Cessna Grand Caravan C208B

**Speeds (KIAS)**

<table>
<thead>
<tr>
<th>V_{MO}</th>
<th>175</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_{X}</td>
<td>72</td>
</tr>
<tr>
<td>V_{Y}</td>
<td>104</td>
</tr>
<tr>
<td></td>
<td>104-87</td>
</tr>
<tr>
<td>V_{R}</td>
<td>70-75</td>
</tr>
<tr>
<td>V_{REF}</td>
<td>75-85</td>
</tr>
<tr>
<td></td>
<td>100-115</td>
</tr>
<tr>
<td>V_{FE}</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>175</td>
</tr>
</tbody>
</table>

**Other**

|        | 80 | Balked landing (20°) |
|        | 97-71 | Glide (8750-5000 lb) |
|        | 148 | Turbulent air: 8750 lb |
|        | 112 | Turbulent air: 5000 lb |

**Cruise climb**

|        | 110-120 |

**Take-off Speeds (short, 20° flap)**

<table>
<thead>
<tr>
<th>Weight (lbs)</th>
<th>Take-off speeds (KIAS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rotate</td>
</tr>
<tr>
<td>8750</td>
<td>70</td>
</tr>
<tr>
<td>8300</td>
<td>67</td>
</tr>
<tr>
<td>7800</td>
<td>64</td>
</tr>
<tr>
<td>7300</td>
<td>61</td>
</tr>
</tbody>
</table>

For normal takeoff, use 70-75 and 85-95 KIAS.

**Other Speeds**

<table>
<thead>
<tr>
<th>Weight (lbs)</th>
<th>Landing V</th>
<th>Glide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KIAS</td>
<td>KIAS</td>
</tr>
<tr>
<td>8500</td>
<td>78</td>
<td>148</td>
</tr>
<tr>
<td>8000</td>
<td>75</td>
<td>137</td>
</tr>
<tr>
<td>7500</td>
<td>73</td>
<td>125</td>
</tr>
<tr>
<td>7000</td>
<td>71</td>
<td>112</td>
</tr>
</tbody>
</table>

**Notes:**
Short landing, 30° flap. For Normal: 75-85 KIAS.
Glide speeds with/without cargo pod.
Caravan C208 Normal Checklist

Before starting engine

Preflight inspection and W&B: Complete
Doors: Unlocked
Pax. Briefing: Complete
Cabin doors: Latched
Crew doors: Unlocked
Parking brake: Set
Seats, belts, harnesses: Adjusted, secure (check pin)
Switches: Off
Ignition: Norm
Circuit breakers: Check in
Fuel tank selectors: Both on
Radar: Off
Air conditioner: Off
Inverter: Off
Bleed air: Off
Cabin Heat Mixing: Flt-Push
Emergency power lever: Normal
Power lever: Idle
Propeller: Full forward
Fuel condition lever: Cutoff
Rudder lock: Turn and push to unlock
Fuel shutoff: On (push in)
Battery switch: On
Wing flaps: Up
NS/FSB: As required
Fire detector test: Press
Annunciator panel: Test (incl. fuel warning horn)
Annunciator day/night: Set

See PFM for authoritative procedures!
Engine Start (Battery)

Battery: ................................................................. On
Volt/ammeter: ......................... Check (24 V minimum)
Emergency power lever: ...... Normal (annunciator)
Propeller area: .................................................. Clear
Fuel boost: ................................................................. On
    AUX FUEL PUMP ON: .............. Check On
    FUEL PRESS LOW: .................. Check Off
Fuel flow: .................................................. Check none
Starter switch: .................................................. Start
    IGNITION ON: ......................... Check on
    Engine oil pressure: .................. Check
    Ng > 12%, stable: ......................... Wait
Fuel condition lever: ........................................... Low idle
    Fuel flow: ............................... 80 to 110 lb/hr
    ITT: ............................. (1090°C, max. 2 s)
    Ng > 52% : ............................. Check
Starter switch: .................................................. Off
STATER ENERGISED: ......................... Check Off
Inverter: ........................................ Test, select 1 or 2
Engine instruments: ........................................... Check
Generator: .................. Charging, GEN OFF extinguished
Fuel boost: .................. Normal, AUX FUEL PUMP out
Standby power: ................................. On
Avionics 1 & 2: .................................................. On
Nav lights, beacon: ......................... On as required
Suction gauge: .................................................. Check
Heating, ventilation, defrost: ........ As required
Radios: .................................................. As required

Taxi

Brakes: ................................................................. Check
Flight instruments: .................................................. Check
Before takeoff (Runup)

Park brake: ........................................Set
Seats, belts, harnesses: ..................... Check secure
Flight controls: ............................ Full, free, correct
Flight instruments: .........................Check, set
Fuel boost: .................................Check Normal
Fuel tanks: ..................................Check both on
Fuel quantity: ..............................Checked
Fuel shutoff: ..................................Check fully on
Elevator, aileron, rudder trim: ...... Set for takeoff
Power check: .................................400 ft-lb
  Suction: ....................................Check
  Volt/amps: ....................Check, return to BATT
  Inertial separator: Check (torque drop/return)
  Engine instruments: ...................... Check
Overspeed governor: .............. Check 1750 ±60 rpm
Power lever: ....................................Idle
Quadrant friction: .........................Adjust
Standby power: .............................Check
Autopilot: ..................................Preflight check
  Avionics power 1: .........................Check on
  Gyros: ..................Allow 3-4 minutes to stabilise
  Preflight test: ..........Annun., Alt Select, AP 12x
  TRIM warning: ........Off (if not, pull AP breaker)
  Electric trim: ........Test (L, R, both, clutch, Disc.)
  Flight director, Autopilot: ..........Engage
  Yaw damper: ..............................Engage
  Flight controls: ........Move to overpower AP
  Disconnect: .................Press to test
  Trim: ........................ Set for takeoff
Pitot/static heat: .........................On if OAT < 4°C
Ice protection: ..............................As required
Avionics and radar: .......................Check, set
GPS/Nav switch: .............................Set
Strobe: ...................................As required
Annunciators: ..................Extinguished or considered
Wing flaps: .................................20°
Cabin heat mixing: ......................Flt-Push
Windows: ..................................Close
Brakes: ..................................Release
Fuel condition lever: .....................High idle
**Normal takeoff**

- Flaps: ................................................................. 20°
- Power: ......................................................... Set for takeoff (See below)
- Annunciators: ....................................................... Check
- Brakes: ............................................................. Release
- Rotate: .............................................................. 70-75 KIAS
- Climb: ............................................................... 85-95 KIAS
- Flaps: ...... Retract to 10° after 85, up after 95 KIAS

**Short takeoff**

- Flaps: ................................................................. 20°
- Power: ......................................................... Set for takeoff (See below)
- Annunciators: ....................................................... Check
- Brakes: ............................................................. Release
- Rotate: .............................................................. 70 KIAS (see table p. 1)
- Climb: ............................................................... 83 KIAS until obstacles cleared (p. 1)
- Flaps: ...... Retract to 10° after 85, up after 95 KIAS

**Takeoff Power Limits**

<table>
<thead>
<tr>
<th>Pressure Alt [feet]</th>
<th>Temperature [°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. Op.</td>
</tr>
<tr>
<td>Sea Level</td>
<td>50</td>
</tr>
<tr>
<td>2000</td>
<td>46</td>
</tr>
<tr>
<td>4000</td>
<td>42</td>
</tr>
<tr>
<td>6000</td>
<td>38</td>
</tr>
<tr>
<td>8000</td>
<td>34</td>
</tr>
<tr>
<td>10 000</td>
<td>30</td>
</tr>
<tr>
<td>12 000</td>
<td>26</td>
</tr>
</tbody>
</table>

**Notes:**
- If temperature is above Max. Op., flight is prohibited.
- If temperature is above Tq Limit, see PFM p. 5-19.
**Enroute climb (cruise climb)**

Ice protection: ........................................ As required
Pitot/static heat: ......................... On if OAT < 4°C
Airspeed: .......................... 110-120 KIAS
Propeller: ........................... 1600-1900 rpm
Torque:.................................. Set within limits (ITT, Ng, torque)
.................. ITT < 740°C for normal operations

**Enroute climb (maximum performance)**

Ice protection: ........................................ As required
Pitot/static heat: ......................... On if OAT < 4°C
Airspeed: .......................... 104 KIAS to 10 000’, 87 KIAS at 20 000’
Propeller: ........................... 1900 rpm
Torque:.................................. 1865 ft-lb (ITT, Ng, torque)
.................. ITT < 740°C for normal operations

**Cruise**

Ice protection: ........................................ As required
Pitot/static heat: ......................... On if OAT < 4°C
Propeller: ........................... 1600-1900 rpm
Power: ........................................ Set per cruise power tables
.................. ITT < 740°C for normal operations

**Descent**

Ice protection: ........................................ As required
Pitot/static heat: ......................... On if OAT < 4°C
NS/FSB: ........................................ As required
Altimeter: ........................................ Set
GPS/Nav switch: ................................. Set
Power: ........................................ As required

**Before Landing**

Seats, belts, harnesses: .................. Secure
Fuel selectors: ............................ L on, R on
Fuel condition lever: .................. High idle
Propeller control lever: ................. Max (forward)
Radar: ........................................ Standby/Off
Autopilot: ...................................... Off
Wing flaps: .................................... As desired
Normal landing
Flaps: .............................................. Full
Airspeed: ........................................... 75-85 KIAS
Touchdown: ........................................ Main wheels first
Power: ............................................. Beta after touchdown
Brakes: ............................................. As required
Note: Remove reverse before 25 kts

Short field landing
Flaps: Full
Airspeed: .................... 78 KIAS at MAUW (see p.1)
Power: .......................... Idle after clearing obstacles
Power: ............ Beta (against spring) after touchdown
Brakes: .............. Heavy braking with full up elevator
Wing flaps: ............ Retract if at light weight
Note: Remove reverse before 25 kts

Balked landing
Power: ............................................ Full takeoff power
Flaps: .................................................. 20°
Airspeed: . 80 KIAS min. until obstacles are cleared
Flaps: ............. Retract at safe altitude and airspeed

After landing
Flaps: ...................................................... Up
Ice protection: ........................................ Off
Strobes: .................................................... Off
Landing and taxi lights: ................. As required
Fuel condition lever: Low idle when clear of runway

See PFM for authoritative procedures! ©2003-6 Chris R. Burger
**Shutdown**

Parking brake: .............................................. Set
Avionics: ................................................... Off
Standby power: ......................................... Off
Fuel boost: ................................................ Off
Bleed air, ventilation fans, air conditioner: ..... Off
Inverter: .................................................... Off
Power lever: .............................................. Idle
ITT: ................................................... Min. temperature for 1 min
Propeller: ............................................... Feather
Fuel condition lever: .................................. Cutoff
Oxygen: ..................................................... Off
Lights: ....................................................... Off
Battery: ..................................................... Off
Controls: .................................................. Lock
Fuel tank selectors: .................................... Both off
Tiedowns and chocks: ................................. As required
External covers: ........................................ Install
Fuel filter: ................................................. Check bypass flag
Oil breather drain can: ............................... Drain
Cessna Grand Caravan C208B Checklist V 1.1

See PFM for authoritative procedures!
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C208 Abnormal Checklist

Air start (Starter--Preferred)

Electrical load: .................................................Reduce
Standby power: .................................................Off
Avionics power: .................................................Off
Ignition: ..............................................................Normal
Air conditioner: .....................................................Off
Bleed air heat: ........................................................Off
Emergency power lever: ........................................Normal
Power lever: .........................................................Idle
Propeller: .............................................................Min. rpm
Fuel condition lever: ..............................................Cutoff
Fuel shutoff: ..........................................................On (push in)
Fuel tank selectors: ..............................................L on, R on
Battery switch: .........................................................On
Fuel boost switch: ..................................................On
    AUX FUEL PUMP: ............................................Check on
    FUEL PRESS LOW: .............................................Check off
Altitude: ...............................................................20 000’ maximum
Starter switch: .......................................................Start
    IGNITION ON: ..................................................Check on
    Engine oil pressure: ..........................................Check
    \( N_g \): ..........................................................12\% minimum
Fuel condition lever: .............................................Low idle
    ITT: ...............................................................Monitor 1090°C max.
    \( N_g \): ..........................................................52\% minimum
Starter switch: .......................................................Off
Ignition: ..............................................................On if required (rain, low fuel)
Fuel boost pump: .................................................Normal, or On if cycling
Fuel condition lever: .............................................High idle
Propeller control: ................................................As desired
Power lever: .........................................................As desired
Electrical equipment and avionics: ......As required
Air start (Windmilling)

Generator switch: Trip and release
Standby power: Off
Avionics power: Off
Air conditioner: Off
Bleed air heat: Off
Emergency power lever: Normal
Power lever: Idle
Propeller: Min. rpm
Fuel condition lever: Cutoff
Fuel shutoff: On (push in)
Fuel tank selectors: L on, R on
Battery switch: On
Fuel boost switch: On
AUX FUEL PUMP: Check on
FUEL PRESS LOW: Check off
Ignition switch: On
Airspeed: 100 KIAS minimum (140 if feathered)
Altitude: 20 000' maximum (15 000' if feathered)
N\_g indicator: Check stable and non-zero
Fuel condition lever: Low idle
ITT: Monitor 1090°C max.
N\_g: 52% minimum
Ignition: On if required (rain, low fuel)
Fuel boost: Normal, or On if cycling
Fuel condition lever: High idle
Propeller control: As desired
Power lever: As desired
Generator: Reset and release
Electrical equipment and avionics: As required

See PFM for authoritative procedures!
**Asymmetric flap**

Aileron: Application to stop the roll

Flap selector: Up

Airspeed: Slow to 100 KIAS or less

If flaps retract symmetrically: Flapless landing

If flaps remain asymmetric:

Land as soon as practical

At least 90 KIAS on the approach

Avoid nose-high flare on landing

**Flaps fail to extend or retract**

Flap Motor/Standby Flap Motor CBs: Check in

If flaps still fail to operate:

Standby switch: Standby

Standby flap up/down: As required

Notes:

Later models require breaking safety wire.

Standby flap system has no limit switches!

**Landing with flat main tyre**

Fuel: Fly to lighten load on flat side

Approach: Normal (full flap)

Touchdown: Inflated tyre first

**Landing with flat nosewheel tyre**

Passengers and baggage: Move aft if possible

Approach: Normal (full flap)

Touchdown: Nose high

Brakes: Minimum necessary
**Battery temperature high (amber)**

Battery: ................................................................. Off
Ammeter: .................................................. Check in BATT position
If ammeter shows charge:
  Generator: ........................................ Trip and release
  Standby power: ........................................ Off
  All electrical switches: ......................... Off
  Bus 1 Pwr/Bus 2 Pwr CBs: ........ Pull off (6!)
  Avionics switches: ......................... Off
  Standby power: ........................................ On
  Avionics standby power:........ Lift guard, on
  Avionics bus tie: ......................... Lift guard, on
  Reinstate essential circuits:........... Monitor load
Land as soon as practical

**Generator failure**

Voltmeter: ................. Check (annunciator failure?)
Bus 1/Bus 2 CBs: ............... Check, do not reset!
If V < 24.5 V:
  Volt/ammeter: .......... Gen (monitor ammeter)
  If generator output zero:
    GEN CONT/GEN FIELD CBs: .......... In
    Generator: ......................... Reset and release
  If generator output still zero:
    Generator: ......................... Trip
    Electrical load: ......................... Reduce
    Avionics 2: ................................. Off
    Flashing beacon: ......................... Off
    Strobes: ................................. Off
    De-icing: ......................... Off (keep 1 pitot on!)
    Vent fans: ......................... Off
    Air cond.: ................................. Off
    GEN CONT/GEN FIELD: ................. Pull
    AP CONT or AP FD: ......................... Pull
Land as soon as practical
Standby generator: ............................ Use if available
If generator output resumes: ...... Monitor voltage
  (over 29 V will probably trip again)
Inverter failure
Inverter switch: .........................Select other inverter
Failed inverter: ......................Repair before next flight
If INVERTER INOP remains illuminated:
  Circuit breakers: .........................Check in
  Gyro flags: ...............................Check
  Ignore left-hand gyros
  Land as soon as practical

Starter does not disengage
Battery: ..................................................Off
Auxiliary power unit: .................Off, then disengage
Fuel condition lever: .........................Cutoff
Engine shutdown: ..............................Complete

Upper half of cargo/airstair door open
Airspeed: .........................Less than 100 KIAS
Wing flaps: .........................Full (to provide downwash)
Door: ........................................Close if helper available
Land: ...............................Normal approach and landing

Lower half of airstair door open
Airspeed: .........................Less than 100 KIAS
Return for landing
Wing flaps: ..................................................Full
Land: ..........Slightly tail low, avoid nose high flare

Crew door open
Airspeed: .........................Less than 100 KIAS
Door: ........................................Pull closed and latch

Cargo pod door(s) open
Airspeed: .........................Less than 100 KIAS
Land as soon as practical
Approach: ........................................Normal
Landing: ...........................................Avoid nose-high flare
C208 Emergency Checklist

Emergency landing without power

Seats, belts, harnesses: Secure
Airspeed: 100 KIAS (flaps up), 80 KIAS (full flap)
Power lever: Idle
Propeller: Feather
Fuel condition lever: Cutoff
Fuel Boost: Off
Ignition: Normal
Standby power: Off
Nonessential equipment: Off
Fuel shutoff: Off (pull out)
Fuel tank selectors: Off (warning horn)
Wing flaps: As required (full recommended)
Crew doors: Unlatch before touchdown
Battery: Off when landing is assured
Touchdown: Slightly tail low
Brakes: Apply heavily

Precautionary landing

Seats, belts, harnesses: Secure
Flaps: 10°
Airspeed: 90 KIAS
Field: Select, fly over, check terrain and obstacles
Switches: All off except Generator and Battery
Flaps: Full down
Airspeed: 80 KIAS
Crew doors: Unlatch before touchdown
Generator: Trip and release
Battery: Off
Touchdown: Slightly tail low
Fuel condition lever: Cutoff
Brakes: Apply heavily

See PFM for authoritative procedures!
**Ditching**

**Radio:** .......... Mayday on 121.5 MHz, squawk 7700
**Heavy objects:** ........ Secure if passenger available
**Seats, belts, harnesses:** .................. Secure
**Flaps:** ................................................... Down
**Power:** .......................... 300 fpm descent at 80 KIAS
**Approach:** ...... Into heavy wind or parallel to swells
**Face:** ........................................... Cushion using padding
**Touchdown:** ........................................... No flare
**Evacuate**
**Life vests and rafts:** .................. Inflate outside cabin

**Engine fire in flight**
**Power lever:** ................................. Idle
**Propeller:** ................................. Feather
**Fuel condition lever:** ......................... Cutoff
**Fuel shutoff:** ..................................... Off (pull out)
**Cabin heat firewall shutoff:** .................. Pull off
**Forward side vents:** ......................... Close
**Overhead vents:** ............................... Open
**Ventilation fans:** .............................. On
**Wing flaps:** ................................. 20 to 30°
**Airspeed:** ................................. 80-85 KIAS
**Forced landing:** .............................. Execute

**Battery overheated (red)**
**Battery:** .................................................. Off
**Generator:** ................................. Trip and release
**Standby power:** .................................. Off
**All electrical switches:** .......................... Off
**Bus 1 Pwr/Bus 2 Pwr CBs:** .... Pull off (6 breakers)
**Avionics switches:** ................................. Off
**Standby power:** ................................. On
**Avionics standby power:** .... Lift guard, on
**Avionics bus tie:** ................................. Lift guard, on
**Reinstate essential circuits:** .......... Monitor load
**Land as soon as practical**
**Electrical fire in flight**

Battery: ................................................................. Off
Generator: ........................................Trip and release
Standby power: ......................................................... Off
Vents: ..........................................................Close to avoid drafts
Bleed air heat: .............................................................. Off
Fire extinguisher: ........................................ Activate
Oxygen: ..........................................................Use until smoke clears
Avionics power: .................................................... Off
All other switches: .......................................................... Off

*If fire appears out and electrical power necessary:*

Battery switch: .......................................................... On
Standby power: .......................................................... On
Generator: ..........................................................Reset and release
Circuit breakers: .......................................................... Check, do not reset
Inverter: ............................................................. 1 or 2 if required
Radio switches: .......................................................... Off
Avionics power switches: ........................................ On
Radio and electrical switches: ............................................ On one at a time; delay
Vents: ..................................................Open when fire completely extinguished
Bleed air heat: .............................................................. On as desired

**Cabin fire**

Battery: ................................................................. Off
Generator: ........................................Trip and release
Standby power: .......................................................... Off
Vents: ..........................................................Close to avoid drafts
Bleed air heat: .............................................................. Off
Fire extinguisher: ........................................ Activate
Oxygen: ..........................................................Use until smoke clears
Land as soon as possible

**Wing fire**

Pitot/static heat, Stall heat: ........................................ Off
Strobe lights: .............................................................. Off
Navigation lights: .......................................................... Off
Landing and taxi lights: ........................................ Off
Radar: ................................................................. Off
Ventilation fans: .......................................................... Off
Sideslip if required, land as soon as possible

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*Cessna Grand Caravan C208B Checklist V 1.1*

*See PFM for authoritative procedures! ©2003-6 Chris R. Berger*
Cabin fire on ground
Power lever: ............................................. Idle
Brakes: .................................................. As required
Propeller: ................................................ Feather
Fuel condition lever: ................................. Cutoff
Battery: .................................................... Off
Evacuate
Fire: ..................................................... Extinguish

Engine fire during start on ground
Fuel condition lever: ................................. Cutoff
Fuel boost: ............................................. Off
Starter switch: Motor (within starter limits)
Fuel shutoff: Off (pull out) if fire persists
Starter: Off if fire ceases
Battery: Off
Evacuate
Fire: ..................................................... Extinguish

FCU pneumatic/governor malfunction
Power lever: ............................................. Idle
Emergency power lever: As required (N_g > 65%)

Loss of fuel pressure
Fuel boost pump: On
If FUEL PRESS LOW extinguishes:
.................... Monitor fuel quantity, cabin odours
.................... Land as soon as practical
If FUEL PRESS LOW/AUX FUEL PUMP ON:
........... Monitor engine gauges for fuel starvation
.................... Land as soon as possible

Fuel Reservoir low
Fuel tank selectors: L on, R on
Ignition: On
Fuel boost: On
If sufficient fuel in wing tanks:
........... Monitor gauges and FUEL PRESS LOW
........... Land as soon as possible and investigate
If there are signs of fuel starvation:
.................... Prepare for forced landing
Emergency descent: Rough air
Seats, belts, harnesses: Secure
Power lever: Idle
Propeller: Full forward
Wing flaps: Up
Airspeed: $V_A$ (148 to 112 KIAS)

Emergency descent: Smooth air
Seats, belts, harnesses: Secure
Power lever: Idle
Propeller: Full forward
Wing flaps: 10°
Airspeed: $V_{MO}$ (175 KIAS)