

**Before Starting Engine**

- 1) Preflight complete, documents on board, headset, briefing
- 2) Seat Belts/Shoulder Harness – ADJUSTED
- 3) Fuel Selector Valve – ON
- 4) Radios and Electrical Equipment – OFF
- 5) Door – CLOSED & LOCKED

**Starting the Engine**

- 1) Alternate air – COLD
- 2) Throttle – Open ¼ inch
- 3) Master Switch – ON
- 4) Magnetos – ON
- 5) Prime Engine for Start
  - Engine Cold – Mixture RICH, Fuel Pump ON (max. 2 sec.)
  - Engine Hot – No priming needed
- 6) Mixture – IDLE CUTOFF
- 7) Control Stick – FULL AFT (“stick coming back”)
- 8) Brakes – Test firm and HOLD
- 9) Propeller Area – “CLEAR”
- 10) Starter – ENGAGE (max. 10 sec.), release after engine fires
- 11) Mixture – RICH before engine quits
- 12) Throttle – Set 800-1000 RPM
- 13) Oil Pressure – Check GREEN within 30 seconds
- 14) Mixture – LEAN almost to idle cutoff (observe slight rpm rise)
- 15) Ammeter – Check
- 16) Radio & Beacon – ON (RHV ATIS 125.20, Ground 121.65)
- 17) Transponder – ALT & 1200

**Run-up**

- 1) Tailwheel straight, brakes held tight
- 2) Flight Controls – Check (full box with stick & rudder deflection)
- 3) Trim – SET FOR TAKEOFF (stick back, trim flush with elevator)
- 4) Instruments – CHECK & SET, Altimeter set to field elevation
- 5) Fuel – CHECK QUANTITY, Fuel valve ON, Fuel pump OFF
- 6) Door & Window – CLOSED & LATCHED
- 7) Mixture Rich; Stick Back; Throttle to 1800 RPM
- 8) Engine Instruments and Ammeter – CHECK
- 9) Magnetos – CHECK (100 RPM maximum drop)
- 10) Alternate Air – CHECK (Hot, observe RPM decrease, Cold)
- 11) Throttle to IDLE (600-900 RPM), then 1000 RPM
- 12) Takeoff Briefing – COMPLETE
- 13) Transponder – ALT & squawk code
- 14) Radios – RHV Tower 119.80

**Before Take-off**

- 1) Lights – Beacon/Strobes ON (Nav & Landing at sunset)
- 2) Trim – SET FOR TAKEOFF
- 3) Alternate Air – COLD
- 4) Mixture – Full RICH or as needed for density altitude
- 5) Electrical fuel pump – ON

**Climb**

- 1) Climb – Full Power – 80 mph
- 2) Fuel pump – OFF above pattern altitude
- 3) Mixture – Lean slightly above 3000’

**Cruise**

- 1) Throttle – 2300 RPM (75% power or less)
- 2) Mixture – Lean for altitude

**Before Landing**

- 1) Radio – RHV ATIS 125.20, TWR 119.80, GND 121.65
- 2) Fuel valve – ON
- 3) Mixture – RICH or as needed for density altitude
- 4) Fuel pump – ON, check fuel quantity
- 5) Lights – Beacon/Strobes ON (Nav & Landing at sunset)

**After Landing**

- 1) Fuel pump – OFF
- 2) Lights – OFF/ON as needed
- 3) Trim – Takeoff position
- 4) Alternate Air – COLD
- 5) Mixture – Lean for taxi
- 6) Transponder – ALT & 1200, Contact Ground for taxi

**Shutdown**

- 1) Engine – 1000 RPM
- 2) Radios and Electrical switches - OFF
- 3) Mixture – LEAN all the way out
- 4) Master Switch – OFF
- 5) Magnetos – OFF

**Securing Aircraft**

- 1) Tailwheel straight & locked, wheels chocked, wings & tail tied down
- 2) Controls secure – Lap belt around forward control stick only
- 3) Sunshades – Installed (silver side out)
- 4) Record Hobbs & Tach in aircraft binder
- 5) Double check all electrical switches & master OFF
- 6) Check aircraft into Paperless FBO