

**Burroughs Corporation**



COMPUTER SYSTEMS GROUP  
SANTA BARBARA PLANT

B1800/B1700 SYSTEM/DISK.INIT  
P.S. 2212 5488 (F)

### PRODUCT SPECIFICATION

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
F	8-20-79	<i>J. Hale</i>	<p>Changes for Mark 9.0 Release</p> <p>1-1 Deleted "which runs...MCPII," from GENERAL paragraph. Replaced "not defective" with "usable" in GENERAL.</p> <p>2-1 Added "backup" to "A listing will be...sectors" to OPERATING INSTRUCTIONS. Deleted "It will be...jobs" from OPERATING INSTRUCTIONS. Added "relocated or removed sector" to "Executing the program...to backup" in OPERATING INSTRUCTIONS. Deleted "and cylinder zero:" from CI section. Added last sentences "If cylinder zero...user on MCP data)." to CI section. Changed "*" in R or RC, RI, &amp; CI sections to "(See Note 1)".</p> <p>2-2 Deleted "and have... in tact." from "Note 1: These options..." sentence.</p>

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**PRODUCT SPECIFICATION**

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
E	6-7-79	<i>Male</i>	<p>Changes for Mark 8.0 Release</p> <p>1-1 Changed "A 225, 206, or 207 disk...default error conditions" sentence in INITIALIZATION STANDARDS paragraph.</p> <p>2-1 Replaced "5" with "-" in "207 Packs" in Table 1-1.</p> <p>2-1 Updated KEYBOARD CONSOLE (SPO) section with the following: Number 2. replaced by "ENTER ACTION:..." section. Number 3. deleted. Renumbered section 4 thru 8 now 3 thru 7.</p> <p>2-2 Added "Up to 14 characters" and "if an incorrect ...message that follows." to number 6. Deleted ending sentence "The REMOVE option..." from REMOVE OPTION section.</p> <p>2-3 Deleted ending sentence "This option must be..." from LIMIT SPECIFIER OPTION section. Added "(I, RI, or CI only)" to MARGINAL SECTORS OPTION title. Added ending sentence "When using this...are being initialized." to MARGINAL SECTORS OPTION section. Added "to add initialization...CI only)" to first paragraph in DOLLAR-SIGN OPTION section. Deleted "Note:...verification has occurred." from DOLLAR-SIGN OPTION section. Added "(I, RI, or CI only)" after "The Initialization pattern" in second paragraph of DOLLAR-SIGN OPTION section. Added "This entry will be..." as ending sentence in fourth paragraph of DOLLAR-SIGN OPTION section. Added "This entry will be..." as ending sentence in fifth paragraph of DOLLAR-SIGN OPTION section.</p> <p>2-4 Added "8. ENTER CYLINDER This display...at this time." section. Revised SPECIFICATION CARD FORMAT section "Initialization:" thru "CYLINDER INITIALIZE" and "The &lt;drive&gt; entry...processed DP &lt;?&gt;." Deleted "The "v" entry...@6363@ (see example 1)."</p>



**PRODUCT SPECIFICATION**

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
			<p>Changes for Mark 8.0 Release (Cont)</p> <p>2-5 Added "(I, RI, or CI only)" after MARGINAL SECTOR CARD title. Added ending sentence "When using this..." to MARGINAL SECTOR CARD section.</p> <p>2-6 Added CYLINDER CARD (CI or CV only) section.</p> <p>2-7 Revised "207 disk" in DEFAULT INITIALIZE/VERIFY PROCEDURES section.</p> <p>3-2 Changed #5. "DPC R U" to "DPC RC U". Changed "NORMAL I/V operation" list in SPO section.</p> <p>3-3 In "Normal verification only operation" section changed MSG:SYSTEM/DISK.INIT "VERIFICATION ONLY..." to "ENTER VERIFICATION...". Also in same section Changed RSP: "AXYES" to "AXV". In "Normal reconfiguration operation" section changed MSG:SYSTEM/DISK.INIT "VERIFICATION ONLY..." to "ENTER ACTION...". Changed RSP:"AXNO" to "AXRC". Deleted MSG:SYSTEM/DISK.INIT...DPC IS INIT AS: to RSP: job-number AXS.</p> <p>4-1 Changed "This is a safety...correct one." to "This is a safety...correct one for initialization only." in ERROR MESSAGES section #6.</p> <p>4-2 Added numbers 17. thru 20. to ERROR MESSAGES section.</p>

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 P. S. 2212 5488 REV. F

TABLE OF CONTENTS

GENERAL . . . . .	1-1
INITIALIZATION STANDARDS	1-1
RELATED DOCUMENTATION . . . . .	1-1
OPERATING INSTRUCTIONS	2-1
KEYBOARD CONSOLE (SPO) . . . . .	2-1
REMOVE OPTION	2-2
LIMIT SPECIFIER OPTION . . . . .	2-3
MARGINAL SECTORS OPTION (I, RI, or CI only)	2-3
DOLLAR-SIGN OPTIONS . . . . .	2-3
CARD READER (80 OR 96 COLUMNS)	2-4
SPECIFICATION CARD FORMAT . . . . .	2-4
REMOVE OPTION CARD	2-5
LIMIT SPECIFIER CARD . . . . .	2-5
MARGINAL SECTOR CARD (I, RI, or CI only)	2-5
DOLLAR-SIGN CARD . . . . .	2-5
CYLINDER CARD (CI or CV only)	2-6
DEFAULT INITIALIZE/VERIFY PROCEDURES . . . . .	2-7
SAMPLE EXECUTE STRINGS	3-1
CARD READER . . . . .	3-1
SPO	3-2
ERROR MESSAGES . . . . .	4-1

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COMPANY CONFIDENTIAL  
 B1800/B1700 SYSTEM/DISK.INIT  
 P. S. 2212 5488 REV. F

### GENERAL

SYSTEM/DISK.INIT is designed to label, initialize and verify both packs and cartridges. Removable disk cartridges and packs must be initialized before they can be used with B1800/B1700 systems software. The program assigns addresses to the appropriate sectors, writes a random pattern in the sector data area, and reads these patterns back to insure that the sectors are usable.

### INITIALIZATION STANDARDS

If a sector on a disk cartridge is found to cause errors, the entire track in which it resides is removed from the Master Available Table. Should a sector have to be removed from among the first 64 sectors of the disk, that disk cannot be used with B1800/B1700 systems software. When a sector on a disk pack is found to cause errors, it is relocated on a spare sector. A 225, 206, or 207 disk pack is rejected and is unuseable if the number of errors detected exceeds the default limits in table 1-1. See "REMOVE" or "LIMIT" options for changing the default error conditions.

	<u>225 Packs</u>	<u>206 Packs</u>	<u>207 Packs</u>
Per cyliner	5	5	-
Per pack	2030	4070	7815

Table 1-1: Default Error Conditions

Note: 225 disk packs are limited to 20 transient errors per cylinder and 1,000 per pack. These are errors that fail during verification but not during retry.

### RELATED DOCUMENTATION

<u>Name</u>	<u>Number</u>
B1800/B1700 Software Operational Guide	1068731
B1800/B1700 MCP II	P. S. 2212 5462

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 B1800/B1700 SYSTEM/DISK.INIT  
 P. S. 2212 5488 REV. F

### OPERATING INSTRUCTIONS

The SYSTEM/DISK.INIT program operates under the control of the MCP and can be executed through either the keyboard console or the card reader. A backup listing will be produced containing the relocated or removed sectors. Executing the program with SW = 1 will produce the relocated or removed sector report on the SPO instead of sending it to backup.

#### KEYBOARD CONSOLE (SPO)

When executed from the SPO, SYSTEM/DISK.INIT responds with a set of messages followed by an ACCEPT message for each. With each valid ACCEPT, the next message in the string will appear. To stop SYSTEM/DISK.INIT, enter a blank after the first message in the string. The message string is as follows:

1. ENTER UNIT ID <DP??>
2. ENTER ACTION : <I,V,RC,RI,CI, or CV>

Response

Action

-----

I : Initialization

V : Verification only

R or RC : Reconfiguration - This purges the pack, verifies it, and changes the pack type to that specified. Packs with an interchange label also are allowed. This response will skip the message string to message number 5. (See Note 1)

RI : Reinitialization - relocates all sectors found to be bad on the previous initialize. (See Note 1)

CI : Cylinder Initialization - reinitializes only specified cylinders and relocates sectors found to be bad on the previous initialization. This can also be used to restart a previously aborted initialization within 50 cylinders of the previously aborted cylinder. If cylinder zero is initialized, the pack will be purged. A single cylinder may be initialized without purging the pack provided all sectors in the cylinder are available (ie. no user or MCP data). (See Note 1)

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

CV : Cylinder verification - Verifies only specified cylinders.

Note 1: These options can only be used for packs that have been initialized previously.

3. ENTER 6 DIGIT SERIAL NUMBER

Any decimal value except zero.

4. ENTER PACK ID

Up to 10 characters with no embedded blanks.

5. ENTER PACK TYPE - <U>, <S>, or <R>

ENTER PACK TYPE - <U>, <S>, <R>, or <I> (225 disk pack only)

U = Unrestricted

S = System

R = Restricted

I = Interchange (225 disk pack only)

6. ENTER OWNER'S NAME

Up to 14 characters

If an incorrect response is encountered, then an appropriate error message will be displayed and the response will be requested again (See ERROR MESSAGES Section).

7. ENTER OPTIONS

At this point optional parameters can be supplied as follows:

REMOVE OPTION

If REMOVE is specified (not valid for cartridge), then after the first five sectors in error have been relocated for a given cylinder, all other sectors found in error for that cylinder will be removed from the master available table. This option overrides the default rejection of a pack, if more than 5 sectors in a cylinder cause errors. When the REMOVE option is specified, the pack will be rejected only if it exceeds the default pack error limit or, optionally, a specified pack error limit set with the LIMIT option.

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 P. S. 2212 5488 REV. F

### LIMIT SPECIFIER OPTION

This option allows the user to specify the total number of errors allowed per pack, not to exceed the number of sectors contained on the disk. Limits are set through the keyword LIMIT which must precede the digit(s) that indicate the number of errors. See table 1-1 for default error conditions.

### MARGINAL SECTORS OPTION (I, RI, or CI only)

Sectors that are known to require relocation or removal can be entered at this time. More than one sector can appear in each entry, but each address must be a valid decimal address separated by spaces. When using this option during cylinder initialization, the sector address must fall within the cylinders that are being initialized.

### DOLLAR-SIGN OPTIONS

Through dollar-sign options, the user has the ability to add initialization passes (I, RI or CI only), to verify offset or compare on verification, to change the number of retries on sectors that cause errors, and to modify the number of errors before that sector is considered defective.

```
$ [Initialization-pattern] [(+ or -) or (C or CR)]
  [Number-of-retries] [Number-of-errors]
```

The Initialization-pattern (I, RI, or CI only) entry is a four digit representation of a hexadecimal pattern (0000-FFFF). If omitted for the first "\$" entry in a string, the default pattern will be 263632. For succeeding "\$" entries in a string, the default will be verify only, with relocation of bad sectors.

The "+" or "-" entry is used to change the way a disk pack can be read during verification. The "+" indicates "read offset in" and "-" indicates "read offset out". The "C" or "CR" entry is used for disk cartridges to specify compare (C) or compare and remove (CR) during verification. If this entry is omitted, normal verification will be done without offset or comparison.

The Number-of-retries entry is used to change the number of retries made on a sector if an exception is encountered. The default is ten retries. This entry will be valid during the entire process.

The Number-of-errors entry is used to change the default for the number of times a sector can fail during successive retries before that sector is considered to be a sector that causes errors. The default is one failure for pack or eight failures for cartridge. This entry will be in effect through the entire process.

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 B1800/B1700 SYSTEM/DISK.INIT  
 P. S. 2212 5488 REV. F

### 8. ENTER CYLINDER

This display is only for the CV or CI actions. One cylinder or a range of cylinders may be specified at this time.

### CARD READER (80 OR 96 COLUMNS)

The SYSTEM/DISK.INIT execute control deck has the following format:

```
?EXECUTE SYSTEM/DISK.INIT FILE SPEC NAME <SPEC FILE ID>;
?DATA <SPEC FILE ID>
(Specification cards)
?END
```

All specifications are free form (up to 96 columns) and must be separated by one or more spaces.

### SPECIFICATION CARD FORMAT

```
Initialization:    <drive> I <pack-serial-number> <pack-id>
                   <pack-type> [Owner's name]

Verification:      <drive> V

Reconfiguration:   <drive> RC <pack-type>

Reinitialization:  <drive> RI <pack-serial-number> <pack-id>
                   <pack-type> [Owner's name]

Cylinder initialize: <drive> CI <pack-serial-number> <pack-id>
                   <pack-type> [Owner's name]
```

The <drive> entry is used to specify the unit to be processed.

DP<?>

The <pack-serial-number> entry can be any decimal value except zero. The <pack-id> entry can contain up to ten characters with no embedded blanks. The <pack-type> entry can be:

```
U = Unrestricted
S = System
R = Restricted
I = Interchange (225 disk pack only)
```

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

#### REMOVE OPTION CARD

If the keyword REMOVE is specified (not valid for cartridge), then after the first five sectors in error have been relocated for a given cylinder, all other sectors found in error for that cylinder will be removed from the Master Available Table. This option overrides the default rejection of a pack if more than 5 sectors in a cylinder cause errors. When the REMOVE option is specified, the pack will be rejected only if it exceeds the default pack error limit or, optionally, a specified pack error limit set with the LIMIT option. The REMOVE option must be specified prior to any marginal sector or dollar sign options when required for the standard pack initialization process.

#### LIMIT SPECIFIER CARD

This option allows the user to specify the total number of errors allowed per pack, not to exceed the number of sectors contained on the disk. Limits are set through the keyword LIMIT which must precede the digit(s) that indicate the number of errors. See table 1-1 for default error conditions. This card must be specified prior to any marginal sector or dollar sign cards for the standard pack initialization process.

#### MARGINAL SECTOR CARD (I, RI, or CI only)

This provides the initializer with information about known bad sectors. The format is the same as the Marginal Sector Option format, except that it will be entered through the card reader. When using this option during cylinder initialization, the user should ensure that the sector falls within the cylinders that are being initialized.

#### DOLLAR-SIGN CARD

The dollar-sign card allows optional patterns for initialization, the ability to verify offset or compare data, change the number of retries on error-causing sectors, and change the number of errors before that sector is considered as such. The format is the same as the Dollar-Sign Option format except that it will be on a free formatted card (See DOLLAR-SIGN OPTIONS for details).

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

CYLINDER CARD (CI or CV only)

This card is used to specify the cylinder or range of cylinders to be initialized or verified. The first entry on this card must be the letters "CYL". The first number would be the starting cylinder; the last number would be the ending cylinder. Spaces must separate each token.

Example: "CYL 1 - 10 " would initialize or verify cylinder one through cylinder ten.

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

DEFAULT INITIALIZE/VERIFY PROCEDURES

225 disk  
-----

Initialize with pattern 26DB62  
Read/Verify three passes (0, +, -)  
Write with pattern 263632  
Read/Verify three passes (0, +, -)

206 disk  
-----

Initialize with pattern 263632  
Read/Verify three passes (0, +, -)  
Write with pattern 29C9C2  
Read/Verify three passes (0, +, -)

207 disk  
-----

Initialize with pattern 200002  
Write with pattern 26DB2  
Read/Verify three passes (+, -, 0)  
Write with pattern 2DB62  
Read/Verify three passes (+, -, 0)  
Write with pattern 2B602  
Read/Verify three passes (+, -, 0)

Note: (0,+,-) indicate verify at normal position (0), offset in (+) and offset out (-). For 207, offset is considered threshold.

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 B1800/B1700 SYSTEM/DISK.INIT  
 P. S. 2212 5488 REV. F

SAMPLE EXECUTE STRINGS

CARD READER

1. Normal I/V operations for disk pack:

DPA 091543 USERABC U JOHN DOE

This will initialize and verify the disk pack on DPA with the default INITIALIZE/VERIFY procedure.

Any sector found to cause errors during a verification pass will be relocated or removed.

The pack label will contain:

Pack ID = USERABC  
 Serial Number = 091543  
 Type = Unrestricted  
 Julian Date = The system date  
 Owner's ID = JOHN DOE

2. Normal I/V operation for disk cartridge:

DCA 084673 ABC U J. B. JONES

This card will initialize a disk cartridge with a 263632 pattern and verify it on DCA with a label of:

Pack ID = ABC  
 Serial Number = 084673  
 Type = Unrestricted  
 Owner's ID = J. B. JONES

3. Specification cards for disk cartridge:

DCD 123456 ABC S  
 7486  
 \$ C

This set of cards will initialize and verify DCD as a system cartridge with a Cartridge ID of ABC and a serial number of 123456. It will also remove the track containing sector 7486 and will then compare data during verification.

4. Specification cards for disk pack:

DPC 797601 XYZ U  
 98385 18877 29765  
 479665  
 \$ FFFF  
 \$ +

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 B1800/B1700 SYSTEM/DISK.INIT  
 P. S. 2212 5488 REV. F

This set of cards will initialize DPC with the default I/V procedures, then initialize DPC with an initialization pattern of 2FFFF2, verify one pass without offset, and one pass with offset in(+). It will also relocate address 98385, 18877, 29765 and 479665.

5. Specification cards for reconfiguration:

DPC RC U

This specification purges the disk pack on DPC, verifies with a single pass, then relabels the disk as an unrestricted pack.

SPQ

Normal I/V operation

MSG: SYSTEM/DISK.INIT = <job-number>ENTER UNIT ID <DC? or DP?>  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AX DPB  
 MSG: SYSTEM/DISK.INIT = <job-number>ENTER ACTION :  
 <I,V,RC,RI,CI, or CV>  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AX I  
 MSG: SYSTEM/DISK.INIT = <job-number>ENTER 6 DIGIT SERIAL NUMBER  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AX 179846  
 MSG: SYSTEM/DISK.INIT = <job-number>ENTER PACK ID  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AXABC  
 MSG: SYSTEM/DISK.INIT = <job-number>ENTER PACK TYPE<U, S, OR R>  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AXU  
 MSG: SYSTEM/DISK.INIT = <job-number>ENTER OWNER'S ID  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AXS.B.GARVEY  
 MSG: SYSTEM/DISK.INIT = <job-number>ENTER OPTIONS  
 MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
 RSP: <job-number>AX

These responses will initialize and verify, with the standard default I/V process, disk pack "B" with the label information of:

Pack-id = ABC  
 Serial Number = 179846  
 Type = Unrestricted  
 Julian Date = The system date  
 Owner's ID = S.B.GARVEY

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

Normal verification only operation:

MSG: SYSTEM/DISK.INIT = <job-number>ENTER UNIT ID <DC? OR DP?>  
MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
RSP: <job-number>AXDCC  
MSG: SYSTEM/DISK.INIT = <job-number>  
ENTER ACTION: <I, V, RC, RI, CI, or CV>  
MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
RSP: <job-number>AXV

These responses will verify the cartridge on drive "C" and report any error-causing sectors encountered.

Normal reconfiguration operation:

MSG: SYSTEM/DISK.INIT = <job-number>ENTER UNIT ID <DC? OR DP?>  
MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
RSP: <job-number>AXDPC  
MSG: SYSTEM/DISK.INIT = <job-number>  
ENTER ACTION: <I, V, RC, RI, CI, or CV>  
MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
RSP: <job-number>AXRC  
MSG: SYSTEM/DISK.INIT = <job-number>ENTER PACK.TYPE - <U, S, OR R>  
MSG: SYSTEM/DISK.INIT = <job-number>ACCEPT  
RSP: <job-number>AXS

These responses will purge the pack on DPC, verify with a single pass, and relabel the disk with a pack type of "S".

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

### ERROR MESSAGES

1. INVALID ENTRY BLANK ID
2. INVALID ENTRY <entry>
3. INVALID SERIAL NUM.
4. INVALID SECTOR NUM.
5. THE FOLLOWING SECTORS ARE IN ERROR  
AND WILL BE RELOCATED (Pack initialization only)  
AND THEIR TRACKS WILL BE REMOVED (Cartridge initialization only)
6. <unit-id> IS INIT AS:  
<pack label information>  
IS <unit-id> TO BE INITIALIZED?

This is a safety measure to insure that this disk is the correct one for initialization only. Answer yes or no.

7. WOULD YOU LIKE TO RETRY? <YES OR NO>

"YES" will retry the operation. "NO" will terminate this process.

8. DISK ERROR - RESULT = <Result status>

An error has occurred during a write or relocation.

9. MUST RESTART TO CONTINUE

10. WRITE LOCK <unit-id>

Initialization only.

11. DISK NOT READY <unit-id>

12. PACK CANNOT BE USED WITH MCP <unit-id>

One of the first 64 sectors has been removed, the Master Available Table has been filled, or the error limit of the pack has been reached.

13. PACK HAS EXCEEDED ERROR LIMIT <unit-id>

Errors have exceeded the default error conditions (see table 1-1) or the limit specified in the optional LIMIT entry.

14. ERROR CYL 0 <unit-id> <disk address>

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

15. SECTOR REMOVED <disk address>

Disk Pack Initialization only.

16. COMPARISON ERROR <disk address>

The "C" or "CR" option is on and this sector was found to be in error.

17. INVALID CYLINDER NUM.<Cylinder requested>

18. BAD LABEL OR TABLE - CANNOT <action requested>

19. SECTOR TABLE EXCEEDS LIMIT - WILL USE ONLY THE FIRST 188,940 SECTORS IN THE TABLE OF - <drive>

20. MASTER AVAILABLE TABLE HAS BEEN FILLED

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B1800/B1700 SYSTEM/DISK.INIT  
P. S. 2212 5488 REV. F

INDEX

CARD READER 3-1  
CARD READER (80 OR 96 COLUMNS) 2-4  
CYLINDER CARD (CI or CV only) 2-6  
DEFAULT INITIALIZE/VERIFY PROCEDURES 2-7  
DOLLAR-SIGN CARD 2-5  
DOLLAR-SIGN OPTIONS 2-3  
ERROR MESSAGES 4-1  
GENERAL 1-1  
INITIALIZATION STANDARDS 1-1  
KEYBOARD CONSOLE (SPO) 2-1  
LIMIT SPECIFIER CARD 2-5  
LIMIT SPECIFIER OPTION 2-3  
MARGINAL SECTOR CARD (I, RI, or CI only) 2-5  
MARGINAL SECTORS OPTION (I, RI, or CI only) 2-3  
OPERATING INSTRUCTIONS 2-1  
RELATED DOCUMENTATION 1-1  
REMOVE OPTION 2-2  
REMOVE OPTION CARD 2-5  
SAMPLE EXECUTE STRINGS 3-1  
SPECIFICATION CARD FORMAT 2-4  
SPO 3-2