

Boeing 737-800

Atlantic Sun Airways CAT B Pilot Procedures



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

General Characteristics

Dimensions:

Wing Span: 112 ft 7 in

Length: 129 ft 6 in

Height: 41 ft 2 in

Wing Area: 1344 sq ft

Engines:

Two 24,000lb CFM56-7B24s or two 27,300lb CFM56-7B27s on high gross weight version

Weight and Capacities

Operating Empty: 90,710 lb

Passengers

Typical two class seating for 162 with 12 First Class at four abreast and 36 in pitch and 150 Coach Class with 6 abreast and 32 in pitch

Crew: 2 + 2

Performance:

Typical Cruising Speed: Mach 0.785

Max Certificated Altitude: 41,000 ft

Standard Range with 162 passengers: 3585 nm

Standard Range for HGW Model: 2940 nm



THE CHECKLISTS

PRESTART CHECKLIST

Parking Brake
 Throttle
 Fuel Flow
 BATT Master Switch
 Landing Gear Lever
 Flaps
 Spoiler
 Fuel Quantity
 Pitot Heat
 Aircraft Lighting
 Flight Controls
 Avionics
 Fasten Seat Belts
 No Smoking
 Check Weather
 De-Ice
Request Clearance
 Transponder
 Beacon

SET
 IDLE
 CUTOFF
 ON
 CHECK DOWN
 UP
 RETRACTED
 CHECK
 OFF
 OFF
 FREE AND CORRECT
 ON
 ON
 ON
 (ATIS, Flight Service)
 TEST/CHECK

 STANDBY
 ON

STARTUP CHECKLIST

Engine/Throttle Panel	ACTIVATE
Thrust Levers	IDLE
Engine Area	CLEAR
Eng. 1 Start Switch	START
At N2>20% Fuel Flow Eng 1	ON
N1 Increasing as N2 incr.	CHECK
Oil Pressure	CHECK
Repeat for Eng. 2	
1 – 2 Start Switches	CHECK GEN
Air Conditioning Fan	ON

BEFORE TAXI CHECKLIST

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

TAXI CHECKLIST

Parking Brake	RELEASE
Taxi to assigned runway	SPEED Max. 20 knots
Brakes/Gyro/Turn Coordinator	CHECK during taxi/turns
Artificial Horizon	ERECT during turns

BEFORE TAKEOFF CHECKLIST

Parking Brake	SET
Throttle	IDLE
Elevator Trim	SET for takeoff
Flap Position Lever	FLAPS 5 deg.
Spoilers	RETRACTED
Flight Instruments	CHECKED
Engine Instruments	CHECK
Takeoff Data (V1, Vr, V2)	CHECK
Nav Equipment	CHECK
Landing Lights	ON
Taxi Lights / Runway Turnoff Lights	OFF
Strobe Lights	ON
Pitot Heat	ON
De-ice	AS REQUIRED
Transponder	ON
<i>Request Takeoff Clearance</i>	

TAKEOFF CHECKLIST

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

40% N1 let spool up
FULL or TO/GA
RELEASE
145 KIAS (decision)
156 KIAS (rotate)
10 deg. nose up
160 KIAS (safety speed)
Touch Brakes
RETRACT
RETRACT flap 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
280 KIAS

CRUISE CHECKLIST (above FL 180)

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

29.92 (1013 mb)
FL180 0.67 mach (330KIAS)
FL240 0.76 mach (335KIAS)
FL280 0.80 mach (325KIAS)
FL330 0.81 mach (295KIAS)

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 0.75 mach
to FL180 0.65 mach

At Transition Altitude (FL180) reset Altimeters to local

to 12,000' 280 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

210 KIAS

Landing Lights

ON

Auto Spoilers

ARM

Autobrake

SET

Flap Lever Position

5 -10 deg.

Speed: Establish

180 KIAS

Flap Lever Position

15 - 20 deg.

Speed: Establish

160 KIAS

Landing Gear

DOWN

Set Flap Lever Position

30 deg. or FULL

Final glide Slope Descent:

Speed Establish

145 KIAS

Elevator Trim

AS DESIRED

Parking Brake

VERIFY OFF

De-ice

AS REQUIRED

LANDING CHECKLIST

Landing Gear

CHECK DOWN

Autopilot

OFF

Landing Speed

140 KIAS

After Touchdown

Apply Reverse Thrust
60KIAS: Cancel Reverse
Thrust

Spoilers

VERIFY EXTENDED

Brakes

AS REQUIRED

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
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 737-800 use the Operating Procedures in your AFM!

Ted Feiertag
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