

Exterior Inspection

Check Fuel for water

Charts out

Door latched—Listen for click

Seat Belts

Fuses

Avionics off

Trim for takeoff

Fuel Selector—SET

Pre-Start

Prime—feel resistance then
one more and $\frac{1}{2}$ turn.

Throttle $\frac{1}{4}$ "

Fuel pump—ON

Rotating Beacon—ON

Feet on brakes—not soft

Mags—Both

Master—ON

Start

Note Time

Clear

Push Starter

10 sec max

20 sec cool down

1000 RPM

Oil Pressure—30 sec max

Fuel Pump—OFF

Lean Aggressively

Pre-Taxi

Radios—ON

Transponder—Standby & 1200

Get ATIS

Set Altimeter and verify with
field elevation

Check oil and engine temps

Marker Beacon Check

Ground Frequency in Comm

Tower in Standby

Call w/ location & ATIS for taxi

Taxi

Test brakes - 3' and stop

Controls free & correct

Position controls for wind

Set DG

In Turns

Check ball and TC

Check HI

Set Transponder if required

Runup

Feet on brakes

Throttle 1800 RPM

Suction in green 5"

Magnetos

175 RPM Max drop

50 RPM Max difference

Pull Carb Heat—slight RPM drop

Check oil temp and pressure

Check engine temp

GPS/VORs set if required

Radios—Tower and Approach

Pre-Takeoff

Set Flaps

Mixture—RICH

Lights, Camera, Action

Landing Light & Strobe

Transponder—Alt

Fuel Pump—ON

Check for traffic

Flaps

Normal 0°

High Alt 10°

Short Field 20°

Takeoff

Verify Heading matches runway

Slight Back Pressure

Ailerons for wind, Right Rudder

Airspeed alive, RPM max

Lift nose 50-60 MPH

Climb 85 MPH

Flaps up—Rate-of-Climb pos

Pattern Alt

Boost Pump—OFF

Reduce Throttle

Cruise Climb—100 MPH

Climb

Airspeed 100 MPH

Check Temps

Scan aggressively

Cruise

Lean

Landing Light—OFF

Check Heading Indicator

Check Temps

Change Tanks every ½ Hour

Pre-Landing

C-FARTS

- Compass and HI
- Fuel Selector—Most
- ATIS
- Runway in use
- Traffic Pattern Alt
- Safety
- Lights
- Seat Belts
- Loose Items

Landing

B-RAAGS at all pattern positions

- Boost Pump—ON
- Report—when req'd
- Airspeed
- Altitude
- Gear
- Scan Aggressively

1st Notch 115 MPH MAX

2nd Notch 112 MPH MAX

3rd Notch 109 MPH MAX

Pattern Airspeeds and Power Settings

Downwind	- 1700 RPM and 100 MPH
Numbers	- 1500 RPM and 90 MPH 1 Notch of Flaps
Base	- 1500 RPM and 80 MPH 2 Notches
Final	- 1500 RPM and 70 MPH 3 Notches
Threshold	- Idle and 70 → 55 MPH

Landing—On Runway

Flaps—UP

Ailerons into wind

Landing—Off Runway

Boost Pump—OFF

Lean

Landing Light—OFF

Transponder—OFF

Contact Ground with Position

Shutdown

1200 RPM

Avionics—OFF

Mixture, Master, Mags

Keys on Dash

Hot Start

Throttle ½"

Master—ON

Boost Pump—ON

Mixture—Idle Cutoff

Engage Starter

When engine fires, advance Mixture

Retard throttle to 1000 RPM

Check Oil Pressure

Lean Aggressively

Speeds—MPH

V_X 74

V_Y 85

V_A 129 Heavy

V_A 108 Very Light

V_{NE} 171

Normal 65-140

V_{S0} 55

V_{S1} 64

V_{FE} 115