



182R CHECKLIST



PREFLIGHT - Cabin

1. Documents ARROW
2. Flight Plan & Charts AVAILABLE
3. Aircraft Wt & Balance CHECK
4. Hobbs & Tach ... NOTE IN CLIPBOARD
5. Control Wheel Lock REMOVE
6. Ignition OFF
7. Avionics Master OFF
8. Master (ALT & BAT) ON
9. Lights & Pitot Heat CHECK / OFF
10. Stall Warning CHECK
11. Fuel Quantity (L & R) CHECK
12. Flaps EXTEND 10°
13. Master (ALT & BAT) OFF
14. Circuit Breakers CHECK IN
15. Fire Extinguisher CHECK
16. Fuel Selector BOTH

PREFLIGHT - Empennage

1. Baggage Door OPEN (LEAVE KEY)
2. Tail Tiedown REMOVE
3. Rear Control Surfaces CHECK
4. Antennas CHECK

PREFLIGHT - Right Wing

1. Right Flap & Aileron CHECK
2. Right Wing General Condition .. CHECK
3. Right Wing Tiedown REMOVE
4. Right Main Wheel & Tire CHECK
5. Right Main Brake Condition CHECK
6. Right Wheel Chocks REMOVE
7. Right Wing Fuel Sumps DRAIN
8. Right Fuel Qty & Cap CHECK

PREFLIGHT - Left Wing

1. Left Fuel Quantity & Cap CHECK
2. Fuel Tank Vent Opening CHECK
3. Stall Warning Opening CHECK
4. Pitot Tube Cover REMOVE
5. Left Wing General Condition CHECK
6. Left Aileron & Flap CHECK
7. Left Wing Tiedown REMOVE
8. Left Main Wheel & Tire CHECK
9. Left Main Brake Condition CHECK
10. Left Wheel Chocks REMOVE
11. Left Wing Fuel Sumps DRAIN
12. Baggage Door CLOSED & LOCKED
13. Move a/c to check tires CHECK

PREFLIGHT - Nose Area

1. Static Source (both sides).....CHECK
2. Engine Oil CHECK (9 qts min)
3. Nosewheel Tire & Strut CHECK
4. Carburetor Air Filter.....CHECK
5. Propeller & Spinner CHECK
6. Strainer Drain Knob.....PULL

BEFORE ENGINE START

1. Preflight InspectionCOMPLETE

2. PASSENGER BRIEFING

- a. Seatbelts/Shoulder Harnesses
- b. Air Conditioning/Heat
- c. Fire Extinguisher/Other
- d. Emergency Exits
- e. Traffic/Talking
- f. Your questions?

3. Seats & Seatbelts ...CHECK & ADJUST
4. Fuel Selector Valve.....BOTH
5. Avionics Master OFF
6. Cowl Flaps.....OPEN
7. Circuit Breakers.....CHECK IN

ENGINE START

1. MixtureRICH
2. PropellerHIGH RPM
3. Carburetor HeatOFF
4. Throttle ½" OPEN
5. PrimeAS REQUIRED
6. Master Switch ON
7. Propeller Area CLEAR
8. Ignition Switch START
9. Throttle 1000 RPM
10. Oil Pressure CHECK
11. MixtureSET FOR TAXI
12. Voltmeter 28V ± 0.5V

BEFORE TAXI

1. Avionics MasterON & SET
2. FlapsRETRACT
3. ATIS/ASOS/AWOS.....OBTAIN
4. Altimeter SET
5. LightsAS REQUIRED
6. Taxi AreaCLEAR
7. BrakesTEST IMMEDIATELY
8. Taxi ClearanceOBTAIN

TAXI INSTRUMENT CHECK

1. Mag Compass fluid, rotates freely
2. Attitude Indicator CHECK and SET
3. Airspeed ZERO
4. Turn Coordinator CHECK
5. Heading Indicator SET to compass
6. VSI NOTE LEVEL
7. Marker Beacon ON and TEST
8. Alternate Static Source CHECK

RUN UP

1. Doors/Windows....CLOSED & LOCKED
2. Brakes SET
3. Fuel Selector.....BOTH
4. Elevator/Rudder TrimSET
5. Throttle.....1700 RPM
6. Mixture.....SET FOR ALTITUDE
7. Magnetos.....CHECK
(150 max drop, 50 max difference)
8. Propeller.....CYCLE
9. Carb Heat.....CHECK
10. Engine Instruments/Ammeter....CHECK
11. Throttle.....CHECK IDLE
12. Throttle.....1000 RPM or less
13. Throttle FrictionSET
14. Flight Controls...FREE AND CORRECT

PRE-TAKEOFF

1. Autopilot.....OFF
2. Lights.....AS REQUIRED
3. Transponder.....CHECK SQUAWK
4. Parking Brake.....RELEASE
5. Takeoff Clearance.....OBTAINED

TAKEOFF

1. Flaps 0°- 20°
2. Carb Heat.....OFF
3. Power..... FULL THROTTLE
4. Elevator.....LIFT NOSE AT 60 KIAS
5. Climb speed70 KIAS 20° FLAPS
80 KIAS NO FLAPS

SHORT FIELD TAKEOFF

1. Wing Flaps.....20°
2. Carb Heat.....OFF
3. Brakes.....APPLY
4. Power.....FULL THROTTLE/2400 RPM
5. Brakes.....RELEASE
6. Elevator.....LIFT NOSE AT 50 KIAS
7. Climb Speed.....57 KIAS
(until obstacle cleared)
8. Wing Flaps.....RETRACT(>=70 KIAS)
(above obstacle)

NORMAL CLIMB

1. Airspeed.....85-95 KIAS
2. Power23" Hg and 2450 RPM
3. Fuel Selector.....BOTH
4. Mixture.....ADJUST FOR ALTITUDE
5. Cowl Flaps.....OPEN (as required)

MAX PERFORMANCE CLIMB

1. Airspeed.....78 KIAS
2. Power.....Full Throttle and 2450 RPM
3. Mixture.....ADJUST FOR ALTITUDE
4. Cowl Flaps.....FULL OPEN

CRUISE

1. Power....15-23" Hg and 2100-2400 RPM
2. Trim.....ADJUST
3. Mixture.....LEAN
4. Cowl Flaps.....CLOSED

DESCENT

1. Power.....AS DESIRED
2. Carb Heat.....AS REQUIRED
3. Mixture.....ENRICHEN (as required)
4. Cowl Flaps.....CLOSED
5. Wing Flaps.....AS DESIRED

BEFORE LANDING

1. Seat Belts.....ADJUST & LOCK
2. Fuel Selector.....BOTH
3. Mixture.....ENRICHEN (as required)
4. Carb Heat.....AS REQUIRED
5. Propeller.....HIGH RPM
6. Autopilot.....OFF

NORMAL LANDING

1. Airspeed.....70-80 KIAS (flaps up)
2. Wing Flaps.....AS DESIRED
3. Airspeed.....60-70 KIAS (flaps down)
4. Trim.....ADJUST
5. Touchdown.....MAIN WHEELS FIRST
6. Landing Roll.....LOWER NOSE GENTLY
7. Braking.....MINIMUM REQUIRED

BALKED LANDING

1. Power..... FULL and 2600 RPM
2. Carb Heat..... OFF
3. Flaps.....RETRACT to 20°
4. Climb Speed.....70 KIAS
5. Flaps.....RETRACT slowly after 70 KIAS
6. Cowl Flaps.....OPEN

AFTER LANDING

1. Flaps..... RETRACT
2. Carb HeatOFF
3. Cowl Flaps.....OPEN
4. Ground ClearanceOBTAIN
5. Lights.....AS REQUIRED

SECURING AIRCRAFT

1. Parking Brake.....SET
2. Avionics Switch.....OFF
3. Throttle.....IDLE
4. Mixture.....IDLE CUT-OFF
5. Ignition Switch.....OFF
6. Master Switch.....OFF
7. Control Lock INSTALL
8. Wheels CHOCK
9. Tiedowns SECURE
10. Fuel Selector LEFT or RIGHT
11. Hobbs & Tach Times RECORD
12. Pitot Tube Cover INSTALL
13. Flight Plan CLOSE
14. Sunscreen INSTALL

OFFICE # 970.254.0444

IF YOU ARE UNABLE TO RETURN TO GRAND JUNCTION WHEN EXPECTED/A LANDING IS REQUIRED AT ANOTHER AIRPORT DUE TO MECHANICAL ISSUES OR WEATHER, PLEASE CLOSE YOUR FLIGHT PLAN, THEN CALL YOUR INSTRUCTOR OR THE SCHOOL OFFICE/CHIEF FLIGHT INSTRUCTOR AS SOON AS PRACTICAL.

PATTERN WORK

- Downwind 90 KIAS MAX
Abeam Numbers 80 KIAS / FLAPS 10°
Base Leg.....70 KIAS / FLAPS 20°
Final Leg...60-70 KIAS/FLAPS AS DESIRED

C-GUMPS

- Cowl Flaps.....CLOSED
Carb Heat.....ON
Gas (Fuel Selector)..... BOTH
Undercarriage DOWN AND LOCKED
Mixture SET
Propeller.....2450 RPM
Switches.....CHECK

FLOODED START

- Mixture Control.....FULL LEAN
Throttle.....FULL OPEN
Ignition Switch.....START
(Repeat procedure w/out additional priming)

SPEEDS

- Vy.....73-80 KIAS
Vx.....59-63 KIAS
Va.....2905 lbs 111 KIAS
.....2450 lbs 100 KIAS
.....1959 lbs 89 KAS
Normal Approach 30° Flaps.....60-70 KIAS
Best Glide.....70 KIAS

LOCAL FREQUENCIES

- ATIS.....118.55 MHz
Ground.....121.7 MHz
Tower.....118.1 MHz
Practice Area.....122.75 MHz
Flight Service.....122.6 MHz
Denver Center.....134.5 MHz
Denver Approach/Departure.....119.7 MHz