

PRE-START		RUN-UP		PRE LANDING	
• Pre-flight	CMPL	• Fuel Mixture	• FULL RICH	• B rakes	PRESSURE&OFF
• Park Brake	ON	• Park Brake	ON	• U ndercarriage	!DOWN&LOCKED
• Beacon light	ON	• Throttle	• 1700 RPM	• M ixture	• RICH
• Avionics	OFF	• Ignition R CHECK	≤150 RPM	• F uel	!SELECT BOTH, SUFF QTY
• Circuit Breakers	CHECK	• Ignition L CHECK	≤150 RPM	• I nstruments	CHECK
• Autopilot	OFF	• Ignition R/L	Δ ≤50 RPM	• S witches	AS REQ
• Cowl Flaps	OPEN	• Carb Heat	ON→OFF (RPM drop)	• H atches & H arnasses	CHECK
• Fuel Selector	!BOTH	• Vacuum Gauge	CHECK	AFTER LANDING	
• Throttle Friction	SET	• Np	• CYCLE	• Carburettor Heat	OFF
• <i>If engine is COLD, prime</i>		• Alt. Static	CHECK	• Flaps	RETRACT 0°
• Fuel Primer	STROKE x3	• Idle CHECK	≥600 RPM	• Cowl Flaps	OPEN
• Carburettor Heat	OFF	• Autopilot	CHECK	• Transponder	SDBY
• Throttle	• 10mm OPEN	PRE TAKE-OFF		• Fuel Mixture	• LEAN
• Np	• FULL FINE	• T rim	SET TKOF	• Landing Light	OFF
• Fuel Mixture	• FULL RICH	• M ixture	• FULL RICH	SHUT DOWN	
• Propeller Area	CHECK	• P rop Pitch	• FULL FINE	• Park Brake	ON
• "Clear Prop"	ANNOUNCE	• F light CTRL	FREE, CORRECT	• Trim	SET TKOF
• Master Switch	ON	• F laps	SET TKOF 10°	• Throttle	• MIN RPM
• Starter	ENGAGE	• F uel	!BOTH, QTY, PRIMER LOCK	• Avionics	OFF
AFTER START		• I nstruments	CHECK	• Fuel Mixture	• IDLE CUTOFF
• Oil Pressure	30-100_{psi}	• S witches	AS REQ	• Magnetos	OFF
• Throttle	• 1000 RPM	• H atches & H arnasses	SECURE	• Master Switch	OFF
• Fuel Mixture	• LEAN	• T/O Safety/DEP/TEM	!BRIEF	AFTER SHUT DOWN	
• Avionics	ON	HOLDING READY		• MR	if last FLT of day CLOSE
• NAV Lights	ON	• Lights	STROBE ON	• Hobbs/Tach	REC BOOK
• Transponder	SDBY	• Camera	XPDR 3000 ALT	• Hobbs/Tach	REC OFFICE
• Flaps	VERIFY/RETRACT	• Action	READY, REQ CLR	• Aircraft	SECURE
• Cockpit config	CFM				

EMERG FORCED LDG

- Aviate, Navigate, Comm.
- Best Glide **70KIAS**
- Troubleshoot **F.A.S.T.**
- Fuel primer **LOCKED**
- Fuel selector **BOTH**
- Air **CARB HEAT ON**
- Switches **ON**
- Throttle **CYCLE**
- Turn over **ENGINE START**
- Field **SELECT**
- Wind
- Obstacles
- Size
- Shape
- Surface
- Slope
- Sun
- Shouts
- Surroundings/Buildings
- Communicate **MAYDAY**
- Passenger **BRIEF**
- Aircraft **SECURE**

STALL ENTRY

- Clearing Turn **AS REQ**
- Height **RECOVER ≥3000 AGL**
- Aircraft **CONFIG, TRIM**
- Security **HARNES, OBJECTS**
- Engine **OPS NORMAL, P/T**
- Location **UNPOPUL, FLD AVBL**
- Lookout **TRAFFIC**
- Listen **CHECK FREQ**

SPEEDS & LIMITS

- Vne **176KIAS**
- Vno **141KIAS**
- Va_{2950lb} **110KIAS**
- Va_{2450lb} **100KIAS**
- Va_{1950lb} **89KIAS**
- Vfe_{0-10°} **140KIAS**
- Vfe_{10-40°} **95KIAS**
- Vs0 **48KIAS**
- Vs1 **53KIAS**
- Vx **59KIAS**
- Vy **80KIAS**
- Best Glide **70KIAS**
- Max crosswind_{landing} **20KT**
- Max crosswind_{takeoff} **15KT**
- Load Factor_{cruise} **+3.8G/-1.52G**
- Load Factor_{flaps} **+2.0G**
- Angle of Bank **60°**
- Service Ceiling **17700ft**

FREQUENCIES

- YBAF ATIS **120.90MHz**
- YBAF SMC **119.90MHz**
- YBAF TWR (NORTH) **123.60MHz**
- YBAF TWR (SOUTH) **118.10MHz**
- YBAF CTAF **118.10MHz**
- YBAF AWIS **128.40MHz**
- YBAF PAL **118.10MHz**
- BN CEN Train. **125.70MHz**
- BN CEN 45NM N. **129.00MHz**
- BN CEN 14NM S. **119.50MHz**
- YHEC CTAF **119.00MHz**
- YAMB ATIS **123.30MHz**
- GEN Air Distress **121.50MHz**

ENGINE & FUEL

- Model **Continental 6cyl**
- Max Power **230BHP@2600RPM**
- Max RPM **2600RPM**
- Block Fuel Burn **55L/hr**
- Min VFR Reserve **30min**
- Total Fuel **80.0USG/303.0L**
- Usable Fuel **75.0USG/285.0L**
- Fuel Type **AVGAS100LL**
- Max Oil Temp **116°C/460°F**
- Min Oil QTY **9QT/8.5L**
- Max Oil QTY **12QT/11.3L**
- Min Oil Pressure **10psi**
- Max Oil Pressure **100psi**

VH-TIN

WEIGHT & BALANCE

- MTOW 2950 lb
- MTOW 1338.1 kg
- MLW 2950 lb
- MLW 1338.1 kg
- Max load@full fuel 664.9 lb
- Max load@full fuel 301.72 kg
- Max Area A 120 lb
- Max Area A 54.55 kg
- Max Area B+hatshef 80 lb
- Max Area B+hatshef 36.36 kg
- Max hatshef 25 lb
- Max hatshef 11.36 kg
- BEW 1835.1 lb
- BEW 832.38 kg
- Arm 36.5 in
- Arm 926 mm
- Moment 66908 lb/in
- Moment 770892 kg/mm

MTOW 2950lb example	
Row 1	160 kg
Row 2	160 kg
Area A	(max) 54.55 kg
Area B	(max) 36.36 kg
Fuel	94.81 kg
	131.68 L
	34.86 USG

CRUISE PERFORMANCE

	75% power		65% power		55% power	
Altitude	KTAS	NM/L	KTAS	NM/L	KTAS	NM/L
3000	140	2.63	132	2.89	122	3.11
6500	144	2.74	136	3.00	125	3.18
10000			140	3.08	128	3.26
Standard conditions, nil wind						

		ISA-20 temp (-13°C)			ISA temp (7°C)			ISA+20 temp (27°C)		
RPM	MP	%BHP	KTAS	L/hr	%BHP	KTAS	L/hr	%BHP	KTAS	L/hr
2450	23				77	142	54.0	74	143	52.1
	22	75	138	53.2	73	139	50.9	70	140	49.4
	21	71	135	49.8	69	136	48.3	66	137	46.7
	20	67	132	47.1	65	133	45.2	62	133	44.1
2400	23	78	139	55.1	75	141	52.8	72	142	50.9
	22	74	137	51.7	71	138	49.8	69	139	48.3
	21	70	134	49.0	67	135	47.1	65	136	45.6
	20	66	131	46.0	63	132	44.5	61	132	43.3
2300	23	74	137	51.7	71	138	49.8	69	139	48.3
	22	70	134	49.1	67	135	47.5	65	136	46.0
	21	66	131	46.4	64	132	44.8	62	133	43.3
	20	62	128	43.7	60	128	42.2	58	128	41.0
Pressure Altitude 4000ft @ 2950lb										