

**INTERIOR**

1. Parking Brake..... **AS REQUIRED**
2. Required Documents..... **CHECK**
3. Control Wheel Lock.....**REMOVE**
4. Ignition and Master Switch.....**OFF**
5. Beacon ..... **CONFIRM ON**
6. Tach/Hobbs & Squawks .....**RECORD & CHECK**
7. Avionics Power Switch..... **OFF**
8. Master Switch (Propeller Clear) .....**ON**
9. Fuel Gauges.....**CHECK**
10. Flaps (Area Clear) .....**DOWN**
11. Lights for Night Operation..... **CHECK**
12. Master Switch.....**OFF**
13. Fuel Selector ..... **BOTH**

**EXTERIOR**

1. Left Fuel Tank ..... **QUANT CHECK & SUMP**
2. Right fuel Tank..... **QUANT CHECK & SUMP**
3. Engine ..... **SUMP & RETURN**
4. Oil Level (min 5 qts.) ..... **CHECK**
5. Baggage Door ..... **CHECK AND LOCK**
6. Left Side Fuselage ..... **CHECK**
7. Rudder Gust Lock..... **REMOVE**
8. Tail Tie-Down.....**REMOVE**
9. Tail Control Surfaces/Nav Light/Beacon .... **CHECK**
10. Right Side Fuselage..... **CHECK**
11. Right Wing Flap ..... **CHECK**
12. Right Wing Aileron..... **CHECK**
13. Right Wing Nav Light ..... **CHECK**
14. Right Wing Tie-Down ..... **REMOVE**
15. Right Tire and Brake Assy..... **CHECK**
16. Cowling ..... **SECURE**
17. Nose Wheel Assembly..... **CHECK**
19. Propeller & Spinner..... **CHECK**
19. Alternator Belt..... **CHECK**
20. Landing Light..... **SECURE & CLEAN**
21. Carburetor Air Filter.....**CHECK**
22. Static Port.....**CHECK CLEAR**
23. Pitot Tube Cover..... **REMOVE & CHECK**
24. Stall Warning Vent.....**CLEAR**
25. Fuel Tank Vent..... **CLEAR**
26. Left Wing Tie-Down..... **REMOVE**
27. AOA Cover..... **REMOVE**
28. Left Wing Nav Light ..... **CHECK**
29. Left Wing Aileron..... **CHECK**
30. Left Wing Flap..... **CHECK**
31. Left Tire and Brake Assy..... **CHECK**
32. Final Walk Around.....**CHECK**

**BEFORE STARTING ENGINE**

1. Exterior Preflight ..... **COMPLETE**
2. Seats, Belts, Shoulder Harness... **ADJUST & LOCK**
3. Fuel Selector .....**BOTH**
4. Circuit Breakers ..... **CHECK**
5. Brakes ..... **TEST & SET or HOLD**

**STARTING ENGINE**

1. Mixture.....**RICH**
2. Carburetor Heat ..... **PUSH COLD**
3. Propeller Area ..... **VISUALLY CLEAR**
4. Master Switch..... **ON**
5. Beacon ..... **CONFIRM ON**
6. Prime ..... **AS REQUIRED then LOCKED**
7. Throttle ..... **OPEN 1/8 INCH**
8. Propeller Area ..... **VERBALIZE " CLEAR"**
9. Ignition Switch ..... **START**
10. Oil Pressure/Amps/ Light.....**CHECK**
11. Mixture ..... **LEAN 1" or AS REQUIRED**
12. Flaps.....**UP & OFF**
13. Avionics Master ..... **ON**
14. Transponder..... **ON/ALT**
15. Navigation Lights ..... **ON**
16. Landing/Taxi Lights ..... **ON**
17. Compass ..... **CHECK**
18. Altimeter ..... **SET**
19. Radio Check ...**Verify Active Radio & Frequency**

**BEFORE TAKEOFF**

1. Parking Brake.....**AS REQUIRED**
2. Cabin Doors & Windows... **CLOSED & LOCKED**
3. Flight Controls.....**FREE & CORRECT**
4. Elevator Trim..... **TAKEOFF**
5. Fuel Selector ..... **BOTH**
6. Throttle.....**1700 RPM**
  - a. Magnetos...**CHECK: LEFT/BOTH/RIGHT/BOTH**  
**<125 RPM DROP**  
**<50 RPM DIFFERENCE**
  - b. Carburetor Heat ..... **CHECK RPM DROP/RISE**
  - c. Engine Instruments/Ammeter/Light ..... **CHECK**
  - d. Suction Gauge... (4.5 or greater)..... **CHECK**
  - e. Low Idle & Carb Heat ..... **CHECK & COLD**
7. Flight Instruments ..... **SET**
8. Radios & Navigation ..... **SET**
9. Throttle Friction ..... **ADJUST**
10. Wing Flaps..... **NORMAL TAKEOFF=UP**  
**SHORT TAKEOFF=UP**  
**SOFT=10 DEGREES**
11. Transponder ..... **ALT/CODE SET**
12. Mixture (below 3000 feet) ..... **RICH**

**NORMAL TAKEOFF**

1. Wing Flaps.....**UP**
2. Carburetor Heat ..... **PUSH COLD**
3. Brakes ..... **RELEASE**
4. Throttle..... **FULL POWER & CHK ENGINE**
5. Elevator Control ..... **LIFT NOSE @ 60 MPH**
6. Climb Speed .....**65 (Vx) to 80 (Vy) MPH**

**ENROUTE CLIMB**

1. Airspeed.....**80 MPH**
2. Throttle.....**FULL**
3. Mixture...**FULL RICH - (lean above 3000 feet)**

## CRUISE

1. Power ..... **2200 TO 2700 RPM**  
(Not more than 75%)
2. Elevator Trim..... **ADJUST**
3. Mixture..... **LEAN**

## DESCENT

1. Fuel Selector.....**BOTH**
2. Mixture.....**FULL RICH**
3. Carb Heat..... **AS REQUIRED**
4. Throttle.....**AS REQUIRED**

## BEFORE LANDING

1. Fuel Selector..... **BOTH**
2. Mixture..... **FULL RICH**
3. Carburetor Heat ..... **PULL ON**
4. Landing Lights ..... **ON**
5. Airspeed ..... **70 TO 80 (FLAPS UP)**
6. Wing Flaps.**A/S BELOW 100MPH AS REQUIRED**
7. Airspeed ..... **65 to 75 MPH w/ FLAPS DOWN**

## NORMAL LANDING

1. Touch Down.....**MAIN WHEELS FIRST**
2. Landing Roll...**LOWER NOSE WHEEL GENTLY**
3. Braking.....**MINIMUM REQUIRED**

## AFTER LANDING (clear of runway)

1. Fuel Selector.....**CHECK**
2. Elevator Trim..... **INDEX**
3. Carburetor Heat..... **PUSH COLD**
4. Wing Flaps.....**UP/OFF**
5. Fuel Quantity ..... **CHECK**
6. Strobe & Landing Lights..... **AS REQUIRED**

## SECURING AIRCRAFT

1. Parking Brake..... **AS REQUIRED**
2. Avionics..... **OFF**
3. Mixture..... **IDLE CUT OFF**

### AFTER PROP STOPS:

4. Ignition Switch ..... **OFF/REMOVE KEY**
5. Master Switch.....**OFF**
6. Fuel Selector ..... **LEFT or RIGHT**
7. Control Lock.....**INSTALL**
8. Tach/Hobbs & Squawks ..... **RECORD**
9. Re Fuel ..... **AS NECESSARY**
10. Tie Down/Chock.....**AS NECESSARY**
11. Post Flight Inspection.....**COMPLETE**

## BALKED LANDING – (Go-Around)

1. Throttle.....**FULL**
2. Carburetor Heat ..... **PUSH COLD**
3. Wing Flaps.....**20 DEGREES**
4. Airspeed.....**65 MPH**
5. Climb to Clear Obstacles.....
6. Wing Flaps.....After clearing obstructions.  
..... **RETRACT SLOWLY**

## SHORT FIELD TAKE-OFF

1. Wing Flaps.....**0 DEGREES**
2. Carburetor Heat.....**PUSH COLD**
3. Brakes.....**APPLY**
4. Throttle.....**FULL POWER**
5. Brakes.....**RELEASE**  
**ACCELERATE TO 60 MPH**
6. Climb at Vx (65 MPH) .....  
**UNTIL CLEAR OF OBSTACLE**
7. Climb Speed.....**80 MPH**

## SHORT FIELD LANDING

1. Approach.....**SAME AS NORMAL LANDING**
2. On Final.....**POWER IDLE**
3. Flaps.....**40 DEGREES**
4. Airspeed.....**65 MPH**
5. Touchdown .....**MAIN WHEELS FIRST**
6. **Lower Nose Wheel Gently & Retract Flaps**
7. **Apply Back Pressure on Yoke & Brakes as Needed**

## SOFT FIELD TAKE-OFF

1. Wing Flaps.....**10 DEGREES**
2. Roll onto Runway without stopping  
And hold yoke back/nose up
3. Smoothly apply Full Power and Hold Yoke  
Back Until Aircraft Becomes Airborne.
4. Level off and Allow Aircraft to Accelerate  
In Ground Effect
5. Climb at Vx (65 MPH) until Clear of Obstacles
6. Retract Flaps & Accelerate to Vy (80 MPH)
7. Normal Climb.....**80 to 90 MPH**  
Lean above 10,000 feet

## SOFT FIELD LANDING

1. Approach..... **SAME AS NORMAL LANDING**
2. On Final..... **POWER FAST IDLE**
3. Flaps.....**40 DEGREES**
4. Airspeed.....**65 MPH**
5. Touch Down With a small amount of Power and  
On the Main Wheels at the Slowest Possible Speed
6. Keep Nose Wheel off Ground as Long as Possible
7. Allow Surface Drag to Slow Aircraft
8. Brakes are normally not required

## AIRSPEEDS:

- Vx.....**65 MPH**  
Vy.....**80 MPH**  
Vne.....**182 MPH**  
Vno.....**145 MPH**  
Vfe.....**100 MPH**  
Vs.....**57 MPH**  
Vso.....**49 MPH**  
Va.....**98-112 MPH**



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