

N9849H

CHECKLIST

(Revised on 8.1.2025)

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
3. Nosewheel Tire & Strut CHECK
4. Carburetor Air Filter.....CHECK
5. Propeller & Spinner CHECK
6. Strainer Drain Knob.....PULL
7. Clean WindscreenCOMPLETE

BEFORE ENGINE START

1. Preflight InspectionCOMPLETE

2. PASSENGER BRIEFING

Seatbelts/Shoulder Harnesses
Air Conditioning/Heat
Fire Extinguisher/Other
Emergency Exits
Traffic/Talking
Your questions?

3. Fuel Selector Valve.....BOTH
4. Avionics Master OFF
5. Cowl Flaps.....OPEN
6. Circuit Breakers.....CHECK IN

ENGINE START

1. Mixture.....RICH
2. Propeller.....HIGH RPM
3. Carburetor Heat.....OFF
4. Throttle ½" OPEN
5. Prime.....(3-5 PUMPS)
6. Master Switch.....ON
7. Beacon.....ON
8. Propeller Area.....CLEAR
9. Ignition Switch START
10. Throttle 1000 RPM
11. Oil Pressure CHECK
12. Mixture SET FOR TAXI

BEFORE TAXI

1. Avionics MasterON & SET
2. Voltmeter 28V ± 0.5V
3. FlapsRETRACT
4. ATIS/ASOS/AWOS.....OBTAIN
5. Altimeter SET
6. LightsAS REQUIRED
7. Taxi AreaCLEAR
8. BrakesTEST IMMEDIATELY
9. Taxi ClearanceOBTAIN

TAXI INSTRUMENT CHECK

1. Mag Compass FLUID/TURNS FREE
2. Attitude Indicator CHECK & SET
3. Airspeed ZERO
4. Turn Coordinator CHECK
5. Heading Indicator ... SET TO COMPASS
6. VSI NOTE LEVEL
7. Alternate Static Source CHECK

RUN UP

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

PRE-TAKEOFF

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

TAKEOFF

1. Flaps 0° - 10°
2. Carb Heat.....OFF
3. Power.....FULL THROTTLE
4. Prop2400 RPM
5. Elevator.....ROTATE AT 50 KIAS
6. Climb speed 80 KIAS
7. Flaps.....RETRACT

SHORT FIELD TAKEOFF

1. Wing Flaps.....20°
2. Carb Heat.....OFF
3. Brakes.....APPLY
4. Power.....FULL THROTTLE
5. Prop2400 RPM
6. Brakes.....RELEASE
7. Elevator.....ROTATE AT 50 KIAS
8. Climb Speed.....59 KIAS
9. Wing Flaps.....RETRACT(>=70 KIAS)

NORMAL CLIMB

1. Airspeed.....80 KIAS
2. PowerSET
3. Prop2400 RPM
4. Fuel Selector.....BOTH
5. Mixture.....ADJUST FOR ALTITUDE
6. Cowl Flaps.....AS REQUIRED

CRUISE

1. Power.....SET
2. Prop2100 - 2300 RPM
3. Trim.....ADJUST
4. Mixture.....LEAN
5. Cowl Flaps.....AS REQUIRED

DESCENT

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

BEFORE LANDING

1. Seat Belts.....ADJUST & LOCK
2. Fuel Selector.....BOTH
3. Mixture.....SET
4. Carb Heat.....AS REQUIRED
5. Prop.....SET
6. Autopilot.....OFF

NORMAL LANDING

1. Wing Flaps.....AS DESIRED
2. Airspeed.....60-70 KIAS (flaps down)
3. Trim.....ADJUST

BALKED LANDING

1. Power.....FULL
2. Carb Heat.....OFF
3. Flaps.....RETRACT to 20°
4. Climb Speed.....70 KIAS
5. Flaps.....RETRACT TO 10°
6. Cowl Flaps.....OPEN

AFTER LANDING

1. Flaps.....RETRACT
2. Carb HeatOFF
3. Cowl Flaps.....OPEN
4. Avionics/ClearanceAS REQUIRED
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. Cowl Flaps.....CLOSE
8. Control LockINSTALL
9. WheelsCHOCK
10. Tie Downs.....SECURE
11. Fuel SelectorLEFT OR RIGHT
12. Hobbs & Tach Times RECORD
13. Pitot Tube CoverINSTALL
14. SunscreenINSTALL
15. Cowl PlugsINSTALL

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.....2400 RPM
Switches.....CHECK

FLOODED START

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

SPEEDS

Vy.....75-81 KIAS
 Vx.....59-66 KIAS
 Va.....3100 lbs 111 KIAS
2600 lbs 102 KIAS
2000 lbs 88 KIAS
 Normal Approach 40° 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

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.

ENGINE FAILURE DURING TAKEOFF

1. Throttle.....IDLE
2. Brakes.....APPLY
3. Flaps.....RETRACT
4. Mixture.....IDLE CUTOFF
5. Ignition Switch.....OFF

EMERGENCY LANDING IMMEDIATELY AFTER TAKEOFF

1. Airspeed.....70 KIAS (flaps up)
65 KIAS (flaps down)
2. Mixture.....IDLE CUT-OFF
3. Fuel Selector Valve.....OFF
4. Ignition Switch.....OFF
5. Wing Flaps.....AS REQUIRED
6. Master Switch.....OFF

ENGINE FAILURE DURING FLIGHT

1. Airspeed70 KIAS
2. Carb Heat.....ON
3. Fuel Selector.....BOTH
4. Mixture.....RICH
5. Ignition Switch.....BOTH
6. Primer.....IN & LOCKED

EMERGENCY LANDING WITHOUT ENGINE POWER

1. Airspeed.....70 KIAS (flaps up)
65 KIAS (flaps down)
2. Mixture.....IDLE CUT-OFF
3. Fuel Selector Valve.....OFF
4. Ignition Switch.....OFF
5. Wing Flaps.....AS REQUIRED
6. Master Switch.....OFF
7. Doors...UNLATCH BEFORE TOUCHDOWN
8. Touchdown.....SLIGHTLY TAIL LOW
9. Brakes.....APPLY HEAVILY

EMERGENCY LANDING WITH ENGINE POWER

1. Flaps.....20 DEGREES
2. Airspeed.....65 KTS
3. Select Field.....FLY OVER
 (Note terrain, obstructions, then retreat flaps upon reaching a safe altitude and airspeed)
4. Radio/Elec. Switches.....OFF
5. Wing Flaps.....40 DEGREES
6. Airspeed.....65 KTS
7. Master Switch.....OFF
8. Doors...UNLATCH BEFORE TOUCHDOWN
9. Touchdown.....SLIGHTLY TAIL LOW
10. Ignition Switch.....OFF
11. Brakes.....APPLY HEAVILY

FIRES DURING START ON GROUND

1. Cranking.....CONTINUE
 (IF ENGINE STARTS)
2. Power.....1700 RPM for a few minutes
3. Engine.....SHUTDOWN inspect
 (IF ENGINE FAILS TO START)

4. Throttle.....FULL OPEN
5. Mixture.....IDLE CUT-OFF
6. Cranking.....CONTINUE
7. Fire Extinguisher.....OBTAIN
8. Engine.....SECURE
9. Master Switch.....OFF
10. Ignition Switch.....OFF
11. Fuel Selector.....OFF
12. Fire.....EXTINGUISH
13. Fire Damage.....INSPECT

ENGINE FIRE IN FLIGHT

1. Airspeed.....>100 KIAS
2. Mixture.....IDLE CUTOFF
3. Fuel Selector.....OFF
4. Master Switch.....OFF
5. Cabin Heat and Air.....OFF
6. Forced Landing.....EXECUTE

ELECTRICAL FIRE IN FLIGHT

1. Master Switch.....OFF
2. Avionics Switch.....OFF
3. All Other Switches(not ignition).....OFF
4. Vents/CabinAir/Heat.....CLOSED
5. Fire Extinguisher.....ACTIVATE
 (Ventilate cabin after discharge)
 (IF FIRE IS OUT AND ELEC. POWER IS NEEDED FOR CONTINUANCE OF FLIGHT)
6. Master Switch.....ON
7. Circuit Breakers.....CHECK (No Reset)
8. Elec. Switches.....ON (one at a time, with delay, until short circuit is found)
9. Vents/CabinAir/Heat...OPEN (When fire is out)

CABIN FIRE

1. Master Switch.....OFF
2. Vents/CabinAir/Heat.....CLOSED
3. Fire Extinguisher.....ACTIVATE
 (Ventilate cabin after discharge)
4. Land.....AS SOON AS POSSIBLE

WING FIRE

1. Slip with impacted wing behind
2. Navigation Switch.....OFF
3. Strobe Light Switch.....OFF
4. Pitot Heat Switch.....OFF

ICING

1. Pitot Heat Switch.....ON
2. Turnback or change altitude
3. Cabin Heat/Defrost.....ON
4. Increase engine speed
5. Leave wing flaps retracted
6. Approach at 80 to 90 KIAS

OVER-VOLTAGE LIGHT

1. Master Switch.....OFF (both)
2. Master Switch.....ON (both)
3. Over-Voltage Light.....VERIFY OFF
4. If Over-Voltage Light comes back on,
 TERMINATE flight as soon as possible

AMMETER SHOWS DISCHARGE

1. Alternator.....OFF
2. Nonessential Elec. Equipment.....OFF
3. TERMINATE flight as soon as possible

SECURING

1. Mixture.....IDLE CUT OFF
2. Fuel Shutoff Valve.....CLOSED
3. Ignition Switch.....OFF
4. Flaps.....AS REQUIRED
5. GEN/BAT Switch.....OFF

AIRCRAFT LIGHT GUN SIGNALS

COLOR & TYPE	GROUND	AIR
STEADY GREEN 	Cleared for takeoff	Cleared to land
FLASHING GREEN 	Cleared for taxi	Return for landing (to be followed by steady green)
STEADY RED 	STOP!	Give way to other aircraft and continue circling
FLASHING RED 	Taxi clear of runway in use	Airport unsafe, do not land
FLASHING WHITE 	Return to starting point on airport	N/A
ALTERNATING RED/GREEN 	Exercise extreme caution	

EMERGENCY SQUAWKS

HIJACK.....7500
 LOST COMMS.....7600
 EMERGENCY.....7700

