ATR 72-500

Atlantic Sun Airways CAT A Pilot Procedures



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

General Characteristics

Dimensions:

Span 88 ft 9 in Length 89 ft 2 in Height 25 ft 1 in

Engines:

P&WC PW 127F turboprops x 2 driving six blade Hamilton Sundstrand propellers

Weight and Capacities

Operating Empty Weight: 28,550 lb Max TOW: 48,501 lb Optional: 49,604 lb

Passengers: 74 Max Seating - 4 abreast Crew: 2

Performance

Max Cruising Speed at 15,000 FT: 284 KTS Economical Cruising Speed: 248 KTS Range with Reserves at Max Operational Weight: 645 nm Range with 66 Passengers: 1,200 nm



THE CHECKLISTS

PRESTART CHECKLIST

Parking Brake Battery Switch **Generator Switches Power Management Switch** Automatic Torque Switches Throttle Landing Gear Lever Propeller **Fuel Condition Lever** Idle Gate Lever Flaps Battery Switch Panel Lights **Fuel Quantity** Flight Controls **Avionics Master Switch** Fasten Seat Belts No Smoking **Check Weather De-ice Request Clearance** Transponder Beacon

SET OFF OFF CHECK SET TO (take off) CHECK OFF !!! IDLE **CHECK DOWN HIGH RPM** FUEL CUTOFF **GROUND IDLE** UP ON ON if required CHECK CHECK ON ON ON (ATIS, Flight Service) TEST/CHECK

STANDBY ON

STARTUP CHECKLIST

Engine and Propeller Area Thrust Levers Fuel Valves Fuel Condition Lever Idle Gate Lever Prop Brake Engine Start Selection Switch Engine Start Selection Switch Start Button Engine 2

Generator 2 Start Button engine 1

Generator 1 Loadmeter+Voltmeter Engine Start Selection Switch

BEFORE TAXI CHECKLIST

Nav Lights Taxi Lights / Logo Lights / Wing Lights Heading Indicator/ Altimeter Instruments Radios and Avionics Autopilot F/D *Request Taxi Clearance*

TAXI CHECKLIST

Parking Brake Brakes Directional Gyro Turn Coordinator Artificial Horizon Taxi to assigned runway CLEAR IDLE **OPEN** AUTO FLIGHT IDLE OFF **CRANK** few seconds START A + B START (hold until engine starts) ON START (hold until engine starts) ON CHECK for CHARGE OFF

ON ON SET NORMAL OPERATION ON, CHECKED, and SET SET and OFF ON

RELEASE CHECK during taxi PROPER IND. during turns PROPER IND. during turns ERECT during turns SPEED Max. 20 knots

BEFORE TAKEOFF CHECKLIST

Parking Brake Fuel Quantity Throttle **Elevator Trim** Flaps Flight Controls Engine / Flight Instruments Radios and Avionics Landing Lights Taxi Lights Strobe Light Pitot Heat Anti-ice **Power Management Switch** Annunciator Lights Transponder Request Takeoff Clearance

TAKEOFF CHECKLIST

Automatic Torque Switches Brakes V1= Vr= Pitch V2= At Positive Climb Rate Landing Gear Power Management Switch At 130 KIAS Annunciator Lights/Eng. Instruments

CLIMB-out CHECKLIST

Power Management Switch Autopilot Yaw Damper Landing Lights Airspeed Above 12,000 ft

Engine Instruments MC ATC AS At Transition Altitude (FL180) set Altimeter to 29.92 (1013mb)

SET CHECK IDLE SET for takeoff 15 dea FREE AND CORRECT CHECK SET ON OFF ON ON **AS REQUIRED** SET TO (takeoff) CHECK ON

BOTH ON RELEASE 110 KIAS 10 degrees 115 KIAS Touch Brakes RETRACT SET CLB (climb) RETRACT FLAPS CHECK

CHECK CLB CHECK and SET ON OFF 190 KIAS / 1800 fpm 89% 180 KIAS / 1500 fpm 77% MONITOR AS REQUIRED

CRUISE CHECKLIST (above FL 180)

Accelerate to cruise speed Power Management Switch at 6,000 ft at 9,000 ft at 12,000 ft at 18,000 ft at 24,000 ft Service Ceiling 25,000 ft

Engine+Instruments Fuel Quantity Radios Autopilot

DESCENT CHECKLIST

ATIS /Airport Information Altimeter Radios Automatic Torque Switches Descent Speed Descent Rate Flaps / Landing Gear At Transition Altitude (FL180) reset Altimeter to local Check Weather

APPROACH CHECKLIST

On Localizer Level Flight: Fasten Seat Belts No Smoking Avionics + Radios Speed: Establish Flaps Landing Lights Speed: Establish Landing Gear

Final glide Slope Descent:

Speed: Establish Descent Rate Elevator Trim Parking Brake Anti-Ice Yaw Damper

SET CRZ (cruise)	
KIAS	78%
KIAS	76%
KIS	73%
KIAS	68%
KIAS	63%
	KIAS KIAS KIS KIAS

- CHECK CHECK TUNED and SET CHECK and SET
- CHECK CHECK SET OFF !!! 200 – 240 KIAS -1500 fpm CHECK UP

(ATIS, Flight Service)

ON ON SET 145 KIAS 15 deg ON 130 KIAS DOWN

120 KIAS -600 fpm AS DESIRED VERIFY OFF AS REQUIRED OFF

LANDING CHECKLIST

Landing Gear Autopilot Landing Speed Touchdown Landing Roll After Touchdown

TAXI TO RAMP CHECKLIST

Strobe Light Flaps Spoilers Taxi Lights /Runway Turnoff Lights Landing Lights Anti-ice Speed Transponder Elevator Trim Avionics/Radios

SHUTDOWN CHECKLIST

Parking Brake Throttles **Passenger Signs** Air-conditioning Fan Pitot Heat De-ice Taxi Lights / Runway turnoff Lights Nav Lights F/D Fuel Cond. Lever Idle Gate Lever Fuel Valves **Power Management Switch** Generators **Prop Brake** Panel Light Beacon Passenger Door **BATT Master Switch**

SECURING AIRCRAFT

Parking Brake Throttles All Switches Passenger Door CHECK DOWN, 3 GREEN OFF 115 KIAS MAIN WHEELS FIRST LOWER NOSE WHEEL Apply Reverse Thrust, at 60 kts: Cancel Reverse Thrust

OFF UP RETRACTED ON OFF OFF Max. 20 knots 1200/OFF TAKEOFF SETTING AS REQUIRED

SET IDLE OFF OFF OFF OFF OFF OFF OFF **FUEL CUTOFF GROUND IDLE** CLOSE SET TO (takeoff) OFF ON OFF OFF **OPEN** OFF

VERIFY SET VERIFY IDLE VERIFY OFF CLOSED Good Luck and enjoy using these procedures, I have flight tested and verified them on FS9. Of course if you have a real ATR 72-500 use the Operating Procedures in your AFM!

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