



**Plainwell Aviation
& STEM Academy**

**1968 - Cessna 172I Checklist
N8407L**

PREFLIGHT INSPECTION

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 ON
9. Lights & Pitot Heat CHECK / OFF
10. Fuel Quantity (L & R) CHECK
11. Flaps EXTEND 10°
12. Master OFF
13. Circuit Breakers CHECK IN
14. Fire Extinguisher CHECK
15. Fuel Selector BOTH
16. Alternate Static Air Valve OFF
17. Elevator Trim TAKEOFF POSITION

EMPENNAGE

1. Baggage Door OPEN
2. Tail Tiedown REMOVE
3. Rear Control Surfaces CHECK
4. Elevator Trim Tab CHECK
5. Antennas CHECK

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 Sump DRAIN
8. Right Fuel Qty & Cap CHECK

NOSE AREA

1. Nose Fuel Strainer PULL 3-4 sec.
2. Engine Oil CHECK (6 qts min)
3. Nosewheel Tire & Strut CHECK
4. Nosewheel Chocks REMOVE
5. Cowl Plugs REMOVE
6. Engine Heater.. UNPLUG (if necessary)
7. Engine Cooling Air Inlets CHECK
8. Alternator Belt CHECK
9. Propeller & Spinner CHECK
10. Air Filter CHECK
11. Static Port CHECK

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 Sump DRAIN
12. Baggage Door CLOSED & LOCKED
13. Move a/c to check tires CHECK

BEFORE ENGINE START

1. Preflight Inspection COMPLETE
2. Passenger Briefing:
 - a. Seat Adjustment CHECK
 - b. Seat Belts LATCH / UNLATCH
 - c. Doors OPEN / CLOSE / LOCK
 - d. Windows OPEN / CLOSE / LOCK
 - e. Off-airport landings BRIEF
 - f. Weather BRIEF
 - g. Smoking NO
3. Seats & Seatbelts .. CHECK & ADJUST
4. Brakes TEST & SET
5. Circuit Breakers CHECK IN
6. Electrical Equipment OFF
7. Avionics Master OFF
8. Fuel Selector BOTH
9. Flight Controls FREE & CORRECT

ENGINE START

1. Beacon ON
2. Master Switch ON
3. Mixture RICH
4. Throttle ¼" OPEN
5. Propeller Area CLEAR
6. Ignition Switch START
7. Oil Pressure CHECK
8. Throttle 1000 RPM
9. Mixture SET FOR ALTITUDE

NOTE: PROTECT YOUR STARTER!

Do NOT engage for more than 10 seconds! Allow 20 seconds to cool down between attempts. Repeat up to 4 times, then let cool for at least 30 minutes prior to another attempt.

BEFORE TAXI

1. Avionics Master ON
2. Flaps RETRACT
3. GPS ENTER FLIGHT PLAN
4. Weather / ATIS LISTEN / RECORD
5. Directional Gyro SET
6. Altimeter SET
7. Attitude Indicator SET
8. COM & NAV Radios SET
9. Lights AS REQUIRED
10. Taxi Area CLEAR
11. Brakes TEST
12. Taxi Clearance OBTAIN

TAXI INSTRUMENT CHECK

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

BEFORE TAKEOFF CHECK

1. Brakes SET
2. Seats, Seat backs, Seatbelts ... CHECK
3. Doors CLOSED & LOCKED

4. Fuel Quantity CHECK
5. Fuel Selector BOTH
6. Elevator Trim SET

7. ENGINE RUNUP

- a. Mixture RICH
- b. Carburetor Heat COLD
- c. Throttle 1700 RPM
- d. Mixture SET FOR ALTITUDE
- e. Magnetos CHECK
125 max drop, 50 max difference
- f. Carburetor Heat CHECK DROP
- g. Engine Instruments CHECK
- h. Vacuum CHECK
- i. Ammeter CHECK

8. Throttle CHECK IDLE
9. Throttle 1000 RPM or less
10. Throttle Friction SET
11. NAV Radios SET
12. COM Radios SET
13. GPS Flight Plan VERIFIED
14. Transponder CHECK CODE
15. Takeoff Clearance OBTAINED

LOCAL FREQUENCIES

CTAF / UNICOM
122.8

Flight Service
122.25

KAZO ATIS
127.25

KAZO Tower
118.3

KAZO Ground
121.9

Great Lakes Departure
119.2

Chicago Center
127.55

Emergency Frequency
121.5

Lansing Center 24H
(800) 992-7433

TAKEOFF

Flaps.....0° - 10° SET
Carburetor Heat..... COLD
Lights..... ON
Camera (Transponder)..... AUTO
Action:
Time..... RECORD
Heading..... CHECK
Throttle..... FULL POWER
Oil Pressure..... CHECK
Elevator Nose Wheel..... LIFT AT 60 MPH
Climb Airspeed (V_Y)..... 80 MPH
Climb Airspeed (V_X)..... 71 MPH

CLIMB

Airspeed.....80 to 90 MPH
Throttle..... FULL POWER
Mixture..... AS REQUIRED FOR MAX RPM
Transponder..... VERIFY ALT

CRUISE

Throttle..... SET (2200 to 2700 RPM)
Elevator Trim..... ADJUSTED
Mixture..... SET FOR ALTITUDE
Engine Gauges..... CHECK
Heading Indicator..... SET TO COMPASS
Flight Plan..... OPEN

DESCENT

Throttle..... 2500 RPM (Max)
Mixture..... ENRICHEN
Altimeter..... SET
Fuel Selector..... BOTH
Wing Flaps..... AS DESIRED
Switches (lights, etc)..... AS DESIRED

BEFORE LANDING

Carburetor Heat..... ON
Fuel (Gas)..... BOTH
Undercarriage..... DOWN AND LOCKED
Mixture..... SET
Power..... SET
Seats & Seatbelts..... CHECK & ADJUST

LANDING

Downwind.....90 MPH MAX
Abeam Numbers.....85 KIAS / FLAPS 10°
Base Leg.....75 MPH / FLAPS 20°
Final Leg.....65 MPH / FLAPS DOWN

AFTER LANDING

Flaps..... RETRACT
Transponder..... VERIFY STBY
Ground Clearance..... OBTAIN
Pitot Heat..... OFF
Lights..... AS REQUIRED

ENGINE SHUTDOWN

1. Throttle..... 1000 RPM
2. Avionics Master..... OFF
3. Mixture..... LEAN CUTOFF
4. Ignition..... OFF (Keys Out of Ignition)
5. Elec. Equip..... OFF (except BEACON)
6. Fuel Quantity..... NOTE
7. Master Switch..... OFF

SECURING AIRCRAFT

1. Control Lock..... INSTALL
2. Fuel Selector..... LEFT or RIGHT
3. Hobbs & Tach Times..... RECORD
4. Sunscreen..... INSTALL
5. Wheels..... CHOCK
6. Tiedowns..... SECURE
7. Engine Heater..... PLUG IN (in Winter)
8. Cowl Plugs..... INSTALL
9. Pitot Tube Cover..... INSTALL
10. Flight Plan..... CLOSE

AIRCRAFT SPEEDS

V_A..... 103 to 122 MPH
V_{FE}..... 100 MPH
V_{NO}..... 140 MPH
V_{NE}..... 174 MPH
V_{S1}..... 57 MPH
V_{S0}..... 49 MPH
V_X..... 71 MPH
V_Y..... 80 MPH
Max Demonstrated crosswind..... 15 MPH
V_g..... 80 MPH

Engine Failure on Takeoff:

Throttle..... IDLE
Brakes..... APPLY
Flaps..... RETRACT
Mixture..... IDLE CUTOFF
Ignition..... OFF
Master Switch..... OFF

Engine Failure After Takeoff:

Airspeed..... 80 MPH
Mixture..... IDLE CUTOFF
Fuel Selector Valve..... OFF
Ignition..... OFF
Flaps..... AS DESIRED (40° Recommended)
Master..... OFF

Engine Failure in Flight Restart:

Airspeed..... 80 MPH
Carburetor Heat..... ON
Fuel Selector Valve..... BOTH
Mixture..... RICH
Ignition Switch..... BOTH
..... START if the Propeller has STOPPED
Primer..... IN AND LOCKED

Engine Fire in Flight:

Mixture..... IDE CUTOFF
Fuel Selector Valve..... OFF
Master Switch..... OFF
Cabin Heat and Air..... OFF
Airspeed..... 120 MPH or GREATER
to provide incombustible mixture
Forced Landing..... EXECUTE

Electrical Fire in Flight:

Master Switch..... OFF
Avionics Power..... OFF
All Switches except Ignition..... OFF
Vents/Cabin Air/Heat..... CLOSED
Fire Extinguisher..... ACTIVATE

Wing Fire:

Exterior Light Switches..... OFF
Pitot Heat..... OFF
Airplane..... SIDESLIP
(keep flames away from fuel & cabin)
Flaps..... AS NEEDED TO LAND
Cabin..... EVACUATE

Fire During Ground Start:

Starting..... CONTINUE
..continuing to start can suck the flames into
the engine.
If Engine Starts:
Power..... 1700 RPM for a few minutes
Engine..... SHUTDOWN inspect for damage
If Engine Fails to Start:
Throttle..... FULL OPEN
Mixture..... IDLE CUTOFF
Cranking..... CONTINUE
Fire Extinguisher..... OBTAIN
Engine..... SECURE
Master..... OFF
Ignition..... OFF
Fuel Selector Valve..... OFF
Fire..... EXTINGUISH
Fire Damage..... INSPECT

IMPORTANT CONTACTS

PASA Main Line
(269) 903-5427
Call / Text

info@plainwellaviation.org

If In Immediate Danger
Call 911



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