

INTERIOR

1. HOBBS & TACH Time..... Note
2. Documents (AROW)..... On Board
3. Control Lock Remove
4. Avionics Power Switch.....OFF
5. Ignition Switch.....OFF
6. MASTER Battery Side Only..... ON
7. Fuel Gauges Check
8. Flaps Down
9. Alternate Static Source.....OFF
10. Circuit BreakersIn
11. MASTER SwitchOFF

EXTERIOR

1. Left Fuel Sump Drain
2. Left Main Gear..... Check
3. Left Fuselage Check
4. Baggage Door Closed
5. Empennage..... Check
6. Tail Tie Down Remove
7. Right Fuselage Check
8. Right Flap and Aileron..... Check
9. Right Wing..... Check
10. Right Tie Down..... Remove
11. Right Main Gear Check
12. Right Fuel Sump Drain
13. Right Fuel Tank Quantity Check
14. Oil Level (5-7qts)..... Check
15. Fuel Strainer..... Drain
16. Belly Sump..... (If equipped) Drain
17. Cowling/Prop Check
18. Nose Wheel Assembly Check
19. Static Port..... Clear
20. Left Fuel Tank Quantity..... Check
21. Left Tie Down..... Remove
22. Pitot Tube/Fuel Vent/Stall Slot..... Clear
23. Left Wing Check
24. Left Aileron and Flap..... Check
25. General Walk around Complete
26. Windscreen Clean

**ENGINE FAILURE
DURING TAKEOFF RUN**

1. **Throttle** **Idle**
2. **Brakes** **Apply**
3. Mixture..... Idle Cut- OFF
4. Ignition Switch..... OFF
5. MASTER Switch OFF

IMMEDIATELY AFTER TAKEOFF

1. **Airspeed (Flaps Up/Flaps 10°)** **65/60 KIAS**
2. Mixture..... Idle Cut- OFF
3. Fuel Selector Valve..... OFF
4. Ignition Switch..... OFF
5. Flaps..... As Required
6. MASTER Switch OFF

DURING FLIGHT

1. **Airspeed** **65 KIAS**
2. **Carb Heat** **ON**
3. **Throttle** **Adjust**
4. **Mixture** **Rich**
5. **Fuel Selector Valve** **BOTH**
6. Primer..... In and Locked
7. Ignition Switch..... Left/Right/Both
.....(Start if Propeller Stopped)

FORCED LANDING

1. Airspeed (Flaps Up/Flaps Down)65/60 KIAS
2. Mixture..... Idle Cut OFF
3. Fuel Shutoff Valve..... OFF
4. Ignition Switch..... OFF
5. Flaps as Required (Full Recommended)
6. MASTER Switch OFF
7. Door Unlatch
8. Seatbelts & Harnesses..... Tight
9. Touchdown Tail Low
10. Brakes Apply Heavily

V-SPEEDS

- | | |
|-------------------|----------------------|
| Vs0..... | 33 KIAS |
| Vsl..... | 44 KIAS |
| Vr..... | 50-55 KIAS |
| Vx..... | 60 KIAS |
| Vy..... | 76 KIAS |
| Vfe..... | (10-30°) 85 KIAS |
| Vfe..... | (0-10°) 110 KIAS |
| Va..... | (2000 lbs.) 92 KIAS |
| Va..... | (2400 lbs.) 99 KIAS |
| Vno..... | 127 KIAS |
| Vne..... | 158 KIAS |
| Minimum Sink..... | (Estimated) 50 KIAS |
| Best Glide..... | Flaps Down - 60 KIAS |
| Best Glide..... | Flaps Up - 65 KIAS |

STARTING ENGINE

1. Seats/Belts/Harnesses/Doors.....Set & Secured
2. Brakes Test & Set
3. Fuel Selector Valve..... Both
4. Mixture..... Rich
5. Throttle.....Idle to 1/8"
6. Carb Heat Cold
7. Landing & Taxi LightOFF
8. Beacon..... On
9. Nav Lights..... On
10. Prop Area Clear
11. MASTER Battery Side Only..... On
12. Prime2-6 strokes, none if engine is warm
13. Ignition Switch..... Start
14. Throttle..... 1000 RPM
15. Oil Pressure Check
16. MASTER Alternator Side On
17. Ammeter Charging
18. Avionics Power Switch..... On
19. Flaps Up
20. TransponderCode Set & ALT
21. Radios & GPSSet

DURING TAXI

1. RPM800 RPM or Less
2. Minimum Braking!
3. Aileron/Elevator Position for Wind Conditions

BEFORE TAKEOFF

1. Nose Wheel..... Straight
2. BrakesSet
3. Throttle..... 1000 RPM
4. Flight Controls Free & Correct
5. Altimeter & Heading IndicatorSet
6. Fuel Selector Valve..... Both
7. Trim.....Set
8. Mixture..... Rich
9. Throttle..... 1700 RPM
10. Magnetos.....Check

Max Drop 125 RPM

Max Differential 50 RPM

11. Carb Heat On/ Check/ OFF
12. Ammeter Check
13. Oil Pressure & Temperature Check
14. Suction Check
15. Throttle..... 1000 RPM
16. Throttle Friction Lock Adjust
17. Avionics Set
18. TransponderSFRA Code Set & ALT
19. Flaps..... 0° or 10°
20. Landing/Strobes/Nav Lights ON
21. Doors/Windows Closed/Locked
22. Brakes Release

Abbreviated Checklist

NORMAL TAKEOFF

1. Rotate 50-55 KIAS
2. Climb..... V_x 60/V_y 76 KIAS
3. 1000 ft. AGL [Cruise Climb] 70-85 KIAS

CRUISE CHECKLIST

1. Cruise Power..... Set
2. Mixture..... Lean as Required
3. Heading Indicator Set to Magnetic Compass

DESCENT & BEFORE LANDING

1. Landing light..... On
2. Seats/Belts/Harnesses Set & Secured
3. Mixture..... Rich
(Downwind)
4. Carb Heat On
5. Power Decrease

NORMAL LANDING

1. Airspeed 65-75 KIAS (Flaps Up)
2. Flaps..... Below 85 KIAS
3. Airspeed 60-70 KIAS (Flaps Down)
4. Touchdown Main Wheels First
Lower Nose Wheel Gently
5. Braking..... Minimum Required

SHORT FIELD LANDING

1. Airspeed 60-70 KIAS (Flaps Up)
2. Flaps..... 30° (Below 85 KIAS)
3. Airspeed Maintain 56 KIAS
4. Power Reduce to Idle
.As Obstacle is Cleared
5. Touchdown Main Wheels First
6. Flaps..... Retract
7. Brakes Apply Heavily

AFTER LANDING

1. Carb Heat OFF
2. Flaps..... Up
3. TrimSet for Takeoff
4. Strobe & Landing Light (If Parking) OFF

SHUTDOWN & SECURING AIRPLANE

1. Throttle..... 1000 RPM
2. Exterior/Interior Lights (Except Beacon & Nav). OFF
3. Avionics Power Switch..... OFF
4. Mixture..... Idle Cut-OFF
5. Master Switches OFF
6. Ignition Switch (Key) OFF
7. Control Lock Install
8. Seatbelts Secure
9. HOBBS & TACH Time Note
10. Aircraft Chock & Tie Down
11. Cowl Plugs Install
12. Post flight walk around Complete
13. Key & Clipboard Return to Office
14. Call Potomac Pattern Work Complete