

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

- Baggage door CHECK SECURE
- 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

5 - Nose

- 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

Engine – Lycoming O-320-H2AD Horsepower – 160 HP at 2700 RPM Battery – 24 volt Alternator – 28 volt, 60 amps

Max demonstrated crosswind – 15 kts Max T/O & Landing weight – 2300 pounds Max baggage weight – 120 pounds Service ceiling – 14,200 feet

Tire pressure

Nose wheel – 31 PSI on 5.00-5, 4-ply tires Main wheel – 29 PSI on 6.00-6, 4-ply tires

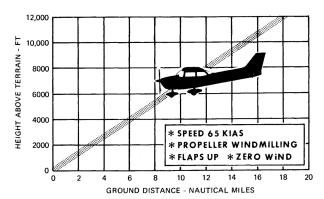


Figure 3-1. Maximum Glide

Cessna 172N Emergency Checklist (March 2021)

ENGINE FAILURE (after takeoff)

Airspeed V_{BG} – 65 KIAS flaps up 60 KIAS flaps down

Landing site – SELECT Mixture – IDLE CUTOFF

Fuel selector – OFF Ignition switch – OFF

Flaps - AS REQUIRED

Master switch - OFF

ENGINE FAILURE / LOSS OF POWER

Airspeed - 65 KIAS

Landing site - SELECT & FLY TO

Mixture - RICH

Fuel selector - BOTH

Primer - IN & LOCKED

Carb heat - ON

Ignition – BOTH (if prop stops windmilling, move ignition to START)

** If engine fails to start

Perform Forced Landing checklist

FORCED LANDING

Airspeed V_{BG} – 65 KIAS flaps up 60 KIAS flaps down

Mixture - IDLE CUTOFF

Fuel selector - OFF

Ignition switch - OFF

Flaps - AS REQUIRED

Radio call - "MAYDAY, MAYDAY"

Transponder – SQUAWK 7700

Master switch - OFF

Doors - UNLATCH PRIOR TO TOUCHDOWN

Touchdown - SLIGHTLY TAIL LOW

Brakes - APPLY AS NEEDED

ENGINE FIRE (in flight)

Mixture - IDLE CUTOFF

Fuel selector - OFF

Master & Ignition switches - OFF

Cabin heat & air - OFF

Airspeed - 100+ KIAS

** 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 switch - OFF

Ignition switch - OFF

Fuel selector - OFF

Fire - EXTINGUISH

ELECTRICAL FIRE

Master switch – OFF

Avionics & electrical switches – ALL OFF Vents, cabin air & heat – CLOSED

Fire extinguisher – USE AS NEEDED

** If fire appears out

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 or excessive charge)

Avionics switch - OFF

Alternator circuit breaker - CHECK IN

Master/Alt switch - OFF, 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

Alternator switch - OFF

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

Alternator switch - OFF

Alternator circuit breaker - PULL

Avionics & electrical - ONLY ESSENTIALS

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 TO BREAK STALL

** Once spin stops

Neutralize rudder & recover from dive