



## Cessna 152 Checklist

### FLIGHT PREP

- ✓ Nav log *Prepare*
- ✓ Weather Brief, Flight plan *File*
- ✓ ARROW, Inspections *Up to Date*
- ✓ Performance/Range *Verify*
- ✓ Fuel *Adequate*

### PREFLIGHT (CABIN)

- ✓ Hobbs Log *Starting Hours*
- ✓ Gust Lock *Remove*
- ✓ Magnetos/Avionics Master *Off, Master On*
- ✓ Fuel *Full*
- ✓ Flaps *Test/Down*
- ✓ Fuel Shut-Off—*On*
- ✓ Night, *Test all Lighting*
- ✓ Master switch *Off/Mixtures cut-off*

### LEFT WING

- ✓ Static source *Check*
- ✓ Cabin air vents *Check*
- ✓ Fuel Sump *Drain*
- ✓ Left Tank Fuel Level/Cap *Check*
- ✓ Left Wheel *Check*
- ✓ Pitot tube *Unobstructed*
- ✓ Stall horn opening *Unobstructed*
- ✓ Left wing tie-down *Release*
- ✓ Fuel vent *Unobstructed*
- ✓ Left wing leading edge *Inspect*
- ✓ Red navigation light *Inspect*
- ✓ Left wing tip *Inspect*
- ✓ Left aileron/flap *Check*
- ✓ Antennas (above and below) *Secure*
- ✓ Belly *No Excess Oil*

### EMPENNAGE

- ✓ Left leading edge stabilizer *Inspect*
- ✓ Elevator/Rudder/Trim Tab *Inspect*
- ✓ Tail tie-down *Remove*
- ✓ Right leading edge stabilizer *Inspect*

### RIGHT WING

- ✓ Right aileron/flap *Check*
- ✓ Green navigation light *Inspect*
- ✓ Right wing tip *Inspect*
- ✓ Right wing leading edge *Inspect*
- ✓ Right wing tie-down *Release*
- ✓ Right Wheel *Check*
- ✓ Fuel Sump *Drain*
- ✓ Right Tank Fuel Level/Cap *Check*

### NOSE

- ✓ Fuel Strainer *Drain (4 seconds)*
- ✓ Oil *Check (4 qts min, 6 long range)*
- ✓ Nose strut and wheel *Check*
- ✓ Propeller/Spinner *Undamaged*
- ✓ Landing lights *Inspect*
- ✓ Cowl Openings *Unobstructed*
- ✓ Alternator Belt *Intact*
- ✓ Air intake filter *Unobstructed*
- ✓ Windshield *clean*

### ENGINE START

- ✓ Preflight *Complete*
- ✓ Seat *Adjust*
- ✓ Passengers *Brief (Belts and Exits)*
- ✓ Seats, Belts, Doors *Secure*
- ✓ Circuit Breakers *Check*
- ✓ Electric All Switches *Off (except beacon On)*
- ✓ Avionics Master *Off*
- ✓ Transponder *STBY*
- ✓ Mixture—*Rich*
- ✓ Carb Heat *Cold*
- ✓ Prime *As Required (up to 3 Strokes)*
- ✓ Throttle *1/2"*
- ✓ Master *On*
- ✓ Brakes, *Test/Set*
- ✓ Propeller area *"Clear!"*
- ✓ Engine *Start, Throttle 1000 RPM*

- ✓ Oil Pressure *Check*
- ✓ Nav/Taxi/Inst Lights *On (night/bad weather)*
- ✓ Avionics Master *On*
- ✓ Mixtures *Lean*
- ✓ Fresh Air Controls *Adjust*

### TAXI

- ✓ Frequencies *Set (121.9 Ground, 118.3 Tower and 134.5 ATIS at PIE)*
- ✓ Nav devices *Set*
- ✓ ATIS/ASOS/AWOS *Obtain*
- ✓ Altimeter/Heading Indicator *Adjust*
- ✓ Flaps *Retract*
- ✓ Brakes *Check*
- ✓ Heading Indicator, Compass, turn coordinator *Check*

### RUN-UP

- ✓ Parking Brake *Engage*
- ✓ Cabin Doors/Windows *Secure*
- ✓ Flight Controls *Check*
- ✓ Flight/Engine Instruments *Check*
- ✓ Mixture—*Full Rich*
- ✓ Fuel Shutoff Valve *On*
- ✓ Throttle *1700 RPM (ensure warm)*
- ✓ Left/Right Mags, *<125 RPM Drop, <50 RPM Difference*
- ✓ Carb Heat, *Check for RPM Drop, Then Cold*
- ✓ Fuel Gauge *Sufficient*
- ✓ Engine Instruments *Recheck*
- ✓ Throttle to *1000 RPM*
- ✓ Mixture *Full Rich (or as appropriate)*
- ✓ Friction lock *Adjust*
- ✓ Pitot Heat *As Required*
- ✓ Trim *Take-off*
- ✓ Flaps *0 – 10*
- ✓ Transponder Alt, Squawk *Check*
- ✓ Strobe lights *On*
- ✓ Parking Brake *Release*
- ✓ Frequency *Tower*

## TAKE-OFF

- ✓ Engine Instruments *Monitor* (before rotating—prepare to abort)
- ✓ Rotate *50*
- ✓ Climb *67 Vy (55 Vx)*
- ✓ Retract flaps

## CRUISE CLIMB

- ✓ Mixture *Adjust*
- ✓ Speed *80*
- ✓ Engine Instruments *Monitor*
- ✓ Flight Plan *Activate*

## CRUISE

- ✓ Power *Adjust Cruise Setting*
- ✓ Mixture *Lean*
- ✓ Engine/Flight Instruments *Monitor*
- ✓ Reset altimeter to local settings

## CRUISE DESCENT/APPROACH/LANDING

- ✓ **Carb Heat On**
- ✓ Throttle *Retard* (slowly)
- ✓ Mixtures *Enrichen*
- ✓ ATIS/ASOS/AWOS (or Unicom) *Obtain*
- ✓ Altimeter *Reset*
- ✓ Seat Belts *Secure*
- ✓ Landing lights *On*
- ✓ Heading Indicator *Adjust*
- ✓ Mixture *Full Rich* (or as appropriate)
- ✓ Speed *Reduce below 85, Flaps Full* (or as appropriate)
- ✓ Short Final *65 (55 Short Field)*

## AFTER LANDING

- ✓ Flaps *Retract*
- ✓ Strobes/Landing Lights *Off*
- ✓ Carb Heat *Cold*
- ✓ Transponder *STDBY*

## SECURING

- ✓ Avionics Master *Off*
- ✓ All Electric Switches *Off*
- ✓ Mixture—*Cut-off*
- ✓ Ignition/Master *Off*
- ✓ Gust Lock *Install*
- ✓ **CLOSE FLIGHT PLAN**
- ✓ Hobbs, *Log*
- ✓ Aircraft *Lock*
- ✓ Tie-downs/Chocks *Secure*

## SPEEDS

Vr 50, Vy 67, Vx 55, Vs 40, Vs<sub>0</sub> 35, Vfe: 85, Va: 104  
(lower when lightly loaded), Vno 111, Vne 149, Vg: 60

## EMERGENCY PROCEDURES (SEE POH, A FEW ARE LISTED HERE)

### RADIO FAILURE

- ✓ Frequency, Volume, Squelch Headset *Check*
- ✓ Transponder *7600*
- ✓ Cell Phone *Use* (if possible)
- ✓ Pattern *Enter* (look for light signals)

### ATC LIGHT SIGNALS

Steady green—cleared take-off/landing

Flashing green—cleared taxi (ground) or return for landing (air)

Steady red—Give way to traffic

Flashing red—Taxi off runway (ground) or airport not safe for landing (air)

Flashing white—return to starting point (ground)

Alternately flashing red/green—use caution

## ENGINE FAILURE (IMMEDIATELY AFTER TAKE-OFF)

- ✓ Pitch (60 KIAS with flaps and 65 KIAS without)
- ✓ Troubleshoot, altitude permitting
- ✓ Land *Straight Ahead*
- ✓ Cabin Door *Unlatch*
- ✓ Mixture *Cut-off, Fuel Shutoff Valve Cut-off*
- ✓ Magnetos/Master *Off*
- ✓ Braking *Maximum* (avoid obstacles)

## ENGINE FAILURE (MID-FLIGHT)

- ✓ Pitch *60 Kts*
- ✓ Flaps *Retract*
- ✓ Carb Heat *On*
- ✓ Landing site *Select*
- ✓ Wind Heading (for landing site) *Ascertain*
- ✓ Primer *In/Locked*
- ✓ Fuel shut-off valve *On*
- ✓ Mixture *Rich*
- ✓ Ignition *Engage* (pitch down for wind-milling)
- ✓ If no restart, *try L or R magnetos only*
- ✓ If no restart, *Recycle Magnetos On/Off*
- ✓ If no restart, *Maintain 60 Kts*
- ✓ Communicate *121.5* (or current frequency)
- ✓ Transponder *7700*
- ✓ Seatbelts/Harnesses *Fully Tightened*
- ✓ Fuel Shutoff Valve *Off/Mixture Idle*
- ✓ Magnetos *Off*
- ✓ Master *Off* (when landing assured)
- ✓ Doors *Cracked Ajar*
- ✓ Flaps *as needed*
- ✓ Airspeed on final *60 Kts*
- ✓ Touchdown *Slightly Tail Low*
- ✓ Brakes *Apply Heavily*

These checklists include *opinions and recommendations* by its author. Pilots are required to verify all information with official sources prior to flight. Neither American Flying Adventures nor Daystar Leasing LLC warrant or represent the accuracy of this data. For correct operation always use the checklists in the original POH. Revised: February 12, 2005