

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

CESSNA 182RG SKYLANE

SPECIFICATIONS

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|-------------------|--------------------------------------|
| Maximum Speed | 145 kts, 167 mph, 269 kmh |
| Cruise Speed | 140 kts, 161 mph, 259 kmh |
| Engine | Textron Lycoming IO-540-AB1A5 230 hp |
| Propeller | McCauley 3-bladed constant speed |
| Maximum Range | 968 nm, 944 sm, 1,519 km |
| Service Ceiling | 18,100 ft, 5,517 m |
| Fuel Capacity | 92 U.S. gal, 333 L |
| Empty Weight | 1,910 lb, 854 kg |
| Max. Gross Weight | 3,110 lb, 1,411 kg |
| Length | 29 ft, 8.84 m |
| Wingspan | 36 ft, 11 m |
| Height | 9 ft, 2.77 m |
| Seating | Up to 4 |
| Useful Load | 1,200 lbs, 557 kg |



REFERENCE INFORMATION

FS Full Fuel Weight: 3,100 lbs

| | |
|-----|----------------------------|
| VA | 112 KIAS (3,100 lbs) |
| | 101 KIAS (2,550 lbs) |
| | 89 KIAS (2,000 lbs) |
| VFE | 140 KIAS (flaps 0 to 10) |
| | 120 KIAS (flaps 10 to 20) |
| | 95 KIAS (flaps 20 to full) |
| VLE | 140 KIAS |
| VLO | 140 KIAS |
| VNO | 159 KIAS |
| VNE | 181 KIAS |
| VS | 41 KIAS |
| VSO | 39 KIAS |
| VX | 65 KIAS (sea level) |
| | 67 KIAS (10,000' msl) |
| VY | 88 KIAS (sea level) |
| | 75 KIAS (10,000' msl) |

Best Glide Speed:

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|--------------------|
| 80 KIAS (3100 lbs) |
| 72 KIAS (2550 lbs) |
| 64 KIAS (2000 lbs) |

LEGENDA

VA - Maneuvering Speed
VFE - Maximum Flaps Extended Speed
VLE - Maximum Landing Gear Extension Speed
VLO - Maximum Gear Operating 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 -- OFF
- Avionics Power Switch -- OFF
- Landing Gear Lever -- DOWN
- Cowl Flaps -- OPEN
- Fuel Selector Valve -- BOTH

ENGINE START

- Prime -- AS REQUIRED
- Throttle -- PUMP once, then OPEN 1/4 INCH
- Propeller -- HIGH RPM
- Mixture -- RICH
- Propeller Area -- CLEAR
- Master Switch -- ON
- Ignition Switch -- START (release when engine starts)

Then:

- Oil Pressure -- CHECK
- Avionics Power Switch -- ON
- Flashing Beacon and Nav Lights -- ON as required
- Flaps -- RETRACT

BEFORE TAKEOFF

- Parking Brake -- SET
- Flight Instruments -- CHECK and SET
- Primer -- LOCKED
- Mixture -- RICH
- Fuel Quantity -- CHECK
- Fuel Selector Valve -- RECHECK BOTH
- Elevator Trim -- SET for takeoff
- Rudder Trim -- SET for takeoff
- Throttle -- 1700 RPM
- Magnetos -- CHECK <175 RPM drop on each; <50 RPM drop between
- Carburetor Heat -- CHECK (for RPM drop)
- Propeller -- CYCLE high RPM/low RPM/high RPM
- Vacuum Gauge -- CHECK
- Engine Instruments and Ammeter -- CHECK
- Throttle -- 800-1000 RPM
- Strobe Lights -- AS DESIRED
- Radios and Avionics -- SET
- Flaps -- SET for takeoff (0-20 degrees)
- Cowl Flaps -- OPEN
- Brakes -- RELEASE

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TAKEOFF

- Flaps -- 0-20 degrees
- Carburetor Heat -- COLD
- Mixture -- RICH (may be leaned above 3000')
- Propeller -- 2400 RPM
- Throttle -- FULL
- Elevator Control -- LIFT NOSE WHEEL (at 50 KIAS)
- Climb Speed -- 70 KIAS (flaps 20 degrees)
- 80 KIAS (flaps UP)
- Brakes -- APPLY momentarily when airborne
- Landing Gear -- RETRACT in climbout
- Flaps -- RETRACT

NORMAL CLIMB

- Airspeed -- 90-100 KIAS
- Throttle -- 23" MP or FULL (whichever is less)
- Propeller -- 2400 RPM
- Fuel Selector Valve -- BOTH
- Mixture -- FULL RICH (may be leaned above 3,000')
- Cowl Flaps -- OPEN as required

MAXIMUM PERFORMANCE CLIMB

- Airspeed -- 88 KIAS at sea level to 75 KIAS at 10,000'
- Throttle -- FULL
- Propeller -- 2400 RPM
- Fuel Selector Valve -- BOTH
- Mixture -- FULL RICH (may be leaned above 3000')
- Cowl Flaps -- FULL OPEN

CRUISE

- Throttle -- 15-23" MP
- Propeller -- 2100-2400 RPM
- Elevator Trim -- ADJUST
- Rudder Trim -- ADJUST
- Mixture -- LEAN
- Cowl Flaps -- CLOSED

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DESCENT

- Fuel Selector Valve -- BOTH
- Throttle -- AS DESIRED
- Propeller -- AS DESIRED
- Mixture -- ENRICH as required
- Carburetor Heat -- AS REQUIRED to prevent carb. icing
- Cowl Flaps -- CLOSED
- Flaps -- AS DESIRED
- 0-10 degrees <140 KIAS
- 10-FULL <95 KIAS

BEFORE LANDING

- Fuel Selector Valve -- BOTH
- Landing Gear -- DOWN
- Mixture -- RICH
- Propeller -- HIGH RPM
- Carburetor Heat -- ON
- Autopilot -- OFF

LANDING

- Airspeed -- 70-80 KIAS (flaps UP)
- Flaps -- AS DESIRED
- 0-10 degrees <140 KIAS
- 10-20 degrees <120 KIAS
- FULL <95 KIAS
- Airspeed -- 65-75 KIAS (flaps DOWN)
- Trim -- ADJUST
- Touchdown -- MAIN WHEELS FIRST
- Landing Roll -- LOWER NOSE WHEEL GENTLY
- Braking -- MINIMUM REQUIRED

AFTER LANDING

- Flaps -- UP
- Carburetor Heat -- COLD
- Cowl Flaps -- OPEN

SECURING AIRPLANE

- Parking Brake -- SET
- Throttle -- IDLE
- Avionics Switch , Electrical Equipment -- OFF
- Mixture -- IDLE CUT-OFF (pulled fully out)
- Ignition Switch -- OFF
- Master Switch -- OFF
- Cowl Flaps -- CLOSE
- Fuel Selector Valve -- LEFT or RIGHT to prevent cross feeding