

PREFLIGHT

1. Aircraft Documents.....ON BOARD
2. Weight and Balance.....CALCULATE
3. Safety Belts.....CHECK
4. Ignition.....OFF
5. Master Switch.....ON
6. Fuel Level.....CHECK
7. Master Switch.....OFF
8. Fuel Valve.....ON
9. First Aid Kit.....CHECK
10. Fire Extinguisher.....CHECK
11. Baggage.....STOWED & SECURED

EXTERIOR INSPECTION

LEFT WING

1. Fuel Quantity.....VISUAL CHECK
2. Pitot Tube.....CLEAN
3. Leading Edge and Skin.....VISUAL CHECK
4. Fuel Vent.....VISUAL CHECK
5. Wing Tip, NAV Light.....VISUAL CHECK
6. Aileron.....VISUAL CHECK
7. Flap.....VISUAL CHECK
8. Left Main Landing Gear.....CHECK
9. Fuel Drain.....PERFORM

TAIL

1. Antennas.....VISUAL CHECK
2. Horizontal stabilizer, Elevator..VISUAL CHECK
3. Vertical Tail, Rudder.....VISUAL CHECK
4. Tie Down Ring.....VISUAL CHECK

RIGHT WING

1. Fuel Drain.....PERFORM
2. Right Main Landing Gear.....CHECK
3. Flap.....VISUAL CHECK
4. Aileron.....VISUAL CHECK
5. Wing Tip, NAV Light.....VISUAL CHECK
6. Leading Edge and Skin.....VISUAL CHECK
7. Fuel Quantity.....VISUAL CHECK

NOSE

1. Nose Gear.....CHECK
2. Propeller.....CLEARANCE MIN 25 CM
3. Propeller Blades.....CHECK
4. Spinner.....VISUAL CHECK
5. Air Intakes.....CLEAR
6. Cowling.....VISUAL CHECK
7. Static port.....CLEAN
8. Oil.....CHECK LEVEL
9. Tow Bar and Chocks.....REMOVE
10. Windshield, Windows.....VISUAL CHECK
11. One More 360°.....PERFORM

BEFORE STARTING ENGINE

1. Seat, Safety Belts ... FASTENED & ADJUSTED
2. Passenger Briefing.....COMPLETED
3. Avionics Circuit Breakers.....OFF
3. Remaining Circuit Breakers.....ON
4. Fuel Valve.....ON
5. Doors.....CLOSED

ENGINE START

1. Mixture.....FULL RICH
2. Throttle.....1/8" OPEN
3. Carburetor Heat.....OFF
4. Master Switch.....ON
5. Beacon Light.....ON
6. Nav. Light.....AS REQUIRED
7. Primer.....AS REQUIRED
8. Breaks.....HOLD
9. Engine Page.....ON
10. Propeller Area.....CLEAR
11. Starter.....ENGAGE (MAX 10 SEC)
- 12.Throttle.....1000 RPM
13. Oil Pressure.....CHECK

AFTER STARTING ENGINE

1. Cabin Heat and Defrost.....AS REQUIRED
2. Avionics Circuit Breakers.....ON
3. Radio/NAV/GPS.....ON
4. Transponder.....SDBY
5. Flight Instruments.....CHECK
6. Altimeters.....SET
7. Engine Instruments.....CHECK

TAXI

1. Off-block Time.....NOTICE
2. Clearance.....OBTAIN
3. Taxi Light.....ON
4. Brakes.....CHECK

RUN UP POSITION

1. Brakes.....HOLD
2. Taxi Light.....OFF
3. Flight Controls.....FREE AND CORRECT
4. Engine Parameters.....CHECK
5. Fuel Valve.....ON
6. Mixture.....FULL RICH
7. Trim.....SET FOR TAKE-OFF
8. Throttle.....1750 RPM SET
9. Magnetos.....CHECK
10. Carburettor Heat.....ON
11. Throttle.....IDLE/1000 RPM SET
12. Carburettor Heat.....OFF
13. Engine Parameters.....CHECK
14. Take-Off Briefing.....COMPLETED

LINE UP

1. Doors.....CLOSED & LOCKED
2. Flaps.....T/O
3. Transponder.....ALT
4. Carburetor Heat.....OFF
5. Clearance.....OBTAIN
6. Taxi/Landing Lights.....ON
7. Brakes.....OFF

TAKE-OFF

1. Throttle.....FULL
2. Engine Instruments.....CHECK
3. Rotation.....55 KIAS
4. Climb Speed.....70KIAS

CLIMB

1. Flaps.....UP
2. Throttle.....SET
3. Landing/Taxi Light.....OFF
6. Climb Speed.....70KIAS

CRUISE

1. Cruise Power.....SET 2200-2300 RPM
2. Engine Instruments.....CHECK
3. Carburetor Heat.....AS REQUIRED
4. Fuel Consumption.....CHECK

FINAL

1. Flaps.....LANDING
2. Carburetor Heat.....ON
3. Landing/Taxi Light.....ON
4. Approach Speed.....65-70 KIAS

GO AROUND

1. Throttle.....FULL
2. Flaps.....T/O
3. Airspeed.....70 KIAS

RUNWAY VACATED

1. Flaps.....UP
2. Transponder.....STBY
3. Carburetor Heat.....OFF
4. Landing Light.....OFF

SHUT DOWN POSITION

1. Brakes.....HOLD
2. Taxi light.....OFF
3. Engine/cooling.....1000 RPM PERFORM
4. Avionics.....OFF
5. Avionics Circuit Breakers.....OFF
6. NAV Light.....OFF
7. Mixture.....CUT-OFF
7. Ignition.....OFF
8. Key.....REMOVE
9. Master Switch.....OFF
10. Beacon Light.....OFF

EMERGENCY PROCEDURES

C-152

SP-KAK

ENGINE FAILURE DURING TAKE-OFF

1. Throttle IDLE
2. Brakes AS REQUIRED
3. Rudder MAINTAIN DIRECTION
4. Fuel Valve OFF
5. Ignition OFF
6. Cabin Heat OFF
7. Master Switch OFF
8. Parking Brake ON
9. Evacuation PERFORM

ENGINE FAILURE AFTER TAKE-OFF

INSUFFICIENT ENGINE POWER

1. Airspeed 70 KIAS
2. Place to land FIND
3. Flaps AS REQUIRED

SHORTLY BEFORE LANDING

1. Throttle IDLE
2. Mixture FULL LEAN
3. Ignition OFF
4. Master Switch OFF

ENGINE FAILURE DURING FLIGHT

1. Land ASAP

ENGINE RESTART DURING FLIGHT

1. Carburetor heat AS REQUIRED
2. Fuel Quantity CHECK
3. Throttle SET

IN CASE OF UNSUCCESSFUL

1. Engine SECURE
2. Land ASAP

ENGINE SECURING

1. Throttle IDLE
2. Mixture FULL LEAN
3. Fuel Valve OFF
4. Ignition OFF
5. Master Switch OFF

FORCED LANDING

1. Airspeed 70 KIAS
2. Place to land FIND
3. Flaps AS REQUIRED

SHORTLY BEFORE LANDING

1. Throttle IDLE
2. Mixture FULL LEAN
3. Fuel Valve OFF
4. Ignition OFF
5. Master Switch OFF

GLIDING

1. Flaps UP
2. Airspeed 70 KIAS

CHECK LISTS MARKED WITH THE THICK VERTICAL LINE ON THE LEFT SHOULD BE MEMORIZED
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ENGINE FIRE DURING FLIGHT

1. Cabin Heat OFF
2. Fuel Shut-off valve OFF
3. Throttle FULL FORWARD
4. Ignition OFF
5. Cabin Vents OPEN
6. Land ASAP

ENGINE FIRE ON THE GROUND

1. Fuel Valve OFF
2. Mixture FULL LEAN
3. Ignition OFF
4. Throttle FULL FORWARD
5. Cabin Heat OFF
6. Master Switch OFF
7. Parking Brake ON
8. Evacuation PERFORM

CABIN FIRE/ELECTRICAL SMOKE IN CABIN DURING FLIGHT

1. Cabin Heat OFF
2. Cabin Vents OPEN
3. Fire Extinguisher USE

IF SMOKE PERSISTS

1. Master Switch OFF
2. Land ASAP

CABIN FIRE/ELECTRICAL SMOKE IN CABIN ON THE GROUND

1. Throttle IDLE
2. Fuel Valve OFF
3. Mixture FULL LEAN
4. Ignition OFF
5. Master Switch OFF
6. Evacuation PERFORM

EVACUATION

1. Seat Belts UNSTRAP
2. Headphones REMOVE
3. Doors OPEN
4. Escape away PERFORM

RECOVERY FROM UNINTENTIONAL SPIN

1. Throttle IDLE
2. Rudder OPPOSITE DIRECTION
3. Stick NEUTRAL

AT THE SPIN STOPS

1. Rudder NEUTRAL
2. Stick SMOOTHLY PULL
3. Throttle SET

TRIM RUNAWAY

1. Airspeed ADJUST
2. Land ASAP

FLAPS FAILURE

1. Breaker IN
2. Approach speed 64 KIAS
3. Landing length INCREASED

ALTOUT CAUTION IS ON

1. Breaker CHECK IN
2. Master Switch OFF/1 SEC/ON

NO CHANGE

1. Electrical Load REDUCE
2. Land ASAP

OP LOW

1. Throttle REDUCE
2. Land ASAP

HIGH OIL TEMPERATURE

1. Throttle REDUCE
2. Airspeed INCREASE

NO CHANGE

1. Land ASAP

CHT/CT LIMIT EXCEEDANCE

1. Throttle REDUCE
2. Land ASAP

AIRSPEED FOR SAFE OPERATION

- Rotation Speed (V_R) FLAP T/O 54 KIAS
Best Rate-of-Climb (V_Y) FLAP UP 71 KIAS
Best Angle-of-Climb (V_X) FLAP UP 65 KIAS
Max Flaps Extended (V_{FE}) 85 KIAS
Approach Speed FLAP LDG 65 KIAS
Touch Down Speed FLAP LDG 51 KIAS
Maneuvering Speed (V_A) 104 KIAS
Never Exceed Speed (V_{NE}) 149 KIAS
Max Demo Crosswind 10 KIAS