

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

CESSNA GRAND CARAVAN

SPECIFICATIONS

Maximum Speed	175 kts
Cruise Speed	164 kts
Engine	Pratt & Whitney Canada, Inc., Free Turbine. Flat Rated at 675 Shaft hp PT6A-114A
Propeller	Three-Bladed, Constant Speed, Full Feathering, Reversible McCauley, 106-inch diameter
Maximum Range	5.1 hours with maximum cruise at 10,000 feet 6.6 hours with maximum cruise at 18,000 feet 6.4 hours with maximum range at 10,000 feet 7.2 hours with maximum range at 20,000 feet
Service Ceiling	22,800 ft
Fuel Capacity	335 gal
Empty Weight	4,040 lb
Max. Gross Weight	8,785 lb
Length	41 ft, 7 in
Wingspan	52 ft, 1 in
Height	15 ft, 5-½ in
Seating	Up to 14
Useful Load	4,745 lb



REFERENCE INFORMATION

FS Full Fuel Weight: 8,750 lbs

Cruise Climb: 110 to 120 KIAS

Max. Glide Speed (with cargo pod)
95 KIAS (8,750 lbs)
87 KIAS (7,500 lbs)
79 KIAS (6,250 lbs)
71 KIAS (5,000 lbs)

VMO	175 KIAS
VA	148 KIAS (8,750 lbs) 137 KIAS (7,500 lbs) 125 KIAS (6,250 lbs) 112 KIAS (5,000 lbs)
VFE	175 KIAS (flaps 0 to 10) 150 KIAS (flaps 10 to 20) 125 KIAS (flaps 20 to full)
VR	70 to 75
VS	63 KIAS
VSO	50 KIAS
VX	72 KIAS
VY	104 KIAS (0 to 10,000 msl) 87 KIAS (20,000' msl)
VREF	100 to 115 KIAS (flaps up) 75 to 85 KIAS (flaps 30)

LEGENDA

VMO - Maximum Operating Speed
VA - Maneuvering Speed
VFE - Maximum Flaps Extended Speed
VR - Rotation Speed
VS - Stalling Speed (flaps up)
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

- Parking Brake -- SET
- Switches -- OFF
- Fuel Tank Selector -- BOTH
- Emergency Power Lever -- NORMAL
- Power Lever -- IDLE
- Propeller Control Lever -- MAX (fully forward)
- Fuel Condition Lever -- CUTOFF
- Fuel Shutoff -- ON (push in)
- Battery Switch -- ON
- Wing Flaps -- UP

ENGINE START

- Battery Switch -- ON
- Emergency Power Lever -- NORMAL (full aft) position
- Propeller Area -- CLEAR
- Fuel Boost Switch -- ON
- "AUX FUEL PUMP ON" Annunciator -- ON
- "FUEL PRESS LOW" Annunciator -- OFF
- No Fuel Flow -- CONFIRM
- Starter Switch -- START
- "IGNITION ON" Annunciator -- CHECK ON
- Engine Oil Pressure -- CHECK for indication
- Ng -- STABLE (12% minimum)
- Fuel Condition Lever -- LOW IDLE
- Fuel Flow -- CHECK for 80 to 110 pph
- ITT -- MONITOR (1,090 degrees C max)
- Ng -- 52% MINIMUM
- Starter Switch -- OFF (check "STARTER ENERGIZED" annunciator OFF)
- Engine Instruments -- CHECK
- Generator -- CHECK "GENERATOR OFF" annunciator OFF
- Fuel Boost Switch -- NORM (check "AUX FUEL PUMP ON" annunciator OFF)
- Avionics Master Switch -- ON
- Navigation Lights and Flashing Beacon -- ON as required
- Suction Gauge -- CHECK
- Radios -- AS REQUIRED

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BEFORE TAKEOFF

- Parking Brake -- SET
- Flight Controls -- FREE AND CORRECT
- Flight Instruments -- CHECK and SET
- Fuel Boost Switch -- RECHECK NORM
- Fuel Tank Selector -- RECHECK BOTH
- Fuel Quantity -- RECHECK
- Fuel Shutoff -- RECHECK FULLY ON
- Elevator Trim Controls -- SET for takeoff
- Aileron Trim Controls -- SET for takeoff
- Rudder Trim Controls -- SET for takeoff
- Power Lever -- 400 FT-LBS
- Suction Gauge -- CHECK
- "VOLTAGE LOW" annunciator -- CHECK OFF
- Inertial Separator -- CHECK
- Engine Instruments -- CHECK
- Overspeed Governor -- CHECK (stabilized at 1750 +/- 60 RPM)
- Power Lever -- IDLE
- Pitot/Static Heat -- ON when OAT is below 4 degrees C (40 degrees F)
- Ice Protection -- AS REQUIRED
- Avionics -- CHECK and SET
- GPS/NAV Switch -- SET
- Strobe Lights -- AS REQUIRED
- Annunciators -- EXTINGUISHED or considered
- Wing Flaps -- SET at 20 degrees
- Brakes -- RELEASE
- Fuel Condition Lever -- HIGH IDLE

TAKEOFF

- Wing Flaps -- 20 degrees
- Power -- SET FOR TAKEOFF (1900 RPM)
- Annunciators -- CHECK
- Rotate -- 70-75 KIAS
- Climb Speed -- 85-95 KIAS
- Wing Flaps -- RETRACT to 10 degrees after reaching 85 KIAS and 0 degrees after reaching 95 KIAS)

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CRUISE CLIMB

- Ice Protection -- AS REQUIRED
- Pitot/Static Heat -- ON when OAT is below 4 degrees C (40 degrees F)
- Airspeed -- 110-120 KIAS
- Propeller -- 1600-1900 RPM
- Torque -- AS DESIRED

MAXIMUM PERFORMANCE CLIMB

- Ice Protection -- AS REQUIRED
- Pitot/Static Heat -- ON when OAT is below 4 degrees C (40 degrees F)
- Airspeed -- 104 KIAS (sea level to 10,000 feet MSL 87 KIAS (20,000 feet MSL)
- Propeller -- 1900 RPM
- Torque -- AS DESIRED (1865 FT-LBS MAXIMUM)

CRUISE

- Ice Protection -- AS REQUIRED
- Pitot/Static Heat -- ON when OAT is below 4 degrees C (40 degrees F)
- Propeller -- 1600-1900 RPM
- Power -- AS DESIRED

BEFORE LANDING

- Fuel Selector -- BOTH
- Fuel Condition Lever -- HIGH IDLE
- Propeller Control Lever -- MAX (full forward)
- Autopilot -- OFF
- Wing Flaps -- AS DESIRED
 - 0-10 degrees <175 KIAS
 - 10-20 degrees <150 KIAS
 - 20-30 degrees <125 KIAS

NORMAL LANDING

- Wing Flaps -- FULL DOWN
- Airspeed -- 75-85 KIAS
- Touchdown -- MAIN WHEELS FIRST
- Power Lever -- BETA range after TOUCHDOWN
- Brakes -- AS REQUIRED

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SHORT FIELD LANDING

- Wing Flaps -- FULL DOWN
- Airspeed -- 78 KIAS
- Power Lever -- REDUCE to IDLE after clearing obstacles
- Touchdown -- MAIN WHEELS FIRST
- Power Lever -- BETA range after TOUCHDOWN
- Brakes -- APPLY HEAVILY while holding elevator control full aft
- Wing Flaps -- RETRACT for maximum brake effectiveness at light weights

BALKED LANDING (GO-AROUND)

- Power Lever -- ADVANCE for takeoff power (1900 RPM)
- Wing Flaps -- RETRACT to 20 degrees
- Climb Speed -- 80 KIAS MINIMUM until obstacles are cleared
- Wing Flaps -- RETRACT after reaching safe altitude and airspeed

AFTER LANDING

- Wing Flaps -- UP
- Ice Protection Equipment -- OFF
- Strobe Lights -- OFF
- Landing and Taxi Lights -- AS REQUIRED
- Fuel Condition Lever -- LOW IDLE when clear of the runway

SHUTDOWN AND SECURING AIRPLANE

- Parking Brake -- SET
- Avionics Switches -- OFF
- Fuel Boost Switch -- OFF
- Power Lever -- IDLE
- ITT -- STABILIZED at minimum temperature for one minute
- Propeller Control Lever -- FEATHER
- Fuel Condition Lever -- CUTOFF
- Lighting Switches -- OFF
- Battery Switch -- OFF
- Fuel Tank Selector -- LEFT OFF or RIGHT OFF

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PILOT'S NOTES
