

Take Off

Throttle.....**Full Forward**
 Rotate.....**55 - 60 Kts**
 Flaps.....(above 200 AGL) **Up**
Vx 64 Kts.....**Vy 76 Kts**
 Engine InstrumentsCheck in **Green**

Cruise

Throttle..... (or other suitable RPM).....**2400 RPM**
 Fuel Pump.....**Off**
 Mixture**Lean to Rich of Peak**
 Fuel Selector.....Desired Tank

Descent / Approach & Landing

Fuel Pump**On**
Fuel Selector**Fullest Tank**
Mixture.....**Full Rich**
 Landing Light.....**On**
 Position Feet**OFF Brakes**
Downwind...GUMPS... 1700 RPM..... 10° Flaps.....90 Kts
Base.....GUMPS.....25° Flaps80 Kts
Final.....GUMPS.....40° Flaps (if desired).....70 Kts

After Landing

Exit Runway.....Flaps **Up**
 Fuel Pump.....**Off**
 MixtureLean as required

Shut Down

Avionics Switch**Off**
 Throttle.....**Full Off**
Mixture**Idle Cut Off**
Master**Off**
Mags OffSwitches **Off**,**Key Out**

Pre-Flight Inspection

AROW (Air W, Reg, ELT, AD's, Static/Transponder, W&B)**Check**

Cabin

Master Switch**On**
 Fuel Gauges.....**Check**
 Turn Coordinator.....Listen for Gyro Sound
 Lights, Pitot Heat, **ON**, (Stall Warning)Walk around and Check
 Master Switch & Lights**Off**
 Pitot Static Drain.....**Check**
 Fuel Selector.....Switch Off, then to Fullest
 Flaps.....**Down**

Right Wing

Flap, Aileron, Lights, Leading edge,.....**Check Condition**
 Tire, Strut, Wheel Pants.....**Check Leaks/Condition**
 Fuel Drain (Take full Sample)**Check Color/Contamination**
 Fuel Vent**Check Open**
 Fuel Tank – 24 Gals Max**Check Quantity**

Engine Compartment / Propeller

Oil Level Only fill to **7 qts.**Add if below **6 qts**
 Engine Compartment**Check for Leaks, Condition**
 Alternator Belt**Check Tension**
 Prop and Spinner**Check Condition**
 Tire, Strut, Wheel Pants.....**Check Leaks/Condition**
 Air Intake**Clean & Not Blocked**
 Fuel Drain (Take full Sample)**Check Color/Contamination**

Left Wing

Tire, Strut, Wheel Pants**Check Condition**
 Fuel Drain (Take full Sample)**Check Color/Contamination**
 Fuel Tank – 24 Gals Max**Check Quantity**
 Fuel Vent**Check Open**
 Pitot/Static Head**Holes Clear**
 Leading edge, Lights, Aileron, Flap,.....**Check Condition**

Fuselage / Empennage

Antennas**Secure**
 Stabilator, Anti Servo Tab, & Rudder.....**Check Condition**
 Baggage Door**Secure**

Before Starting Engine

Tow BarRemoved & Stowed
 Parking BrakeEngage
 Seat Belt & Passenger Briefing.....Complete
 Avionics Switch.....Off
 Master SwitchOn
 Beacon / Anti Collision SwitchOn
 Fuel Pump.....On – Check Pressure – Off

Cold Engine (Normal Start)

Carb HeatOff
 Throttle¼ Inch Open
 MixtureFull Rich
 AreaClear
 Prime4-6 Summer, 6-8 Winter
 Key Switch StarterEngage
 Oil PressureCheck in Green

Flooded Start

ThrottleFull Open
 Mixture.....Idle Cut-Off
 AreaClear
 Key Switch Starter.....Engage
 When Engine Starts.....Mixture Full Rich and Throttle Retard
 Oil PressureCheck in Green

Taxi

Avionics Switch.....On
 GPS.....Acknowledge Initial Screen with Enter Key
 TransponderCode Set, ALT
 MixtureLean as required
 Parking BrakeRelease
 Brakes & SteeringTest Operation
 Flight Instruments (Turn Coord, HI, AI, Compass)....Check Operation

Run-Up Checklist

Parking Brake.....Set
 Flight ControlsFree and Correct
 MixtureFull Rich
 Throttle.....2000 RPM
 Magnetos(175 Max Drop, 50 Diff.) Check
 Carb Heat.....(50 RPM Max Drop) Cycle
 Vacuum.....(4.5 to 5.5 Hg) Check
 AmmeterAdd a Load – Check Ammeter Rise
 Engine Gauges (Oil Press & Temp, Fuel Press, etc).....Check in Green
 Annunciator LightsPress to Test
 Throttle Full OFF (To Check Idle Then Set)...800–1000 RPM
 Circuit BreakersCheck In
 Lights - (NAV, Landing, Panel).....As Required
 Heading Indicator.....Check & Set
 Altimeter.....Check & Set
 Attitude Indicator.....Check & Set
 Radios & GPS (Frequencies, Data Fields).....Set

Before Each Take-Off

MixtureFull Rich
 Fuel PumpON
 FlapsAs Required
 Trim.....Set
 Door, Window, Seat BeltsLatched and Locked

Engine Failure - Emergency Checklist

Squawk 7700

Best Glide **76 kts** **Locate** Landing **Switch Fuel** Tanks Fuel Pump **On**
 Mixture **Rich** Carb Heat **On** Mags. **L&R** Primer **IN**

Emergency Landing Checklist:

Throttle **Off** Mixture **Idle Cutoff** Mag Switch **Off** Master **Off**
 Fuel Tanks **Off** Belts **Tight** Door **Unlatch** Land **Soft**