



Aircraft Checklist

Cessna 152

This is an abbreviated checklist. Most explanatory items, notes cautions and warnings have been omitted for brevity. Procedures in listed in red/bold text in this checklist should be committed to memory. All performance speeds should be computed prior to flight using the Aircraft Owner's Manual. This checklist is for training purposes only; users must be familiar with and operate in accordance with the official Aircraft Owner's Manual.



Cessna 152 Preflight Checklist

CABIN PREFLIGHT INSPECTION

REMOVE GUST LOCKS & PITOT COVER IF INSTALLED

1. Fuel Quantity CHECK
2. InspectionsCHECK DATES and TIMES
3. Weight and CG WITHIN LIMITS
4. Documents CHECK
5. Control Wheel Lock..... REMOVE
6. Ignition Switch.....OFF
7. Master Switch ON
8. Fuel Quantity Indicators CHECK
9. Low Vacuum Warning Light (if installed)CHECK ON
10. Flaps EXTEND
11. Interior and Exterior Lights CHECK
12. Pitot Heat CHECK then OFF
13. Master SwitchOFF
14. Fuel Shutoff Valve ON
15. Fire ExtinguisherCHECK CHARGE

EXTERIOR PREFLIGHT INSPECTION

Empennage

1. Antennas CHECK
2. Left Side of Fuselage CHECK
3. Control Surfaces..... CHECK
4. Tail Tie-down..... REMOVE
5. Position Light..... CHECK
6. Right Side of Fuselage CHECK

Right Wing

1. Flap and Aileron CHECK
2. Wingtip Lights CHECK
3. Wing..... CHECK
4. Wing Tie-down REMOVE
5. Wing Root Vent CHECK
6. Wheel Assembly CHECK
7. Fuel Tank Sump..... DRAIN and CHECK
8. Fuel Quantity CHECK/ CAP SECURE



Nose

1. Fuel Strainer.....DRAIN and CHECK
2. Oil Quantity(4-6 quarts) CHECK
3. Fuel Line Quick DrainDRAIN and CHECK
4. Cowling, Propeller and Spinner..... CHECK
5. Air Inlets / Oil CoolerCLEAR
6. Alternator Belt CHECK
7. Landing Light..... CHECK
8. Carburetor Air Filter CHECK
9. Nose Wheel Assembly..... CHECK
10. Static Port..... CHECK
11. Windshield CLEAN and CHECK

Left Wing

1. Fuel Tank Sump.....DRAIN and CHECK
2. Fuel Quantity CHECK / CAP SECURE
3. Wing Root Vent CHECK
4. Pitot Tube..... CHECK
5. Stall Warning Opening CHECK for BLOCKAGE
6. Wing Tie-down REMOVE
7. Fuel Tank Vent CHECK for BLOCKAGE
8. Wing..... CHECK
9. Wingtip Lights CHECK
10. Flap and Aileron CHECK
11. Wheel Assembly..... CHECK

Before Starting Engine

1. Preflight Inspection.....COMPLETE
2. Passenger BriefingCOMPLETE
3. Seat Belts/ Shoulder Harness ADJUSTED/ SECURE
4. Fuel Shutoff Valve..... ON
5. Circuit Breakers CHECK IN
6. Radios and Electrical Equipment.....OFF
7. Brakes TEST and SET

V Speeds

V _{so}	35 KIAS
V _s	40 KIAS
V _r	50 KIAS
V _x	55 KIAS
V _y	64 KIAS
V _{fe}	85 KIAS
V _a	1670Lbs104 KIAS
	1500Lbs...98 KIAS
	1350Lbs93 KIAS
V _{no}	111 KIAS
V _{ne}	149 KIAS

Starting Engine

1. Mixture..... RICH
2. Throttle.....OPEN ¼ to ½ INCH
3. Carburetor Heat.....OFF
4. Beacon..... ON
5. Prime AS REQUIRED/IN and LOCKED
6. Battery Switch..... ON
7. Propeller AreaCLEAR
8. Ignition..... ENGAGE

Do not crank more than 10 seconds/Allow 20 seconds to cool*

9. Throttle..... 1000 RPM
10. Oil Pressure INDICATING GREEN
11. Mixture..... LEAN for TAXI
12. Alternator ON
13. Ammeter CHECK
14. FlapsRETRACT
15. Navigation Lights.....AS REQUIRED
16. Radios ON
17. TransponderSTANDBY/1200
18. Heading Indicator.....SET
19. ASOS/ATISOBTAIN
20. AltimeterSET
21. Advisory/Departure & Taxi Clearance CONTACT

****Refer to POH if engine does not start after 3 attempts***

Taxi

1. Brakes CHECK
2. Instrument Cross-Check..... CHECK

Before Takeoff

1. Nose Wheel STRAIGHT
2. Brakes SET and HOLD
3. Flight Controls FREE and CORRECT
4. Fuel Shut-off Valve..... ON
5. Mixture..... RICH
6. Throttle..... 1700 RPM
7. Mixture..... SET for DENSITY ALTITUDE
8. Carburetor Heat.....CHECK DROP
9. Magnetos.....(125 max drop, 50 diff.) CHECK
10. Engine Gauges and Ammeter CHECK
11. Suction GREEN ARC
12. Throttle..... CHECK IDLE
13. Throttle..... 1000 RP M
14. Throttle Friction Lock..... ADJUST
15. Communication/Navigation Radios.....SET
16. Flight Instruments SET and CHECKED
17. Fuel Quantities CHECKED
18. Trim..... SET for TAKEOFF
19. Flaps SET for TAKEOFF
20. Cabin Doors & Windows..... CLOSED and LATCHED
21. Seats ADJUSTED/ LOCKED
22. Departure Briefing CLEARANCE / EMERG. PLAN
23. Advisory/ Tower CONTACT

Cleared For Takeoff

1. LightsAS REQUIRED
2. TransponderALTITUDE
3. Brakes RELEASE
4. Traffic CHECK

Normal Takeoff

1. Wing Flaps 0°-10°
2. Carburetor Heat..... COLD
3. Throttle..... FULL OPEN
4. Elevator Control..... LIFT NOSE AT 50 KIAS
5. Climb Speed..... 60-75 KIAS
6. Flaps RETRACT IF APPLICABLE

Short Field Takeoff

1. Wing Flaps 10°
2. Carburetor Heat..... COLD
3. Brakes HOLD
4. Throttle..... FULL OPEN
5. Engine GaugesGREEN
6. Brakes RELEASE
7. Elevator Control..... SLIGHTLY TAIL LOW
8. Obstacle Clearance Speed.....54 KIAS

After Clearing Obstacle:

9. Airspeed ACCELERATE FOR NORMAL CLIMB
10. Wing FlapsRETRACT

Soft Field Takeoff

1. Wing Flaps 10°
2. Carburetor Heat..... COLD
3. Elevator Control..... TAIL LOW
4. Throttle..... FULL OPEN
5. Accelerate WHILE IN GROUND EFFECT
6. Climb Speed..... 60-70 KIAS
7. Wing Flaps RETRACT

Enroute Climb

1. Airspeed 70-80 KIAS
2. Throttle..... FULL OPEN
3. Mixture..... AS REQUIRED

Cruise

1. Power SET for CRUISE
2. Trim..... AS REQUIRED
3. Mixture..... LEAN for CRUISE
4. Landing Light..... OFF
5. Heading Indicator..... CROSS-CHECK

Descent

1. ASOS/ATISOBTAIN
2. AltimeterSET
3. Arrival/Passenger Briefing.....COMPLETE
4. Mixture.....ADJUST AS REQUIRED
5. PowerAS REQUIRED
6. Carburetor Heat.....AS REQUIRED
7. Landing Light..... ON
8. Wing FlapsAS REQUIRED

Before Landing

1. Seats, Belts and Shoulder Harnesses ...ADJUST/LOCKED
2. Mixture.....AS REQUIRED
3. Carburetor Heat..... ON

Normal Landing

1. PowerAS REQUIRED
2. Airspeed (flaps up) 70 KIAS
3. Wing FlapsAS REQUIRED
4. Airspeed (flaps down) 60 KIAS
5. Touchdown MAIN WHEELS FIRST
6. BrakesAPPLY AS NECESSARY

Short Field Landing

1. PowerAS REQUIRED
2. Wing Flaps 30°
3. Airspeed54 KIAS
4. Touchdown MAIN WHEELS FIRST
5. Wing FlapsRETRACT
6. Brakes APPLY AS NECESSARY

Soft Field Landing

1. PowerAS REQUIRED
2. Wing Flaps 30°
3. Airspeed60 KIAS
4. Touchdown MAIN WHEELS FIRST
5. Landing RollTAIL LOW

Go Around (Balked Landing)

1. Throttle..... FULL OPEN
2. Carburetor Heat..... COLD
3. Wing FlapsRETRACT TO 20°
4. Climb Speed.....55 KIAS
5. Wing Flaps 10°
6. Wing Flaps (after clearing obstacles) RETRACT

After Landing / Clear Of Runway

1. Flaps UP
2. Mixture..... LEAN for TAXI
3. Carburetor Heat.....OFF
4. Landing Light.....OFF
5. TransponderSTANDBY
6. Taxi Clearance / AdvisoryCONTACT

Securing Airplane

1. Radios & Electrical EquipmentOFF
2. Throttle..... IDLE
3. Magnetos..... CHECK GROUNDING
4. Throttle..... 1000 RPM
5. Mixture..... IDLE CUT-OFF
6. IgnitionOFF
7. Master SwitchOFF
8. Beacon.....OFF
9. Control Lock INSTALL
10. Flight Information.....RECORD
11. Pitot Tube Cover..... INSTALL
12. Wheel Chocks & Tie DownsSECURE
13. Post Flight Walk-Around.....COMPLETE
14. Doors.....LOCKED

ABNORMAL PROCEDURES

Flooded Start

1. Mixture IDLE CUT-OFF
 2. Throttle..... FULL OPEN
- Proceed with item 3 from “Starting Engine” checklist page 6**

Ammeter Shows Excessive Rate Of Charge

1. Alternator..... OFF
2. Nonessential Electrical Equipment OFF
3. Flight..... LAND AS SOON AS PRACTICAL

Low Voltage Light Illuminates In Flight

1. Radios OFF
2. Alternator Circuit Breaker..... CHECK IN
3. Alternator Switch..... OFF then ON
4. Low Voltage Light CHECK OFF
5. Radios ON

If Low Voltage Light Illuminates Again:

6. Alternator..... OFF
7. Nonessential Electrical Equipment OFF
8. Flight..... TERMINATE

Landing With A Flat Main Tire

1. Flaps.....AS REQUIRED
2. Approach.....NORMAL
3. TouchdownGOOD TIRE FIRST
4. Directional Control MAINTAIN
(using brake on good tire)

Landing With A Flat Nose Tire

1. Flaps.....AS REQUIRED
2. Approach.....NORMAL
3. TouchdownMAIN GEAR FIRST
4. Elevator..... AS NECESSARY TO DELAY
NOSE GEAR CONTACT

Maintain full aft elevator deflection during ground roll

EMERGENCY CHECKLIST

This is an operational checklist. Procedures in red/bold text in this section should be committed to memory. The official aircraft AFM contains additional procedures and expanded procedures not listed in this checklist. Users should be familiar with all procedures

Airspeeds For Emergency Operation

Engine Failure After Takeoff.....60 KIAS
Maximum Glide.....60 KIAS

Landing Without Engine Power:

Flaps Up.....65 KIAS
Flaps Down.....60 KIAS

Engine Failure Immediately After Takeoff

1. **Airspeed..... 60 KIAS**
2. **Mixture..... IDLE CUT-OFF**
3. **Fuel Shutoff Valve..... OFF**
4. **Ignition Switch..... OFF**
5. **Flaps..... AS REQUIRED**
6. **Master Switch..... OFF**
7. **Land.STRAIGHT AHEAD**

Engine Failure / Power Loss During Flight

1. Airspeed.....**60 KIAS**
2. Carburetor Heat.....**ON**
3. Fuel Shutoff Valve.....**ON**
4. Mixture.....**RICH**
5. Throttle.....**OPEN**
6. Primer.....**IN and LOCKED**
7. Magnetos.....**CHECK BOTH**

Emergency Landing Without Engine Power

1. Airspeed.....**60 KIAS**
2. Landing Site.....**DETERMINE**
3. Seats, Seatbelts, Shoulder Harnesses.....**SECURE**
4. Mixture.....**IDLE CUT-OFF**
5. Fuel Shutoff Valve.....**OFF**
6. Ignition Switch.....**OFF**
7. Flaps.....**AS REQUIRED**
8. Master Switch.....**OFF**
9. Doors.....**UNLATCH**
10. Touchdown.....**SLIGHTLY TAIL LOW**
11. Brakes.....**APPLY AS NECESSARY**

Precautionary Landing With Engine Power

1. Seats, Seatbelts, Shoulder Harness..... SECURE
2. Airspeed..... 60 KIAS
3. Selected Field..... FLY OVER
4. Flaps..... AS REQUIRED
5. Airspeed..... 55 KIAS
6. Master Switch OFF
7. Doors..... UNLATCH
8. Touchdown SLIGHTLY TAIL LOW
9. Ignition Switch OFF
10. Brakes APPLY

Fire During Engine Start

1. Cranking CONTINUE

If Engine Starts:

2. Power 1700 RPM
3. Engine SHUTDOWN

If Engine Fails to Start:

2. Cranking CONTINUE
3. Throttle FULL OPEN
4. Mixture..... IDLE CUT-OFF
5. Master Switch OFF
6. Ignition Switch..... OFF
7. Fuel Shutoff Valve..... OFF
8. Fire Extinguisher..... OBTAIN

Engine Fire In Flight

1. MixtureIDLE CUT-OFF
2. Fuel Shutoff ValveOFF
3. Master SwitchOFF
4. Cabin Heat and Air CLOSED
5. Wing Root Vents OPEN
6. Airspeed 85+ KIAS
7. Forced Landing EXECUTE

Electrical Fire In Flight

1. Master SwitchOFF
2. Vents, Cabin Heat and Air CLOSED
3. Fire Extinguisher ACTIVATE
4. Avionics OFF
5. All Electrical Switches (except ignition)..... OFF

If Fire Appears Out:

6. Master Switch ON
7. Circuit Breakers CHECK (do not rest)
8. Radio and Electrical Switches (one at a time) ON

Cabin Fire

1. Master SwitchOFF
2. Vents, Cabin Heat and Air CLOSED
3. Fire Extinguisher (if available) ACTIVATE
4. FlightTERMINATE

Wing Fire

1. Navigation Light SwitchOFF
2. Strobe Light Switch.....OFF
3. Pitot Heat SwitchOFF

Perform a side slip to keep the flames away from the fuel tank and cabin, and land as soon as possible with flaps retracted.

Should any mechanical difficulty, accident, incident or delay occur, please contact a Leading Edge Aviation representative before continuing any flight. **DO NOT FLY** any aircraft that may have been damaged, until it has been inspected and certified airworthy by a certified mechanic. Call Leading Edge Aviation 435-752-5955.

Passenger/Crew Briefing Checklist

Before Engine Start:

1. Normal and emergency exit procedures
2. Seatbelt operations
3. Fire extinguisher location & operations
4. Identify PIC for the flight
5. Positive exchange of flight controls process

Before Take-Off:

1. Verify runway in use
2. Type of take-off
3. Direction of departure (VFR)
4. Departure clearance (IFR)
5. Emergency plan
 - a. Emergency on runway
 - b. Emergency after liftoff
 - c. Emergency at altitude
 - d. Flying/non-flying pilot roles during emergency operations

Approach:

1. Verify runway in use
2. Type of landing
3. Expected crosswind direction/intensity
4. Traffic pattern (VFR)
5. Instrument approach briefing (IFR)

Emergency Transponder Codes:

Air Piracy: 7500
Lost Communication: 7600
General Emergency: 7700

Emergency 2-Way Communication Frequency:

Guard Frequency: 121.5