

PRELIMINARY REVISION PACKET. SUBJECT TO CHANGE WITHOUT NOTICE.

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**Instructions:** The attached pages contain replacement information. Insert the attached pages into the appropriate place. Do not discard current manual sheet (back-up page information is not supplied with this packet). All changes contained in this preliminary packet will be in the released revision.

REV	REWORK NUMBER	ECO/FCO NUMBER	DESCRIPTION	PAGES AFFECTED
01		ECO 00006	Create documentation for new unit BJ7B2Y.	xiv,1-24, 3-13,3-21,
		ECO 60422A	Write Protect polarity.	3-27
02		ECO 00016	Document release - BJ9E8A	vii,xiv,1-3, 1-32.1
03	4063	ECO 00057	Correct I/O lines on drives w/o Write Protect	3-27

## PREFACE

This manual has been prepared for customer engineers and other technical personnel directly involved with maintaining the Storage Module Drives (SMD) shown in the configuration chart, and provides the information needed to order field replaceable parts for the BJ7xx/SMD. <sup>BJ9xx</sup>

Parts data information is provided for more than one type of SMD and the Configuration Table on page ix gives specific information for each equipment/feature.

Information in this manual has been divided into four sections:

Section 1 - Acoustic Cabinet Option

Section 2 - Non-Acoustic Cabinet Option

Section 3 - Electronic Package

Section 4 - Engineering Recommended Spare Parts List

Manuals applicable to the BJ7xx/SMD are as follows: <sup>BJ9xx</sup>

<u>Publication No.</u>	<u>Title</u>
83308500	Hardware Reference
83308400	Hardware Maintenance, Vol. 1

A guide for the Disk Drive Operator Publication number 83323770, is also available. The guide may be ordered through Literature Distribution Services at the following address:

Control Data Corporation  
Literature Distribution Services  
308 North Dale St.  
St. Paul, MN 55103

The information in this manual is provided by assembly illustrations and parts lists. The parts shown on the illustration are numbered and correspond to the index numbers on the parts list. The first illustrations in Sections 1 and 2 show the complete SMD. Subsequent illustrations break the unit down into its component parts and assemblies.

The parts lists associated with each illustration are organized in four columns:

- The Index Number column cross references the applicable entry to the associated illustration. When more than one entry is given for a particular index number, the use of those parts is defined in the Notes column.
- The Part Number column provides the eight digit number by which a part may be ordered. In some cases the last two digits (referred to as Tab numbers) may be shown as "xx". This situation exists when an assembly (which is not normally considered field replaceable) changes tab numbers rapidly in the course of normal factory build. If it is necessary to order an assembly which is catalogued in this manner, the actual part number can usually be found on the part number label attached to the assembly. If the actual part number cannot be determined, be sure to include on the order the series code of the machine and listing of all the change orders installed. NFR in the part number column indicates that an assembly is not field replaceable. If repair of the NFR item is necessary, refer to the maintenance section of this manual for further information. The symbol "##" in the part number column indicates that the item is a spare part and that the part number is located in the Spare Parts List in Section 4.
- The Description column gives the name and a brief description of each part and assembly. The relationship of parts and assemblies is shown within the column by means of indentation. Each indented item is part of the previously listed assembly.
- The Notes column shows differences in machine configurations. This is shown by identifying a machine configuration (50 HZ), by identifying a machine series code (S/C 10 W/ 37840), or by identifying the last two digits of the eight digit assembly part number to which the particular part applies (TAB 17). The Notes column is also used to give additional descriptive information about a part or assembly.

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# STORAGE MODULE DRIVE CONFIGURATION

EQUIP. IDENT. NUMBER	FINAL ASSY P/N	POWER		CABINET FEATURES							ELEC FEATURES						
		Hz	VOLT	ACST	NON ACST	1X	2X	DESK	RACK	CABINET	DAISY CHAIN	WRT PROT	PACK INTLK	HYST BRAKE	NRZ / MFM	PLO	VAR. SECT.
BJ7B1-H	76420061	50	220/240	X		X				X	X	X	X	X	X	X	X
BJ7B2-A	76420029	60	120	X		X					X			X	X	X	X
BJ7B2-B	76420030	50	220	X		X					X			X	X	X	X
BJ7B2-C	76420033	60	120	X		X					X			X	X	X	X
BJ7B2-D	76420034	50	220	X		X					X			X	X	X	X
BJ7B2-G	76420039	60	120	X		X					X			X	X	X	X
BJ7B2-H	76420040	50	220	X		X					X			X	X	X	X
BJ7B2-J	76420054	60	120	X		X					X			X	X	X	X
BJ7B2-K	76420055	50	220	X		X					X			X	X	X	X
BJ7B2-L	76420063	60	120	X		X					X			X	X	X	X
BJ7B2-M	76420084	50	220	X		X				X						X	
BJ7B2-N	76420064	60	120	X		X					X			X	X	X	X
BJ7B2-P	76420071	50	100	X		X				X	X			X	X	X	X
BJ7B2-R	76420078	50	220	X		X					X			X	X	X	X
BJ7B2-S	76420079	60	120	X		X					X			X	X	X	X
BJ7B2-U	76420081	60	120	X		X				X						X	
BJ7B2-V	76420086	60	120	X		X				X	X			X	X	X	X
BJ7B2-W	76420087	50	220	X		X				X	X			X	X	X	X
BJ7B4-A	76420041	60	120	X		X					X			X	X	X	X
BJ7B4-C	75420043	60	120	X			X				X			X	X	X	X
BJ7B4-E	76420044	60	120	X		X					X			X	X	X	X
BJ7B4-G	76420045	60	120	X			X				X			X	X	X	X
BJ7B5-A	76420069	60	120	X			X		X		X			X	X	X	X
BJ7B6-A	76420091	60	120	X		X				X				X	X	X	X
BJ7B2-Y	76420092	60	120	X		X					X			X	X	X	X
BJ9E8-A	8239780	60	120	X		X					X			X	X	X	X

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# INTRODUCTION

1A

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This section covers units with the LX acoustic option. Units having the LX option are:

BJ7B2A/B/C/D/G/H/J/K/L/M/N/P/R/S/U/V/W/*Q*

BJ7B1G,H

BJ7B4A/E, BJ7A2V,Y , BJ7B6A

*BJ9E8A*

*AJ02*

UNIQUE PARTS LIST FOR

BJ7B2J/K/R/4

ITEMS APPEAR ON			PART NUMBER	DESCRIPTION	APPLICATION
FIG. NO.	PAGE NO.	INDEX NO.			
1-2	1-9		47291508	TOP CASE ASSEMBLY	MOD 4
1-2	1-9		77562823	TOP CASE ASSEMBLY	MOD R MOD J/K; S/C 21 W/ 55155B; S/C 22 & ABV
1-2	1-9		47291521	TOP CASE ASSEMBLY	
1-2	1-9		47291501	TOP CASE ASSEMBLY	
1-2	1-9	19	47454803	CASE, ACOUSTIC TOP	MOD R MOD J/K; S/C 21 W/ 55155B; S/C 22 & ABV
1-2	1-9	19	47291355	CASE, ACOUSTIC TOP	
1-2	1-9	19	47291303	CASE, ACOUSTIC TOP	
1-3	1-11		77562522	REAR DOOR ASSEMBLY	MOD J/4 MOD K MOD R
1-3	1-11		77562523	REAR DOOR ASSEMBLY	
1-3	1-11		77562543	REAR DOOR ASSEMBLY	MOD J MOD K LEFT SIDE RIGHT SIDE MOD R/4 MOD R/4 LEFT SIDE RIGHT SIDE MOD R/4 MOD R/4
1-3	1-11	1	77818009	DOOR, REAR	
1-3	1-11	6	77562001	W11 CABLE ASSEMBLY	
1-3	1-11	12	94253100	FAN, VENTURI	
1-3	1-11	12	94247101	FAN, AXIAL	
1-4	1-13		77562202	SIDE PANEL ASSEMBLY	
1-4	1-13		77562203	SIDE PANEL ASSEMBLY	
1-4	1-13		77562216	SIDE PANEL ASSEMBLY (LEFT SIDE)	
1-4	1-13		77562217	SIDE PANEL ASSEMBLY (RIGHT SIDE)	
1-4	1-13	8	76429003	PANEL, SIDE	
1-4	1-13	8	76429203	PANEL, SIDE	
1-5	1-15		77562401	FRONT DOOR ASSEMBLY	
1-5	1-15		77562408	FRONT DOOR ASSEMBLY	
1-5	1-15	2	77561509	DOOR, FRONT	MOD R/4
1-6	1-17		77563031	ACOUSTICAL PACK ACCESS COVER ASSY	
1-6	1-17		77563039	ACOUSTICAL PACK ACCESS COVER ASSY	
1-6	1-17	1	83285809	COVER	

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UNIQUE PARTS LIST FOR <u>BJ9E8A</u>					
ITEMS APPEAR ON			PART NUMBER	DESCRIPTION	APPLICATION
FIG. NO.	PAGE NO.	INDEX NO.			
1-2	1-9		47291550	TOP CASE ASSEMBLY	
1-2	1-9	19	47291325	CASE, ACOUSTIC TOP	
1-3	1-11		77560174	REAR DOOR ASSEMBLY	
1-3	1-11	1	77818124	DOOR, REAR	
1-3	1-11	12	94253100	FAN-VENTURI	
1-4	1-13		77562290	SIDE PANEL ASSEMBLY	LEFT SIDE
1-4	1-13		77562291	SIDE PANEL ASSEMBLY	RIGHT SIDE
1-4	1-13	8	76429026	PANEL, SIDE	LEFT SIDE
1-4	1-13	8	76429226	PANEL, SIDE	RIGHT SIDE
1-5	1-15		77562451	FRONT DOOR ASSEMBLY	
1-5	1-15	2	77561526	DOOR, FRONT	
1-6	1-17		77563076	ACOUSTIC PACK ACCESS. <del>COVER</del>	
1-6	1-17	1	83285827	COVER ASSEMBLY	
				COVER, PACK ACCESS	

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1-32.1/1-32.2

INDEX NO.	PART NUMBER	PART DESCRIPTION	NOTES
3-3	75240201	BASE ASSEMBLY	Washed on BJ7A3N
3-3	75240217	BASE ASSEMBLY (Sheet 1 of 2)	60 Hz, 120V ALL UNITS EXCEPT BJ7A3N, S/C 37 & ABV
3-3	75240249	BASE ASSEMBLY	60 Hz, 120V BJ7A3N, S/C 37 & ABV
3-3	75240218	BASE ASSEMBLY	50 Hz, 220/240V
3-3	75240219	BASE ASSEMBLY	60 Hz, 100V
3-3	75240220	BASE ASSEMBLY	50 Hz, 100V
3-3	75240244	BASE ASSEMBLY	60 Hz, 120V
3-3	75240247	BASE ASSEMBLY	BJ7A3G, W/55154, S/C 21 & ABV
3-3	75240248	BASE ASSEMBLY	BJ7A3F, W/55154, S/C 21 & ABV
1		DECK ASSEMBLY (SEE FIGURE 3-4)	
2		POWER SUPPLY MODULE ASSEMBLY (SEE FIG. 3-12)	
3		LOGIC CHASSIS ASSEMBLY (SEE FIGURE 3-13)	
4	10125806	WASHER, SPRING LOCK, 1/4	
5	94369518	CABLE, GROUND	
6	10125919	SCREW, FLAT HEAD, 8-32 x 3/8	
6	17901516	SCREW, THREAD ROLL, 8-32 x 3/8	S/C 04 W/O PE37485 & BELOW
7	75065300	PIN, PIVOT (LOGIC CHASSIS)	S/C 04 W/ PE37485 & ABOVE
8	92033237	RING, RETAINER	
9	93564001	WASHER, NYLON	
10	##	METER, HOUR	
11	##	CIRCUIT BREAKER	
12	##	CIRCUIT BREAKER	
13	93749158	SCREW, PAN HEAD, WASHER, 6-32 x 1/4	
14	10125803	WASHER, SPRING LOCK, 6	
15	75256100	PLATE, MOUNTING	
16	10125105	NUT, 6	S/C 04 W/O PE37485 & BELOW
16	10126402	WASHER, EXTERNAL TOOTH, LOCK, 8	S/C 04 W/ PE37485 & ABOVE
17	92801010	CLAMP, CABLE	
18	75259400	POWER CABLE ASSEMBLY	60 Hz S/C 33 & BELOW
18	75168302	POWER CABLE ASSEMBLY	60 Hz S/C 34 & ABOVE
18	75259401	POWER CABLE ASSEMBLY	50 Hz S/C 30 & BELOW
18	75168300	POWER CABLE ASSEMBLY	50 Hz S/C 31 & ABOVE
19	95672701	BUMPER, MOLDED	
20	10125108	NUT, 10-32	
21	10125066	SCREW, HEXAGON HEAD, 10-32 x 1	
22	93326002	STUD, BALL	S/C 04 W/O PE37485 & BELOW
22	76424100	LATCH, KEEPER	S/C 04 W/ PE37485 & ABOVE
23	10126257	SCREW, SOCKET HEAD, 1/4-20 x 7/8	
24	93749162	SCREW, PAN HEAD, WASHER, 10-32 x 1/2	
25	10126259	SCREW, SOC. HEAD, CAP, 1/4-20 x 1/4-1	
26	75073100	SPACER, FLAT	
27	10126403	WASHER, EXTERNAL TOOTH, 10	S/C 30 & BLW 50Hz, S/C 33 & BLW 60Hz
28	75062803	WASHER, SHOULDER	
29	75062400	WASHER, INSULATOR	
30	93749086	SCREW, PAN HEAD, WASHER, 4-40	
31	94374140	TERMINAL, QUICK DISCONNECT	
32	10126106	WASHER, INTERNAL TOOTH, LOCK, 1/4	S/C 04 W/ PE37485 & ABOVE
33	94047052	WASHER, SPECIAL	
34	94281467	CABLE, GROUND	S/C 04 W/ PE37485 & ABOVE
35	10126105	WASHER, INTERNAL TOOTH, 10	
36	76416500	INSULATOR, TERMINAL	
37		NOT USED	
37		NOT USED	
38		NOT USED	
39	10127123	SCREW, PAN HEAD, 8-32 x 1/2	S/C 04 W/O PE37485 & BELOW
39	10126264	SCREW, SOCKET HEAD CAP	S/C 04 W/ PE37485 & ABOVE
40	76420600	SPACER	
41		NOT USED	
42	10125603	WASHER, PLAIN, 4	
	93826236	SCREW, FLAT HEAD, MACH., 10-21 x 5/16	
44	76426900	GASKET, TOP SHROUD	S/C 07 W/ 3768A & ABOVE

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INDEX NO.	PART NUMBER	PART DESCRIPTION	NOTES
3-4	75070434	DECK ASSEMBLY	used on B1702-Y
3-4	75070413	DECK ASSEMBLY (SHEET 1 OF 2)	60 Hz, 120V
3-4	75070436	DECK ASSEMBLY	USED ON BJ7A2Y, S/C 23 & ABV
3-4	75070414	DECK ASSEMBLY	50 Hz, 220V/240V USED ON ALL UNITS EXCEPT BJ7A2K; S/C 26 & ABV, AND BJ7A2P,V, S/C 27 & ABV, AND BJ7B2M; S/C 28 & ABOVE W/ OPTIONAL FCO 55827.
3-4	75070440	DECK ASSEMBLY	USED ON BJ7A2K, S/C 26 & ABV
3-4	75070441	DECK ASSEMBLY	USED ON BJ7A2P,V, S/C 27 & ABV, AND BJ7B2M; S/C 28 & ABOVE W/ OPTIONAL FCO 55827.
3-4	75070415	DECK ASSEMBLY	60 Hz, 100 V
3-4	75070416	DECK ASSEMBLY	50 Hz, 100 V
1	77393800	DECK	S/C 07 W/O 37655A & BLW
1	77467500	DECK	S/C 07 W/ 37655A; S/C 08 W/O 37807A
1	77825600	DECK	S/C 08 W/ 37807A & ABV
2	92541057	SCREW, SHOULDER	S/C 07 W/O 27644A & BLW
3	93847002	BEARING, FLANGED	S/C 07 W/O 37655A & BLW
4	94355501	SCREW, CAPTIVE	S/C 07 W/O 37655A & BLW
5	76418600	ARM-SUPPORT	S/C 07 W/O 37655A & BLW
6	94277406	STRAP, CABLE TIE	
7	92001708	SCREW, PAN HEAD, WASH, 10-24 x 5/8	
8	10125805	WASHER, SPRING LOCK, 10	
9	93749160	SCREW, PAN HEAD, MACHINE, 6-32 x 5/16	
10	92001705	SCREW, PAN HEAD, WASH, 6-32 x 1/2	
11	10125105	NUT, HEX, MACHINE SCREW, 6-32	
12	10126401	WASHER, EXTERNAL TOOTH, LOCK, 6	
13	94281467	CABLE, GROUND	
14	77560800	BRACKET, PIVOT	
15	10126227	SCREW, HEX SOC HEAD, CAP, 8-32 x 5/8	
16	10125806	WASHER, SPRING LOCK, 8	
17	94354902	SPRING, GAS	S/C 08 W/O 37807A & BLW
17	94354901	SPRING, GAS	S/C 08 W/ 37807A & ABV
18	73229002	STUD	
19	92033221	RETAINING RING	
20	10125713	SCREW, FLAT HEAD, CRESCENT, 6-32 x 3/8	
21	93749162	SCREW, PAN HEAD, MACHINE 6-32 x 3/8	
22	10125605	WASHER, PLAIN, 6	
23	76021200	INLET, BLOWER	S/C 16 & BLW
23	83277800	INLET, BLOWER	S/C 17 & ABV
24	94001133	TAPE, FOAM	
25	76424600	PLATE-SHROUD SEAL	
26	10125803	WASHER, SPRING LOCK, 6	
27	75062805	WASHER, SHOULDER, BLACK	S/C 07 W/ 37721 & ABV
28	94369522	CABLE, GROUND	
29	##	COMPONENT ASSEMBLY, -XPN	
30	10127112	SCREW, PAN HEAD, MACHINE, 6-32 x 5/16	
31	93114215	STANDOFF, TAPPED POST	
32	94277401	STRAP, CABLE TIE	
33	95649704	GROMMET	
34	76424700	BAFFLE, AIR	S/C 15 & BLW
34	83277900	BAFFLE, AIR	S/C 17 & ABV
35	10127122	SCREW, PAN HEAD, MACHINE, 8-32 x 3/8	
36	##	SWITCH, SOLID STATE (START TRIAC)	
37	##	COMPONENT ASSEMBLY, -ZFN	
38	94260501	BRACKET, CAPACITOR	TAB 13; 15, 16, S/C 09 W/ 48002 & ABV
38	94260502	BRACKET, CAPACITOR	TABS 14; 16, S/C 09 W/48002 & BLW
38	94260500	BRACKET, CAPACITOR	& BLW
38	94260500	BRACKET, CAPACITOR	TAB 15, S/C 09 W/O 48002&BIW
39	94260504	CAP, CAPACITOR	
40	##	CAPACITOR MOTOR	



INDEX NO.	PART NUMBER	PART DESCRIPTION	NOTES
3-4			
50	92541001	DECK ASSEMBLY (SHEET 2 Contd)	
51	75073700	SCREW, SHOULDER	
52	94205789	LOCK-BRAKE, SPINDLE	
53		NOT USED	
54	93749158	SCREW, PAN HEAD, WASHER, 6-32 x 1/4	
55		CARRIAGE AND COIL ASSEMBLY (SEE FIG. 3-10)	
56	10126235	SCREW, HEX SOCKET HEAD, CAP, 10-24 x 5/8	
57		RAIL BRACKET ASSEMBLY (SEE FIG. 3-11)	
	75244301	D.C. HARNESS ASSEMBLY, W6	S/C 21 & Below
58		NOT USED	
	76476005	HARNESS ASSEMBLY, W5	S/C 09 & BLW
	76476009	HARNESS ASSEMBLY, W5	S/C 10 - 21
	82349400	MAIN DECK HARNESS	S/C 22 & 23
	47329800	MAIN DECK HARNESS	Used on all S/C 24 & ABV except BJ7A2K,Z and BJ7B2K,R S/C 26 & ABV, and BJ7A2P, V, S/C 27 & ABV
	47329801	MAIN DECK HARNESS	Used on BJ7A2K,Z and BJ7B2K,R S/C 26 & ABV, and BJ7A2P, V S/C 27 thru 38
59	94279415	BUTTON, PLUG	S/C 09 W/ 37825A & ABV
60	51805800	BUMPER, SELF-STICKING	
61	93342098	SCREW, NYLON, 4-40	
62	93564042	WASHER, NYLON	
63	92001702	SCREW, PAN HEAD, WASHER, 6-32 x 3/8	
64	83243401	INTERLOCK ASSEMBLY	BJ7A2K/Z, BJ7B1G,H; S/C 16 & JLW
65	10125711	SCREW, FLAT HEAD, 6-32 x 3/16	
66	76422000	BRACKET, MOUNTING, INTERLOCK	
67	94237902	SOLENOID, DC	
68	10127314	SCREW, MACHINE, PAN HEAD, 2-56 x 1/2	
69	10125107	NUT, HEX, 10-24	
70	10126403	WASHER, LOCK, EXTERNAL TOOTH, 10	
71	76422100	BRACKET, PIVOT, INTERLOCK	
72	10127122	SCREW, MACHINE, PAN HEAD, 8-32 x 3/8	
73	10126402	WASHER, LOCK, EXTERNAL TOOTH, 8	
74	10125606	WASHER, FLAT, 8	
75	10127123	SCREW, MACHINE, PAN HEAD, 8-32 x 1/2	
76	76422200	BRACKET, SPRING, INTERLOCK	
77	76421901	SPACER, INTERLOCK	
78	76421700	LATCH, INTERLOCK	
79	76421900	SPACER, INTERLOCK	
80	92541005	SCREW, SHOULDER, 10-24 x 3/8 x 5/8	
81	46819300	SPRING, EXTENSION	
82	10125800	WASHER, LOCK, SPRING	
83	10125102	NUT, HEX, 2-56	
84	76420500	STOP, INTERLOCK	
	33281500	INTERLOCK ASSEMBLY	BJ7A2K/Z, BJ7B2K/R, AND BJ7B1G/H; S/C 17 & ABV. BJ7B2Y S/C 39 + ABV ONLY
35	83281400	BRACKET, MOUNTING, INTERLOCK	
36	93533079	PIN, ROLL	
37	83281300	LATCH, INTERLOCK	
38	93533117	PIN, ROLL	
39	82338100	SPRING, COMPRESSION	
40	99237902	SOLENOID, D.C.	
41	10127111	SCREW, PAN HEAD, MACH. 6-32 x 1/4	
42	10125605	WASHERS, PLAIN, 6	
43	10126401	WASHERS, EXT. TOOTH LOCK, 6	
44	82335100	DEFLECTOR, AIR	
45	10127111	SCREW, PAN HEAD, MACH. 6-32 x 1/4	S/C 24 & ABV ONLY S/C 24 & ABV ONLY
	47329803	MAIN DECK HARNESS	USED ON BJ7B1-G/H S/C 39 + ABOVE ONLY
	47329805	MAIN DECK HARNESS	USED ON ALL UNITS EXCEPT BJ7B1-G/H S/C 39 + ABOVE