Exterior Inspection Checked Fuel for Water? Passenger Briefing Check GPS signal on iPad Door latched—Listen for click Seat Belts and Harnesses Fuses and Breakers Avionics—OFF Trim for Takeoff

Fuel Selector—SET

Controls Free

Rotating Beacon—ON

Pre-Start
Master—ON
Boost Pump—On
Prime—feel resistance then
one more and ½ turn.

Mixture In Throttle 1/4"

Feet on brakes—not soft

Mags—Both

Check fuel levels

Pre-Taxi
Radios-ON
Transponder—ON & 1200
Get ATIS
Set Altimeter and verify with
field elevation
Check oil and engine temps
Check Marker Beacon
Ground Frequency in Comm
Tower in Standby
Call Gnd w/ location & ATIS

Taxi

Ask for Flight Following Set Transponder

Position controls for wind Set DG

In Turns Check ball and TC

Check HI

Runup

Oil Temp in Green

Throttle 1800 RPM Suction in Green 5"

Magnetos

175 RPM Max drop

50 RPM Max difference

Carb Heat—slight RPM drop Check ammeter

Check oil pressure

GPS/VORs set if required

Radios—Tower & Approach

Pre-Takeoff	Takeoff
Set Flaps	Verify Heading = Runway
Fuel Pump—ON	Slight Back Pressure
Hand on Mixture	Ailerons for wind
Call for clearance	Airspeed alive, RPM max
Mixture in	Lift nose 50-60 MPH
Check for traffic	Right Rudder
	Climb 85 MPH to Pattern Alt
Flaps	Flaps up when +climb rate
Normal 0°	Pattern Alt
High Alt 10°	Boost Pump—OFF
Short Field 20°	Throttle to top of green

Climb Airspeed 100 MPH Check Temps Scan aggressively Adjust RPM as you climb Lean over 3,000' Cruise Lean for cruise Trim Check Heading Indicator Check Temps Change Tanks every ½ Hour

Pre-Landing C-FARTS Compass and HI ATIS

Fuel Selector—Most

Runway in use

Traffic Pattern Alt Safety

Lights

Seat Belts

Loose Items

Gear

Scan Aggressively

2nd Notch 112 MPH MAX 3rd Notch 109 MPH MAX

1st Notch 115 MPH MAX

Airspeed

Altitude

Report—when reg'd

Boost Pump—ON

B-RAAGS

Landing

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

Short Final - 1500 RPM and 70 MPH 3 Notches

Numbers - Idle and 70 → 55 MPH

Landing—On Runway Flaps—UP

Ailerons into wind

Landing—Off Runway Boost Pump—OFF

I ean

Contact Ground w/ Position

Shutdown

Avionics—OFF 1800 RPM Mag check 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_v 85

V_A 129 Heavy

V_A 108 Very Light

V_{NE} 171

V_{SO} 55 V_{S1} 64

V_{S1} 64 V_{FF} 115

Best Glide 83

V_X and V_Y are at gross weight less if light

less if light