



AIRCRAFT SPECIFICATIONS

MODEL:	B727-223 ADV	MAX. TAXI WEIGHT:	178,500 lbs
MANUFACTURER:	Boeing Aircraft Company	MAX. GROSS TAKE-OFF WT.:	178,000 lbs
SERIAL NUMBER:	21086	MAX. LANDING WEIGHT:	154,500 lbs
LINE NUMBER:	1248	MAX. ZERO FUEL WEIGHT:	138,000 lbs
REG. NUMBER:	N859AA	MFGRS. EMPTY WEIGHT:	----- lbs
DATE OF MANUFACTURE:	February 15, 1977	OPERATORS WEIGHT EMPTY:	101,900 lbs
CURRENT OPERATOR:	American Airlines	PAYLOAD:	36,100 lbs

AIRFRAME STATUS

TIME AS OF:	August 31, 2001	MTX. PROGRAM:	American's Mtx. Program:
TOTAL AIRFRAME HOURS:	68,147	"A" check @ 65 hour intervals; "B" check @ 475 hour intervals;	
TOTAL AIRFRAME CYCLES:	42,313	"C" check @ 3,000 hour intervals; Heavy "C" check @ 14,000	
TIME SINCE "HC" CHECK:	12,342 hours	hour intervals; Landing gear overhaul @ 28,000 hour / 3,650 day	
TIME SINCE "C" CHECK:	2,176 hours	intervals.	
MOD. STATUS:	FAR Part 121 Compliant – FAR Part 36 Stage III Compliant		
LANDING GEAR TSO:	Nose / RH = 12,342 hrs / 12-9-96; LH = 12,342 hrs / 12-10-96		

ENGINE STATUS

ENGINE TYPE:		JT8D-9A		ENGINE MANUFACTURER:		Pratt & Whitney		
ENGINE MTX. PROGRAM:		On Condition with Pratt & Whitney Life Limits						
POS.	SERIAL NUMBER	TOTAL TIME	TOTAL CYCLES	TSLSV HOURS	CYCLES	FIRST LIMIT	REMAINING TO DISC: HOURS	CYCLES
1	665457*	76,654	50,151	<i>Engine is currently in the shop due to time expiration.</i>				
2	665177	76,759	49,544	8,380	4,438	934 hours	934/C9	2,712/T1
3	666268	51,609	31,574	6,316	3,242	1,733 hours	1,733/T1	2,615/T2

***NOTE:** ESN 665457 is not currently installed on this aircraft. Refer to the Engine Data section of this report for details. Engine times are current as of August 29, 2001.

GENERAL DATA

FUEL CAPACITY:	52,700 POUNDS @ 6.7	INTERIOR:	Passenger Configuration: 12 first class and 126
	7,866 U.S. GALLONS		economy class seats; 4 galley units (1 forward and 3 aft);
FUEL SYSTEM:	Standard		3 lavatories (1 forward and 2 aft).



**PHYSICAL SURVEY REPORT
AMERICAN AIRLINES
B727-223 ADV
REG. N859AA S/N 21086**

AVIONICS INVENTORY

<u>Nomenclature</u>	<u>Manufacturer</u>	<u>Model / Part No.</u>
Weather Radar	Bendix	RDR-1F
ILS Compass Rack, No. 1 & 2	Sperry	614937-101
Steering Computer, No. 1 & 2	Collins	562A-5F
Instrument Amplifier, No. 1 & 2	Collins	344C-1B
Flight Instrument Accessory Unit	Boeing	65-60214-106
Comparator Warning Monitor	Collins	54W-1
VHF Nav., No. 1 & 2	Collins	51RV-1
Global Positioning System	Trimble	HT9100
Upper Yaw Damper	Sperry	4030952-901
Lower Yaw Damper	Sperry	4030952-901
Air Data Computer, No. 1	Honeywell	HG480B13
Air Data Computer, No. 2	Honeywell	ABB4321
Battery Charger	Eldec	2-301
Pitch Control Channel A	Sperry	2585804-9
Roll Control Channel	Sperry	4030951-901
Auto Pilot Accessory Unit	Boeing	65-24917-42
Performance Data Computer	Lear Siegler	163356-85-01
Static Inverter	Bendix	39B168-1-B
Battery	Saft	016833000
Anti-Skid	Crane	Mark II
Cabin Temperature Controller	Garrett	54A376-4
Fire / Overheat Detect Accessory Unit	Boeing	65-24920-3
Left Window Heat Controller, No. 1 & 2	Pacific Electro	231-2
Right Window Heat Controller, No. 1 & 2	Pacific Electro	231-2
Landing Gear Accessory Unit	Boeing	65-60211-32
Marker Beacon	Collins	51Z-4
ATC Mode S Transponder, No. 1	Bendix / King	TRA-67A
ATC Mode C Transponder, No. 2	King	KXP7500
DME, No. 1 & 2	Collins	860E-4
Maintenance Cargo Fire Unit	Simmonds Precision	301A5-0102

AVIONICS INVENTORY

continued

<u>Nomenclature</u>	<u>Manufacturer</u>	<u>Model / Part No.</u>
VHF Comm., No. 1	Collins	618M-3
VHF Comm., No. 2	King	KTR9100A
Selcal	Motorola	NA136
Passenger Address Amplifier	Gables	G-947B
Audio Accessory Unit	Boeing	65-52804-13
Radio Altimeter	Collins	860F-1
P.A. Accessory Unit	Boeing	65-26200-9
GPWS / Windshear	Sundstrand	Mark VII
RFU	Claircom	1013893-0001
Power Supply Unit	Claircom	1013487-0001
Base Band Unit	Claircom	1013973-0002
ACAS II Processor (Enhanced)	Honeywell	TPA-81A
Vertical Gyro, No. 1 & 2	Bendix	19917-2C
Directional Gyro, No. 1 & 2	Sperry	2588302-4
Voltage Regulator, No. 1-3	Westinghouse	905D977-4
Load Control, No. 1-3	Sundstrand	700662A
Generator Control Panel, No. 1-3	Westinghouse	902F242-5
Transformer Rectifier, No. 1-3	Eldec	2-299
Bus Protection Panel	Westinghouse	902F283-2
APU Voltage Regulator	Westinghouse	905D977-4
APU Generator Control Panel	Westinghouse	902F242-5
Digital Flight Data Recorder	Allied Signal	980-4120-RXUS
Cockpit Voice Recorder	Fairchild	A100

The following units were removed at the time of our inspection:

ACARS Optional Auxiliary Terminal

ADF, No. 1

GFMS, No. 2

Auto-Throttle Computer



**JT8D-9A
LIFE LIMITED PART SUMMARY
S/N 665457**

Total Engine Hours:	76654	TSLSV:	8473 * See note
Total Engine Cycles:	50151	CSLSV:	4435 * See note
As of:	8/29/2001		

Stage	Part Number	Serial Number	Total Hours	Total Cycles	Hour Limit	Cycle Limit	Hours Remaining	Cycles Remaining
Low Pressure Compressor								
C1 DISC	817401	B111AA0226	21638	10944	N/A	20000	N/A	9056
C2 DISC	745902	BBDUAN4465	8563	4486	16000	19000	7437	14514
C3 DISC	799773	R39253	29966	17504	30000	20000	34	2496
C4 DISC	799504	R23942	29966	17504	30000	20000	34	2496
C5 DISC	713105	R47904	27217	15425	30000	20000	2783	4575
C6 DISC	745706	R53266	27665	15777	30000	20000	2335	4223
High Pressure Compressor								
C7 DISC	774407	R57601	29966	17504	30000	20000	34	2496
C8 DISC	748608	R46508	29966	17504	30000	20000	34	2496
C9 DISC	701509	NENCAH2427	8473	4435	30000	20000	21527	15565
C10 DISC	772510	AH3998	18172	9651	30000	20000	11828	10349
C11 DISC	772511	R45914	29966	17504	30000	20000	34	2496
C12 DISC	798512	BENCAN1645	8563	4486	30000	20000	21437	15514
C13 DISC	5003613-01	R47842	29966	17504	30000	20000	34	2496
High Pressure Turbine								
T1 DISC	587501	P68493	29290	18003	30000	20000	710	1997
Low Pressure Turbine								
T2 DISC	802522	R90586	8563	4486	30000	16000	21437	11514
T3 DISC	618703	BLDLBW9152	8563	4486	30000	16000	21437	11514
T4 DISC	769104	BLDLBX9313	8563	4486	30000	20000	21437	15514

First Hour Limit - 34 C3, C4, C7, C8, C11, C13 DISCS
 First Cycle Limit - 1997 T1 DISC

Note: This engine was removed on August 29, 2001 from the number 3 position on American Airlines aircraft number 720 and is currently in the shop due to time expiration. As reported by American Airlines, AD 98-12-07 (SB 6038) is next due on July 10, 2004, or at next access, if high utilization.

Information provided by American indicates all discs listed above in bold are to be replaced during the shop visit. Engine build level to be 4,400 hours / 2,200 cycles. Refer to the attached Engine Bill of Work provided by American for additional details.



JT8D-9A
LIFE LIMITED PART SUMMARY
S/N 665177

Total Engine Hours:	76759	TLSV:	8380
Total Engine Cycles:	49544	CSV:	4438
As of:	8/29/2001		

Stage	Part Number	Serial Number	Total Hours	Total Cycles	Hour Limit	Cycle Limit	Hours Remaining	Cycles Remaining
Low Pressure Compressor								
C1 DISC	848001	BBDUAT8927	8380	4438	N/A	20000	N/A	15562
C2 DISC	745902	BBDUAK7474	12754	6551	16000	19000	3246	12449
C3 DISC	799773	R25668	27828	15717	30000	20000	2172	4283
C4 DISC	799504	R23680	27828	15717	30000	20000	2172	4283
C5 DISC	713105	R31794	23859	12669	30000	20000	6141	7331
C6 DISC	745706	R08348	24497	13167	30000	20000	5503	6833
High Pressure Compressor								
C7 DISC	774407	R37442	27475	15811	30000	20000	2525	4189
C8 DISC	748608	R73380	25388	14695	30000	20000	4612	5305
C9 DISC	701509	P97647	29066	17212	30000	20000	934	2788
C10 DISC	772510	R46023	26006	15611	30000	20000	3994	4389
C11 DISC	772511	T22285	19775	10895	30000	20000	10225	9105
C12 DISC	798512	T43176	20874	11736	30000	20000	9126	8264
C13 DISC	5003613-01	R49737	27828	15717	30000	20000	2172	4283
High Pressure Turbine								
T1 DISC	587501	R31610	28696	17288	30000	20000	1304	2712
Low Pressure Turbine								
T2 DISC	802522	R01360	18688	10343	30000	16000	11312	5657
T3 DISC	618703	BLDLBY5475	8380	4438	30000	16000	21620	11562
T4 DISC	769104	BLDLCB2040	8380	4438	30000	20000	21620	15562

First Hour Limit - 934 C9 DISC
First Cycle Limit - 2712 T1 DISC

Note: This engine is currently installed in the number 2 position on aircraft registration number N859AA. As reported by American Airlines, AD 98-12-07 (SB 6038) is next due on March 21, 2005, or at next access, if high utilization.



JT8D-9A
LIFE LIMITED PART SUMMARY
S/N 666268

Total Engine Hours:	51609	TSLSV:	6316
Total Engine Cycles:	31574	CSLSV:	3242
As of:	8/29/2001		

Stage	Part Number	Serial Number	Total Hours	Total Cycles	Hour Limit	Cycle Limit	Hours Remaining	Cycles Remaining
Low Pressure Compressor								
C1 DISC	848001	BBDUAN4692	10525	5394	N/A	20000	N/A	14606
C2 DISC	745902	BBDUAN4388	10326	5307	16000	19000	5674	13693
C3 DISC	799773	AJ2762	14027	7474	30000	20000	15973	12526
C4 DISC	799504	S07081	21496	11940	30000	20000	8504	8060
C5 DISC	713105	S09683	19475	10573	30000	20000	10525	9427
C6 DISC	745706	T41302	15207	8094	30000	20000	14793	11906
High Pressure Compressor								
C7 DISC	774407	S36711	21496	11940	30000	20000	8504	8060
C8 DISC	748608	R73092	20235	11608	30000	20000	9765	8392
C9 DISC	815609	BENCAP8513	6316	3242	30000	20000	23684	16758
C10 DISC	815610	BENCAP6822	6316	3242	30000	20000	23684	16758
C11 DISC	815611	BENCAP1443	6316	3242	30000	20000	23684	16758
C12 DISC	815612	BENCAP6068	6316	3242	30000	20000	23684	16758
C13 DISC	5003613-01	P93691	25328	15408	30000	20000	4672	4592
High Pressure Turbine								
T1 DISC	587501	R71857	28267	16444	30000	20000	1733	3556
Low Pressure Turbine								
T2 DISC	802522	R01597	23711	13385	30000	16000	6289	2615
T3 DISC	618703	P37651	18279	10076	30000	16000	11721	5924
T4 DISC	769104	S10247	23711	13385	30000	20000	6289	6615

First Hour Limit - 1733 T1 DISC
First Cycle Limit - 2615 T2 DISC

Note: This engine is currently installed in the number 3 position on aircraft registration number N859AA. As reported by American Airlines, AD 98-12-07 (SB 6038) is next due on October 31, 2005, or at next access, if high utilization.