This is the second 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: 108 ft
- Length: 153 ft 2 in
- Height: 34 ft
- Wing Area: 1700 sq. ft

**Engines:**
- Three 14,500 lb Pratt & Whitney JT8D-9 turbofans

**Weight and Capacities**
- Operating Empty: 100,000 lbs
- Max ZFW: 155,000 lbs.
- Max T/O Weight: 203,100 lbs.
- Cargo: 12 containers on the main deck
- Fuel Capacity: 8,105 gal.
- Crew: 3 + 3

**Performance:**
- Max Cruising Speed: 515 kts
- Economical Cruise speed: 467 kts
- Range with max payload: 2140 nm
- Range with max fuel: 2400 nm
THE CHECKLISTS

PRESTART CHECKLIST

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking Brake</td>
<td>SET</td>
</tr>
<tr>
<td>Throttle</td>
<td>IDLE</td>
</tr>
<tr>
<td>Fuel Flow</td>
<td>CUTOFF</td>
</tr>
<tr>
<td>BATT Master Switch</td>
<td>ON</td>
</tr>
<tr>
<td>Landing Gear Lever</td>
<td>CHECK DOWN</td>
</tr>
<tr>
<td>Flaps</td>
<td>UP</td>
</tr>
<tr>
<td>Spoiler</td>
<td>RETRACTED</td>
</tr>
<tr>
<td>Fuel Quantity</td>
<td>CHECK</td>
</tr>
<tr>
<td>Pitot Heat</td>
<td>OFF</td>
</tr>
<tr>
<td>De-Ice</td>
<td>OFF</td>
</tr>
<tr>
<td>Aircraft Lighting</td>
<td>OFF</td>
</tr>
<tr>
<td>Flight Controls</td>
<td>FREE AND CORRECT</td>
</tr>
<tr>
<td>Check Weather</td>
<td>(ATIS, Flight Service)</td>
</tr>
<tr>
<td>De-Ice</td>
<td>TEST/CHECK</td>
</tr>
<tr>
<td>Request Clearance</td>
<td>STANDBY</td>
</tr>
<tr>
<td>Transponder</td>
<td>ON</td>
</tr>
<tr>
<td>Beacon</td>
<td></td>
</tr>
</tbody>
</table>
STARTUP CHECKLIST
- Engine/Throttle Panel: ACTIVATE
- Thrust Levers: IDLE
- Engine Area: CLEAR

Eng 3 Start Switch: START
- At N2>20% fuel flow eng 3
- N1 Increasing as N2 incr.
- Oil Pressure: CHECK

Repeat for Eng 1 & 2
- Alt/Generator: ON
- 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
- 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: SET
- Throttle: IDLE
- Elevator Trim: SET for takeoff
- Flap Position Lever: FLAPS 5 deg.
- Spoilers: RETRACTED
- Flight Instruments: CHECK
- 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

Request Takeoff Clearance
TAKEOFF CHECKLIST
Smoothly increase thrust to 40% N1 let spool up
Takeoff Thrust FULL or TO/GA
Brakes RELEASE
V1= 140 KIAS (decision)
Vr= 145 KIAS (rotate)
Pitch 10-deg. nose up
V2= 150 KIAS (safety speed)
At Positive Climb Rate Touch Brakes
Landing Gear RETRACT
At 190 KIAS RETRACT flaps to 2 deg.
At 210 KIAS RETRACT flap up

CLIMBOUT CHECKLIST
Throttle AS REQUIRED
Trim for 250 KIAS / 1800 fpm
Autopilot/Autothrottle CHECK and ACTIVATE
Below 10,000’ max. speed 250KIAS
ATC AS REQUIRED
Landing Lights OFF
Above 10,000’ speed 280 KIAS

CRUISE CHECKLIST (above FL 180)
At Transition Altitude (FL180) set Altimeter to 29.92 (1013 mb)
Accelerate to cruise speed
FL180 0.68 mach
FL240 0.78 mach
FL280 0.80 mach
FL330 0.80 mach
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
Radios CHECK
De-ice 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 CHECK
Flaps/Landing Gear CHECK UP
Check Weather (ATIS, Flight Service)

APPROACH CHECKLIST

On Localizer Level flight:
Avionics + Radios SET
Speed: Establish 210 KIAS
Landing Lights ON
Auto Spoilers ARM
Flap Lever Position Speed: Establish 2 deg.
Flap Lever Position Speed: Establish 5 deg.
Flap Lever Position Speed: Establish 15 deg.
Flap Lever Position Speed: Establish 25 deg.
Landing Gear DOWN
Set Flap Lever Position 30 deg or FULL

Final glide Slope Descent:
Speed Establish 140 KIAS
Elevator Trim AS DESIRED
Parking Brake VERIFY OFF
De-ice AS REQUIRED
LANDING CHECKLIST
Landing Gear CHECK DOWN
Autopilot OFF
Landing Speed 130 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
Air-conditioning Fan OFF
Pitot Heat OFF
De-ice OFF
Taxi Lights / Runway turnoff Lights OFF
Nav Lights OFF
F/D OFF
Fuel flow OFF
Alt/Generators OFF
Engine Start Switches 1 - 2 - 3 VERIFY OFF
Beacon OFF
Cargo Door OPEN
BATT Master Switch OFF

SECURING AIRCRAFT
Parking Brake VERIFY SET
Throttles VERIFY IDLE
All Switches VERIFY OFF
Cargo 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 Boeing 727-200F use the Operating Procedures in your AFM!

Ted Feiertag
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