CRJ-200ER

Atlantic Sun Airways CAT A Pilot Procedures



This is the second of a series of Atlantic Sun Airways CAT A pilot procedures and checklists for our fleet. Use them with good judgment.

The CRJ-200 will roll even with the thrust levers at IDLE. One-engine taxi is recommended for normal operations.

General Characteristics

Dimensions:

Span 69 ft 7 in Length 87 ft 10 in Height 20 ft 5 in

Engines:

200ER/LR GE CF34-3B1 x 2

TO thrust Rating: 9,200 lb

Weight and Capacities

Max TOW: 51,000 lb ZFW: 44,000 lb

Max Fuel Capacity: 14,305 lb

Passengers: 50 Crew: 2 + 1

Total Baggage Volume: 473 cu ft

Performance

Typical Cruise Speed: M.74 – Normal Cruse M.81 – High Speed Cruse

Range: 1,645 nm

Fuel flow: 1540pph @ cruise FL240

Speed Reference Cards:

Pick your T/O Weight and determine proper "V" speeds and Flap position with corresponding speed for maneuvering and approach. Note the VREF speeds for use in landing.

		39,000		
		LBS		
		Takeoff		
	Flaps 8			Flaps 20
Vr	122		Vr	115
V2	136		V2	126
Vfto	161			
		Landing		
Flaps	0	8	20	40
Maneuvering	168	156	151	138
Vref	158	146	141	128

		40,000 LBS		
		Takeoff		
	Flaps			Flaps
	8			20
Vr	124		Vr	117
V2	138		V2	127
Vfto	163			
		Landing		
Flaps	0	8	20	40
Maneuvering	170	158	153	140
Vref	160	148	143	130

		41,000 LBS		
		Takeoff		
	Flaps 8			Flaps 20
Vr	127		Vr	119
V2	140		V2	129
Vfto	166			
		Landing		
Flaps	0	8	20	40
Maneuvering	172	160	155	142
Vref	162	150	145	132

		42,000 LBS		
		Takeoff		
	Flaps 8			Flaps 20
Vr	129		Vr	121
V2	141		V2	130
Vfto	168			
		Landing		
Flaps	0	8	20	40
Maneuvering	173	161	155	143
Vref	163	151	145	133

		45,000 LBS		
		Takeoff		
	Flaps 8			Flaps 20
Vr	135		Vr	126
V2	146		V2	135
Vfto	173			
		Landing		
Flaps	0	8	20	40
Maneuvering	178	166	160	148
Vref	168	156	150	138
		51,000		
		LBS		

		Takeoff		
	Flaps 8			Flaps 20
Vr	146		Vr	137
V2	155		V2	148
Vfto	185			
		Landing		
Flaps	0	8	20	40
Maneuvering	188	176	170	158
Vref	178	166	160	148



THE CHECKLISTS

PRESTART CHECKLIST

Parking Brake SET
Throttle IDLE
Fuel Flow CUTOFF

BATT Master Switch ON

Landing Gear Lever CHECK DOWN Flaps UP

Spoiler RETRACTED
Fuel Quantity CHECK
Pitot Heat OFF
De-ice OFF

Aircraft Lighting OFF

Flight Controls FREE AND CORRECT

Fasten Seat Belts ON No Smoking ON

Check Weather (ATIS, Flight Service)

De-Ice TEST/CHECK

Request Clearance

Transponder STANDBY

Beacon ON

STARTUP CHECKLIST

Engine/throttle Panel ACTIVATE

Thrust Levers IDLE
Engine Area CLEAR
Eng 1 Start Switch START
At N2>20% fuel flow eng1 ON
N1 Increasing as N2 incr. CHECK

N1 Increasing as N2 incr.

Oil Pressure

Alt/Generator

CHECK

ON

Repeat for Eng 2 (after reaching run up area)

ONE ENGINE TAXI Recommended

Air-conditioning Fan ON

BEFORE TAXI CHECKLIST

Nav LightsONTaxi Lights / Runway Turnoff LightsONMulti-Functional DisplayCONFGHeading Indicator/AltimetersSETStandby InstrumentsSET

Radios and Avionics SET FOR DEPARTURE

Autopilot SET, don't activate

F/D Flight Director ON

Elevator Trim SET for takeoff

Request Taxi Clearance

TAXI CHECKLIST

Parking Brake RELEASE

Taxi to assigned runway SPEED Max. 20 knots Brakes/Gyro/Turn Coordinator CHECK during taxi/turns

BEFORE TAKEOFF CHECKLIST

Parking Brake

Throttle (START No.2 Eng)

Elevator Trim Flap Position Lever

Spoilers

Flight Instruments Engine Instruments Takeoff Data (Vr, V2)

Nav Equipment Landing Lights

Taxi Lights / Runway Turnoff Lights

Strobe Lights
Pitot Heat
De-ice

Transponder

Request Takeoff Clearance

SET IDLE

SET for takeoff FLAPS 8 or 20 deg. RETRACTED

CHECK CHECK

CHECK Speed Cards

CHECK ON OFF ON

AS REQUIRED

ON

ON

TAKEOFF CHECKLIST

Autobrakes Set to RTO

Smoothly increase thrust to 50% N1 let spool up 5-10 sec

Takeoff Thrust FULL or TO/GA
Brakes RELEASE

Vr= See Speed Cards (rotate)

Pitch 8 -10 nose up

V2= See Speed Cards

At Positive Climb Rate Touch Brakes
Landing Gear RETRACT

At 1000' AGL RETRACT flaps

CLIMBOUT CHECKLIST

Throttle AS REQUIRED Trim for V2 + 10 KTS

Autopilot CHECK and ACTIVATE

Maintain

2000 fpm climb to 2000FT @

200 KIAS

Below 10,000' max. speed 250KIAS

ATC AS REQUIRED

Begin slat retraction SEE Slat Retraction Table

Slat Position	Max Speed
0	191
8	179
20	173
40	161

Fasten Seatbelts

No Smoking

Landing Lights

OFF

Above 10,000' speed

OFF

290 KIAS

Climb at 2500 FPM

CRUISE CHECKLIST (above FL 180)

At Transition Altitude (FL180) set Altimeter to

Accelerate to cruise speed

Typical Cruise altitude

29.92 (1013 mb)

0.77 mach

20,000s FLs

Hi-speed cruise 0.81 mach (fuel penalty)

Engine Instruments CHECK Fuel Quantity CHECK

Radios TUNED and SET
Autopilot CHECK and SET
Lights AS REQUIRED

DESCENT CHECKLIST

ATIS /Airport Information CHECK Altimeter CHECK

De-ice AS REQUIRED

Descent Speed (above 10,000 ft) 320 KT

At Transition Altitude (FL180) reset Altimeters to local

To 12,000' 310KIAS
Below 10,000' 250KIAS
Balance CHECK

Fuel Quantities and Balance CHECK Flaps / landing Gear CHECK UP

Check Weather (ATIS, Flight Service)

Plan Descent to arrive at 10,000 FT AGL, and 250 KTS 30 miles from airport.

RECOMMENDED APPROACH PLANNING:

210KTS below 10,000 FT, 30 miles from airport 180-190 KTS, 23 miles from airport 170 KTS, 16-17 miles from airport VREF, 5-7 miles from airport

APPROACH CHECKLIST

On Localizer Level flight:

Fasten Seat Belts ON
No Smoking ON
Avionics + Radios SET

Speed: Establish VREF (See Speed Cards)

Landing LightsONFlap Lever Position8→20 deg.Speed: Establish180KIASFlap Lever Position20 deg.

Speed: Establish 160KIAS Landing Gear DOWN

Set Flap Lever Position 20→40 deg.

Final Glide Slope Descent:

Speed Establish

VREF + 5 (See Speed

Cards)
Elevator Trim AS DESIRED
Parking Brake VERIFY OFF

Parking Brake VERIFY OFF
De-ice AS REQUIRED

LANDING CHECKLIST

Landing Gear CHECK DOWN

Autopilot OFF
Landing Speed VREF + 5

Pitch -3 Deg.
At Touchdown Pitch to +1 Deg.
After Touchdown Apply Reverse Thrust

60KIAS: Apply neverse Thrust
Cancel Reverse Thrust
VERIEV EXTENDED

Spoilers VERIFY EXTENDED
Autobrakes AS REQUIRED

TAXI TO RAMP CHECKLIST

Strobe Light OFF Flaps UP

Spoilers RETRACTED

Taxi Lights /Runway Turnoff Lights ON Landing Lights OFF

Shutdown Eng. 2 Fuel Flow OFF
Speed Max. 20 knots
Transponder 1200/OFF

Elevator Trim TAKEOFF SETTING

SHUTDOWN CHECKLIST

SET Parking Brake **Throttles IDLE** Passenger Signs **OFF** Air-conditioning Fan **OFF** Pitot Heat **OFF** De-ice **OFF** Taxi Lights / Runway turnoff Lights **OFF** Nav Lights OFF **OFF** F/D Fuel flow **OFF** Alt/Generators **OFF**

Engine Start Switches VERIFY OFF

Beacon OFF
Passenger Door OPEN
BATT Master Switch OFF

SECURING AIRCRAFT

Parking Brake VERIFY SET
Throttles VERIFY IDLE
All Switches VERIFY OFF
Passenger Door CLOSED

Good Luck and enjoy using these procedures, I have flight tested and verified them on FS9. Of course if you have a real Canadair CRJ-200 use the Operating Procedures in your AFM!

Ted Feiertag

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