

## PRE-START

- Park Brake **ON**
- Circuit Breakers **CHECK**
- Master/Mags **ON**
- Avionics **OFF**
- Fuel Valve **ON/FLUSH**
- Throttle  $\frac{1}{4}$  inch **OPEN**
- Pitch **FULL FINE**

*if engine is COLD, prime*

- Mixture **FULL RICH**
- Electric Pump **ON 3 SECS**
- Mixture **IDLE CUT OFF**
- Electric Pump **OFF**

- Ignition 1/2 **ON**
- "Clear Prop" **ANNOUNCE**
- Starter **ENGAGE**
- Mixture **ADVANCE SMOOTHLY**
- Mixture **LEAN FOR TAXI**

## AFTER START

- Oil Pressure **RISING/GREEN**
- Throttle **1000 RPM**
- Avionics **ON**

### SYMBOLS

- Δ Difference
- | OR
- & AND
- ≤ Less than or equal to
- ≥ Greater than or equal to

## RUN-UP

- Oil Temp **≥120°F**
- Park Brake **ON**
- Throttle **1800 RPM**
- Ignition 1 CHECK **≤200 RPM**
- Ignition 2 CHECK **≤200 RPM**
- Ignition 1/2 **Δ ≤50 RPM**
- Prop Cycle x2 **≤300 RPM**
- Alternate Air **ON→OFF**
- Idle CHECK **≥500 RPM**
- Throttle **1000 RPM**

## PRE TAKE-OFF

- Trim **SET TKOF**
- Mixture **FULL RICH**
- Prop Pitch **FULL FINE**
- Flight CTRL **FREE&CORRECT**
- Fuel **ON&SUFF QTY**
- Instruments **CHECK**
- Switches **AS REQ**
- Hatches & Harnesses **CHECK**

- T/O Safety/DEP/TEM **BRIEF**

## HOLDING READY

- Lights **STROBE ON**
- Camera **XPDR 3000 ALT**
- Action **READY, REQ CLR**

## PRE LANDING

- Brakes **PRESSURE&OFF**
- Undercarriage **DOWN&LOCKED**
- Mixture **FULL RICH**
- Fuel **ON&SUFF QTY**
- Instruments **CHECK**
- Switches **AS REQ**
- Hatches & Harnesses **CHECK**

## AFTER LANDING

- Lights **OFF**
- Flaps & Trim **SET TKOF**

## SHUT DOWN

- Park Brake **ON**
- Trim **SET TKOF**
- Throttle **MIN RPM**
- Avionics **OFF**
- Mixture **IDLE CUT OFF**
- Mags **OFF**
- Master **OFF**

## AFTER SHUT DOWN

- MR **if last FLT of day CLOSE**
- Hobbs/Tach **REC BOOK**
- Hobbs/Tach **REC OFFICE**
- Aircraft **SECURE**

## EMERG FORCED LDG

- Aviate, Navigate, Comm.
- Best Glide **65KIAS**
- Troubleshoot **F.A.S.T.**
- Fuel pump **ON**
- Fuel Valve **ON**
- Air **ALTERNATE AIR ON**
- Switches **MAGS 2xON**
- Switches **MASTER ON**
- Throttle **CYCLE**
- Turn over **ENGINE START**
- Field **SELECT**
- Wind
- Obstacles
- Size
- Shape
- Surface
- Slope
- Sun
- Shoots
- Surroundings/Buildings
- Communicate **MAYDAY**
- Passenger **BRIEF**
- Aircraft **SECURE**

## STALL ENTRY

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

## SPEEDS

- Vne **174KIAS**
- Va (aero) **115KIAS**
- Va (normal) **93KIAS**
- Vno **139KIAS**
- Vs **47KIAS**
- Vx **51KIAS**
- Vy **72KIAS**
- Best Glide **65KIAS**
- Max crosswind **17KT**

## 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**
- Southport CTAF **119.00MHz**
- YAMB ATIS **123.30MHz**
- GEN Air Distress **121.50MHz**

## ENGINE

- Model **Lycoming AE10-360**
- Max RPM **2700RPM**
- Block Fuel Burn **40L/hr**
- Min VFR Reserve **45min**
- Fuel **AVGAS100LL**
- Min Oil Temp **120°F**
- Max Oil QTY **8 QTZ**
- Min Oil QTY **4 QTZ**

## VH-NQX

• Total Fuel Capacity	<b>152L</b>
• Total Fuel Capacity	<b>110kg</b>
• Total Usable Fuel	<b>152L</b>
• Total Usable Fuel	<b>110kg</b>
• Basic Empty Weight	<b>616kg</b>
• Empty Arm	<b>13.3in</b>
• COG Norm. 884kg	<b>14.7-18.5in</b>
• COG Norm. ≤703kg	<b>11.5-18.5in</b>
• COG Aero. 816kg	<b>13.5-18.5in</b>
• COG Aero. ≤703kg	<b>11.5-18.5in</b>
• MTOW Normal Cat.	<b>884kg</b>
• MTOW Aerobatic Cat.	<b>816kg</b>
• Max Baggage Norm.	<b>45kg</b>
• Max LF Norm. 884Kg	<b>+3.8G</b>
• Min LF Norm. 884Kg	<b>-1.52G</b>
• Max LF Aero. 816kg	<b>+6G</b>
• Min LF Aero. 816kg	<b>-5G</b>
• Max endurance	<b>3.8 hours</b>
• Max range	<b>418NM</b>
• Service ceiling	<b>16000ft</b>
• Propeller	<b>Hartzell HC-C2YR ø1930mm</b>
• Max Inverted Time*	<b>2 min</b>
• Tail Slides/Lomcevaks	<b>N/A</b>

\*One minute upright time is required to fill header tank