

## aircraft technical description

Aircraft type: Embraer Brasilia  
EMB-120ER

Serial Number: 120.272

Fuselage Number: Not Applicable

Date Entered Service: 26 June, 1992

Type Certificate Numbers: A31SO - airframe  
E20NE - engine

Last Operator: Atlantic Southeast Airlines -  
Delta Connection

Current Registration: N500DN

### Summary of Aircraft History:

26 June 1992, Aircraft serial number 120.272, FAA registry as N500AS delivered to Atlantic Southeast Airlines (owner)

11 March 2003, removed from service by Atlantic Southeast Airlines,  
Total Hours: 25,733.7, Total Cycles: 24,556

18 December 2003, Leased to Aviones de Renta de Quintana Roo,  
operating as Avioquintana

06 April 2004, Aircraft serial number 120.272 registered in Mexico as  
XA-UAI

30 April 2005, Lease Termination,  
Total Hours: 25,994.45, Total Cycles 24,743

26 August, 2005 Atlantic Southeast Airlines sold Aircraft serial number  
120.272, registration number XA-UAI to its parent company Delta Air  
Lines

16 July 2009, Delta Air Lines sold the Aircraft serial number 120.272,  
registration number N500DN to Airline Consultants International.

## aircraft technical data<sup>1</sup>

Total Hours: 25,995.5  
Total Cycles: 24,744

### **operational weights:**

maximum taxi: 26,609 lbs.  
maximum takeoff: 26,433 lbs.  
maximum landing: 25,794 lbs.  
maximum zero fuel: 24,030 lbs.  
operator's empty weight: 16,345 lbs.  
fuel capacity: 5,740.6 lbs. 876.41 US gals.  
last weighed: 15 October, 2003

\* Note Aircraft will be weighed as part of the current maintenance that is presently underway

### **interior configuration: passenger**

seating capacity: 30 economy class passenger seats  
galley: 1 forward  
lavatories: 1 forward  
cockpit: 2 crew, 1 observer

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<sup>1</sup> Current as of 01 January, 2011.

**Powerplants:  
Installed Engines: Pratt & Whitney Canada  
FAR Part 36 Stage III Compliant**

engine number one: PW118  
serial number: 115503

engine number two: PW118  
serial number: 115514

**Installed APU: AlliedSignal- Garrett Airesearch**  
model: GTCP36-150AA  
part number: 3800376-1  
serial number: P236  
time since inspection: 3,045.8

## time controlled life-limited data

inspection data:<sup>2</sup>

Item	Frequency	Aircraft time and date last performed	Aircraft time next due	Time remaining
A check	400 hours	25,995.5 hrs 01 Jan, 2011	26,395.5 hrs	400.0 hrs
2A check	800 hours	25,995.5 hrs 01 Jan, 2011 <sup>3</sup>	26,795.5 hrs	800.0 hrs
3A check	1,200 hours	25,995.5 hrs 01 Jan, 2011	27,195.5 hrs	1,200.0 hrs
1,600 hour check	1,600 hours	25,995.5 hrs 01 Jan, 2011	27,595.5 hrs	1,600.0 hrs
5A check	2,000 hours	25,995.5 hrs 01 Jan, 2011	27,995.5 hrs	2,000.0 hrs
4,000 hour check	4,000 hours	25,995.5 hrs 01 Jan, 2011	29,995.5 hrs	4,000.0 hrs
C check *	4,000 hours	25,995.5 hrs 01 Jan, 2011	29,995.5 hrs	4,000.0 hrs
2C check	8,000 hours	25,995.5 hrs 01 Jan, 2011	33,995.5 hrs	8,000.0 hrs
4C check	16,000 hours	25,995.5 hrs 01 Jan, 2011	41,995.5 hrs	16,000.0 hrs
S7	20,000 cycles	18 Dec, 1998	35,889 cyc	11,145 cyc
S8	24,000 cycles	08 Mar, 2002	46,675 cyc	21,931 cyc
S9	32,000 cycles	N/A	32,000 cyc	7,256 cyc

**Aircraft is currently in maintenance with open inspection items that can be closed according to a mutually agreed schedule.**

\* MRB mandates that C checks be performed on low utilization aircraft at the lesser of 24 months or 4000 flight cycles, whichever may occur first. A low utilization aircraft is one that operates at 500FC - 2000 FC per year.

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<sup>2</sup> Current as of 01 January, 2011.

**Overhaul on landing gear by position<sup>3</sup>:**

Overhaul interval: 16,500 cycles

<b>Position</b>	<b>Serial #</b>	<b>Cycles since overhaul</b>	<b>Cycles remaining</b>
Nose gear	243	10,727 cycles	5,773 cycles
Left main	36	8,286 cycles	8,214 cycles
Right main	69	8,286 cycles	8,214 cycles

**Installed Propellers: Hamilton Standard 14RF-9**

Overhaul interval: 9,500 hours

<b>Item</b>	<b>Serial Number</b>	<b>Time since overhaul</b>	<b>Time remaining</b>
Left Prop Hub	870911/445	2,242.3 hrs	7,257.7 hrs
Left Prop Actuator	881009	4,881.9 hrs	4,618.1 hrs
Right Prop Hub	814721-2/1942	7,807.9 hrs	1,692.1 hrs
Right Prop Actuator	901247	8,431.4 hrs	1,068.6 hrs
Left 1 Prop Blade	875427	3,400.8 hrs	6,099.2 hrs
Left 2 Prop Blade	875431	4,160.0 hrs	5,340.0 hrs
Left 3 Prop Blade	867999	1 hrs	9,499.0 hrs
Left 4 Prop Blade	854771	6,295.8 hrs	3,204.2 hrs
Right 1 Prop Blade	853362	2,459.6 hrs	7,040.4 hrs
Right 2 Prop Blade	859243	5,060.5 hrs	4,439.5 hrs
Right 3 Prop Blade	887762	7,215.9 hrs	2,284.1 hrs
Right 4 Prop Blade	886162	6,065.0 hrs	3,435.0 hrs

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<sup>3</sup> Current as of 01 January, 2011.

### Installed Engines:<sup>4</sup>

Item	Turbo machine 115503	RGB 115503	Turbo machine 115514	RGB 115514
Manufacturer	Pratt & Whitney Canada	Pratt & Whitney Canada	Pratt & Whitney Canada	Pratt & Whitney Canada
Model	PW118	PW118	PW118	PW118
Current location	N268AS / #2	N268AS / #2	N500AS / #2	N500AS / #2
Total hours since new	27,883.8	27,883.8	27,126.3	27,126.3
Total cycles since new	27,984	27,984	26,245	26,245
Time since overhaul <sup>5</sup>	4487.6	4487.6	9,180.2	9,180.2
Time since hot section <sup>6</sup>	4487.6	NA	2,047.6	NA

<sup>4</sup> Current as of 01 January, 2011.

<sup>5</sup> Engine overhaul performed on condition.

<sup>6</sup> Engine Hot Section Inspection performed at 6,000 hours.

## Engine Life Limited Parts

### Engine Serial Number 115503

Description	Part Number	Serial Number	Cycles Accum	Cycles Remaining	Cycle Life
1ST PT DISK	3038613	19A064	27996	2004	30000
2ND PT DISK	3033914	27A037	27996	2004	30000
HP DISK	3045591	A000P6K9	4569	10431	15000
HP FRT COVER	3049049	A000PL66	4569	10431	15000
HP IMPELLER	3043243	A000H566	4569	25431	30000
HP REAR COVER	3041486	A000NY1T	4569	10431	15000
INTER AIR SEAL	3041474	35W758	4569	10431	15000
LP DISK	3036212	28A878	27996	2004	30000
LP IMPELLER	3040689	A000LRR0	4569	20431	25000

### Engine Serial Number 115514

Description	Part Number	Serial Number	Cycles Accum	Cycles Remaining	Cycle Life
1ST PT DISK	3038613	29A832	26058	3942	30000
2ND PT DISK	3033914	24A238	26058	3942	30000
HP DISK	3045591	A000X11X	1803	13197	15000
HP FRONT COVER	3049049-01	A0013M0K	1803	13197	15000
HP IMPELLER	3036065	9D083	26058	3942	30000
HP REAR COVER	3041486	A0010AT9	1803	13197	15000
INT AIR SEAL	3041474	76B848	1803	13197	15000
LP DISK	3036212	A0001DEF	8778	21222	30000
LP IMPELLER	3035569	9D755	23152	1848	25000

**Avionics:**

<b>Description</b>	<b>Manufacturer</b>	<b>Part Number</b>
Digital Flight Data Acquisition Unit (DFDAU)	Teledyne	2231266-4-A
Autopilot	Shop/Emb	120-39864-001
Air Data Computer	Collins	622-5797-001
VHF Comm	Collins	622-6520-003
VHF Comm	Collins	622-6520-003
VHF Nav	Collins	622-6152-001
VHF Nav	Collins	622-6152-001
DME	Collins	622-6263-001
ADF	Collins	622-6522-001
Transponder	Collins	622-1270-001
Transponder	Collins	622-1270-001
GPWS/Windshear	Precision Ele.	965-0686-001
TCAS	BF Goodrich	805-10001-004
VOR	Aviall	DMN4-17-IN
Cockpit Voice Recorder (CVR)	Delta	93-A100-83
Flight Data Recorder (FDR)	Precision El.	17M800-261