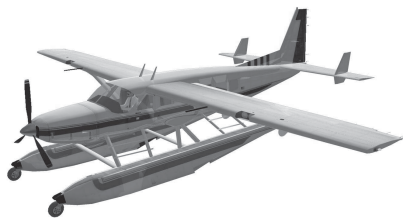



MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

CESSNA GRAND CARAVAN (AMPH.)

SPECIFICATIONS

Maximum Speed	175 KIAS
Cruise Speed	143 KIAS (8,000 lbs) 130 KIAS (6,400 lbs) 117 KIAS (5,200 lbs)
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	4.6 hours with maximum cruise at 10,000 feet 5.7 hours with maximum cruise at 20,000 feet 6.8 hours with maximum range at 10,000 feet 8.0 hours with maximum range at 20,000 feet
Service Ceiling	13,500 ft
Fuel Capacity	335 gal
Empty Weight	4,895 lb
Max. Gross Weight	8,035 lb
Length	41 ft, 7 in
Wingspan	52 ft, 1 in
Height	15 ft, 5-½ in
Seating	Up to 14



REFERENCE INFORMATION

FS Full Fuel Weight: 8,000 lbs		VREF	95 to 105 KIAS (flaps up) 75 to 85 KIAS (flaps 30)
VMO	175 KIAS	Cruise Climb: 110 to 120 KIAS	
VA	143 KIAS (8,000 lbs) 130 KIAS (6,400 lbs) 117 KIAS (5,200 lbs)	Max. Glide Speed (with cargo pod) 87 KIAS (8,000 lbs) 78 KIAS (6,400 lbs) 70 KIAS (5,200 lbs)	
VFE	175 KIAS (flaps 0 to 10) 150 KIAS (flaps 10 to 20) 125 KIAS (flaps 20 to full)		
VR	50 to 60 (on water) 65 to 70 (on land)	<div> <div>LEGENDA</div> <div> 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 </div> </div>	
VS	65 KIAS		
VSO	51 KIAS		
VX	81 KIAS		
VY	97 KIAS (sea level) 94 KIAS (10,000' msl) 85 KIAS (20,000' msl)		

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST CESSNA GRAND CARAVAN (AMPH.)

BEFORE STARTING ENGINE

- Landing Gear Handle – DOWN
- Water Rudders -- DOWN for taxiing on water or UP for taxiing on land
- Parking Brake – SET
- Switches -- OFF
- Fuel Tank Selector -- BOTH
- Emergency Power Lever -- NORMAL
- Power Lever – IDLE
- Propeller Control Lever
- 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 press xx as necessary)
- Fuel Boost Switch -- ON
- "AUX FUEL PUMP ON" Annunciator -- ON
- "FUEL PRESS LOW" Annunciator -- OFF
- Confirm -- NO FUEL FLOW
- 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")
- 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

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

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

CESSNA GRAND CARAVAN (AMPH.)

BEFORE TAKEOFF

- Parking Brake -- SET
- Fuel Boost Switch -- RECHECK NORM
- Fuel Tank Selector -- RECHECK BOTH
- 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 ON WATER

- Landing Gear -- UP
- Landing Gear Blue Indicator Lights -- CHECK ILLUMINATED
- Wing Flaps -- 0-20 degrees (20 degrees recommended)
- Rudder Trim -- SET
- Control Wheel -- HOLD AFT
- Power -- SET FOR TAKEOFF (1900 RPM)
- Annunciators -- CHECK
- Water Rudders -- UP
- Control Wheel -- APPLY LIGHT BACK-PRESSURE to lift off.
- Climb Speed -- 85-95 KIAS (with obstacles ahead, climb at 80 KIAS)
- Wing Flaps -- RETRACT after reaching 90 KIAS

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

CESSNA GRAND CARAVAN (AMPH.)

TAKEOFF ON LAND

- Water Rudders -- UP
- Wing Flaps -- 10-20 degrees (20 degrees for short field)
- Power -- SET FOR TAKEOFF (1900 RPM)
- Annunciators -- CHECK
- Rotate -- 65-70 KIAS
- Climb Speed -- 80-95 KIAS (with obstacles ahead, climb at 80 KIAS)
- Wing Flaps -- RETRACT after reaching 90 KIAS
- Landing Gear -- RETRACT

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 ON WATER

- Landing Gear -- UP
- Landing Gear Blue Indicator Lights -- CHECK ILLUMINATED
- Water Rudders -- UP
- Fuel Selector -- BOTH
- Fuel Condition Lever -- HIGH IDLE
- Propeller Control Lever -- MAX (fully forward)
- Autopilot -- OFF
- Wing Flaps -- AS DESIRED (flaps down preferred)
 - 0-10 degrees <175 KIAS
 - 10-20 degrees <150 KIAS
 - 20-30 degrees <125 KIAS
- Airspeed -- 75-85 KIAS (flaps FULL DOWN)

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST CESSNA GRAND CARAVAN (AMPH.)

BEFORE LANDING ON LAND

- Landing Gear -- UP
- Landing Gear Amber Indicator Lights -- CHECK ILLUMINATED
- Water Rudders -- UP
- Fuel Selector -- BOTH
- Fuel Condition Lever -- HIGH IDLE
- Propeller Control Lever -- MAX (full forward)
- Autopilot -- OFF
- Wing Flaps -- AS DESIRED (flaps down preferred)
 - 0-10 degrees <175 KIAS
 - 10-20 degrees <150 KIAS
 - 20-30 degrees <125 KIAS
- Airspeed -- 75-85 KIAS (flaps FULL DOWN)

LANDING ON WATER

- Wing Flaps -- FULL DOWN
- Airspeed -- 75-85 KIAS
- Touchdown -- SLIGHTLY TAIL LOW
- Control Wheel -- HOLD AFT as amphibian decelerates to taxi speed
- Power Lever -- BETA range after TOUCHDOWN, if desired, for faster deceleration

LANDING ON LAND

- Wing Flaps -- FULL DOWN
- Airspeed -- 75-85 KIAS
- Touchdown -- SLIGHTLY TAIL LOW
- Control Wheel -- EASE FORWARD to lower bow wheels gently to runway.
- Power Lever -- BETA range after TOUCHDOWN
- Braking -- MINIMUM REQUIRED

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

- Water Rudders -- DOWN (except on land)
- Fuel Condition Lever -- LOW IDLE
- 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

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST CESSNA GRAND CARAVAN (AMPH.)

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

PILOT'S NOTES
