

Boeing 757-200

Atlantic Sun Airways CAT C Pilot Procedures



This is the first of a series of Atlantic Sun Airways CAT C pilot procedures and checklists for our fleet. Use them with good judgment. Note, the start procedures may vary from FS9 Panel to Panel. However the “V” speeds are appropriate for our ASA FS9 757.

General Characteristics

Dimensions:

Wing Span: 124 ft 10 in
Length: 155 ft 3 in
Height: 44 ft 6 in
Wing Area: 1994 sq ft

Engines:

Two 37,400 lb Rolls Royce RB211-535C turbofans, or 40,200 lb RB211-535E4s, or 43,500 lb RB211-535E4-Bs or Pratt & Whitney 36,600 lb PW 2037s or 41,100 lb PW 2040s or 42,600 lb PW2043s.

Weight and Capacities

Operating Empty: P&W engines: 127,520 lb, with RB211s: 127,810 lb
Basic Max. Takeoff: 220,000 lb
Medium Range MTOW: 240,000 lb
Extended Range MTOW: 255,999 lb or 255,550 lb
Typical two class seating for 178 with 16 First Class and 162 Coach Class or 208 with 12 First Class and 214 to 239 in Coach Class.
Crew: 2 + 3

Performance:

Max Cruising Speed: 493 kts
Economical Cruising Speed: 460 kts
Range with P&W engines and 186 passengers: 2782 nm
Range with RR engines: 2569 nm
Range at optional MTOW with P&W engines: 3929 nm
Extended Range MTOW: 255,000 lb or 255,550 lb



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/Anti-ice	OFF
Aircraft Lighting	OFF
Flight Controls	FREE AND CORRECT
Avionics	ON
Fasten Seat Belts	ON
No Smoking	ON
Elevator Trim	TAKEOFF SETTING
Check Weather	(ATIS, Flight Service)
Anti-ice	TEST/CHECK
<i>Request Clearance</i>	
Transponder	STANDBY
Beacon	ON

STARTUP CHECKLIST

Engine/Throttle Panel	ACTIVATE
Thrust Levers	IDLE
Engine Area	CLEAR
Central Engine Starter Switch	POS. 1
Start Button Engine 1	START (hold until engine starts)
Central Engine Start Switch	POS. 2
Start Button engine 2	START (hold until engine starts)
Central Engine Start Switch	CENTER POSITION
APU Switch	ON

BEFORE TAXI CHECKLIST

Nav Lights	ON
Taxi Lights / Runway Turnoff Lights	ON
Heading Indicator/Altimeters	SET
Radios and Avionics	SET FOR DEPARTURE
Autopilot	SET, ARM don't activate
Autothrottle	SET, ARM, don't activate
F/D	ON
Yaw Damper	ON
Autobrake	RTO
<i>Request Taxi Clearance</i>	

TAXI CHECKLIST

Parking Brake	RELEASE
---------------	---------

Taxi to assigned runway
Brakes/Gyro/Turn Coordinator
Artificial Horizon

SPEED Max. 20 knots
CHECK during taxi/turns
ERECT during turns

BEFORE TAKEOFF CHECKLIST

Parking Brake
Throttle
Elevator Trim
Flap Position Lever
Spoilers
Flight Instruments
Engine Instruments
Takeoff Data (V1, Vr, V2)
Nav Equipment
Landing Lights
Taxi Lights / Runway Turnoff Lights
Strobe Lights
Pitot Heat
De-ice
Transponder

SET
IDLE
SET for takeoff
FLAPS 10 deg.
RETRACTED
CHECKED
CHECK
CHECK
CHECK
ON
OFF
ON
ON
AS REQUIRED
ON

Request Takeoff Clearance

TAKEOFF CHECKLIST

Smoothly increase thrust to
Takeoff Thrust
Brakes
V1=
Vr=
Pitch
V2=
At Positive Climb Rate
Landing Gear
At 180 KIAS
At 210 KIAS

40% N1 let spool up
FULL or TO/GA
RELEASE
140 KIAS (decision)
145 KIAS (rotate)
10 deg. nose up
150 KIAS (safety speed)
Touch Brakes
RETRACT
RETRACT flaps to 5 deg.
RETRACT flaps up

CLIMBOUT CHECKLIST

Throttle
Trim for
Autopilot/Autothrottle

AS REQUIRED
250 KIAS / 1800 fpm
CHECK and ACTIVATE

Below 10,000' max. speed

ATC

Fasten Seatbelts
No Smoking
Landing Lights
Above 10,000' speed

250KIAS
AS REQUIRED
OFF
OFF
OFF
300 KIAS

CRUISE CHECKLIST (above FL 180)

At Transition Altitude (FL180) set Altimeter to
Accelerate to cruise speed

29.92 (1013 mb)
FL180 0.68 mach (332KIAS)
FL240 0.75 mach (330KIAS)
FL280 0.80 mach (325KIAS)
FL330 0.80 mach (292KIAS)

Engine+ Instruments
Fuel Quantity
Radios
Autopilot
Lights

CHECK
CHECK
TUNED and SET
CHECK and SET
AS REQUIRED

DESCENT CHECKLIST

ATIS /Airport Information
Altimeter
Radios
De-ice

CHECK
CHECK
CHECK
AS REQUIRED

Descent Speed

to FL240 0.78 mach
to FL180 0.68 mach

At Transition Altitude (FL180) reset Altimeters to local

to 12,000' 300 KIAS
Below 10,000' 250 KIAS

Fuel Quantities and Balance
Flaps /Landing Gear
Check Weather

CHECK
CHECK UP
(ATIS, Flight Service)

APPROACH CHECKLIST

On Localizer Level flight:	
Fasten Seat Belts	ON
No Smoking	ON
Avionics + Radios	SET
Speed: Establish	220 KIAS
Landing Lights	ON
Auto Spoilers	ARM
Autobrake	SET
Flap Lever Position	5 deg.
Speed: Establish	200 KIAS
Flap Lever Position	10 - 15 deg.
Speed: Establish	180 KIAS
Flaps Lever Position	20 deg.
Speed: Establish	165 KIAS
Landing Gear	DOWN
Set Flap Lever Position	25 deg. or FULL

Final glide Slope Descent:

Speed Establish	155 KIAS
Elevator Trim	AS DESIRED
Parking Brake	VERIFY OFF
De-ice	AS REQUIRED

LANDING CHECKLIST

Landing Gear	CHECK DOWN
Autopilot	OFF
Landing Speed	145 KIAS
After Touchdown	Apply Reverse Thrust
	60KIAS: Cancel Reverse Thrust
	VERIFY EXTENDED
	AS REQUIRED
Spoilers	
Brakes	

TAXI TO RAMP CHECKLIST

Strobe Light	OFF
Flaps	UP
Spoilers	RETRACTED
Taxi Lights /Runway Turnoff Lights	ON
Landing Lights	OFF
Speed	Max. 20 knots
Transponder	1200 / OFF
Elevator Trim	TAKEOFF SETTING

SHUTDOWN CHECKLIST

Parking Brake	SET
Throttles	IDLE
Passenger Signs	OFF
Air-conditioning Fan	OFF
Pitot Heat	OFF
De-ice	OFF
Taxi Lights / Runway turnoff Lights	OFF
Nav Lights	OFF
F/D	OFF
Avionics	OFF
Fuel flow	OFF
Eng Start Switches 1 – 2	OFF
Beacon	OFF
Panel Lights	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 757-200 use the Operating Procedures in your AFM!

Ted Feiertag
Training Manager Atlantic Sun Airways