

MD-83

Atlantic Sun Airways CAT B Pilot Procedures



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

General Characteristics

Dimensions:

Span 107 ft 10 in

Length 147 ft 10 in

Height 29ft 7 in

Engines:

Two 18,500 lb Pratt & Whitney JT8D-209 turbofans

Weight and Capacities:

Operating Empty: 77,888 lb

Max Takeoff: 140,000 lb or 149,500 lb with JT8D-217A engines

Passengers: Max seating for 172. Typical two class seating for 142, comprising 14 First Class and 128 Coach Class.

Crew: 2 + 2

Performance:

Max Speed: 500 kts

Long Range Cruising speed: 440 kts

Range with 155 passengers and reserves: 1564 nm



THE CHECKLISTS

PRESTART CHECKLIST

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

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

 STANDBY
 ON

STARTUP CHECKLIST

Engine/Throttle Panel
Thrust Levers
Engine Area
Left Engine

At N2>20% Fuel Flow Eng 1
N1 Increasing as N2 incr.
Oil Pressure

ACTIVATE
IDLE
CLEAR
IGNITION (hold until engine starts)
ON
CHECK
CHECK

Repeat for Right Engine

Air-conditioning Fan
APU (or GPU)
APU (or GPU)

ON
ON
SELECT OFF

BEFORE TAXI CHECKLIST

Nav Lights
Taxi Lights / Runway Turnoff Lights
Heading Indicator/Altimeters
Radios and Avionics
Autopilot
Autothrottle
Yaw Damper
Autobrake

Request Taxi Clearance

ON
ON
SET
SET FOR DEPARTURE
SET, ARM, don't activate
SET, ARM, don't activate
ON
RTO

TAXI CHECKLIST

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

RELEASE
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

Request Takeoff Clearance

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

TAKEOFF CHECKLIST

Smoothly increase thrust to
Takeoff Thrust
Brakes
V1=
Vr=
Pitch
V2=
At Positive Climb Rate
Landing Gear
At 190 KIAS

40% N1 let spool up
FULL or TO/GA
RELEASE
135 KIAS (decision)
140 KIAS (rotate)
15 deg. nose up
145 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
290 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
FL240 0.76 mach
FL280 0.78 mach
FL330 0.78 mach

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
Descent Speed

CHECK
CHECK
CHECK
AS REQUIRED
to FL240 0.75 mach
to FL180 0.67 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
No Smoking
Avionics + Radios
Speed: Establish
Landing Lights
Auto Spoilers
Autobrake
Flap Lever Position
Speed: Establish
Flap Lever Position
Speed: Establish
Landing Gear
Set Flap Lever Position

ON
ON
SET
200 KIAS
ON
ARM
SET
10 deg.
170 KIAS
20 deg.
150 KIAS
DOWN
FULL

Final glide Slope Descent:

Speed Establish
Elevator Trim
Parking Brake
De-ice

145 KIAS
AS DESIRED
VERIFY OFF
AS REQUIRED

LANDING CHECKLIST

Landing Gear
Autopilot
Landing Speed
After Touchdown

CHECK DOWN
OFF
140 KIAS
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
Avionics	OFF
Fuel flow	OFF
APU	OFF
APU	SELECT 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 MD-83 use the Operating Procedures in your AFM!

Ted Feiertag
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