



INSIDE CABIN

1. Preflight preparation.....complete
2. Control lock.....remove
3. Ignition switch.....off
4. Master switch.....on
5. Fuel quantity.....check
6. Beacon light.....check
7. Flaps.....extend
8. Master switch.....on/off
9. Fuel shutoff valve.....on

OUTSIDE CABIN

1. Tail town down.....disconnect
2. Control surfaces.....free/secure
3. Flap.....check
4. Aileron.....free/secure
5. Wing.....inspect
6. Wing tie down.....disconnect
7. Main gear.....check
8. Fuel sump.....drain
9. Fuel.....check
10. Engine oil.....check (4 qts. min)
11. Fuel drain.....pull
12. Prop/spinner.....check
13. Air inlets.....check
14. Air filter.....check
15. Alternator belt.....check
16. Nose gear.....check
17. Static port.....check
18. Windshield.....check
19. Fuel.....check
20. Main Gear.....check
21. Pitot tube.....check
22. Stall warning.....check
23. Fuel vent.....check
24. Wing tie down.....disconnect
25. Wing.....inspect
26. Aileron.....free/secure
27. Flap.....check
28. Fuel sump.....drain

BEFORE STARTING ENGINE

1. Preflight.....complete
2. Seats/seat belts.....adjusted
3. Fuel shutoff valve.....on
4. Avionics master/electrical.....off
5. Circuit breakers.....in
6. Brakes.....set

STARTING ENGINE

1. Mixture.....rich
2. Carb heat.....cold
3. Prime.....as required
4. Throttle..... $\frac{1}{4}$ " open
5. Prop area.....clear
6. Master switch.....on
7. Ignition switch.....look outside/start
8. Throttle.....800-1000 rpm
9. Oil Pressure.....check
10. Mixture.....lean for taxi

TAXI

1. ATIS/AWOS.....monitor
2. Beacon.....on
3. Flaps.....retracted
4. Audio panel.....set
5. Com and nav. radios.....set
6. Transponder 1200.....STBY
7. Brakes.....check

RUN UP

1. Brakes.....set
2. Cabin doors/windows.....secure
3. Flight controls.....free/correct
4. Primer.....in and locked
5. Mixture.....rich
6. Throttle.....1700 RPM
7. Carb heat.....check RPM drop
8. Magnetos.....check left/right
9. Engine instruments.....check
10. Ammeter.....check
11. Suction gauge.....check
12. Throttle.....800-1000 RPM
13. Attitude indicator.....set
14. Directional gyro.....set
15. VSI.....check
16. Altimeter.....set

BEFORE TAKEOFF

1. Fuel shutoff valve.....on
2. Mixture.....rich
3. Trim.....set
4. Ignition switch.....both
5. Lights.....as require
6. Transponder.....on/ALT
7. Self brief.....for power loss
8. Radio call/clearance...as required

NORMAL TAKEOFF

1. Flaps.....up
2. Carb heat.....cold
3. Throttle.....full open
4. Rotate.....50 KIAS
5. Climb speed.....65-75 KIAS

SHORT FIELD TAKEOFF

1. Flaps.....10°
2. Carb heat.....cold
3. Rolling.....onto runway
4. Throttle.....full open on roll
5. Brakes.....release
6. Elevator.....aft pressure
7. Climb speed.....54 KIAS to 50'
8. Flaps.....retract thru 60 KIAS

SOFT FIELD TAKEOFF

1. Flaps.....10°
 2. Carb Heat.....cold
 3. Rolling.....onto runway
 4. Throttle.....full open on roll
 5. Elevator.....Aft to lift nose
- Stay in ground effect until V_Y or V_X

CLIMB

1. Flaps.....up
2. Airspeed.....70 – 80 KIAS
3. Throttle.....full open
4. Mixture.....as required
5. Lights.....as required
6. Engine instruments.....monitor

CRUISE

1. Power.....set
2. Trim.....adjust
3. Mixture.....as required

APPROACH – 10 MILES

1. Seats/Belts/Harnesses...adjusted
2. Mixture.....rich
3. Power.....as required
4. Lights.....as required
5. ATIS/AWOS.....monitor

BEFORE LANDING

1. Seats/Belts/Harnesses...adjusted
2. Mixture.....rich
3. Carb heat.....on

NORMAL LANDING

1. Power.....as required
2. Flaps.....as desired < 85 KIAS
3. Airspeed.....60 – 70 KIAS
4. Braking.....Min required

SHORT FIELD LANDING

1. Power.....as required
2. Flaps.....30°
3. Airspeed.....54 KIAS
4. Touchdown....Main wheels first
5. Brakes.....apply heavily
6. Flaps.....retract

SOFT FIELD LANDING

1. Power.....as required
2. Airspeed.....60-65 KIAS
3. Flaps.....30°
4. Touchdown.....Nose high
5. Power.....as required

AFTER LANDING

1. Runway.....clear
2. Flaps.....up
3. Carb heat.....cold
4. Lights.....as required
5. Transponder.....STBY
6. Flight plan.....closed

SHUTDOWN & SECURING

1. Avionics.....off
2. Lights/electrical.....off
3. Mixture.....idle cut off
4. Ignition switch.....off
5. Master.....off
6. Control lock.....install
7. Tie downs.....secure