

nextGen SIMULATIONS



Citation CJ4X

Checklists

Version 1.0 Build 1709 (September 2017)

Normal Procedures Table of Contents

NOTE: These procedures have been modified in comparison with the real CJ4 procedures, for use with this aircraft on Flight Simulator or Prepar3D. DO NOT USE THEM FOR REAL-WORLD FLIGHT!

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Preliminary Exterior Inspection

Engine Covers	Remove
Pitot Covers.....	Remove
Battery.....	Connect
Exterior Power.....	Disconnect

Cockpit/Cabin Inspection

Documents/Manuals/Charts	On Board
Required Equipment	On Board
Cabin	Check
Emergency Exit.....	Secured/Clear
Seats/Belts	Upright/Outboard/Condition
Life Vests (if required)	Stowed
Door Entry Lights	Off
AUXILIARY GEAR CONTROL Handle.....	Stowed
Portable Fire Extinguisher (inboard side of copilot seat)	Serviced/Secure
Dimming PANEL Knob	As Desired
CLIMATE CONTROL Selector	As Desired
ELECTRICAL POWER Panel Switches (All).....	OFF
BATTERY Switch	ON (MFD1 powered)
BATT VOLT	Check
If External Power disconnected	24 Volts
If External Power connected.....	28-29 Volts
Fuel Quantity.....	As Required/Balanced
Aileron Trim	Neutral
Rudder Trim.....	Neutral
Elevator Trim	Set for Takeoff (indicator within TO green band)
Oxygen Pressure.....	In Green Band
LANDING GEAR Handle.....	GEAR DOWN (3 green)
PITOT/STATIC HEAT Buttons (Both).....	On/CAS Message Disappears then After 30 Seconds, Off
Lights.....	On/Check/Off
Exterior Lights.....	Illuminated
Passenger/Safety Lights	Illuminated
ENGINE RUN/STOP Buttons (Both).....	STOP

Cockpit Preparation

Preflight Inspection.....	Complete
GEN Switches (Both).....	ON
BATTERY Switch	OFF
EMER LIGHTS Switch.....	ARMED

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Cockpit Preparation (Continued)

STBY FLT DISPLAY Switch.....	TEST (zebra-type strips displayed)
STBY FLT DISPLAY Switch.....	ON
BATTERY Switch	ON
AVIONICS Switch.....	ON
Parking Brake	Set
OXYGEN CONTROL Selector.....	NORM
OXYGEN MASK MIC Buttons	Verify Operation
FUEL TRANSFER Selector.....	OFF
PRESSURIZATION SOURCE Selector.....	NORM
CABIN PRESSURE DUMP Button	OFF
Battery Temperature	Check
AVIONICS Switch.....	DISPATCH
Exterior Lights.....	As Required
All other switches and buttons.....	As Required
LANDING GEAR Handle.....	GEAR DOWN (3 green)
Fuel Quantity.....	Check/Balanced

Delay Before Flight Without External Power

EMER LIGHTS Switch.....	OFF
STBY FLT DISPLAY Switch.....	OFF
AVIONICS Switch.....	OFF
BATTERY Switch	OFF

Before Starting Engines

BATTERY Switch	ON
EMER LIGHTS Switch.....	ARMED
STBY FLT DISPLAY Switch.....	ON
AVIONICS Switch.....	DISPATCH
Parking Brake	Set
Wheel Chocks	Remove
Cabin Door.....	Closed
	(No CABIN DOOR message)
Baggage Door.....	Closed
	(No BAGGAGE DOOR message)
Passenger Briefing	Complete
Seats/Seat Belts/Shoulder Harnesses/Rudder Pedals.....	Adjust/Secure
Exterior Lights.....	As Required
EICAS.....	Check
Flight Management System	Check/Set
CLIMATE CONTROL Selector	OFF

Starting Engine(s)

THROTTLES (Both).....	IDLE
ENGINE STARTER Button.....	Push (verify button illuminates)
ENGINE RUN/STOP Button.....	RUN (after N2 rises to 20%)
ITT	Check for Rise
(Abort start if ITT rapidly approaches 1000°C or shows no rise within 10 seconds. Abort start if N1 does not indicate rotation by 25% N2.)	
EICAS	Check
Opposite Engine	Start (repeat from ENGINE STARTER step)
AVIONICS Switch	ON
External Power (if used)	Disconnect
Electrical System (if both engines running)	Check

Before Taxi

CLIMATE CONTROL Selector	NORM
(Both engines running and battery amps \leq 100)	
PASS LIGHTS SAFETY Button	ON
Trims	Check/Set
Flight Controls	Check
Speed brakes/Ground Spoilers.....	Check
Flaps.....	Check/Set
Hydraulic Pressure	Check
ENG ONLY ANTI-ICE Buttons (both).....	As Required
Takeoff Data (V-Speeds, T/O Field Length and Weight Limits)	Confirm/Set
Avionics	Check/Set
Autopilot.....	Engage/Disconnect
Altimeters (pilot, copilot and standby)	Check
Pressurization.....	Verify
EICAS	Check

Taxi

Exterior Lights	As Required
Brakes	Apply/Hold
Parking Brake	Release
Brakes.....	Check
Flight Instruments	Check

Before Takeoff

CAUTION

- Limit ground operation of pitot/static heat to 2 minutes to prevent damage to the pitot/static heaters.
- Do not operate WING/ENG ANTI-ICE on the ground at high engine rpm.
- Do not operate TAIL DEICE when SAT is below -30°C.

Ice Protection Systems	As Required/Check
Seats	Upright/Outboard
Flaps.....	Check/Set
Speed Brakes.....	0%
Trims	Set for Takeoff
Crew Briefing Complete.....	Check
TCAS	TA/RA
Battery Amps.....	Verify 20 or Less
ATC Clearance.....	Request/Receive

Cleared/Ready for Takeoff

PITOT/STATIC HEAT Buttons (both).....	ON
Exterior Lights	As Required
EICAS	Check

Takeoff

Static Takeoff

THROTTLES	TO
Brakes.....	Release
GA Button (optional).....	Push
Control Stick/Wheel	Rotate at V_R

(To achieve 10° initial pitch, use flight director TO mode)

Rolling Takeoff

Computed Takeoff Distance	Add 500 feet
Brakes.....	Release
THROTTLES	TO within 500 feet
GA Button (optional).....	Push
Control Stick/Wheel	Rotate at V_R

(To achieve 10° initial pitch, use flight director TO mode)

After Takeoff/Climb

Landing Gear (positive climb).....	Up/Lights Out
Flaps (clear of obstacles and V ₂ + 10)	Up
THROTTLES	CLB

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After Takeoff/Climb (Continued)

Yaw Damper.....	On
Autopilot.....	As Desired
Ice Protection Systems.....	As Required
PASS LIGHTS Buttons.....	As Required
LNDG LIGHTS Buttons.....	As Required
Pressurization.....	Check
Altimeters (at transition altitude).....	Set STD/Crosscheck

Cruise

THROTTLES.....	CRU or As Required
Pressurization.....	Check
Ice Protection Systems.....	As Required

Descent

Pressurization.....	Verify
Ice Protection Systems.....	As Required
Altimeters (at transition flight level).....	Set/Crosscheck
Exterior Lights.....	As Required

Approach

Landing Data.....	Confirm
Crew Briefing.....	Complete
Avionics/Flight Instruments.....	Check
Minimums.....	Set
FUEL TRANSFER Selector.....	OFF
Exterior Lights.....	As Required
Ice Protection Systems.....	As Required
Flaps.....	15°
Passenger Briefing.....	Complete
Seats.....	Upright/Outboard
Seat Belts/Shoulder Harnesses.....	Adjusted/Secure
PASS LIGHTS Buttons.....	ON
EICAS.....	Check
Pressurization.....	Differential < 0.5 PSI by Touchdown

Before Landing

Landing Gear.....	Down (3 green)
Flaps.....	35°
Speed Brakes.....	0°
Autopilot and Yaw Damper.....	Disengage

Landing

THROTTLES	IDLE
Brakes (after nosewheel touchdown)	Apply
Speed Brakes/Ground Spoilers	Extend

All Engines Go-Around

GA Button	Push
THROTTLES	TO
Pitch Attitude	7.5° Initially, then As Required (use flight director GA mode)
Flaps	15°
Landing Gear (positive climb)	Up/Lights Out
Flaps	As Required (for flaps 0° - V _{APP} +10 knots)
Airspeed	As Required
THROTTLES	As Required
Yaw Damper	On
Autopilot	As Desired

After Landing

Speed Brakes/Ground Spoilers	0%
Flaps	0°
Ice Protection Systems	
PITOT/STATIC HEAT Buttons (both)	OFF
WING/ENG ANTI-ICE Buttons (both)	OFF
ENG ONLY ANTI-ICE Buttons (both)	As Required
TAIL DE-ICE Buttons (both)	OFF
Exterior Lights	As Required

Shutdown

Parking Brake	Set/Wheels Chocked
EMER LIGHTS Switch	OFF
Ice Protection Systems (all)	Off
THROTTLES	IDLE
ENGINE RUN/STOP Buttons (Both)	STOP
Exterior Lights	Off
External Power	As Required

Full Shutdown (no electrical power)

STBY FLT DISPLAY Switch	OFF
AVIONICS Switch	OFF
BATTERY Switch	OFF