

Cessna 152: Preflight

WX & personal minimums ..Checked
Weight and balance.....Checked
Airplane squawks/obsChecked
Fuel quantity Check visually
Pitot tube coverRemove

Cockpit

Control wheel lock.....Remove
Ignition switch..... Off
Radios, intercom, transponder..... Off
(or Avionics master)
All lights (exterior & interior) Off
Hobbs time.....Check and record
AROW documents Check present
Master switch.....On
Fuel quantity indicators.....Check
Turn coordinator gyro Listen for
Flaps..... Lower
Exterior lights [& Pitot heat] On
..... Walk around and check
Exterior lights [& Pitot heat]..... Off
Master switch..... Off

Left Side

Static port.....Check for blockage
Door hinges.....Check
Wing air vent.....Check for blockage
Wing strut.....Check secure
Wing tiedown.....Remove
Fuel vent.....Check for blockage
Pitot tubeCheck for blockage
Stall warning Check and test
Wing leading edgeCheck
Wing tipCheck
Wing bottomCheck access ports
Aileron Check movement
..... Check hinges
.....Check actuator arm
..... Check anti-flutter weights
Flap Check security
.....Check actuator arm
Main tire.....Check inflation and tread
..... Check brakes

Rear

Horizontal stabilizerCheck secure
Access ports (if any)...Check secure
Elevator..... Check movement
.....Check secure

..... Check hinges
..... Check elevator trim tab
Rudder.....Remove gust lock
.....Check movement
..... Check control cables
.....Check rudder trim tab
Rear tiedown..... Remove
Under fuselage..... Check
Top of fuselage & wings Check

Right Side

Access ports (if any)..... Check secure
ELT antenna Check secure
Wing bottom..... Check access ports
Main tire Check inflation and tread
..... Check brakes
Flap.....Check security
..... Check actuator arm
Aileron.....Check movement
..... Check hinges
..... Check actuator arm
..... Check anti-flutter weights
Wing tip..... Check
Wing leading edge..... Check
Wing tiedown Remove
Wing strut..... Check secure
Wing air vent..... Check for blockage
Door hinges Check

Front

Cowl Check secure
Oil..... Check quantity (> 4 quarts)
Propeller .. Check for nicks & damage
Spinner Check for damage
Cowl openings Check
Alternator belt..... Check tight
Landing light Check condition
Air filter..... Check for blockage
Nose wheel strut Check inflation
Nose tire Check inflation and tread

Fluids

Wing fuel sumps (2) ... Drain & check
Nose fuel sump..... Drain & check
Fuel quantity (2)Check visually
Fuel filler caps (2)Secure

All tires.....Roll and check

Cessna 152: Engine Start, Taxi, and Runup

Engine Start

Passengers briefed
..... Seats, belts and harnesses
..... Door operation
..... Headset
..... Emergency procedures
..... Emergency supplies
..... Sterile cockpit
..... Looking for traffic
Cell phones..... Off
Seats..... Adjust and lock
Seat belts & harnesses..... Adjust
Fuel shutoff valve..... On
Radios, intercom, transponder..... Off
(or Avionics master)
Circuit breakers..... Check in
Brakes..... Test and hold

Mixture..... Rich
Throttle open..... ¼ inch
Carburetor heat..... Off
Prime..... As required (3 strokes)
Primer..... Check locked
Master switch..... On
Tail beacon (anti-collision light) ... On
Brakes..... Hold tight
Propeller area..... Check & yell
Ignition switch..... Start
Throttle..... Adjust to 1000 RPM
Oil pressure..... Check
Ammeter&high volt light ...Check
Mixture..... Lean as appropriate

Flaps..... Up
Transponder..... Standby
Radios and intercom..... On
(or Avionics master)
Lights..... As required
Radios..... Get ATIS
Altimeter..... Set
Heading indicator..... Set

(Contact ground for taxi instructions)

→ Execute taxi checklist ←
→ during taxi ←

Taxi

Attitude indicator.. Level during turns
..... No dip during acceleration
Heading indicator..... Turns
Turn coordinator..... Banks
Compass..... Moves freely

Engine Runup

Cabin doors..... Closed and latched
Flight controls..... Free and correct
Ailerons, elevator, rudder,
elevator trim
Elevator trim..... Set for takeoff
Fuel shutoff valve..... On
Mixture..... Rich (below 3000 feet)
Throttle..... 1700 RPM
Magnetos..... Check
(Max 125 RPM drop, 50 RPM diff)
Oil temp & pressure..... Check
Suction gauge..... Check
Ammeter..... Check
Carburetor heat..... On
(RPM drop, no further increase)
Carburetor heat..... Off
(RPM increase)
Carburetor heat..... On
Throttle..... Full idle, check smooth
Carburetor heat..... Off
Throttle..... 1000 RPM
Mixture..... Lean as appropriate

→ Go to takeoff checklist ←

Cessna 152: Takeoff through Shutdown

Takeoff (EVERY ONE!)

Flight instruments Check & Set
Radios Check & Set
Transponder Appropriate code
Fuel shutoff valve On
Takeoff technique Choose
Flaps... Up (10° for short or soft field)
Elevator trim Set
Carburetor heat Off
Mags Both
Seat belts & harnesses Adjust
Doors and windows Latched
Speeds & emergency plans Review
Abort point/speed Choose
Minimum static RPM 2280
Rotate at 50 KIAS
Climb at 67 KIAS
..(54 KIAS short field until clear)

Radios Contact tower/CTAF

When cleared onto the runway:
Takeoff time Record
Lights All on
Transponder Altitude
Mixture Rich (below 3000 feet)

Cruise

Power 1900-2550 RPM
Mixture Lean as appropriate
Lights As required
Heading indicator Set

Before Landing

(L) Lights On
(C) Carburetor heat On
(G) Fuel shutoff valve On
(U) Brakes Test, heels on floor
(M) Mixture Rich (< 3000 feet)
(P) Propeller N/A
(S) Seats, belts, and harnesses
..... Adjust and lock

Final approach speed 60 KIAS
..... (54 KIAS short field)

Best glide..... 60 KIAS

Go-Around

Throttle Full
Carburetor heat Off
Flaps Retract to 20°
Airspeed 55 KIAS
Flaps 10° until obstacles cleared

After Landing

Flaps Up
Mixture Lean as appropriate
Elevator trim Set
Carburetor heat Off
Lights As required
Transponder Standby
Radios... Contact ground if applicable

Shutdown and Securing

Radios, intercom, transponder Off
(or Avionics master)
Throttle Idle
Mags Check briefly in off position,
then both
Throttle 1000 RPM
Mixture Idle cut-off
Ignition switch... Off and remove key
Master switch Off
Lights (exterior and interior) Off

In tie-down spot:

Tiedown ropes Tie
Hobbs time Record
Control lock Install
Pitot tube cover Install
Door Lock

Important Airspeeds

Vx 55 KIAS
Vy 67 KIAS
Vne 149 KIAS
Vno 111 KIAS
Va 93-104 KIAS
Vfe 85 KIAS
Max window open 143 KIAS

Cessna 152: In-Flight Emergency Procedures

Engine Failure During Flight

Airspeed 60 KIAS (flaps up)
Turn toward preselected field

If time permits, try to restart:

Fuel shutoff valve..... On
Mixture..... Rich
Throttle..... Full
Carburetor heat..... On
Ignition switch..... Both
.....Start (if propeller stopped)
Primer..... In and locked

If time permits, call for help:

Transponder 7700
Radio Last frequency or 121.5
... Announce MAYDAY and position

Seat belts Tight
Passengers Brief
(Door operation, seat belts,
seat/crash position, exiting airplane)

When committed to landing:

Fuel shutoff valve..... Off
Mixture..... Idle cut-off
Ignition switch..... Off
Flaps..... As required [30°]
Master switch..... Off
Doors..... Unlatch

Engine Fire During Start

Starter..... Continue cranking

If engine starts:

RPM 1700 for a few minutes
Engine Shutdown

If engine fails to start:

Starter..... Continue cranking
to draw fire into engine
Master switch Off
Ignition switch..... Off
Fuel shutoff valve..... Off
Fire extinguisher Activate

Engine Fire in Flight

Fuel shutoff valve..... Off
Mixture..... Idle cut-off
Ignition switch..... Off
Master switch Off
Cabin heat and air..... Off
Wing vents..... Open
Airspeed 85 KIAS
Increase as necessary to put out fire
Seat belts Tight
Passengers Brief
(Door operation, seat belts,
seat/crash position, exiting airplane)
Doors Unlatch

Electrical Fire in Flight

Master switch Off
All switches (except ignition)..... Off
Vents, cabin air, heat Closed
Fire extinguisher..... Activate
Airplane..... Land ASAP

Cabin Fire

Master switch Off
Vents, cabin air, heat Closed
Fire extinguisher..... Activate
Cabin Ventilate
Airplane..... Land ASAP

Excessive Rate of Charge

Alternator Off
Nonessential electrical equip Off
Airplane..... Land ASAP

Low-Voltage Light

Ammeter..... Verify discharge
Avionics Off
Master switch Off (both sides)
Master switch On (both sides)
Low-voltage light Check off
Avionics On

If low-voltage light illuminates again:

Alternator Off
Nonessential electrical equip Off
Flight Terminate ASAP