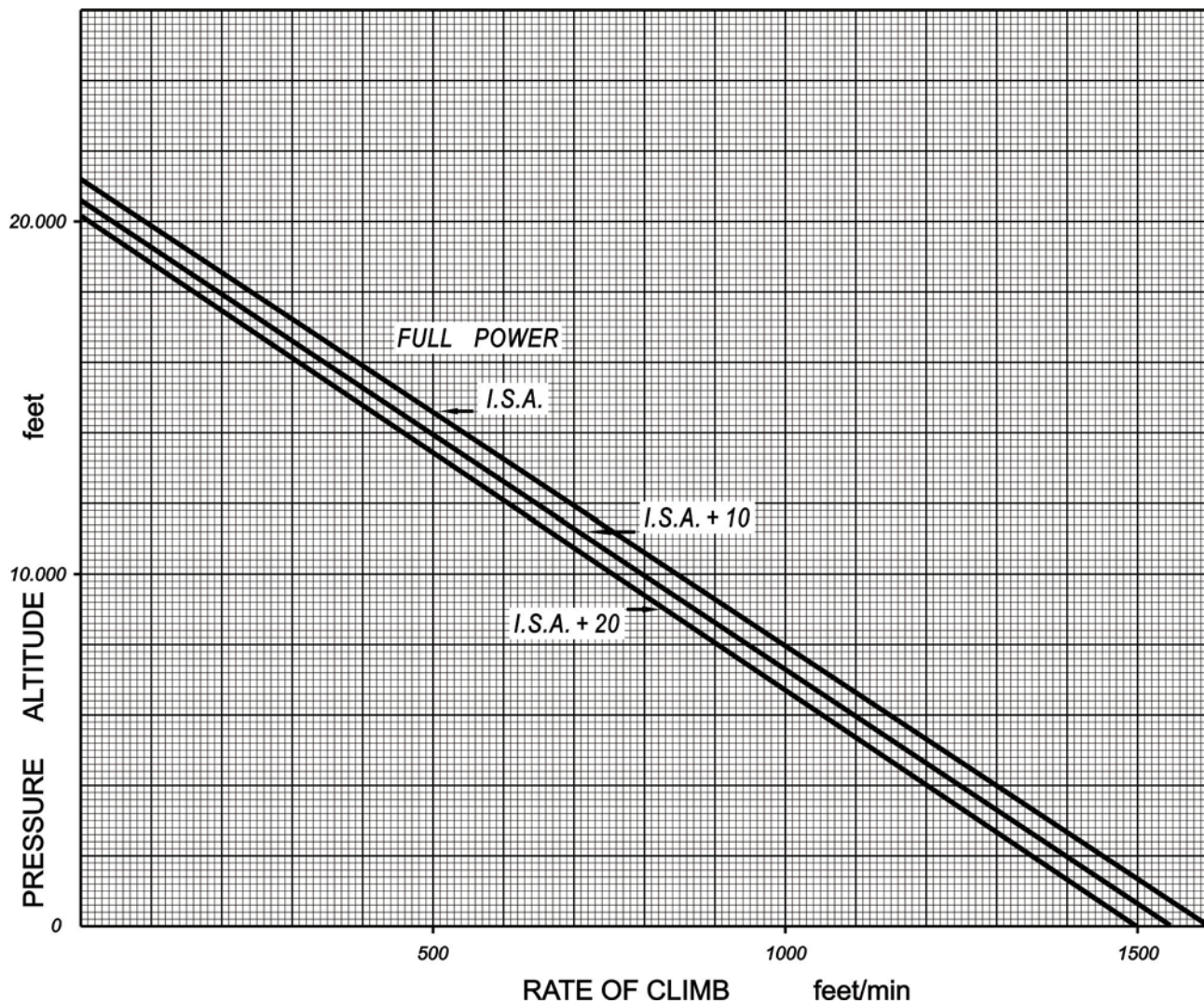
SECTION IV – PERFORMANCE

TRUE AIRSPEED Vs. DENSITY ALTITUDE
(MAXIMUM WEIGHT WITH WHEEL FAIRINGS)



SECTION IV – PERFORMANCE

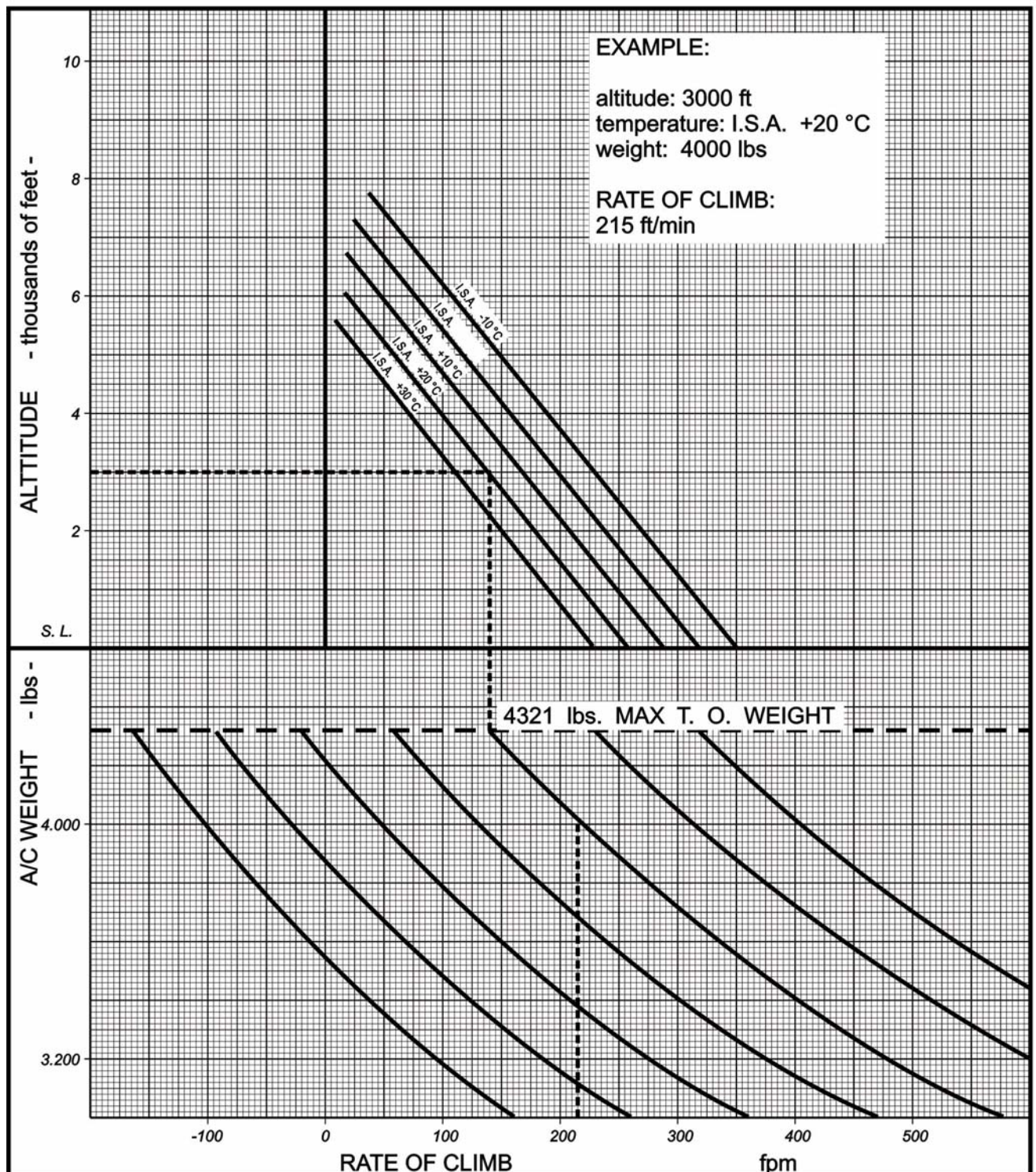
MAXIMUM WEIGHT RATE OF CLIMB
(BEST RATE OF CLIMB SPEED – 90 KIAS)



PARTENAVIA P68B VICTOR

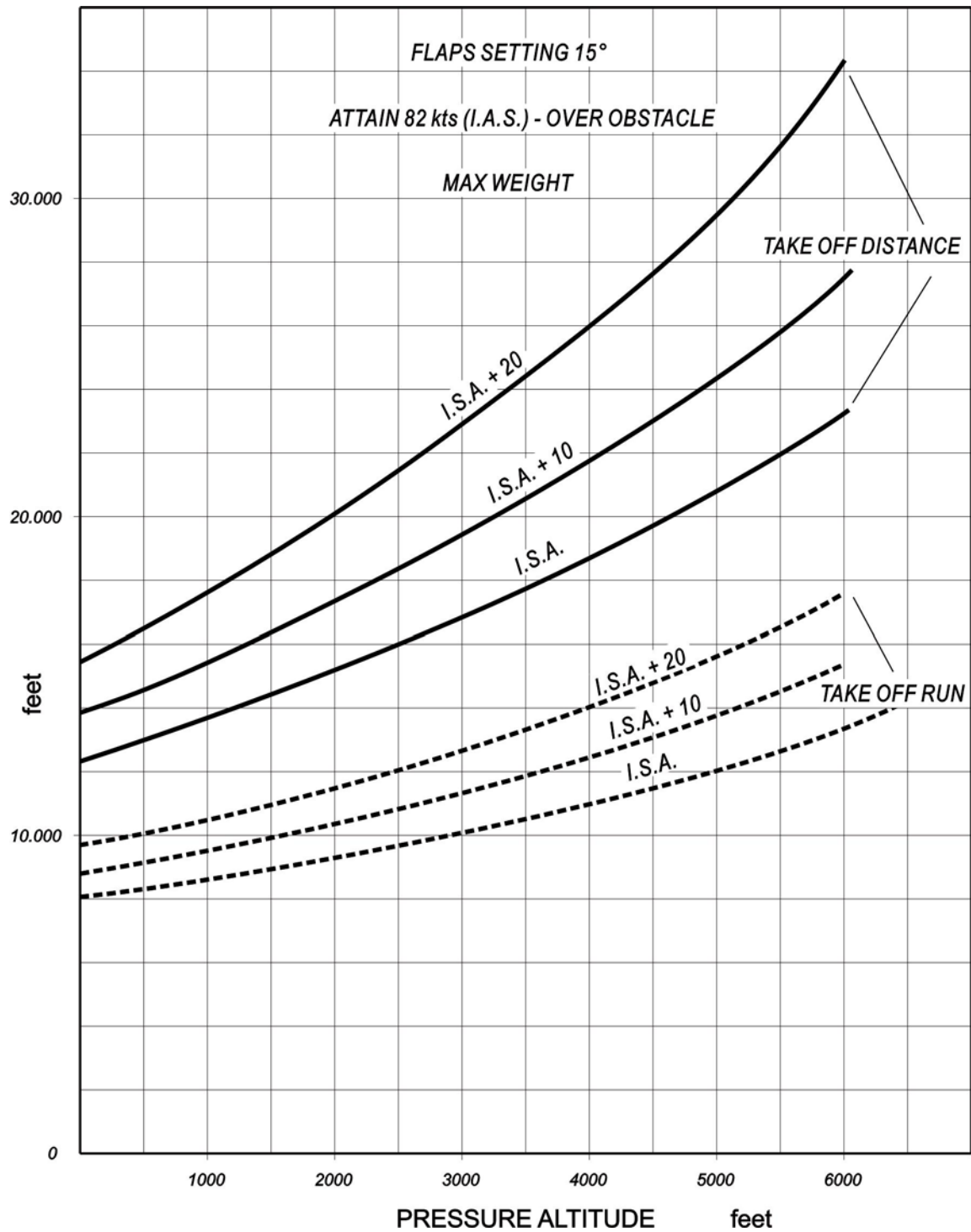
SECTION IV – PERFORMANCE

RATE OF CLIMB – CRITICAL (LEFT) ENGINE INOPERATIVE
(BEST RATE OF CLIMB SPEED – 88 KIAS)



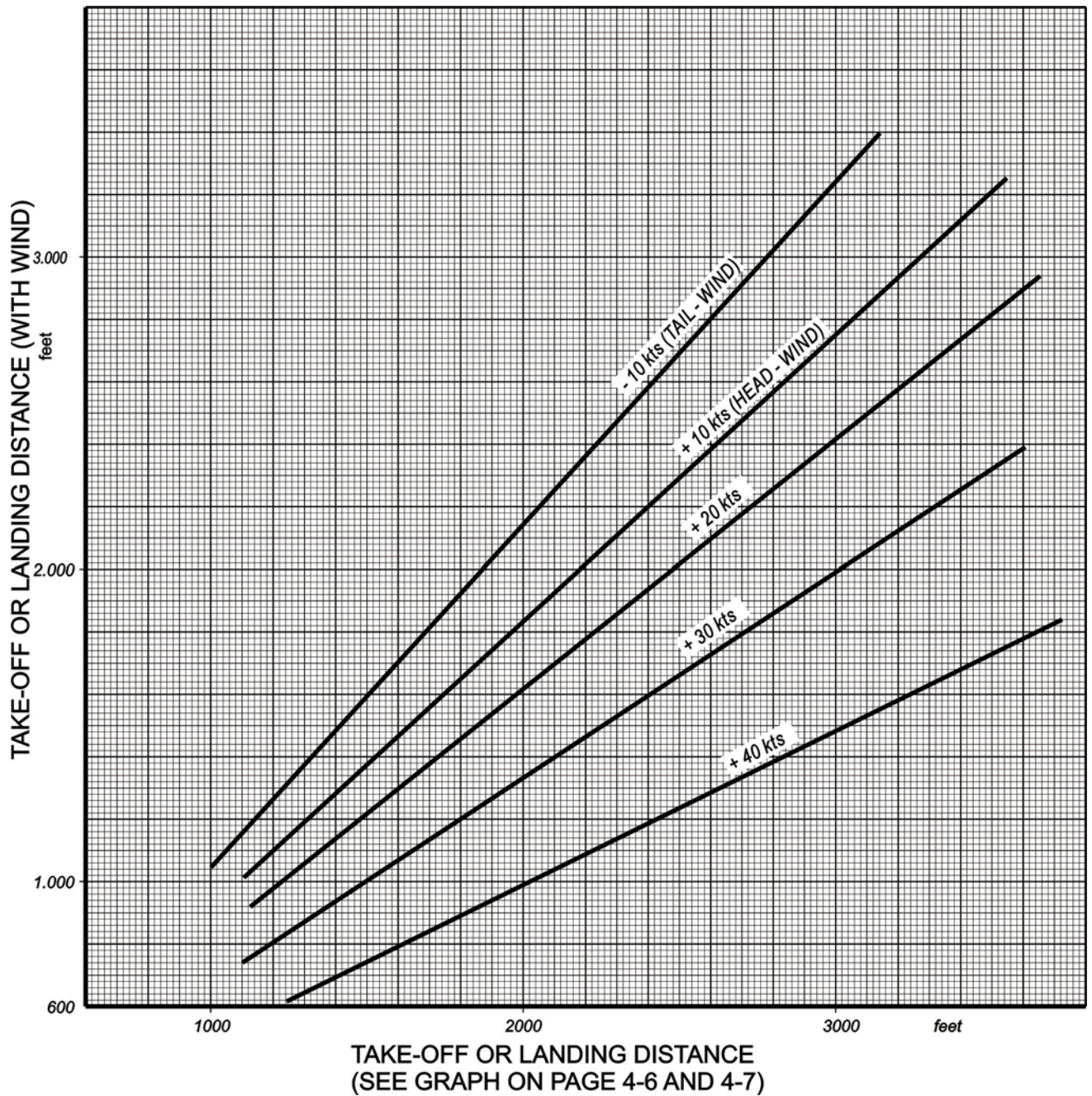
SECTION IV – PERFORMANCE

TAKE-OFF RUN AND TAKE-OFF DISTANCE OVER 50 FOOT OBSTACLE
VERSUS PRESSURE ALTITUDE



SECTION IV – PERFORMANCE

TAKE-OFF AND LANDING DISTANCE WIND CORRECTION

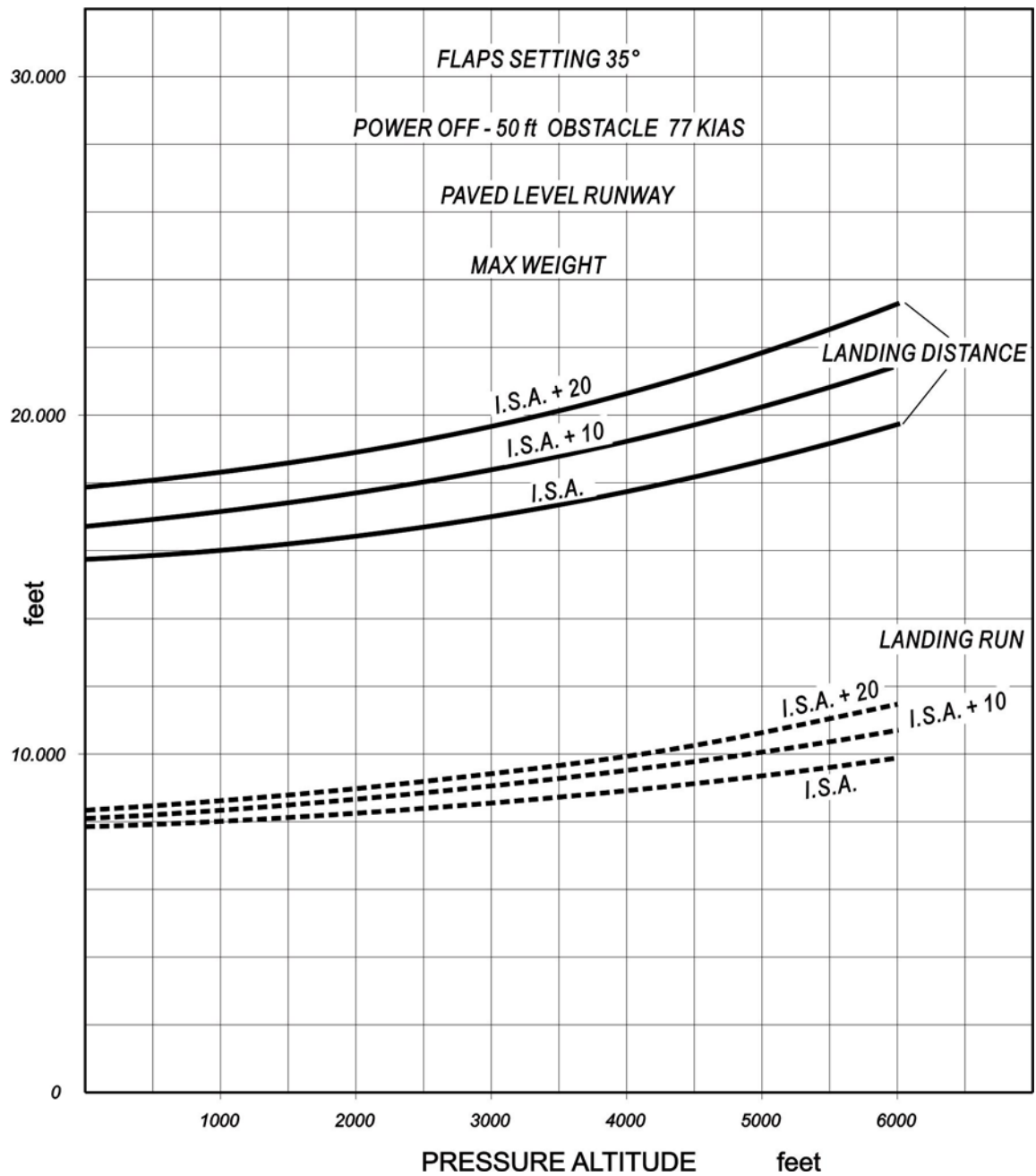


INCREASE TAKE-OFF RUN BY 10 TO 25 PERCENT FOR OPERATION ON A GRASS RUNWAY (ROLL CO-EFFICIENT APPROXIMATELY 0.06 TO 0.1). USUAL VALUE 15 PERCENT

PARTENAVIA P68B VICTOR

SECTION IV – PERFORMANCE

LANDING RUN AND LANDING DISTANCE OVER 50 FOOT OBSTACLE
VERSUS PRESSURE ALTITUDE

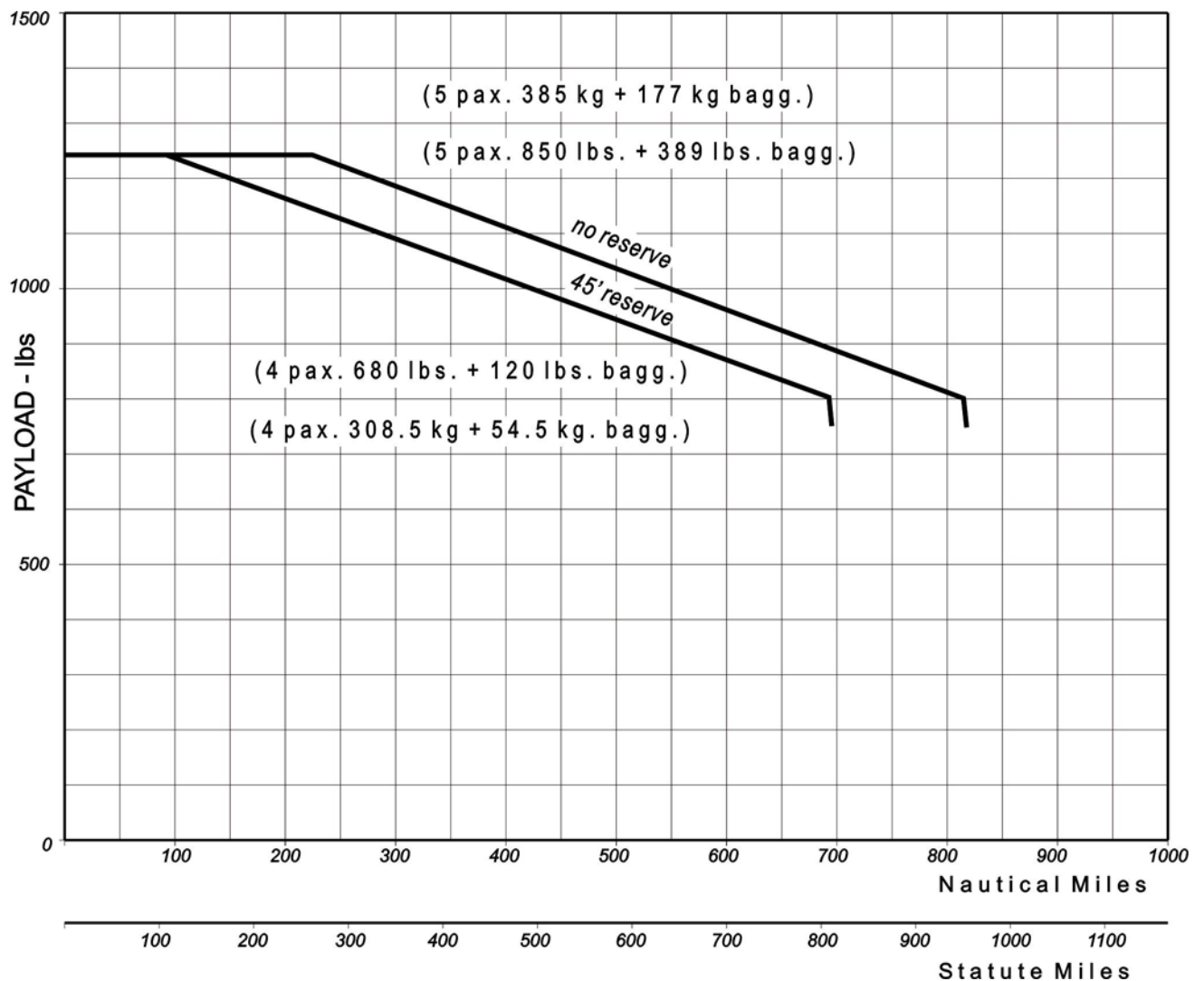


LANDING DISTANCE SHOULD BE INCREASED UP TO 13 PERCENT WHEN OPERATING FROM A SHORT, DRY, GRASS SURFACE

PARTENAVIA P68B VICTOR

SECTION IV – PERFORMANCE

PAYLOAD VERSUS RANGE 75% RATED POWER



CONDITIONS :

ISA, Zero Wind

TAS 166 Knots

Altitude: 5500 Feet

Fuel Consumption: 20.6 U.S. Gallons per Hour

Maximum Take-off Weight: 4321 Pounds

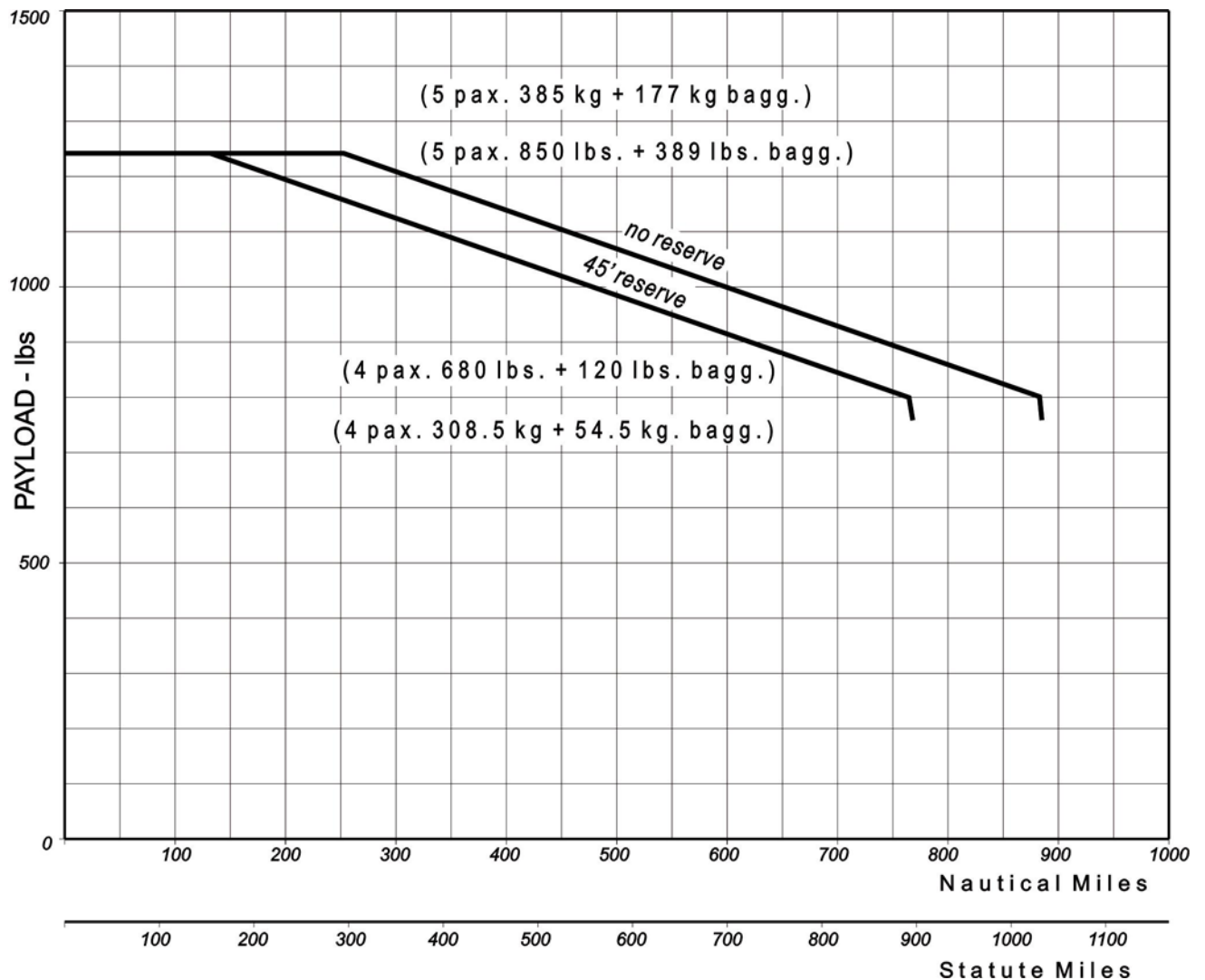
Basic Operating Weight: 2909 Pounds (Including 29 pounds unusable fuel, 170 pound Pilot, IFR Instrumentation, Avionics and Oil, excluding De-icing Equipment).

Fuel Consumption Allowance: (Take-off, Climb, Descent, Landing) : 3.5 U.S. Gallons

PARTENAVIA P68B VICTOR

SECTION IV – PERFORMANCE

PAYLOAD VERSUS RANGE 65% RATED POWER



CONDITIONS :

ISA, Zero Wind

TAS 159 Knots

Altitude: 9000 Feet

Fuel Consumption: 18.3 U.S. Gallons per Hour

Maximum Take-off Weight: 4321 Pounds

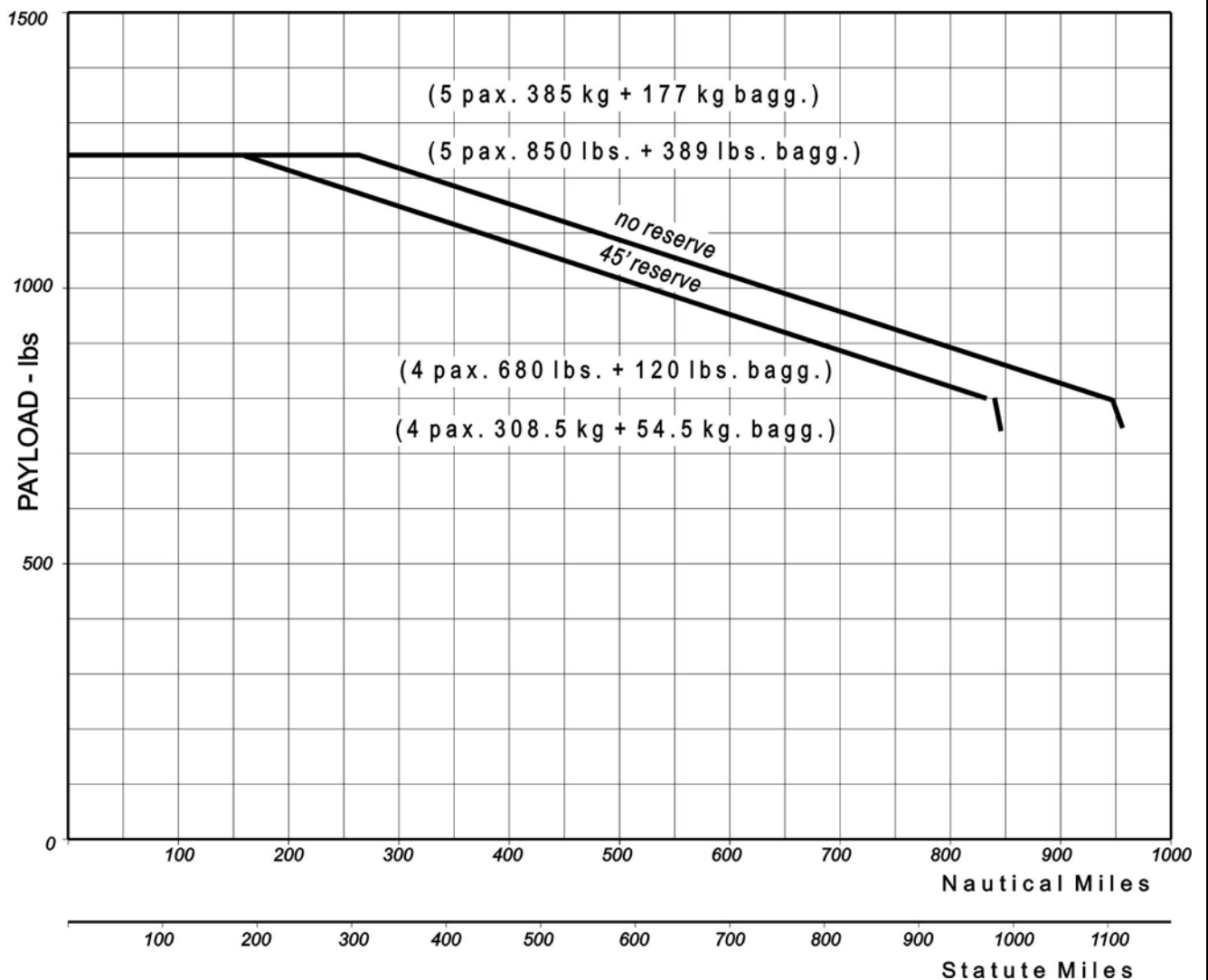
Basic Operating Weight: 2909 Pounds (Including 29 pounds unusable fuel, 170 pounds Pilot, IFR Instrumentation, Avionics and Oil, excluding De-icing Equipment).

Fuel Consumption Allowance: (Take-off, Climb, Descent, Landing) : 5.5 U.S. Gallons

PARTENAVIA P68B VICTOR

SECTION IV – PERFORMANCE

PAYLOAD VERSUS RANGE 55% RATED POWER



CONDITIONS :

ISA, Zero Wind

TAS 150 Knots

Altitude: 1200 Feet

Fuel Consumption: 16.0 U.S. Gallons per Hour

Maximum Take-off Weight: 4321 Pounds

Basic Operating Weight: 2909 Pounds (Including 29 pounds unusable fuel, 170 pound Pilot, IFR Instrumentation, Avionics and Oil, excluding De-icing Equipment).

Fuel Consumption Allowance: (Take-off, Climb, Descent, Landing) : 7.0 U.S. Gallons

PARTENAVIA COSTRUZIONI AERONAUTICHE
NAPLES, ITALY

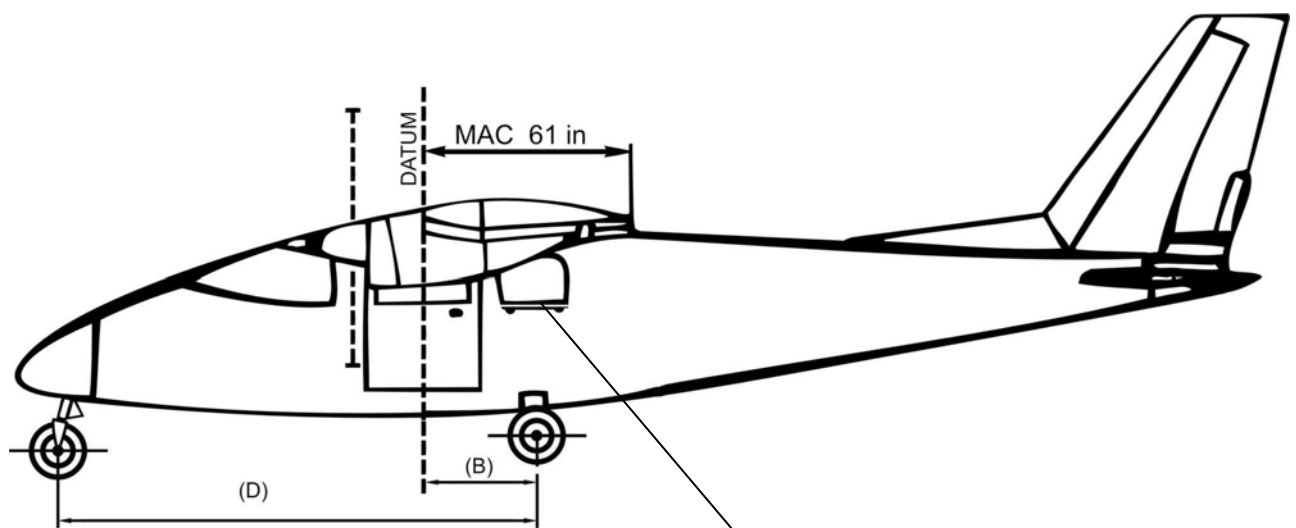
Report :
Page : 1
Model : P68B

REPORT NO.
ACTUAL WEIGHT AND BALANCE
AIRCRAFT MODEL P68B VICTOR

SERIAL NO.:

IDENTIFICATION:

DATE:



Levelling means Longitudinal
Window Sill on Rear Right
Window

Empty Weight as weighed (Includes Items checked on Equipment List)

Left Wheel
Right Wheel
Nose Wheel (N)

TOTAL (T)

EMPTY WEIGHT C.G. AS WEIGHED

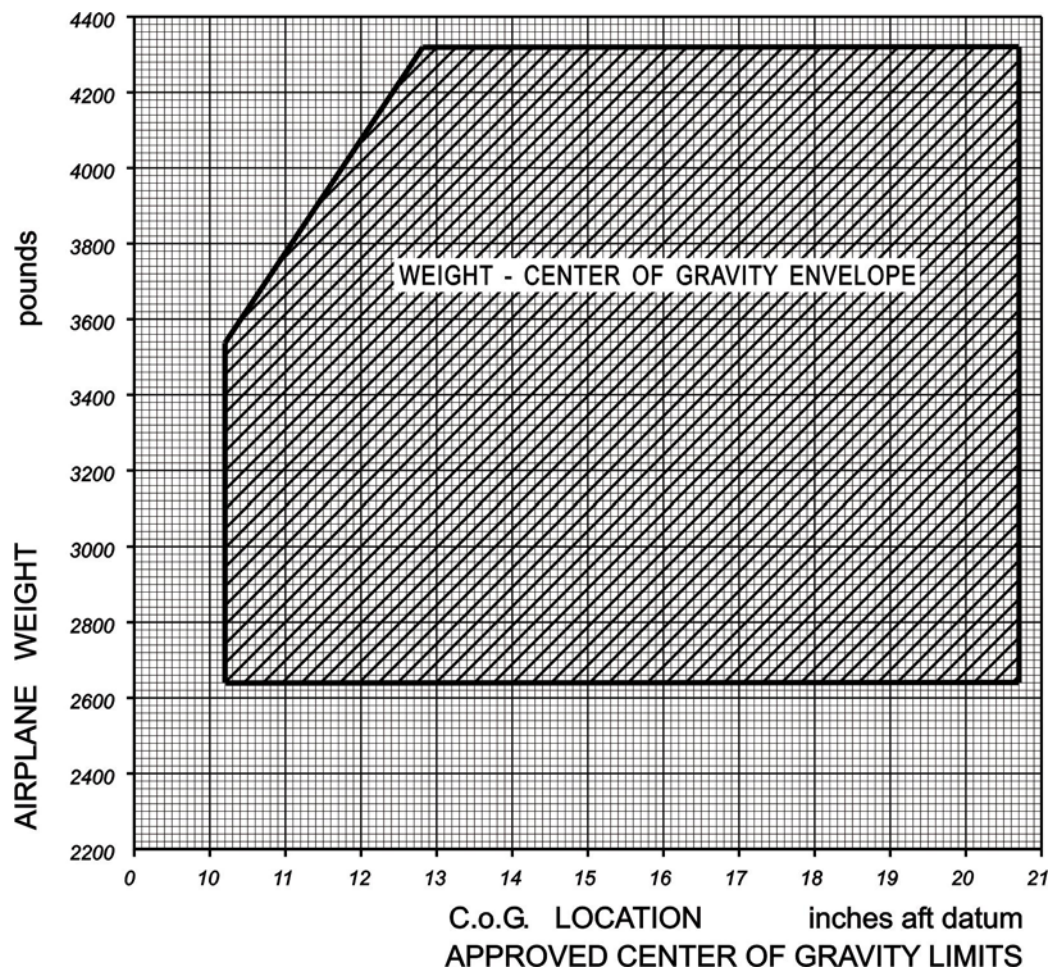
Empty Weight C.G. Aft Datum:

$$(B) - \frac{(N) \times (D)}{(T)} = \text{Inches (A)}$$

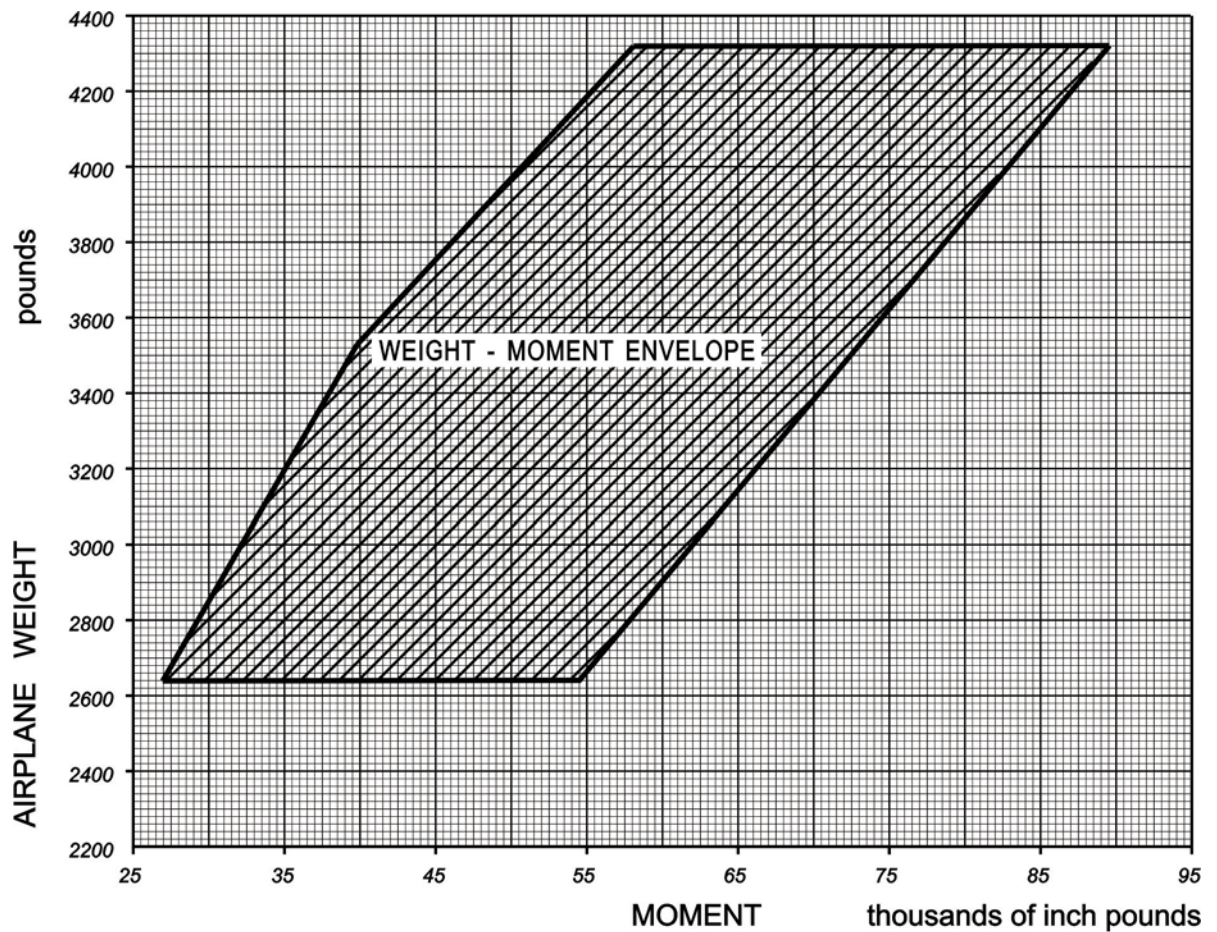
EMPTY WEIGHT AND C.G. WITH UNUSABLE FUEL

ITEM	WEIGHT	ARM	MOMENT
Empty Weight as weighed	(T) _____	(A) _____	_____
Unusable Fuel	28.6	30.3	866
Drainable Oil	29.0	4.0	116
	_____	_____	_____
BASIC WEIGHT AND C.G.	_____	_____	_____

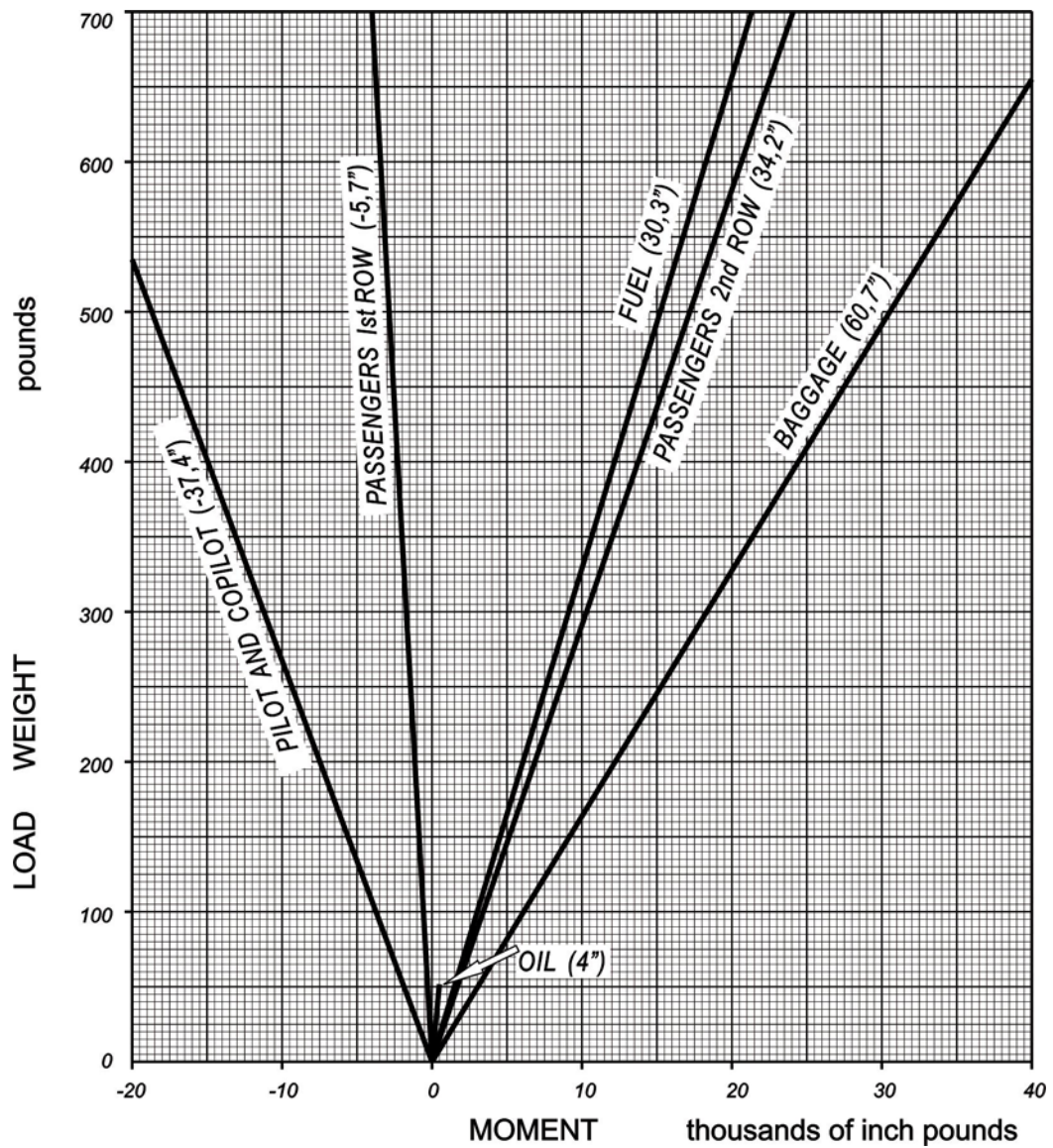
IT IS THE RESPONSIBILITY OF THE OWNER AND PILOT BEFORE ANY FLIGHT TO ASCERTAIN THAT THE AIRPLANE IS PROPERLY LOADED



CENTRE OF GRAVITY ENVELOPE



ANY POINT FALLING WITHIN THE ENVELOPE MEETS ALL BALANCE REQUIREMENTS



ADD WEIGHT OF ITEM TO BE CARRIED TO THE LICENSED EMPTY WEIGHT OF THE AIRCRAFT. ADD MOMENT IN THOUSANDS OF INCH POUNDS OF THESE ITEMS TO THE TOTAL AIRCRAFT MOMENT IN THOUSANDS OF INCH POUNDS FOUND ON THE CENTER OF GRAVITY ENVELOPE

AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
PROPELLER AND PROPELLER ACCESSORIES		
_____Two Propellers, Hartzell Model HC-C2YK-2CF/FC7666A-4	61.6 ea.	- 18.1
_____Two Spinners, Hartzell Model 836-29	3.6 ea.	- 21.6
ENGINE AND ENGINE ACCESSORIES – FUEL AND OIL SYSTEMS		
_____Two Engines, Lycoming Model IO-360-A1B6	358.0 ea.	- 3.2
_____Two Oil Coolers, Harrison Model AP13AU06-01	2.5 ea.	- 12.4
_____Two Engine Driven Fuel Pumps, AC Type Model 75247	2.0 ea	+ 9.8
_____Two Electric Rotary Fuel Pumps, One Weldon Model C8100-F Right and One Weldon Model C8100-F Left	3.0 ea.	+ 17.3
_____Two 24V Starters, Prestolite Model MHB 4010	13.0 ea.	- 7.9
_____Two Vacuum Pumps, One Airborne Mechanisms Model 211CC One Airborne Mechanisms Model 211CC	3.5 ea	+ 9.8
_____Two Hydraulic Governors, Woodward Model B 210655	4.6 ea.	+ 10.2
_____Two Induction Air Filters, Partenavia P/N 7.5053	1.0 ea.	- 13.8

AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
LANDING GEAR		
_____ Two Main Wheel Brake Assemblies (with 40-96E Wheel Assemblies and 30-61E Brake Assemblies), 6.00-6 Type III, Cleveland Products	9.6 ea.	+ 31.5
_____ Two Main Wheel 6-Ply Rating Tyres, 6.00-6 Type III with Regular Tubes.	9.4 ea.	+ 31.5
_____ One Nose Wheel, 5.00-5, Type III, Partenavia P/N 4.5001	4.4	- 109.8
_____ One Nose Wheel 6-Ply rating Tyre, 5.00-5, Type III, with Regular Tube	5.3	- 109.8
ELECTRICAL EQUIPMENT		
_____ One 24V., 17 Ampere/Hour Battery, Teledyne Gill 12G CAB-9	33.7	+ 31.5
_____ Two Landing Lights, G.E. Model 4594	1.0 ea.	+ 3.6
_____ Rotating Beacon, Flight Components ACL 800-03-1100/10	1.6	+ 224.4
_____ Two 24V, 70 Ampere Alternators, Prestolite ALU 8421 with Regulators, Brackets and Relays	13.0 ea.	- 11.8
_____ Two Prestolite Overvolt Relays		
_____ Two Prestolite Voltage Regulators P/N VSF-7403 with Brackets		

AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
ELECTRICAL EQUIPMENT (CONT.)		
_____Auxiliary Power Receptacle AN 2552-3A	0.9	+ 78.7
INTERIOR EQUIPMENT		
_____Two Front Seats, Partenavia P/N 8.1049	12.1 ea.	- 37.4
_____Two Middle Seats, Partenavia P/N 8.1049	12.1 ea.	- 5.7
_____One Rear Settee, Partenavia P/N 8.1093 – Two Passengers	23.1	+ 34.2
Partenavia P/N 8.1093 – Three Passengers	24.0	+ 34.2
MISCELLANEOUS EQUIPMENT		
_____Heated Pitot P/N AN5812-1	0.7	- 92.5
_____Stall Warning Indicator, Safe Flight P/N 164	0.3	- 59.0
_____Fire Extinguisher and Bracket	4.3	- 43.3
_____2 ND Sensitive Altimeter, Aeritalia P/N 16050X	0.5	- 66.9
_____Dual Model 36/K Alcor Ekonomix EGT	0.8	- 59.0
RADIOS		
_____COM 1 _____	6.6	- 70.1
_____COM 2 _____	7.7	- 70.1
_____NAV 1 _____		- 70.1
_____NAV 2 _____		- 70.1
_____ADF _____	5.5	- 68.1
_____A/S Panel _____	1.2	- 67.1
_____MKR _____	1.2	- 67.1

AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
RADIOS (Cont.)		
TRANSPONDER	3.3	- 69.3
VOR Antenna	0.9	+ 222.4
COM 1 Antenna	0.9	+ 83.4
COM 2 Antenna	0.9	+ 24.66
VOR/LOC	2.0	- 66.9
VOR/ILS	2.5	- 66.9
DME	10.0	- 91.3
CONVERTER	5.2	- 87.4
CONVERTER	5.2	- 87.4
CONVERTER	5.2	- 87.4
CONVERTER	5.2	- 87.4
IFR Altimeter	1.5	- 68.9
IFR Gyro Horizon	2.0	- 68.9
Radar	22.0	- 75.0
HF	40.0	- 60.5
Autopilot		

INSTRUMENTS

Magnetic Compass, Airpath P/N C-2400-L4VT	0.6	- 58.3
Air Speed Indicator, Edo Aire Mitchell P/N 5172-2-PA	0.8	- 65.9
Sensitive Altimeter, A.C.D. P/N 101735-01456	1.5	- 67.1
Rate of Climb Indicator, Edo Aire Mitchell P/N 1403-8Z-PA	1.5	- 67.1
Turn & Bank Indicator, Edo Aire Mitchell P/N 52D75-10	1.5	- 66.9
Gyro Horizon, Edo Aire Mitchell P/N 23-501-05-2	2.0	- 67.1
Directional Gyro, Edo Aire Mitchell P/N IU262-003-14	1.9	- 68.1
Dual Tachometer, General Electric P/N AN5531-2	3.0	- 66.7
Gyro Horizon, Edo Aire Mitchell P/N 504-0006-94		
Directional Gyro, Edo Aire Mitchell P/N 505-0001-916		

AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
INSTRUMENTS (Cont.)		
_____ Dual Manifold, Edo Aire Mitchell P/N 1U028-002-3	1.5	- 66.1
_____ Triple Engine Indicator (Oil Temp/Oil Pres/CHT), LH & RH WESTON P/N 22-804-01-19A, or (*)	1.1	- 66.1
_____ Triple Engine Indicator (Oil Temp/Oil Pres/CHT), LH & RH A.I.D. P/N 18-1000-11, or (*)	1.1	- 66.1
_____ Triple Engine Indicator (Oil Temp/Oil Pres/CHT), LH & RH SIGMA TEK (Edo Aire) P/N 1U378-003-20, or (*)	1.5	- 66.1
_____ Triple Engine Indicator (Oil Temp/Oil Pres/CHT), LH & RH SIGMA TEK (Edo Aire) P/N 1U378-003-20A (*)	1.5	- 66.1
_____ RH & LH Fuel Quantity Gauge, Farem P/N 179C	1.5	- 65.5
_____ Ammeter & Voltmeter, Farem P/N 240-F	0.9	- 61.8
_____ Free Air Thermometer, Rochester Gauge Inc. Model 1592-30	0.4	- 52.7
_____ Flap Position Indicator, Farem P/N 193D	0.6	- 65.7
_____ Gyro Suction, Airborne P/N IG2-1	0.6	- 65.3
_____ Timer Heuer 8 Days	0.6	- 65.3
_____ Hour Meter, van Dusen P/N 773-E-4-50	0.6	- 65.3
_____ Remote Compass System	1.8	- 72.8
_____ Dual E.G.T., Alcor P/N 209A-1B	0.8	- 72.8
_____ Dual Fuel Flow Gauge, Edo Aire Mitchell P/N 1U028-004-3	1.2	- 66.1

(*) Never mix two triple engine indicator instruments with different engine data presentation.

If different part numbers are installed, remember that Weston p/n 22-804-01-19A can be coupled only with A.I.D. p/n 18-1000-11, while Sigma Tek (Edo Aire) p/n 1U378-003-20 can be coupled only with Sigma Tek (Edo Aire) p/n 1U378-003-20A.

AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
MISCELLANEOUS		
_____ Airborne-Kleber Wing/Empennage Pneumatic De-icing System with Goodrich Electrothermal propeller De-icing	+ 29.7	+ 67.0
_____ Goodrich Wing/Empennage Pneumatic De-icing System P/N 25S	+ 29.7	+ 67.0
_____ Goodrich Electrothermal De-icing System P/N 77.030	4.2	- 16.7
_____ Integral Auxiliary Wing Fuel Tanks	15.0	+ 28.0
_____ Clock, Aircraft Instruments P/N 16-105	_____	_____
_____ Airborne-Kleber Wing/Empennage Pneumatic De-icing System	_____	_____
AUTOPILOTS		
_____ Edo Aire Mitchell Century III and Electric Trim Model AK 511	17.0	+ 34.0
_____ Bendix FCS.810	18.0	+ 33.0
_____ OCEM AP-3	15.0	+ 30.0