

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

CESSNA 172SP

SPECIFICATIONS

Maximum Speed	126 kts, 203 km/hr
Cruise Speed	124 kts, 200 km/hr
Engine	Textron Lycoming IO-360-L2A 180 bhp
Propeller	Macauley Fixed Pitch Two Blade
Maximum Range	638 nm
Service Ceiling	14,000 ft, 4,267 m
Fuel Capacity	56 gal, 212 L
Empty Weight	1,665 lb, 1,002 kg
Maximum Gross Weight	2,550 lb, 1,157 kg
Length	27 ft, 2 in, 8.2 m
Wingspan	36 ft, 1 in, 11 m
Height	8 ft, 11 in, 2.72 m
Seating	Up to 4
Useful Load	893 lb, 423 kg



REFERENCE INFORMATION

FS Full Fuel Weight: 2,550 lbs

VA	105 KIAS (2,550 lbs)
	98 KIAS (2,200 lbs)
	90 KIAS (1,900 lbs)
VFE	110 KIAS (flaps 10)
	85 KIAS (flaps 10 to 30)
VNO	129 KIAS
VNE	163 KIAS
VS	48 KIAS
VSO	40 KIAS
VX	62 KIAS (sea level)
	67 KIAS (10,000' msl)
VY	74 KIAS (sea level)
	72 KIAS (10,000' msl)

Maximum Glide Range Speed:
68 KIAS

LEGENDA

VA - Maneuvering Speed
VFE - Maximum Flaps Extended Speed
VNO - Maximum Structural Cruising Speed
VNE - Never Exceed Speed
VS - Stalling Speed (max. weight)
VSO - Stalling Speed in the Landing Configuration (max. weight, flaps 30)
VX - Best Angle-of-Climb
VY - Best Rate-of-Climb

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BEFORE STARTING ENGINE

- Brakes -- TEST AND SET
- Electrical Equipment, Autopilot -- OFF
- Avionics Master Switch -- OFF
- Fuel Selector Valve -- BOTH

ENGINE START

- Throttle -- OPEN 1/4 INCH
- Mixture -- RICH
- Propeller Area -- CLEAR
- Master Switch -- ON
- Auxiliary Fuel Pump Switch -- ON
- Ignition Switch -- START (release when engine starts)

Then:

- Oil Pressure -- CHECK
- Auxiliary Fuel Pump -- OFF
- Flashing Beacon and Nav Lights -- ON as required
- Avionics Master Switch -- ON
- Flaps -- RETRACT

BEFORE TAKEOFF

- Parking Brake -- SET
- Flight Controls -- FREE AND CORRECT
- Flight Instruments -- CHECK and SET
- Fuel Quantity -- CHECK
- Mixture -- RICH
- Fuel Selector Valve -- RECHECK BOTH
- Elevator Trim -- SET for takeoff
- Throttle -- 1800 RPM
- Magnetos -- CHECK <150 RPM drop on each; <50 RPM drop between
- Suction Gauge -- CHECK
- Engine Instruments and Ammeter -- CHECK
- Annunciator Panel -- CHECK
- Throttle -- 1000 RPM or less
- Strobe Lights -- AS DESIRED
- Radios and Avionics -- SET
- Autopilot -- OFF
- Wing Flaps -- SET for takeoff (0-10 degrees)
- Brakes -- RELEASE

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TAKEOFF

- Wing Flaps -- 0-10 degrees
- Throttle -- FULL OPEN
- Mixture -- RICH (above 3000 feet, LEAN to obtain maximum RPM)
- Elevator Control -- LIFT NOSE WHEEL (at 55 KIAS)
- Climb Speed -- 70-80 KIAS

EN ROUTE CLIMB

- Airspeed -- 70-85 KIAS
- Throttle -- FULL OPEN
- Mixture -- RICH (above 3000 feet, LEAN to obtain maximum RPM)

CRUISE

- Power -- 2100-2700 RPM
- Elevator Trim -- ADJUST
- Mixture -- LEAN

DESCENT

- Power -- AS DESIRED
- Mixture -- ADJUST for smooth operation (Full Rich for idle power)
- Fuel Selector Valve -- BOTH

BEFORE LANDING

- Fuel Selector Valve -- BOTH
- Mixture -- RICH
- Landing/Taxi Lights -- ON
- Autopilot -- OFF

LANDING

- Airspeed -- 65-75 KIAS (flaps UP)
- Wing Flaps -- AS DESIRED
- 0-10 degrees <110 KIAS
- 10-30 degrees <85 KIAS
- Airspeed -- 60-70 KIAS (flaps DOWN)
- Touchdown -- MAIN WHEELS FIRST
- Landing Roll -- LOWER NOSE WHEEL GENTLY
- Braking -- MINIMUM REQUIRED

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AFTER LANDING

- Wing Flaps -- UP

SECURING AIRPLANE

- Parking Brake -- SET
- Avionics Master Switch, Electrical Equipment, Autopilot -- OFF
- Mixture -- IDLE CUT OFF (pulled fully out)
- Ignition Switch -- OFF
- Master Switch -- OFF
- Fuel Selector Valve -- LEFT or RIGHT to prevent crossfeeding

PILOT'S NOTES
