Boeing 777-300
Atlantic Sun Airways CAT C Pilot Procedures

This is the third 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 777-300.

General Characteristics

Dimensions:
Wing Span: 199 ft 11 in
Length: 242 ft 4 in
Height: 60 ft 9 in
Wing Area: 4,605 sq. ft

Engines:
Either two 90,000 lb Pratt & Whitney PW-4090 turbofans, or 98,000 lb PW-4098s, or 92,000 lb Rolls-Royce Trent 892s, or 92,000 lb General electric GE90-92Bs.

Weight and Capacities
Operating Empty: 353,600 lb
Basic Max. Takeoff: 580,000 lb
High Gross Weight MTOW: 660,000 lb
Flightcrew of two.
Typical passenger accommodation for 389 (30 first Class, 84 business Class, and 254 Coach Class) to 394 in three class arrangements, 400 to 479 in two class arrangements or up to 550 in an all coach high density configuration.

Performance:
Typical Cruising Speed: 482 kts
Range with 386 passengers in a three-class passenger configuration: 5,720 nm
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
Engine Instruments CHECK
Pitot Heat OFF
Aircraft Lighting / Anti-ice OFF
Flight Controls FREE AND CORRECT
Avionics ON
Fasten Seat Belts/No Smoking ON
Check Weather (ATIS, Flight Service)
Anti-ice OFF
Request Clearance FREE AND CORRECT
Transponder ON
Beacon ON

2
STARTUP CHECKLIST

Engine/Throttle Panel ACTIVATE
Thrust Levers IDLE
Engine Area CLEAR

Eng 1 Start Switch START (hold)
At N2 > 20% Fuel Flow Eng 1 ON
Fuel Flow CHECK
N1 increasing as N2 incr. CHECK

Eng 2 Start Switch START (hold)
At N2 > 20% Fuel Flow Eng 2 ON
Fuel Flow CHECK
N1 increasing as N2 incr. CHECK

Oil Pressure CHECK
De-ice AS REQUIRED
MFD EICAS

BEFORE TAXI CHECKLIST

Nav Lights ON
Taxi Lights ON
Heading Indicator/Altimeters SET
Radios and Avionics SET FOR DEPARTURE
Autopilot SET, don’t activate
Autothrottle SET, don’t activate
F/D ON
Yaw Damper ON
Autobrake RTO
Elevator Trim SET for takeoff

Request Taxi Clearance

TAXI CHECKLIST

Parking Brake RELEASED
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
Flap Position Lever FLAPS 5 deg.
Spoilers RETRACTED
Flight Instruments CHECKED
Engine Instruments CHECK
Takeoff Data (V1, Vr, V2) CHECK
Nav Equipment ON
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= 155 KIAS (decision)
Vr= 160 KIAS (rotate)
Pitch 10 deg. nose up
V2= 165 KIAS (safety speed)
At Positive Climb Rate Touch Brakes
Landing Gear RETRACT
At 190 KIAS RETRACT flaps to 1 deg.
At 210 KIAS RETRACT flaps up
MFD ND

CLIMBOUT CHECKLIST

Throttle AS REQUIRED
Trim for 250 KIAS / 1800 fpm
Autothrottle ARM and SET
Autopilot ON and SET
Autobrake OFF
Below 10,000’ max. speed 250 KIAS
ATC AS REQUIRED
Fasten Seatbelts OFF
No Smoking OFF
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 0.67 mach (330KIAS)
FL240 0.75 mach (330KIAS)
FL280 0.80 mach (325KIAS)
FL330 0.84 mach (310KIAS)
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 0.75 mach
to FL180 0.65 mach
At Transition Altitude (FL180) reset Altimeters to local to 12,000’ 300 KIAS
Below 10,000’ 240 KIAS
Fuel Quantities and Balance CHECK
Flaps /Landing Gear CHECK UP
Check Weather (ATIS, Flight Service)

APPROACH CHECKLIST
On Localizer Level flight:
Fasten Seat Belts ON
No Smoking ON
Avionics + Radios SET
Speed: Establish 210 KIAS
MFD EICAS
Landing Lights ON
Auto Spoilers ARM
Autobrake SET
Flap Lever Position 5 - 10 deg.
Speed: Establish 180 KIAS
Flap Lever Position 20 deg.
Speed: Establish 180 KIAS
Flaps Lever Position 20 deg.
Speed: Establish 160 KIAS
Landing Gear DOWN
Set Flap Lever Position 30 deg. or FULL
APPROACH CHECKLIST contd.

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: 150 KIAS
- After Touchdown: Apply Reverse Thrust
  - 60KIAS: Cancel Reverse Thrust
- Spoilers: VERIFY EXTENDED
- Brakes: AS REQUIRED
- Autobrake: OFF

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
- 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 777-300 use the Operating Procedures in your AFM!

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