Cessna 150M Preflight Checklist (May 2023)



Visually check airplane for general condition during walkaround inspection.

In cold weather, remove even small accumulations of frost, ice or snow from wing, tail and control surfaces. Also make sure that control surfaces contain no internal accumulations of ice or debris. Prior to flight, check that pitot heat (if installed) is warm to touch within 30 seconds with battery and pitot heat switches on. If a night flight is planned, check operation of all lights and make sure a flashlight is available.

<u>1 – Cabin</u>

- Documents (AROW) ON BOARD
- Hobbs & tach RECORD
- Control wheel lock REMOVE
- Ignition switch OFF
- Avionics OFF
- Master switch ON
- Fuel quantity CHECK
- Flaps DOWN
- Lights & pitot heat ON & CHECK
- Ammeter verify NEGATIVE
- Master switch OFF

2 - Empennage

- Tail tiedown REMOVE
- Control surfaces CHECK

3 - Right Wing Trailing Edge

- Aileron CHECK MOVEMENT
- Flap INSPECT
- Inspection covers SECURE

4- Right Wing

- Wing tiedown REMOVE
- Main tire CHECK INFLATION
- Main gear CHECK BRAKES & LINES
- Wing fuel sump DRAIN & CHECK for color, sediment & water
- Fuel quantity CHECK
- Fuel cap SECURE

<u>5 - Nose</u>

- Oil CHECK QUANTITY (4-6 qts)
- Oil dipstick SECURE
- Engine fuel sump CHECK QUALITY
- Prop & spinner CHECK
- Engine air inlets CLEAR
- Air filter CHECK
- Nose strut & tire CHECK
- Static source CHECK CLEAR (but do not touch)

6 - Left Wing

- Wing fuel sump DRAIN & CHECK
- Fuel quantity CHECK
- Fuel cap SECURE
- Main tire CHECK INFLATION
- Main gear CHECK BRAKES & LINES

7 – Left Wing Leading Edge

- Pitot cover REMOVE
- Pitot tube CLEAR OF DEBRIS
- Fuel tank vent CHECK
- Stall warning CHECK
- Wing tiedown REMOVE

8 - Left Wing Trailing Edge

- Aileron CHECK MOVEMENT
- Flap INSPECT
- Inspection covers SECURE

Operating Data

Fuel capacity – 22.5 gallons total usable (11.25 per side) Engine – Continental O-200-A Horsepower – 100 HP at 2750 RPM Battery – 12 volt Alternator – 14 volt

Max demonstrated crosswind – 13 knots Max weight – 1600 pounds Max baggage weight – 120 pounds Service ceiling – 12,650 feet

Tire pressure

Nose wheel – 30 PSI on 5.00-5, 4-ply tires Main wheel – 21 PSI on 6.00-6, 4-ply tires



ENGINE FAILURE AFTER TAKEOFF

Airspeed – 70 MPH Landing site – SELECT Mixture – IDLE CUTOFF Fuel shutoff valve – OFF Ignition switch – OFF Flaps – AS REQUIRED (40° recommended) Master switch – OFF

ENGINE FAILURE DURING FLIGHT

Airspeed – V_{BG} 75 MPH Landing site – SELECT, fly to & circle overhead <u>Attempt engine restart if time allows</u>: Carb heat – ON Fuel shutoff valve – ON Mixture – RICH Primer – IN & LOCKED Ignition – BOTH (only if prop stops windmilling, move ignition to START) ** If engine fails to start Perform Forced Landing checklist

FORCED LANDING

Airspeed V_{BG} – 75 MPH with flaps up 65 MPH with flaps down Mixture – IDLE CUTOFF Fuel shutoff valve – OFF Ignition switch – OFF Radio call – "MAYDAY, MAYDAY" Transponder – SQUAWK 7700 Flaps – AS REQUIRED (40° recommended) Master switch – OFF Doors – UNLATCH PRIOR TO TOUCHDOWN Touchdown – SLIGHTLY TAIL LOW Brakes – APPLY AS NEEDED

ENGINE FIRE IN FLIGHT

Mixture – IDLE CUTOFF Fuel shutoff valve – OFF Master & ignition switches – OFF Cabin heat & air – OFF (except overhead vents) Airspeed – 100+ MPH ** Once fire extinguished or landing imminent Perform Forced Landing checklist

ENGINE FIRE DURING START

Continue cranking engine to attempt start ** If engine starts Throttle – 1700 RPM for a few minutes, then shut down and have maintenance inspect ** If engine fails to start Throttle – FULL OPEN Mixture – IDLE CUTOFF Cranking – CONTINUE Fire extinguisher – OBTAIN Master & ignition switches – OFF Fuel shutoff valve – OFF Fire - EXTINGUISH

ELECTRICAL FIRE

Master switch – OFF Avionics & electrical switches – ALL OFF Vents, cabin air & heat – CLOSED Fire extinguisher – USE IF NEEDED

** If fire appears out & electrical power is necessary Master switch – ON Circuit breakers – CHECK FOR FAULT, do not reset Radios & electrical – ONE AT A TIME, with a delay between, turn on necessary items to isolate source of fire Vents, cabin air & heat – OPEN

LOW OIL PRESSURE

Oil temperature – MONITOR ** If oil temp is normal, land at nearest airport

 ** If oil temperature is rising, engine failure may be imminent
Throttle – REDUCE
Landing site – SELECT

- Leave engine running at low power during the approach

- Use minimum power to reach touchdown spot

ELECTRICAL MALFUNCTION

(ammeter indicating insufficient <u>or</u> excessive charge) Avionics switch – OFF Alternator circuit breaker – CHECK IN Master switch – OFF momentarily, then ON Ammeter – CHECK INDICATION Low-/over-voltage light – CHECK OUT

** If charge is normal on ammeter Avionics switch – ON Ammeter – CONTINUE TO MONITOR

 ** If ammeter shows insufficient rate of charge or if low-voltage light illuminates again
Avionics & electrical – ONLY ESSENTIALS
Land – AS SOON AS PRACTICAL

 ** If ammeter shows excessive rate of charge <u>or</u> if over-voltage light illuminates again
Master switch – OFF unless absolutely necessary (i.e. at night during landing)
Land – AS SOON AS POSSIBLE

- Be prepared for lost communications
- At night, conserve the battery for lights and flaps during landing by reducing the electrical load

SPIN RECOVERY

Power – IDLE Ailerons – NEUTRAL Rudder – FULL OPPOSITE Elevator – FORWARD BRISKLY TO BREAK STALL ** Once spin stops Neutralize rudder & recover from dive