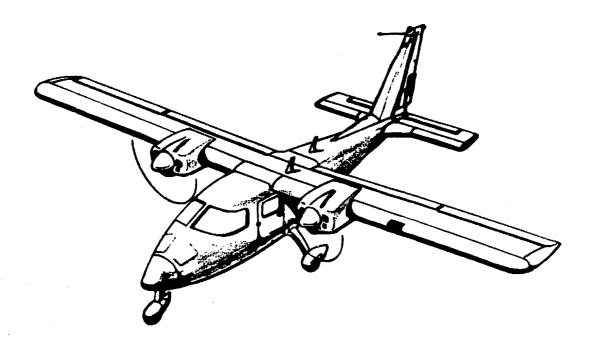
## FLIGHT MANUAL



## PGBB TICTUR

R.A.I. Approved with letter No. 115.831/T dated 24<sup>th</sup> 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.

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VH-14C	<u></u>
	119 VH - 14C

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

Reprinted by Vulcanair S.P.A. on 19<sup>th</sup> 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 _	119	
AIRCRAFT IDENTIFICATION	VH-1YC	

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 24<sup>th</sup> 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		
TEVISION NO.	TAGE NO.	DAIL	DOCUMENT NO.	DATED	
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7	1-1; 1-2; 1-3; 2-3; 3-1; 3-2	5 <sup>TH</sup> DEC. 1977	R.A.I. N° 144.750/T	2 <sup>ND</sup> JAN. 1978	
8	1-1; 1-3	2 <sup>ND</sup> MAY 1978	R.A.I. N° 147.439/T	2 <sup>ND</sup> MAY 1978	
9	II; III 1-3; 1-3a; 3-2; 3-2a	26 <sup>TH</sup> MAR. 2007	Under Authority of DOA No. EASA.21J.009 with No. AS-AFM/07/008	4 <sup>TH</sup> JUN. 2007	

Note: Revision 4 is applicable for aircraft from S/N 65 onwards.

PARTENAVIA POSB VICTOR	
TABLE OF CONTENTS	
SECTION I – OPERATING LIMITATIONS	
Engines Engine Limits Fuel Oil Propellers Engine Instruments Airspeed Limitations Manoeuvres Flight Load Factors Maximum Weight Centre of Gravity Limits Placards (for aircraft from Serial Number 123 to 152) Placards (for aircraft up to Serial Number 122)	1-1 1-1 1-1 1-1 1-1 1-2 1-2 1-2 1-2 1-3 1-3a
SECTION II – NORMAL PROCEDURES	
Before Starting Engines Starting Engines Engine Run-up Before Take-off Take-off and Climb Cruise Before Landing After Landing Securing Aircraft	2-1 2-1 2-1 2-2 2-2 2-3 2-3 2-3 2-3
SECTION III - EMERGENCY PROCEDURES - EMERGENCY CHECK LIST	
Engine Inoperative Procedure  Engine Failure during Take-off – Speed below 62 Kts. IAS  Engine Failure during Take-off – Speed above 62 Kts. IAS, Runway still available for landing.  Engine Failure during Take-off – Speed above 62 Kts. IAS, and no Runway available for landing  Procedure for best performance after engine failure during cruise flight  Engine Inoperative Landing	3-1 3-1 3-1 3-1 3-1 3-1
For aircraft from Serial Number 123 to 152  Engine Inoperative Go Around  Engine Restart in Flight  Fuel Cross-feed Procedure  Fuel System Independence  Flight Instruments - Emergency Procedure  Vacuum System  Static Alternate Air Door Actuation	3-2 3-2 3-2 3-2 3-2 3-2 3-2
For aircraft up to Serial Number 122  Engine Inoperative Go Around  Engine Restart in Flight  Fuel Cross-feed Procedure  Fuel System Independence  Flight Instruments - Emergency Procedure  Vacuum System  Static Alternate Air Door Actuation	3-2a 3-2a 3-2a 3-2a 3-2a 3-2a 3-2a
Revision 9 DATE: 26 <sup>th</sup> March 2007	Page I

U

17

DA DIDIZALA SZEA

	tem - Emergency Procedure	3-3 3-3
peaker, Amp	plifier Failure	3-3
spins		3-3
ECTION IV	/ - PERFORMANCE	
	brationbration	4-1
-	Pressure Altitude Power Off	4-2 4-3
rue Airspeed	d Vs. Density Altitude	4-4
tate of Climb tate of Climb	(Two Engines Operating) (One Engine Operating)	4-4 4-5 b
ake-off Run	and Take-off Distance over 50 foot Obstacle	4-6
	Landing Distance – Wind Correction	4-6 b 4-7
ayload Vs. F	Range 75% Rated Power	4-8
•	Range 65% Rated Power	4-9 4-1
	CURRICHENT LICT	
	SUPPLEMENT LIST	
	SUPPLEMENT LIST  A « INSTALLATION OF PHOTOGRAMMETRIC HATCH »	
· .		VI »
	A « INSTALLATION OF PHOTOGRAMMETRIC HATCH »	VI »
	A « INSTALLATION OF PHOTOGRAMMETRIC HATCH »  B « DE-ICE BOOT SYSTEM AND PROPELLER ELECTRIC ANTI-ICE SYSTEM	VI »
	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	
	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	
	<ul> <li>A « INSTALLATION OF PHOTOGRAMMETRIC HATCH »</li> <li>B « DE-ICE BOOT SYSTEM AND PROPELLER ELECTRIC ANTI-ICE SYSTEM</li> <li>C « PARACHUTIST VERSION »</li> <li>D « EDO-AIRE MITCHELL CENTURY III AUTOPILOT AND ELECTRIC TRIM MODEL AK511»</li> <li>E « HEATING, VENTILATING AND DEFROSTING SYSTEM – JANITROL MODEL B-2030 COMBUSTION HEATER»</li> </ul>	
	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 »	
	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 »	
	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 MODE B-2030 COMBUSTION HEATER»  F « RESERVED FOR OBSERVER VERSION »  G « RESERVED FOR THREE-BLADE PROPELLER VERSION »  H « INSTALLATION OF OECM AP-3 AUTOPILOT »	
	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 »	

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#### 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 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

 $14.2 \div 0.2$ 

Feather

 $81.2 \div 0.3$ 

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) Red Radial (Maximum) 75 °F to 245 °F

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)

Red Radial (Maximum)

200 °F to 475 °F

475 °F

RAI Approval No.: 147.439/T dated 2.5.1978

Revision 8

Page 1 - 1

#### SECTION I – OPERATING LIMITATIONS

2. Tachometer

Green Arc (Normal)

Red Arc

550 RPM to 2700 RPM

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 64 Kts. CAS to 153 Kts. CAS

Normal Operating Range (Green Arc) 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

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;

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

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

Page 1 - 2

## 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.

LEFT TANK

51.5 GALS.

(196 LITRES)

(196 LITRES)

LEFT TANK **LEFT ENGINE** 

ENG.

ENG.

RIGHT ENGINE

RIGHT TANK

51.5 GALS.

SHUT OFF

SHUT OFF

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

## 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"

- a. "OPERATIONAL LIMITS

4. On Front Panel Left Side:

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, 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)

Revision 9

DATE: 26<sup>th</sup> March 2007

#### **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"

RAI Approval No.: 140.411/T dated 7<sup>th</sup> June 1977

Revision 6

#### "WARNING"

Severe icing may result from environmental conditions outside of those for which the aircraft is certificated.

Flight in freezing rain, freezing drizzle, or mixed icing conditions (super cooled liquid water and ice crystals) may result in:

- ice build-up on protected surfaces and exceed the capability of the ice protection system, or
- ice forming aft of the protected surfaces.

This ice may not be shed using the ice protection systems, and may seriously degrade the performance and controllability of the aircraft.

During flight, severe icing conditions that exceed those for which the aircraft is certificated shall be determined by the visual cues described below. If one or more of these visual cues exists, immediately request priority handling from Air Traffic Control to facilitate a route or an altitude change to exit the icing conditions. The cues are:

- unusually extensive ice accumulation on the airframe and windscreen in areas not normally observed to collect ice, and/or
- accumulation of ice on the lower surface of the wing aft of the protected area, and/or
- accumulation of ice on the engine nacelles and propeller spinners farther aft than normally observed.

Since the auto-pilot, when installed and operating, may mask tactile cues that indicate adverse changes in handling characteristics, use of the auto-pilot is prohibited when any of the visual cues specified above exist, or when unusual lateral trim requirements or auto-pilot trim warnings are encountered while the aircraft is in icing conditions.

All wing icing inspection lights must be operative prior to flight into known or forecast icing conditions at night. This direction supersedes any relief provided by any Minimum Equipment List.

( ) Party carrier **+ +** 

#### 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 aerials. 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 1/2 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

RAI Approved 20<sup>th</sup> February 1975 Revision 1

#### 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 ln. Hg.
- 5. Altimeter SET
- 6. Trim Tabs SET
- 7. Clock WOUND AND SET
- 8. Mixtures FORWARD
- 9. Propellers FORWARD
- 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

RAI Approval No. 144.750/T dated 2<sup>nd</sup> January 1978 Revision 7

#### **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

# THE FOLLOWING WEATHER CONDITIONS MAY BE CONDUCIVE TO SEVERE IN-FLIGHT ICING:

- Visible rain at temperatures below 0 degrees Celcius ambient air temperature;
- Droplets that splash or splatter on impact at temperatures below 0 degrees Celcius ambient air temperature.

#### PROCEDURES FOR EXITING A SEVERE ICING

**ENVIRONMENT:** (These procedures are applicable to all flight phases from take-off to landing.)

Monitor the ambient air temperature.

While severe icing may form at temperatures as cold as -18 degrees Celcius, increased vigilance is warranted at temperatures around freezing when visible moisture is present.

If the visual cues which are specified in the Limitations Section of the AFM for indentifying severe icing conditions are observed, accomplish the following:

- Immediately request priority handling from Air Traffic Control to facilitate a route or an altitude change to exit the severe icing conditions in order to avoid extended exposure to flight conditions more severe than those for which the aircraft has been certificated.
- Avoid abrupt and excessive manoeuvring that may exacerbate control difficulties.
- Do not engage the autopilot.
- If the autopilot had previously been engaged, hold the control wheel firmly and disengage the autopilot.
- If an unusual roll response or un-commanded roll control movement is observed, reduce the angle-of-attack.
- Do not extend flaps when holding in icing conditions. Operation with flaps extended can result in a reduced wing angle-of-attack, with the possibility of ice forming on the upper surface further aft on the wing than normal, possibly aft of the protected area.
- If the flaps are extended, do not retract them until the airframe is clear of ice.
- Report these weather conditions to Air Traffic Control.

#### 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
    - 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

RAI Approval No. 144.750/T dated 2<sup>nd</sup> January 1978 Revision 7

## 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

3. Left Tank to Right Engine: (Left Engine Shut Off): RH Fuel Selector - LEFT TANK

LH Fuel Selector - RIGHT TANK

o. Lott Farm to Fright Engine. (Lott Engine offat on).

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 office, 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.

Revision 9

DATE: 26th March 2007

Page 3 - 2

## 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

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

3. Left Tank to Right Engine: (Left Engine Shut Off): RH Fuel Selector - TANK OFF

LH 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 office, 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.

Revision 9

DATE: 26th March 2007

Page 3-2a

#### 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

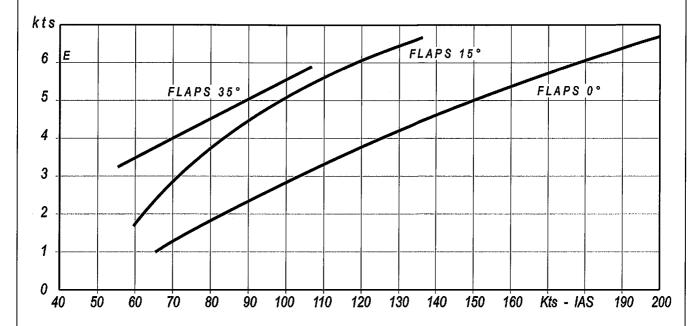
All spins are prohibited. However, in the event an unintentional spin is encountered, recovery can be accomplished by immediately using the following procedures:

- 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.

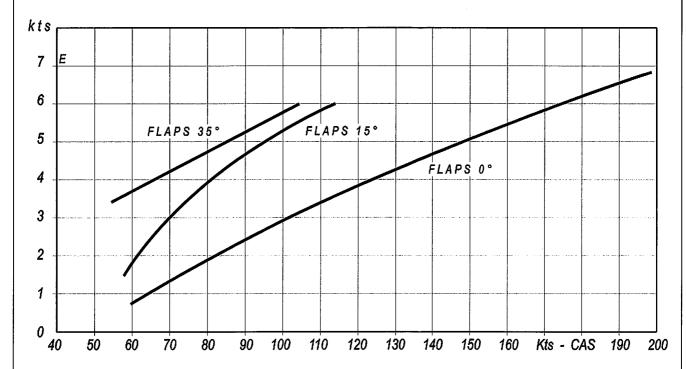
RAI Approval No. 140.411/T dated 7<sup>th</sup> June 1977 Revision 6

## **SECTION IV – PERFORMANCE**

TO OBTAIN CAS FROM IAS SUBTRACT "E" FROM IAS CAS = IAS - "E"



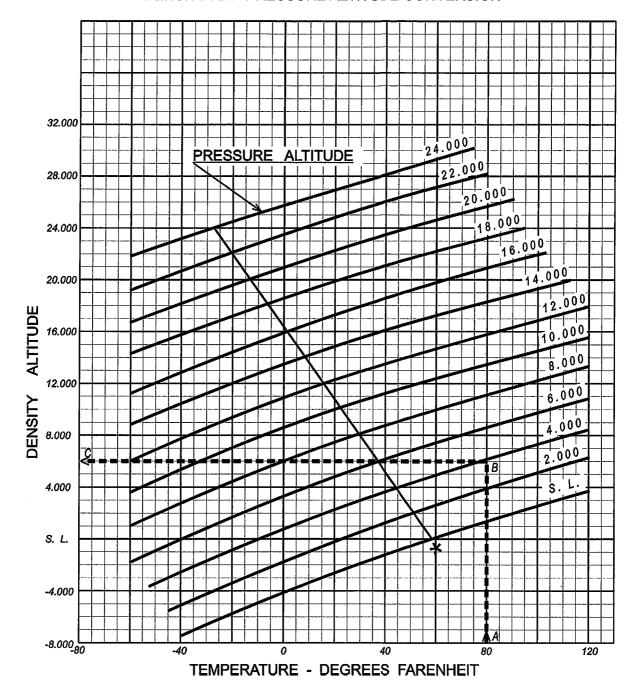
TO OBTAIN IAS FROM CAS ADD "E" TO CAS IAS = CAS + "E"



RAI Approval No. 124024/T dated 13<sup>th</sup> June 1975 Revision 3

## **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**

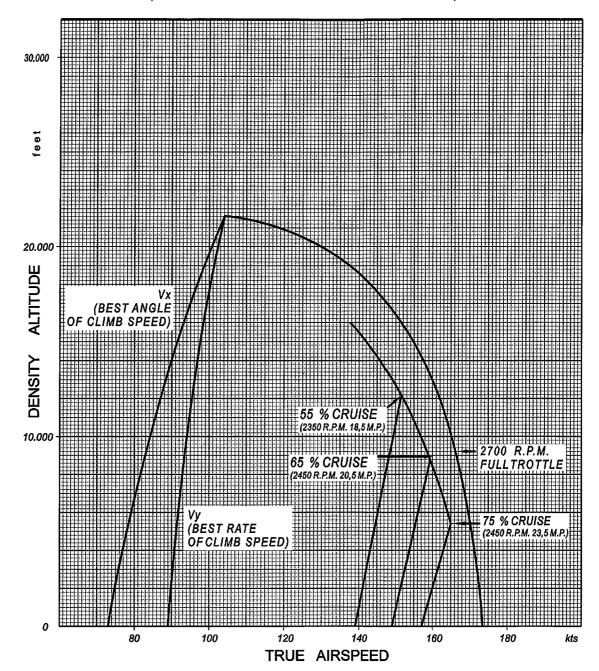
## STALL SPEED – POWER OFF MAXIMUM TAKE-OFF WEIGHT: 4321 POUNDS

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
	. 0°	60
FLAPS 35° LANDING	30°	64
LANDING	60°	84

RAI Approval No. 124024/T dated 13<sup>th</sup> June 1975 Revision 3

#### **SECTION IV – PERFORMANCE**

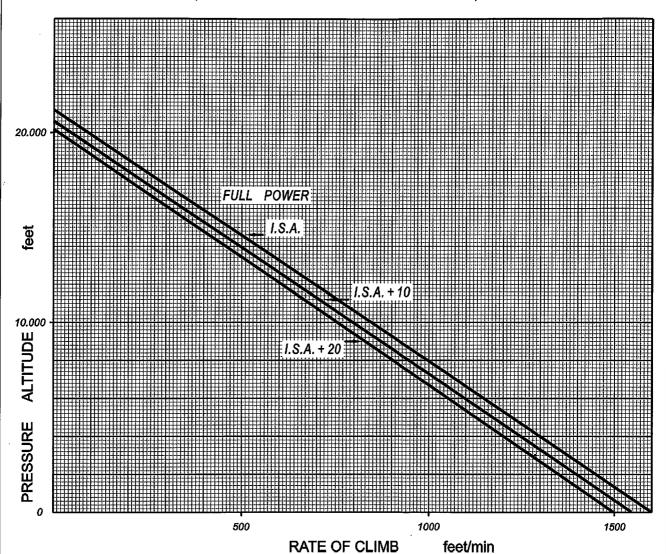
TRUE AIRSPEED Vs. DENSITY ALTITUDE (MAXIMUM WEIGHT WITH WHEEL FAIRINGS)





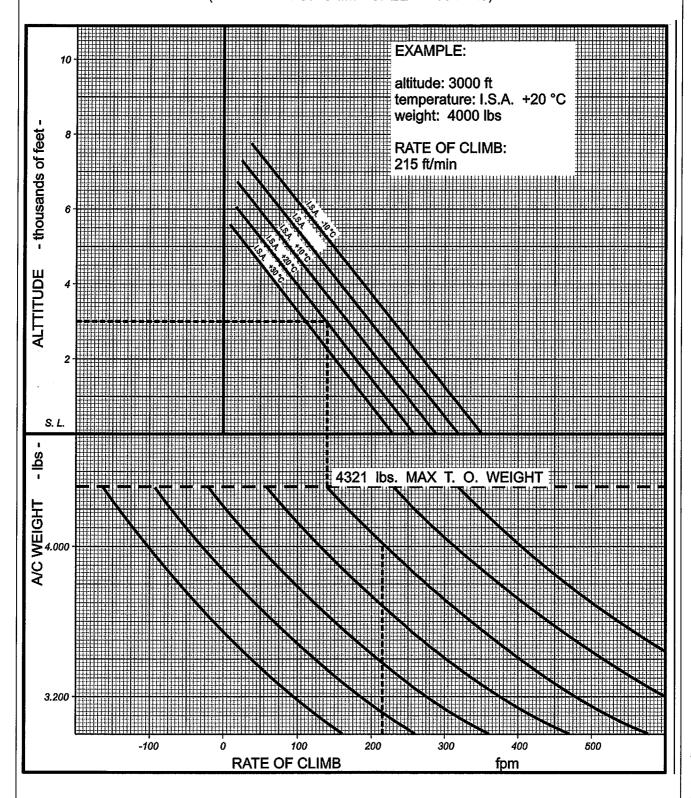
## **SECTION IV – PERFORMANCE**

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



## **SECTION IV – PERFORMANCE**

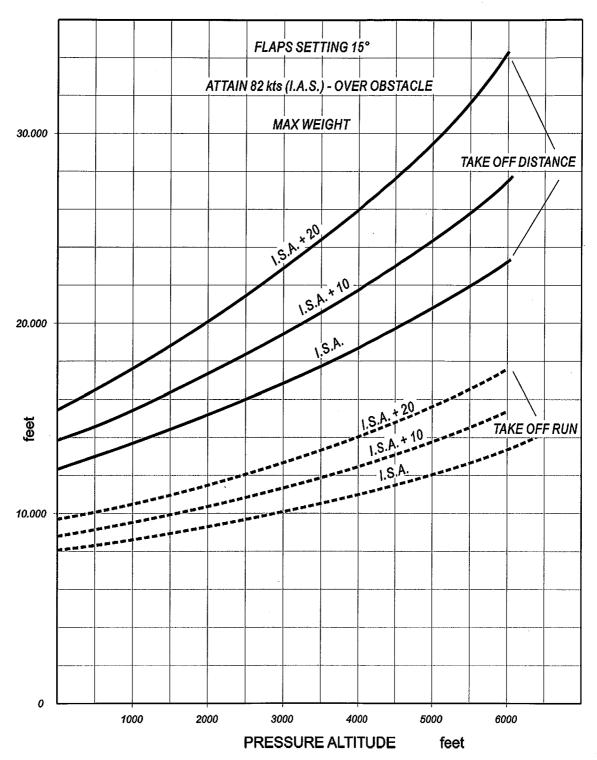
RATE OF CLIMB – CRITICAL (LEFT) ENGINE INOPERATIVE (BEST RATE OF CLIMB SPEED – 88 KIAS)



RAI Approval No. 140.411/T dated 7th June 1977 Revision 6

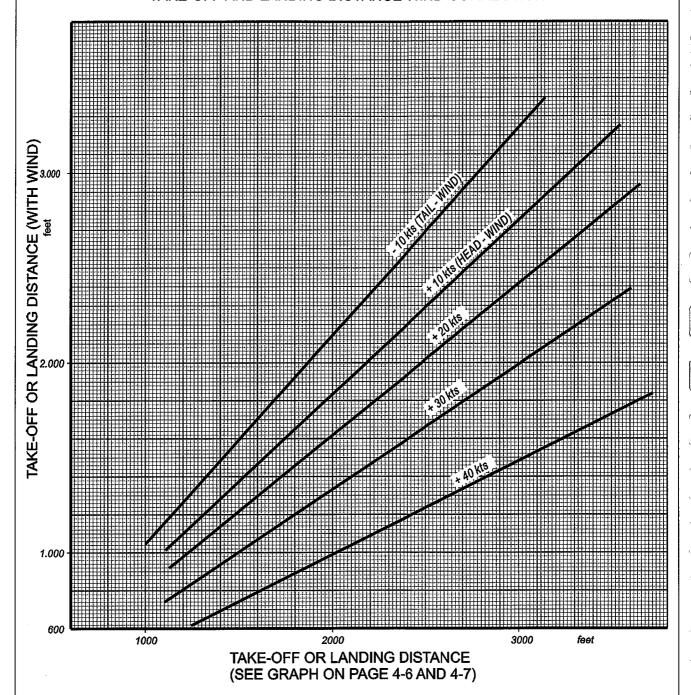
## **SECTION IV – PERFORMANCE**

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



## **SECTION IV – PERFORMANCE**

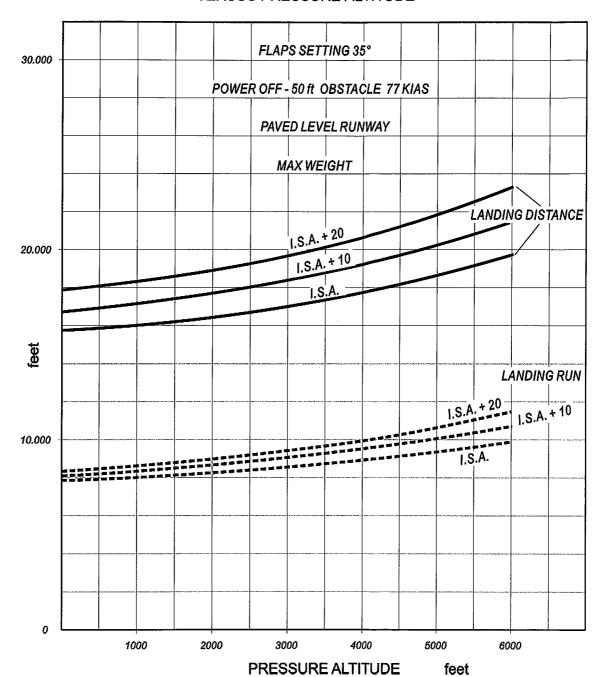
TAKE-OFF AND LANDING DISTANCE WIND CORRECTION



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

#### **SECTION IV – PERFORMANCE**

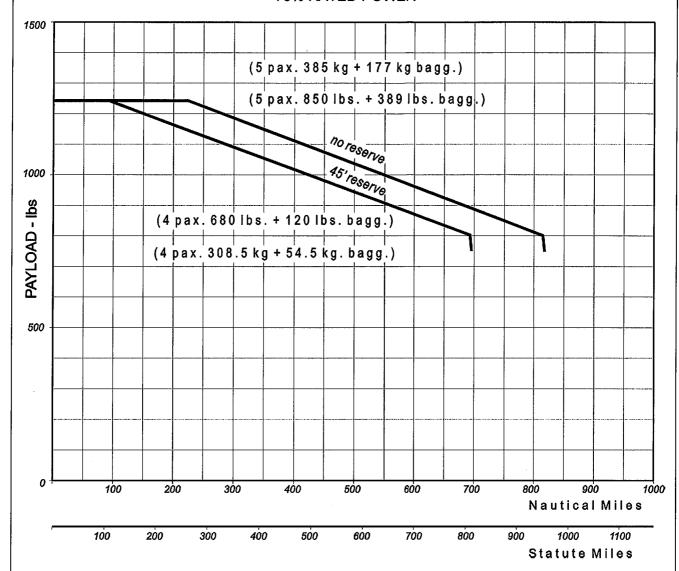
LANDING RUN AND LANDING DISTANCE OVER 50 FOOT OBSTACLE VERSUS PRESSURE ALTITUDE



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

#### **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

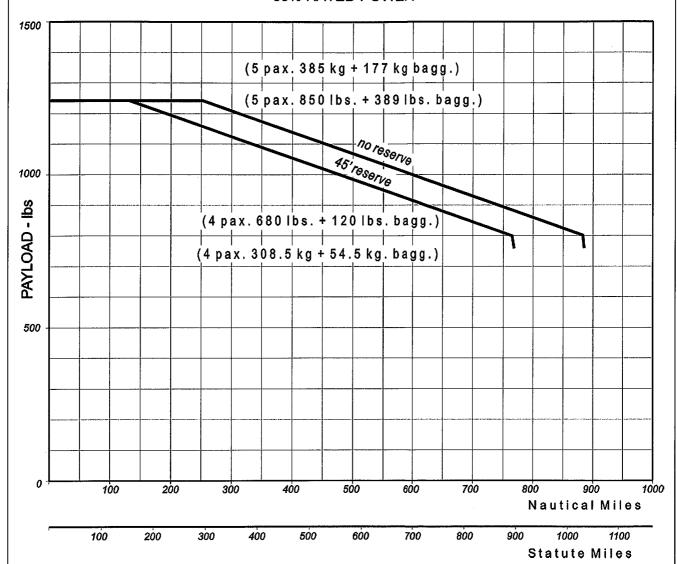
Basic Operating Weight: 2909 Pounds (Including 29 pounds unusable fuel, 170 pound Pilot, IFR

Instrumentation, Avionics and Oil, excluding De-icing Equipment).

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

#### **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

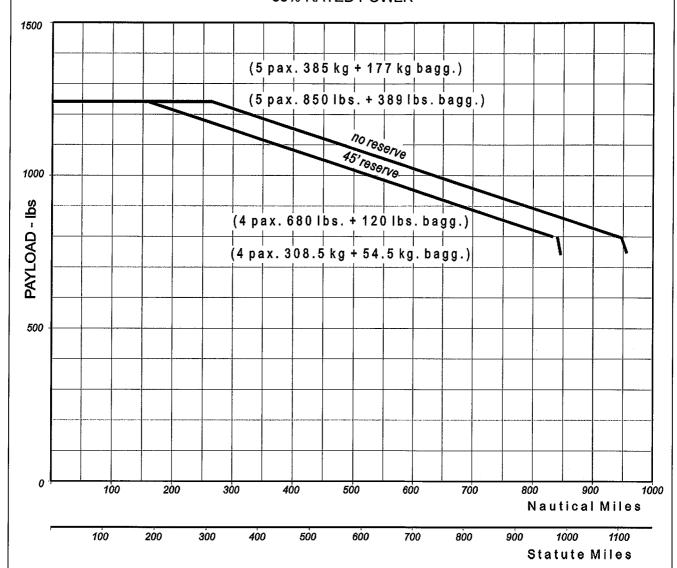
Basic Operating Weight: 2909 Pounds (Including 29 pounds unusable fuel, 170 pounds Pilot, IFR

Instrumentation, Avionics and Oil, excluding De-icing Equipment).

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

#### **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

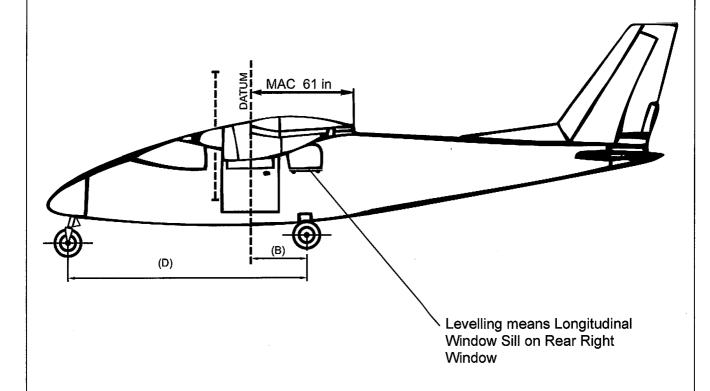
Report : Page : 1 Model : P68B

REPORT NO. ACTUAL WEIGHT AND BALANCE AIRCRAFT MODEL P68B VICTOR

SERIAL NO.:

**IDENTIFICATION:** 

DATE:



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

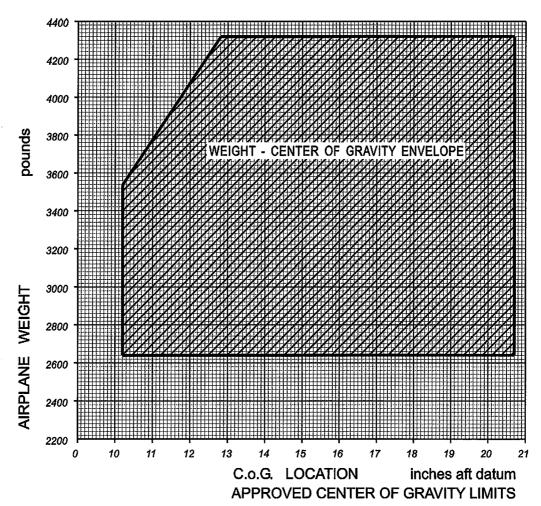
Left Wheel Right Wheel Nose Wheel (N)

TOTAL (T)

PARTENAVIA P68B VICTOR				
			Report:	
			Page :	2
EMPTY WEIGHT C.G. AS WEIGHED				
Empty Weight C.G. Aft Datum:				
(B) - <u>(N) X (D)</u> (T)	= .	Inches (A)		
EMPTY WEIGHT AND C.G. WITH UN	IUSABLE 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

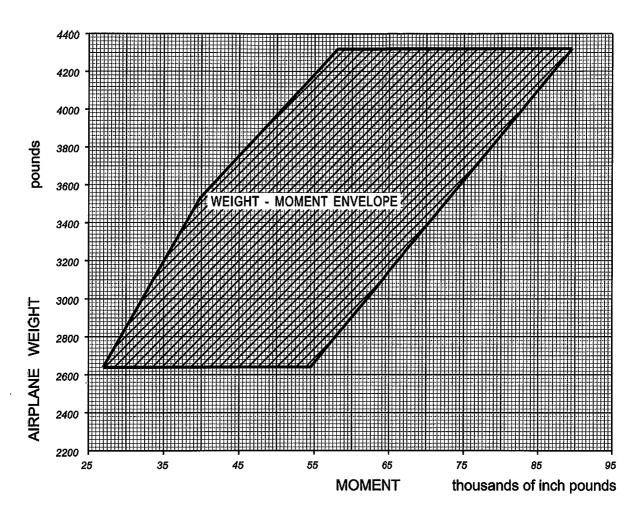
## IT IS THE RESPONSIBILITY OF THE OWNER AND PILOT BEFORE ANY FLIGHT TO ASCERTAIN THAT THE AIRPLANE IS PROPERLY LOADED

BASIC WEIGHT AND C.G.



Report: Page: 3

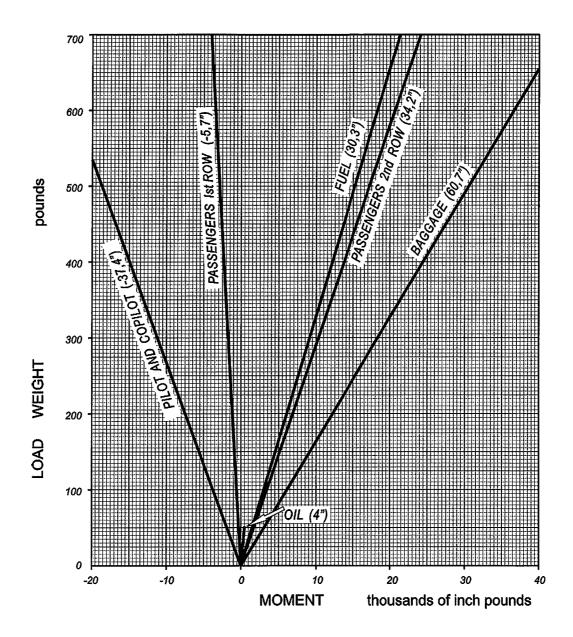
#### **CENTRE OF GRAVITY ENVELOPE**



ANY POINT FALLING WITHIN THE ENVELOPE MEETS ALL BALANCE REQUIREMENTS



Report: Page: 4



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

Report: Page: 5

## AIRCRAFT MODEL P68B VICTOR - EQUIPMENT LIST

ITEM PROPELLER AND PROPELLER ACCESSORIES	Weight (Pounds)	Arm Aft Datum (Inch)
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

Report: Page: 6

## **AIRCRAFT MODEL P68B VICTOR – EQUIPMENT LIST**

	Arm Aft Datum (Inch)	
9.6 ea.	+ 31.5	
9.4 ea.	+ 31.5	
4.4	- 109.8	
5.3	- 109.8	
33.7	+ 31.5	
1.0 ea.	+ 3.6	
1.6	+ 224.4	
13.0 ea.	- 11.8	
	9.4 ea. 4.4 5.3 33.7 1.0 ea. 1.6	

Report: 7

# 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 Partenavia P/N 8.1093 – Three Passengers	23.1 24.0	+ 34.2 + 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 <sup>ND</sup> 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

Report: Page: 8

# AIRCRAFT MODEL P68B VICTOR - EQUIPMENT LIST

ITEM	Weight (Pounds)	Arm Aft Datum (Inch)
S (Cont.)		(111011)
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		
JMENTS		
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
	3.0	- 66.7
Dual Tachometer, General Electric P/N AN5531-2 Gyro Horizon, Edo Aire Mitchell P/N 504-0006-94		

#### PARTENAVIA P68B VICTOR Report: Page: 9 AIRCRAFT MODEL P68B VICTOR - EQUIPMENT LIST Arm Weight Aft Datum ITEM (Pounds) (Inch) **INSTRUMENTS (Cont.)** Dual Manifold, Edo Aire Mitchell P/N IU028-002-3 1.5 - 66.1 - 66.1 R & L Oil Temperature Gauge, Edo Aire P/N IU378-003-20 1.5 R & L Oil Pressure Gauge, Edo Aire Mitchell P/N IU378-003-20 1.5 - 66.1 R & L Cylinder Temperature Gauge, Edo Aire Mitchell P/N 22-804-019-6A 1.5 - 66.1 - 65.5 R & L Fuel Quantity Gauge, Farem P/N 179C 1.5 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 1.8 - 72.8 Remote Compass System Dual E.G.T., Alcor P/N 209A-1B 8.0 - 72.8 - 66.1 Dual Fuel Flow Gauge, Edo Aire Mitchell P/N IU028-004-3 1.2 **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 15.0 + 28.0 Integral Auxiliary Wing Fuel Tanks Clock, Aircraft Instuments 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 +34.018.0 +33.0

15.0

+ 30.0

Bendix FCS.810

OCEM AP-3



#### APPENDIX FOR MAXIMUM TAKE-OFF AND LANDING WEIGHT INCREASES

#### **SECTION 1 – GENERAL**

This appendix must be attached to the R.A.I. Approved Flight manual when the aircraft is operated at the following weights:

a. Maximum Take-off: 4387 Pounds (1990 Kilograms)

b. Maximum Landing: 4167 Pounds (1890 Kilograms)

For Limitations, Procedures and Performance data not contained in this appendix, consult the basic Aircraft Flight Manual.

NOTE: The Limitations, Performance Data and Information in this appendix must be considered as overriding the basic Aircraft Flight Manual where there is any conflict between the Appendix and Flight Manual.

#### **SECTION 2 - LIMITATIONS**

#### **AIRSPEED LIMITATIONS**

a. Manoeuvring Speed, V<sub>A</sub> 130 KIAS (126 KCAS)



#### WEIGHT AND CENTRE OF GRAVITY LIMITS

#### Weight Limits:

a. Maximum Take-off Weight: 4387 Pounds (1990 Kilograms)b. Maximum Landing Weight: 4167 Pounds (1890 Kilograms)

#### Centre of Gravity Limits:

a. Aft Limit: 20.7 Inches /34% M.A.C.) Aft of Datum at all weights

b. Forward Limits: 13.03 Inches (21.4% M.A.C.) Aft of datum at 4387 Pounds 10.20 Inches (16.8% M.A.C.) Aft of datum at 3527 Pounds or less with straight line variation between these points.

Datum Location is at the Wing Leading Edge.

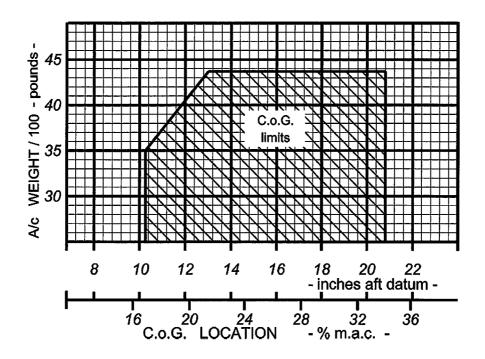


FIGURE 2-1



#### **SECTION 3 - EMERGENCY PROCEDURES**

No Changes

#### **SECTION 4 - NORMAL PROCEDURES**

No Changes

#### **SECTION 5 - PERFORMANCE**

NOTE: The Performance Data not included in this Appendix, may be obtained from Performance Charts in the basic Flight Manual, by extrapolating the variation with weight up to 4387 pounds.

#### STALL SPEEDS

#### **CONDITIONS:**

- 1. Throttle IDLE
- 2. MAXIMUM take-off Weight 4387 Pounds.

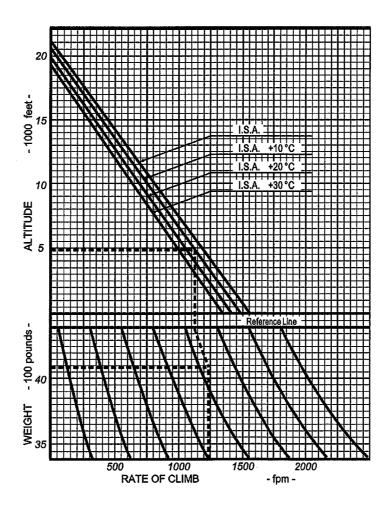
	ANGLE OF BANK							
FLAPS	0°		20°		40°		60°	
	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS
0°	66	65	68	67	76	74	95	92
15°	63	61	65	63	73	70	90	86
35°	61	58	63	59	69	65	85	80



#### RATE OF CLIMB - MAXIMUM CLIMB

#### **CONDITIONS:**

- 1. 2700 RPM and Full Throttle
- 2. Mixture FULL RICH up to 5000 feet. At higher altitude, lean for smooth operation. Do not exceed 435 °F (224 °C) C.H.T.
- 3. Flaps UP
- 4. Best rate of Climb Speed 90 KIAS

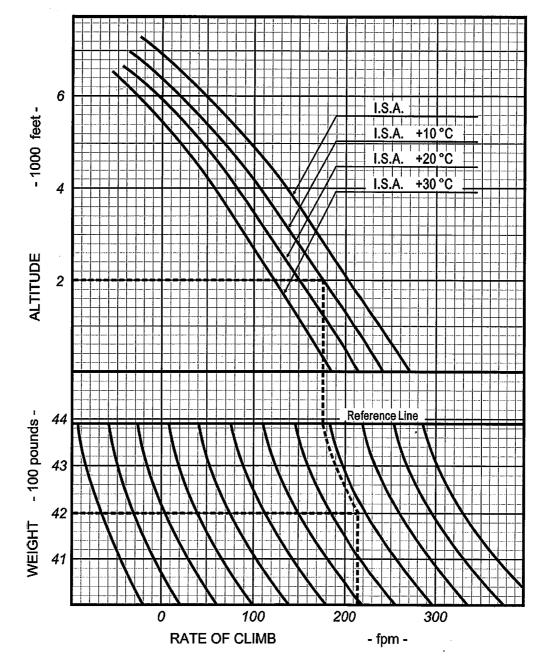




#### RATE OF CLIMB - SINGLE ENGINE

#### **CONDITIONS:**

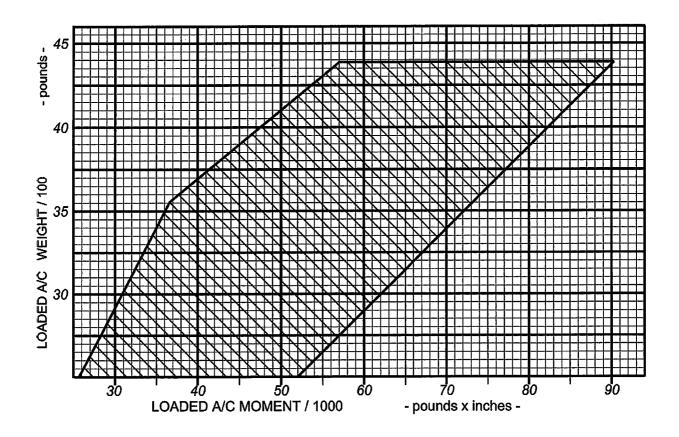
- 5. 2700 RPM and Full Throttle
- 6. Mixture FULL RICH up to 5000 feet. At higher altitude, lean for smooth operation. Do not exceed 435 °F (224 °C) C.H.T.
- 7. Flaps UP
- Best rate of Climb Speed 88 KIAS





#### **SECTION 6 - WEIGHT AND BALANCE**

#### CENTER OF GRAVITY MOMENT ENVELOPE





Section 7
SUPPLEMENT L

#### SUPPLEMENT L — OPTIONAL AUXILIARY FUEL WING TANKS

#### SECTION 1 - DESCRIPTION

Optional auxiliary fuel tanks of integral type are contained in the wings outboard of the main tanks.

There are no separate fuel selector controls for these tanks. Fuel is pumped from the auxiliary fuel tank directly into the same side main tank with a fuel transfer pump through a switch located in the overhead fuel panel.

Indicator lights mounted near the main tanks fuel quantity indicator are illuminated by pressure switches when all usable fuel has been transferred.

To prevent overflow of the main tank fuel should not be transferred until the remaining fuel in the main tank is half full or less.

#### SECTION 2 - OPERATING LIMITATIONS & PLACARDS

Total fuel per aux. tank: 22.5 U.S.G. (85 lt) Usable fuel per aux. tank: 21.5 U.S.G. (81 lt)

Near transfer pump switches:

«TRANSFER AUX. TANK FUEL WHILE IN LEVEL FLIGHT AND WITH THE MAIN TANK HALF FULL OR LESS».

Near transfer pump lights:

«TURN TRANSFER PUMPS OFF WHEN LIGHTS ILLUMINATE». Near Auxiliary Fuel Tank Filler

« AUX. FUEL - 100/130 AVIATION GRADE MINIMUM - USABLE 21.5 U.S.G. ».

Near Auxiliary Fuel Tank Drain « AUX. TANK DRAIN ».

#### **SECTION 3 - OPERATING PROCEDURE**

- 1) To transfer fuel from the Auxiliary Tank to the same side main tank:

   Fuel transfer pump switch: ON
- 2) When fuel transfer has been completed the fuel pump transfer lights will illuminate, at that time:
  - Fuel transfer pump switch: OFF

R.A.I. Approval No. 134591/T Date 27-10-1976

page 1 of 2

Section 7
SUPPLEMENT L

#### NOTE 1

To avoid overflow of main tank do not start transfer with main tank more than half full.

#### NOTE 2

The transfer of all usable fuel is ensured only with the airplane in level flight.

#### NOTE 3

If fuel is transferred from only one auxiliary tank, to equalize fuel in main tank use crossfeed.

#### WARNING

Fuel transfer pumps use fuel for lubrication; there in order not to shorten their lives they should be turned off when the transfer lights illuminate.