

# CESSNA 152 CHECK-LIST

## **BEFORE STARTING ENGINE**

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Preflight Inspection – COMPLETE.  
Seats, Belts, Shoulder Harnesses – ADJUST and LOCK  
Fuel Shut-Off Valve – ON  
Radios, Electrical Equipment – OFF  
Brakes – TEST and SET  
Circuit Breakers – CHECK IN

## **STARTING ENGINE (Temperatures Above Freezing)**

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Mixture – RICH  
Carburetor Heat – COLD  
Prime – AS REQUIRED (up to 3 strokes)  
Throttle – OPEN ½ INCH  
Propeller Area – CLEAR  
Master Switch – ON  
Ignition Switch – START (release when engine starts)  
Throttle – ADJUST for 1000 RPM or less  
Oil Pressure – CHECK

## **BEFORE TAKEOFF**

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Parking Brake – SET  
Cabin Doors – CLOSED and LATCHED  
Flight Controls – FREE and CORRECT  
Flight Instruments – SET  
Fuel Shutoff Valve – ON  
Mixture – RICH (below 3000 feet)  
Elevator Trim – TAKEOFF  
Throttle – 1700 RPM  
A. Magnetos – CHECK (RPM drop should not exceed 125 RPM on either Magneto or 50 RPM differential between magnetos).  
B. Carburetor Heat – CHECK (for RPM drop).  
C. Engine Instruments and Ammeter – CHECK  
D. Suction Gage – CHECK  
Radios – SET  
Transponder – ON  
Flashing Beacon, Navigation Lights and/or Strobe Lights – ON as required  
Throttle Friction Lock – ADJUST  
Brakes – RELEASE

## **NORMAL TAKEOFF**

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Wings Flaps – 0° - 10°  
Carburetor Heat – COLD  
Throttle – FULL OPEN  
Elevator Control – LIFT NOSE WHEEL at 50 KIAS  
Climb Speed – 65-75 KIAS

## **SHORT FIELD TAKEOFF**

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Wing Flaps – 10°  
Carburetor Heat – COLD  
Brakes – APPLY  
Throttle – FULL OPEN  
Mixture – RICH (above 3000 ft. LEAN to obtain maximum RPM)  
Brakes – RELEASE  
Elevator Control – SLIGHTLY TAIL LOW  
Climb Speed – 54 KIAS (until all obstacles are cleared)  
Wing Flaps – RETRACT slowly after reaching 60 KIAS

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## **ENROUTE CLIMB**

Airspeed – 70-80 KIAS

Throttle – FULL OPEN

Mixture – RICH below 3000 feet, LEAN for maximum RPM above 3000 feet

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## **CRUISE**

Power – 1900-2550 RPM (no more than 75%)

Elevator Trim – ADJUST

Mixture – LEAN

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## **BEFORE LANDING**

Seats, Belts, Harnesses – ADJUST and LOCK

Mixture – RICH

Carburetor Heat – ON (apply full heat before closing throttle)

### **NORMAL LANDING**

Airspeed – 60-70 KIAS (flaps UP)

Wing Flaps – AS DESIRED (below 85 KIAS)

Airspeed – 55-65 KIAS (flaps DOWN)

Touchdown – MAIN WHEELS FIRST

Landing Roll – LOWER NOSE WHEEL GENTLY

Braking – MINIMUM REQUIRED

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## **SHORT FIELD LANDING**

Airspeed – 60-70 KIAS (flaps UP)

Wing Flaps – 30° (below 85 KIAS)

Airspeed – MAINTAIN 54 KIAS

Power – REDUCE to idle as obstacle is cleared

Touchdown – MAIN WHEELS FIRST

Brakes – APPLY HEAVILY

Wing Flaps – RETRACT

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## **BALKED LANDING**

Throttle – FULL OPEN

Carburetor Heat – COLD

Wing Flaps – RETRACT to 20 °

Airspeed – 65 KIAS

Wing Flaps – RETRACT (slowly)

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## **AFTER LANDING**

Wing Flaps – UP

Carburetor – COLD

Transponder – STAND BY

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## **SECURING AIRPLANE**

Parking Brake – SET

Radios, Electrical Equipment – OFF

Mixture – IDLE CUT-OFF (pull full out)

Ignition Switch – OFF

Master Switch – OFF

Control Lock – INSTALL

Hobbs & Tack Reading

Tie Down – Airplane