

# Cessna 152



## Speeds for Normal Operation

$V_x$	55 KIAS = Best Angle of Climb Speed
$V_y$	67 KIAS = Best Rate of Climb Speed
$V_{l/d}$	65/60 KIAS = Best Glide (lift/drag), flaps up/down
$V_s$	40 KIAS = Stall Speed, normal configuration
$V_{so}$	35 KIAS = Stall Speed, landing configuration
$V_{fo}$	85 KIAS = Maximum Flap Extension Speed
$V_a$	104 KIAS = Maneuvering Speed (at gross weight)
$V_{no}$	111 KIAS = Maximum Structural Cruising Speed
$V_{ne}$	149 KIAS = Never Exceed Speed

65-75 KIAS = Normal Climb Out

54 KIAS = Short Field T/O, Flaps 10°

60-70 KIAS = Normal Landing Approach, Flaps Up

55-65 KIAS = Normal Landing Approach, Flaps 30°

54 KIAS = Short Field Approach, Flaps 30°



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## Emergency Procedures

### ENGINE FAILURE DURING TAKEOFF

1. Throttle .....IDLE
2. Brakes ..... APPLY
3. Wing Flaps.....RETRACT
4. Mixture ..... IDLE CUT-OFF
5. Ignition Switch ..... OFF
6. Master Switch..... OFF

### ENGINE FAILURE AFTER TAKEOFF

1. Airspeed..... (flaps UP) 65 KIAS
2. Airspeed.....(flaps DOWN) 60 KIAS
3. Mixture ..... IDLE CUT-OFF
4. Fuel Selector Valve ..... OFF
5. Ignition Switch ..... OFF
6. Wing Flaps.....AS REQUIRED
7. Master Switch..... OFF

### ENGINE FAILURE DURING FLIGHT

1. Airspeed..... 65 KIAS
2. Carburetor Heat ..... ON
3. Fuel Selector Valve ..... ON
4. Ignition Switch ..... BOTH or START
5. Primer ..... IN & LOCKED



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## Emergency Procedures

### EMERGENCY LANDING

1. Airspeed..... (flaps UP) 65 KIAS
2. Airspeed..... (flaps DOWN) 60 KIAS
3. Mixture ..... IDLE CUT-OFF
4. Fuel Selector Valve ..... OFF
5. Ignition Switch ..... OFF
6. Wing Flaps.....AS REQUIRED
7. Master Switch..... OFF
8. Doors ...UNLATCH PRIOR TO TOUCHDOWN
9. Touchdown ..... SLIGHTLY TAIL LOW
10. Brakes..... APPLY HEAVILY

### PRECAUTIONARY LANDING

1. Wing Flaps..... 20°
2. Airspeed..... 60 KIAS
3. Select field ..... SUITABLE
4. Avionics Power Switch ..... OFF
5. Electrical Switches ..... OFF
6. Wing Flaps (on final approach) ..... 30°
7. Airspeed..... 60 KIAS
8. Master Switch..... OFF
9. Doors ...UNLATCH PRIOR TO TOUCHDOWN
10. Touchdown ..... SLIGHTLY TAIL LOW
11. Ignition Switch ..... OFF
12. Brakes..... APPLY HEAVILY



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## Preflight Inspection

### CABIN

1. Pilot's Operating Handbook ..... AVAILABLE
2. Aircraft Documents ..... AVAILABLE
3. Control Wheel Lock ..... REMOVE
4. Ignition Switch ..... OFF
5. Avionics Power Switch ..... OFF
6. Master Switch ..... ON
7. Fuel Quantity Indicators ....CHECK QUANTITY
8. Flaps ..... DOWN
9. Master Switch ..... OFF

### EMPENNAGE

1. Rudder Gust Lock..... REMOVE
2. Tail Tie-Down .....DISCONNECT
3. Control Surfaces .....CHECK FREE

### RIGHT WING

1. Aileron.....CHECK FREE
2. Wing Tie-Down.....DISCONNECT
3. Main Wheel Tire..... CHECK
4. Fuel Tank Sump ..... SAMPLE
5. Fuel Quantity ..... CHECK
6. Fuel Filler Cap..... SECURE



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## Preflight Inspection

### NOSE

1. Engine Oil Level..... CHECK
2. Fuel Strainer ..... DRAIN
3. Propeller and Spinner ..... CHECK
4. Landing Light ..... CHECK
5. Carburetor Air Filter ..... CHECK
6. Nose Wheel Strut and Tire ..... CHECK
7. Nose Tie-Down .....DISCONNECT
8. Static Source Opening ..... CHECK

### LEFT WING

1. Main Wheel Tire..... CHECK
2. Fuel Tank Sump ..... SAMPLE
3. Fuel Quantity ..... CHECK
4. Fuel Filler Cap ..... SECURE
5. Pitot Tube Cover..... REMOVE
6. Fuel Tank Vent Opening ..... CHECK
7. Stall Warning Opening ..... CHECK
8. Wing Tie-Down.....DISCONNECT
9. Aileron.....CHECK FREE



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## Checklist - Normal Operations

### BEFORE STARTING ENGINE

1. Preflight Inspection.....COMPLETE
2. Seats, Belts, Shoulder Harnesses .....  
..... ADJUST & LOCK
3. Fuel Selector Valve ..... ON
4. Avionics Power Switch ..... OFF
5. Electrical Equipment ..... OFF
6. Brakes ..... TEST & SET
7. Circuit Breakers ..... CHECK IN

### STARTING ENGINE

1. Mixture ..... RICH
2. Carburetor Heat ..... COLD
3. Master Switch ..... ON
4. Prime ..... AS REQUIRED
5. Throttle ..... OPEN ¼ INCH
6. Propeller Area ..... CLEAR
7. Ignition Switch ..... START
8. Throttle ..... 1000 RPM
9. Oil Pressure ..... CHECK
10. Flashing Beacon, Nav. Lights ..... ON
11. Avionics Power Switch ..... ON
12. Radios ..... ON
13. Transponder ..... STANDBY



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## Checklist - Normal Operations

### BEFORE TAXI

1. Wing Flaps.....UP
2. Parking Brake ..... RELEASE
3. Brakes ..... TEST
4. Area .....CLEAR

### BEFORE TAKEOFF

1. Parking Brake .....SET
2. Cabin Doors and Windows.....  
..... CLOSED & LOCKED
3. Flight Controls.....FREE & CORRECT
4. Flight Instruments.....SET
5. Fuel Selector Valve ..... ON
6. Mixture ..... (Below 3000') RICH
7. Elevator Trim..... TAKEOFF
8. Rudder Trim (if installed)..... TAKEOFF
9. Throttle ..... 1700 RPM
10. Magnetos ..... CHECK
11. Carburetor Heat ..... CHECK
12. Engine Instruments ..... CHECK
13. Ammeter ..... CHECK
14. Suction Guage ..... CHECK
15. Throttle ..... 1000 RPM
16. Radios .....SET
17. Transponder..... ON-ALT



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## Checklist - Normal Operations

### **NORMAL TAKEOFF**

1. Wing Flaps..... 0° - 10°
2. Carburetor Heat ..... COLD
3. Throttle ..... FULL OPEN
4. Elevator Control ..... LIFT NOSE AT 55 KIAS
5. Climb Speed .....BEST RATE

### **SHORT FIELD TAKEOFF**

1. Wing Flaps..... 10°
2. Carburetor Heat ..... COLD
3. Brakes ..... APPLY
4. Throttle ..... FULL OPEN
5. Mixture .LEAN above 3000', RICH below 3000'
6. Brakes ..... RELEASE
7. Elevator Control ..... SLIGHTLY TAIL LOW
8. Climb Speed (Until Obstacles Cleared) .....  
.....BEST ANGLE

### **ENROUTE CLIMB**

1. Airspeed..... BEST RATE or HIGHER
2. Throttle ..... FULL OPEN
3. Mixture .LEAN above 3000', RICH below 3000'



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## Checklist - Normal Operations

### **CRUISE**

1. Power.....75% or LESS
2. Elevator Trim.....ADJUST
3. Mixture ..... LEAN

### **DESCENT**

1. Fuel Selector Valve ..... ON
2. Mixture .....ADJUST
3. Power.....AS DESIRED
4. Carburetor Heat .....FULL AS REQUIRED

### **BEFORE LANDING**

1. Seats, Belts, Shoulder Harnesses ..... SECURE
2. Fuel Selector Valve ..... ON
3. Mixture ..... RICH
4. Carburetor Heat ..... ON
5. approach speed ..... 54-65



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## Checklist - Normal Operations

### **BALKED LANDING**

1. Throttle ..... FULL OPEN
2. Carburetor Heat ..... COLD
3. Wing Flaps.....(immediately) 20°
4. attitude ..... nose to horizon
5. Wing Flaps (55 KIAS).....RETRACT
6. Climb Speed .....BEST ANGLE

### **AFTER LANDING**

1. Wing Flaps.....UP
2. Carburetor Heat ..... COLD
3. Transponder.....STANDBY

### **SECURING AIRPLANE**

1. Parking Brake .....SET
2. Avionics Power Switch ..... OFF
3. Electrical Equipment ..... OFF
4. Mixture ..... IDLE CUT-OFF
5. Ignition Switch ..... OFF
6. Master Switch..... OFF
7. Control Lock..... INSTALL



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## Specifications

1670 lbs = Maximum Gross Weight  
1165 lbs = Typical Basic Empty Weight  
358 lbs = Payload With Full Fuel  
6.1 gph = Fuel Flow @ 75% Power

26 gal = Total Fuel Capacity  
24.5 gal = Total Useable Fuel  
100LL = Fuel Octane Rating (Blue)  
6 qts = Oil Sump Capacity  
5 qts = Minimum Oil Quantity

110 hp = Lycoming O-235  
24 V = Battery  
4.4g = Positive Limit Load Factor  
-1.76g = Negative Limit Load Factor





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