PM-DC/8 Disc Controller Manual



FUNCTIONAL DESCRIPTION PM DC/8 DISC DRIVE CONTROLLER The information hereon is the property of PLESSEY MEMORIES IN-CORPORATED. Transmittal, receipt, or possession of the information does not comply, license, or imply any rights to use, sell, or manufacture from this information and no reproduction or publication of it, in whole or part, shall be made without written authorization from PLESSEY MEMORIES, INC. CODE IDENT NO. DWG NO. SIZE MA 700655 52648 SCALE REV SHEET FORM 000021

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SECTION I

FUNCTIONAL DESCRIPTION

PM DC/8 DISC CARTRIDGE DRIVE CONTROLLER

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The interface between the DC/8 Disc Drive Control and the PDP-8 * computer are via the single cycle data break feature.

Refer to the Digital Equipment* small computer handbook for a full description of the data break interface.

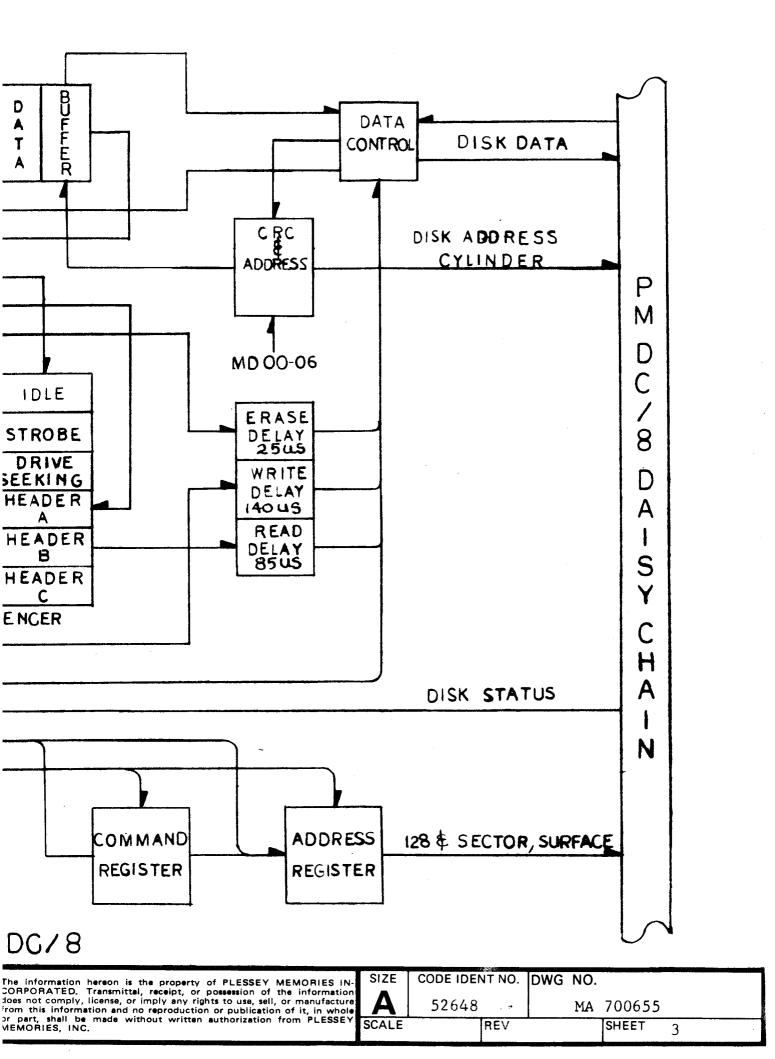
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1.0 CONTROL COMMANDS

1.1 Skip On Disc Done or Error (DSKP) 6741₈ When the conditions for transfer done are met or an error flag condition exists the instruction immediately following the DSKP will not be executed.

- 1.2 Clear All (DCLR) 6742₈ Bits 10 and 11 are decoded by the DC/8 logic to reset disc functions per the Table 1.2 and reset the accumulator to zero.
- 1.3 Load Disc Address and Execute Control Command (DLAG) 6743₈ This instruction is used in conjunction with the (DLDC) instruction to cause the disc drive to execute a seek and read or write from/to specified memory locations.

The contents of the accumulator are transferred to the disc address register to form the first 7 bits of the cylinder address and the complete 16 sector and one of 2 surfaces disc drive address. The accumulator is left cleared. The (DLAG) instruction will cause the disc drive controller to execute commands previously stored in the command register using target memory addresses specified by the current address register. The bit identification is specified in Table 1.3.

1.4 Load Current Memory Address (DLCA) 6744₈

> Execution of this instruction causes the transfer of the contents of the accumulator to the current memory address register of the disc controller, leaving the accumulator cleared. The 12 bit current address register is combined with bits 6, 7 & 8 of the disc command register (DLDC) to form a 15 bit extended memory address per Figure 1.4.

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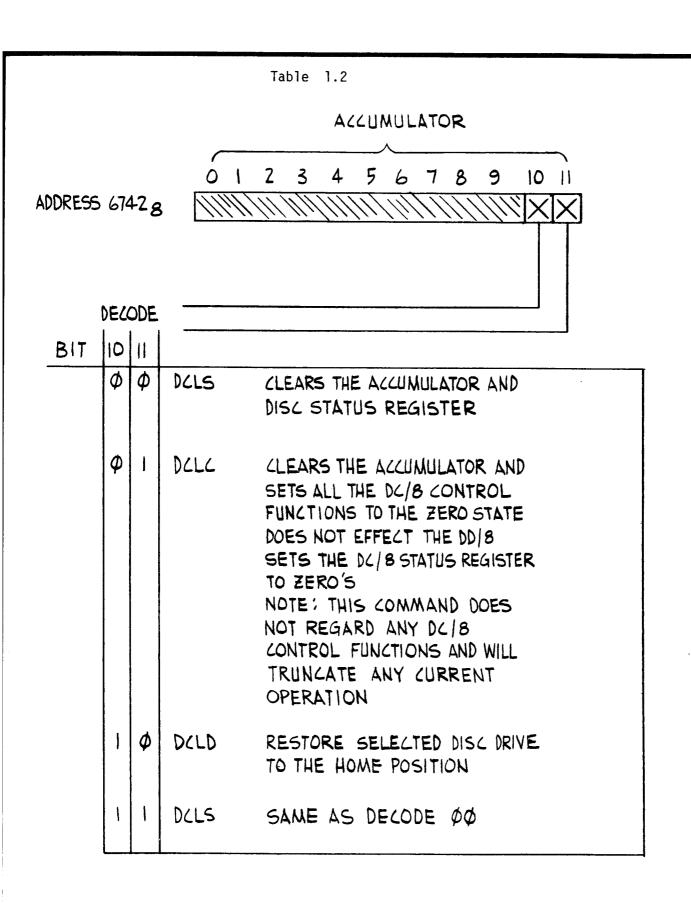
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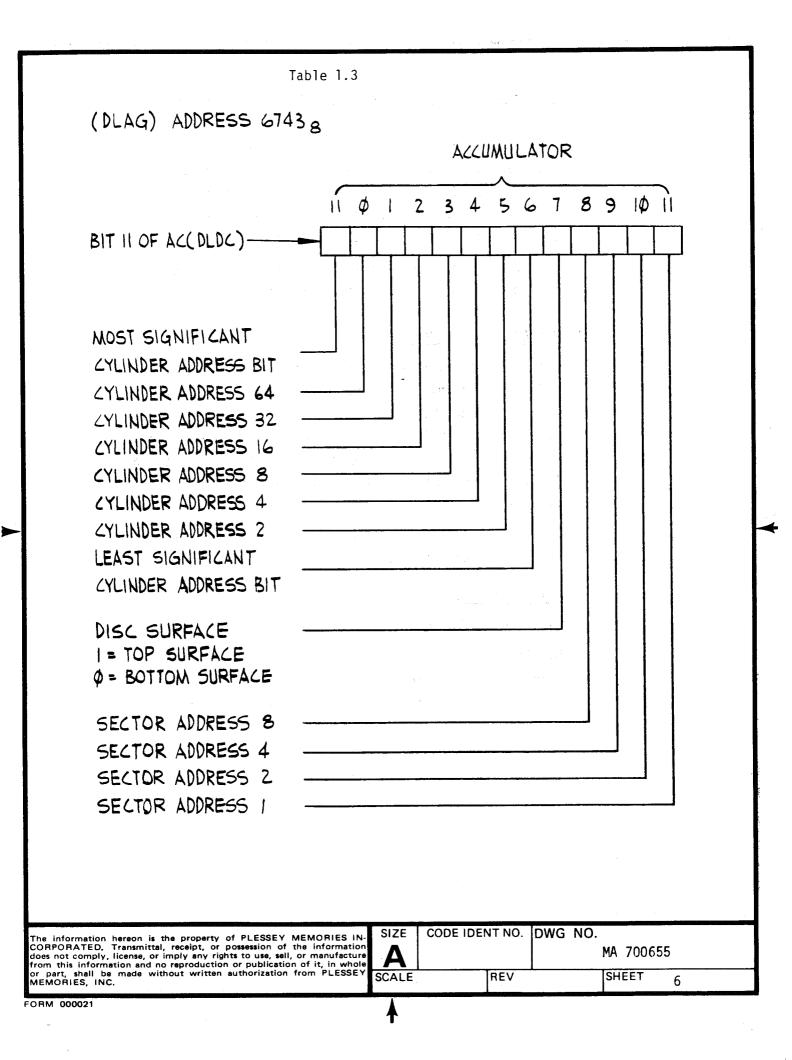
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1.4 Load Current Memory Address (DLCA) 67448 (continued)

This address is incremented once for each data transfer and asserted to the PDP8 Omnibus* during the data transfer between the DC/8 buffer storage and main memory. Address 11 thru zero are incremented module 12 fashion while EMA bits 0, 1 & 2 can be set by the program only.

1.5 Read disc status register (DRST) clear and load the AC with the contents of the disc status register.

Bit 00 Transfer Done

Bit 00 is set equal to a one in the status register for the following reasons. The controller has completed a data transfer; when the drive signals "seek complete" resulting from a seek only instruction; when the selected disc drive has completed a "restore" operation and bit 04 is set in the command register; when an error occurs during the execution of a disc operation.

If bit 03 is set in the command register bit 00 setting will cause an interrupt to occur.

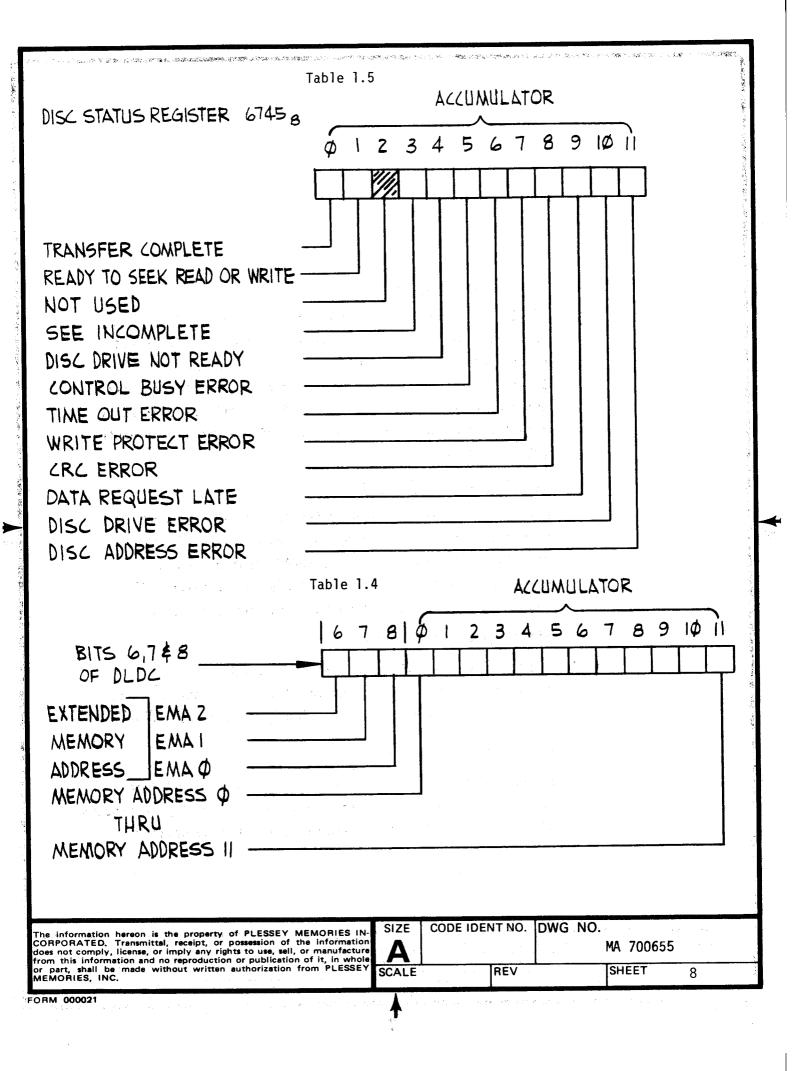
Bit 01 Transfer Done

Bit 01 Ready To Seek Read or Write

Bit 01 is set, equal to a one, when the selected disc drive carriage head positioner is in place over the selected cylinder and the drive is ready to accept another seek command or a data transfer command.

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Bit 03 Seek Incomplete

Bit 03 is set, equal to a one, when a selected disc drive fails to complete a seek cylinder command. Bit 03 is set by the seek incomplete signal from the selected disc drive. If the (DLAG) instruction is executed with bit 03 set disc drive error bit 10 will set. Bit 03 can only be cleared by a restore command (Bit 10 set 1 and bit 11 reset 0) execute (DCLR) instruction.

Bit 04 Disc Drive Not Ready

When bit 04 is set the disc drive is not ready or unable to become ready due to an operational error requiring operator intervention. If the (DLAG) instruction is executed and bit 04 is set bit 10 disc drive error will set. The clearing of bit 04 requires operator intervention.

Bit 05 Control Busy Error

Bit 05 is set, equal to one, when the DLAG, DLCA or DLDC instructions are executed and the disc drive controller is busy having not completed a previously issued instruction.

Bit 00 is reset, equal to zero.

A command overlay causing the control busy error will not be allowed to be executed and the command currently in process will be completed with transfer complete bit 00 setting.

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Bit 06 Time Out Error

Bit 06 is a control watchdog timer enabled whenever control is set busy. Control timer when enabled is allowed to count 7 revolutions of the disc media and sets time out error at the start of the eighth revolution. Control timer is reset by the Idle flip flop going true before the start of the eighth revolution. (280 milliseconds). Time Out Error sets the done interrupt if enabled. Time out error indicates a hardware fault and can be cleared by (DCLR).

Bit 07 Write Protect Error

Bit 07 is set, equal to one, when an attempt has been made to write data to a write protected disc. The write protect is cleared by manually moving the cartridge protect or fixed protect switch of the selected disc drive downward. Protected discs are indicated by the presence of write protect switch illumination.

Bit 08 CRC Error

Bit 08 is set to a one when the postamble CRC character read from the disc media does not compare with the CRC character generated by the major register board as the data field was read. CRC error forces the control to the idle state setting transfer complete and truncating any operation in process. If the CRC error was caused by a soft data error then the sector may be reread with a new read command. If the data cannot be reread successfully then the data field has a hard data error and must be rewritten. Cyclic rendundancy check polynomial = 3072 bits divided $N^{16} + N^{15} + N^2 + 1$.

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Bit 09 Data Request Late

Bit 09 is set to a one on the event that the processor does not respond to a data break request within 22.5 micro seconds indicating data overrun to the controllers 4 word data buffer. Data Request Late forces the control to the idle state setting transfer complete.

A new transfer sequence must be initiated in order to continue the transfer of data. The sector in the process of being read when Data Request Late occurred must be reread.

Computer service latency to a data break request cannot exceed 6.5 micro seconds when all the ranks of the input buffer are full, or 13 microseconds if 2 ranks are full.

Data Request Late timings are true whether the operation is a read or a write.

Bit 10 Drive Status Error

Bit 10 is set to a one when any of the following conditions exist and the (DLAG) instruction is executed.

- 1. Disc prime power off.
- 2. Address switches #1 & #2 are incorrectly set to the disc drive.
- 3. Disc cartridge not mounted or cartridge door not closed.
- 4. Disc not up to speed (Drive will not come ready even though broom cycle is completed)
- 5. Erase or write current is present without write gate.
- 6. The carriage servo mechanism has been detected inoperative.
- 7. Controller attempts to address a nonexistant cylinder (Sets transfer complete).
- 8. Seek incomplete is set.

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Bit 11 Cylinder Address Error

Bit 11 is set to a one if a header label is read that does not compare with the header information stored on the Major Registers Board. This event could have been caused by either a servo positioner error or a read error. Transfer complete is set.

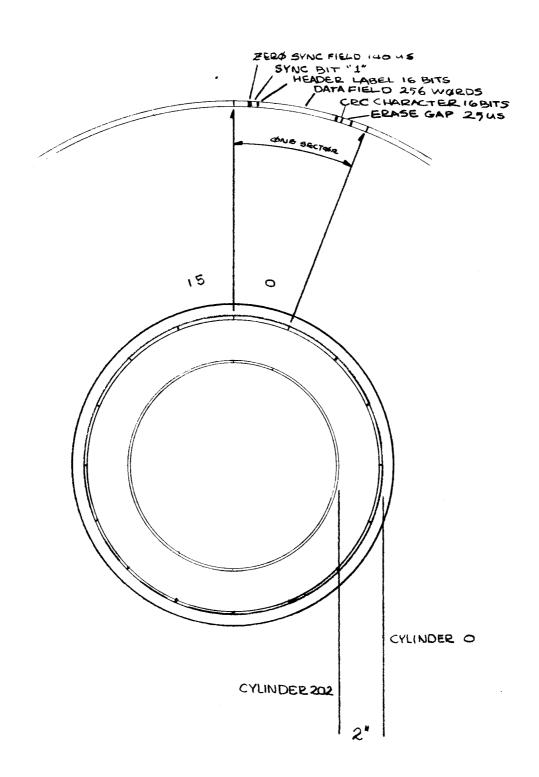
The cylinder address may be read from the CRC register using the maintenance instruction. The disc drive should be restored and a new seek issued.

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DATA FORMAT PMDC/8 - PMDD/8

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1.6 Load Disc Command Register (DLDC) 6746₈

This instruction is used in conjunction with the (DLAG) instruction to cause the disc drive to execute various control commands.

The contents of the accumulator are transferred to the disc controller command register leaving the accumulator cleared.

Actual initiations of command functions take place when the (DLAG) instruction is executed. The functional characteristic of each bit loaded to the command register is presented in the following paragraphs.

1.6.1 The settings of bits 0, 1 & 2 will determine the command function to be executed when the (DLDC) instruction is issued. These bit settings are coded 0 thru 5 in binary coded octal format to determine the particular function. See Table 1.6.1.

(00₈) Read Data: This is the command function usually used to transfer data from the disc media to the CPU. When the read command is acted upon the disc drive will seek to the physical cylinder, surface & sector address specified by the (DLDC-DLAG) instructions and compare the header information previously written with the contents of the controller registers. When a match is achieved the transfer of one block of serial data commences. 256 words for a full block 128 words if the half block bit is set. Data is deserialized and loaded to Rank 1 of the four word controller data buffer.

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1.6.1 (Continued)

Data is subsequently shifted in twelve bit parallel form there all empty ranks to Rank 4, and as data break requests are homered by the CPU the data is asserted on the Omnibus data lines. A data break request will be issued whenever a Rank of the four word data buffer is full and a data break request will be pending for all full Ranks. The CPU's ability to keep up with the data transfers from the disc is monitored by the Data Request Late flag. At the conclusion of the block transfer the CRC word is read by the control logic and compared with the CRC computed during the read operation. Transfer Done status is set and an interrupt can be activated at the conclusion of each block or nalf block read.

(018) Read All: This command is used to verify header labels written when a disc cartridge has been newly formatted. The Read All command responds to data in the same manner as the Read Data command with the exception that headers are not verified before a transfer of data can commence. This feature allows an addressing word corresponding to the header address information to be mead from the data field without regard to the information that actually exists in the header field.

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1.6.1 (Continued)

(02₈) Write Protect: The write protect command can be used to set the write protect line on disc drives that are equipped with the remote write protect feature. When so equipped, the write protect can only be over-ridden by physically pushing off the write protect switch on the write protected disc drive. See paragraph 1.5, Write Protect Error.

If an attempt is made to write to a write protected disc drive, Write Protect Error(bit 07 of the disc status register) will be set and the write will be inhibited.

(03₈) Seek Only: The seek only command is used to initiate seeks to more than one disc drive at a time; this reduces the access latency when information might be resident on more than one disc drive. When the seek only command is issued, the selected disc drive will perform the seek specified by the (DLDC, DLAG) instructions, however the address information will not be compared with the block's header information.

The Transfer Done flag will be set when the Seek Only command is executed. Bit 4 can be set to a one in the control command register to specify the Transfer Done flag to be set again when the seek complete actually takes place.

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1.6.1 (Continued)

Note: Care must be taken to avoid overlapping seeks to disc drives with unit numbers set to equal the same physical disc drive, i.e. units number 1 and number 2 usually are set to equal disc drive number 0 removable disc and fixed disc respectively. Both discs share the same carriage head positioner mechanism.

(04₈) Write Data: This is the command function usually used to transfer data from the CPU to the disc media. When the write command is acted upon. the disc drive will seek to the physical cylinder, surface, sector address previously specified by the (DLDC, DLAG) instructions and compare the header information previously written with the contents of the controller registers. When a match is achieved, the transfer of one block of serial data commences (256 words for a full block 128 words if the halfblock bit is set). Data is loaded from the Omnibus*to Rank 1 of the four word controller data buffer in 12 bit parallel format.

Data is subsequently shifted in parallel format thru all empty Ranks to Rank 4 where serialization takes place. From Rank 4, data is shifted out serially thru double frequency, crystal controlled clocking logic to the disc drive.

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1.6.1 (Continued)

Data is captured from the CPU as single cycle data break requests are honored. A Data Break Request will be issued whenever a Rank of the four word data buffer is empty and a Data Break Request will be pending for all empty ranks.

The CPU's capability to maintain data flow is monitored by the Data Request Late flag. At the conclusion of the data transfer a cyclic redundancy check character of the full data block is recorded.

 (05_8) Write All: This command is used to format a new disc cartridge prior to actual usage in a computing system. The Write All responds to data in the same manner as the write data command with the exception that headers are not verified before a transfer of data can commence. This feature allows an addressing word corresponding to the header address information to be written to the sector data field without regard to the information that actually exists in the header field.

To format a new disc cartridge, all that is necessary is for the program to address each and every sector of the disc, writting one word each time. The controller will then take responsibility to write the header information that was physically used to access the disc and the program can write its own header verification word.

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1.6.2 Bit 03 Interrupt Enable

The disc drive controller interrupt system is armed by the setting of bit 03 equal to 1 in the DC/8 command register. With the controller interrupt armed, a program interrupt is initiated by the setting of Transfer Done or Error Flag.

1.6.3 Bit 04 Seek Complete Transfer Done

The setting of bit 04 to a 1 in the DC/8 command register will cause Transfer Done flag to occur on the completion of a seek by the selected disc drive. See seek only 1.6.1.

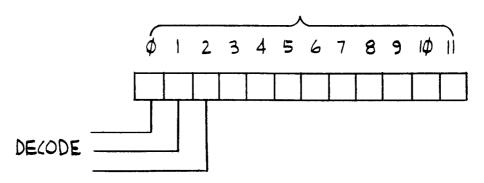
1.6.4 Bit 05 Read/Write Half Block

The setting of bit 05 (half block bit) equal to a 1 in the DC/8 command register will cause the disc system to transfer a truncated (128 word) block of data. During a write, with the half block bit set,128 words of data are transferred from main memory to the disc drive followed by 128 words of zeroes generated by the controller logic. A CRC character is written after the 128 words of zero's and Transfer Done flag is asserted. During a read with the half block bit set 128 words of data are transferred to main memory, then a pause in CPU controller activity takes place while a CRC character is calculated based on the entire 256 word record. The calculated CRC is compared to the CRC written on the disc and Transfer Done flag is asserted.

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SEEK/READ/WRITE FUNCTION BITS

ACCUMULATOR



BIT	Φ	1	2	FUNCTION
Фв	Ф	Ф	Ф	READ DATA (READ CHECK)
8	φ	Ф	•	READ ALL (IGNORE HEADER) CHECK
28	Φ	l	φ	WRITE PROTECT SELECTED DRIVE
38	ф	1	1	SEEK ONLY
48	1	Φ	Φ	WRITE DATA (WRITE CHECK)
5 ₈	1	φ	-	WRITE ALL (IGNORE HEADER) CHECK

Table 1.6.1

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1.6.5 Bits 6, 7 & 8 Select Extended Memory

The setting of bits 6, 7 & 8 in the command register determine the selection of extended memory address fields and are used as the most significant bits of a source, destination address for direct memory transfers by the disc controller. Bits 0 thru 11 of the memory address are provided by the Current Address Register. Bits 6, 7 & 8 become EMA bits, 2, 1 & 0 respectively and are asserted to the omnibus* per table 1.6.5 for each direct memory transfer.

The EMA bits are not effected by overflow from the Current Address Register and must be reset to select a new memory address field. If Current Address Register overflow occurs without the resetting of the EMA bits, the data transfer in process will exhaust its record space by wrapping around the selected memory address field.

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Table 1.6.5

COMMAND REGISTER BIT EXTENDED MEMORY BIT	Φ6 EMA2	Φ7 ΕΜΔ Ι	Ф8 ЕМА Ф	SELECTED MEMORY FIELD
	Φ	Φ	Φ	FIELD O
	Φ	Φ	1	FIELD I
	Φ	1	φ	FIELD 2
	Φ		1	FIELD 3
		φ	Φ	FIELD 4
	1	Φ	1	FIELD 5
	1	1	Φ	FIELD 6
		1	١	FIELD 7

Table 1.6.6

BIT 9	BIT IP	LOGICAL UNIT
Φ	Φ	# p
Ф	1	#
1	Φ	# 2
1	1	# 3

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1.6.6 Bits 9 & 10 UNIT SELECT

Bits 9 and 10 of the Command Register are decoded to select one of four logical disc units per Table 1.6.6.

Unit select functionally establishes the communications path between the PM-DC/8 and the PM-DD/8 disc units available and must be used when data or control information is passed. Interpretation of the unit select lines can be established by the position of the two thumbwheel switches at the rear of the disc drives, rather than re-establishing the disc drive logical position in the daisy chain. Care must be taken in the setting of the thumbwheel switches to assure that only one disc drive unit occupies a logical unit position in the chain.

1.6.7 Bit 11 Extended Cylinder Address

Bill 11 of the command register is the most significant bit of the disc cylinder address register (bit significance 128). Bit 11 is stored with the disc address to form an eight bit cylinder address selection word. See Table 1.3. The usable cylinder range is 203₁₀ or 312₈. Addresses above 203₁₀ will cause an illegal address error.

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SECTION II MAINTENANCE FEATURES

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1.7 Disc Maintenance (DMAN) 67478

The disc maintenance instruction is used to condition the DC/8 major registers such that they are linked to the fourth rank of the data buffer to be read to the accumulator or memory. The disc maintenance instruction can also be used when loading data to the DC/8 from the accumulator or memory. The (DCLC) instruction paragraph 1.2 must be used to terminate a function when changing modes from read to write or write to read. The maintenance functions are shown in Table 1.7 followed by a detailed description.

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MA 700655

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Table 1.7

BIT	FUNCTION
ΦΦ	ENABLE MAINTENANCE MODE DISABLE (DLAG)
φι	ENABLE SHIFT TO DATA BUFFER RANK 4 (DB4)
φz	SHIFT CRC TO DB4
фЗ	SHIFT COMMAND REGISTER TO DB4
Φ4	SHIFT SURFACE & SECTOR TO DB4
Φ5	SHIFT ACID TO DBI
Ø6	INITIATE SINGLE CYCLE DATA BREAK
Φ7	TRANSFER DB4 TO THE ACCUMULATOR
Φ8	NOT USED
Φ9	NOT USED
10	DATA BIT FOR MAINTENANCE DATA SHIFT
11	NOT USED

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1.7.1 Bit 00 Maintenance Mode

The maintenance mode is enabled by executing the (DMAN) instruction with accumulator bit 00 set to equal 1. The maintenance mode disables the (DLAG) instruction. The maintenance control bit is cleared by the (DCLC) clear control command.

Bit 01 Shift Enable

The execution of (DMAN) with accumulator bit 01 set equal to 1, sets Rank 4 of the 4 word data buffer to shift mode to receive maintenance data.

Bit 02 Shift CRC

The execution of (DMAN) with accumulator bit 02 set equal to 1 will cause bit 10 of the accumulator to load into bit position 01 of the CRC Register and shift the CRC Register one place into Rank 4 of the data buffer. AC10 → CRCO1 CRC 16 → DB4 (PMOO)

Twelve executions of (DMAN) with bit 02 set would fill DB4 with 12 bits of the CRC. Execution of (DMAN) with bit 07 set will transfer this value to the accumulator. To input the remaining 4 CRC bits. Shift CRC four more times and load this value from DB4 to the accumulator.

CRC Bits 4-11 contain the disc cylinder address when the CRC register is used as the Disc Address register Bits 1, 2 & 3 and 12, 13, 14, 15 & 16 would be zeros.

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1.7.1 (Continued)

Bit 03 Shift Command Register to DB4

The execution of (DMAN) with the accumulator bit 03 set equal to a 1 shifts the command register one place left to DB4 and Bit 11 of the command register to Bit 00 of DB4. Twelve shifts will load the entire command register to DB4.

Bit 04 Shift Surface And Sector to DB4

The execution of (DMAN) with accumulator bit 04 set equal to 1 will shift the sector surface address register left one place to DB4. Five shifts will load the entire sector surface register to DB4.

Bit 05 Shift AC 10 to DB1

Execution of the (DMAN) instruction with accumulator bit 05 set equal to a 1 will shift accumulator bit 10 left one place to the least significant bit position of Rank 1 of the 4 word data buffer. The bit counter and word counter are incremented in the same manner as they would be by incoming disc data. (DCLC) must be issued to clear the action and results of (DMAN) with 05 set.

Bit 06 Initiate Single Cycle Data Break

The execution of the (DMAN) instruction with accumulator bit 06 set equal to a 1 will allow a single cycle data break to occur. Control information specified by the command register will be executed. Data transfer will occur using the memory address specified by the current address register and the extended memory address register. DB1 thru DB4 will transfer and act on data in their normal manner with the Data Request Late flag being active. Thus a read must occur for every write to avoid Data Request Late.

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Accumulator Bit 06 is cleared automatically when Data Break Request is serviced. (DCLC) is used to reset the command register and make DB4 appear empty.

Bit 07 Transfer DB4 to the accumulator

The execution of (DMAN) with accumulator bit 07 set equal to a 1 will cause one word of information to be loaded from DB4 to the accumulator.

Bit 10 Data Bit

Bit 10 is used as a data bit in conjunction with various maintenance functions.

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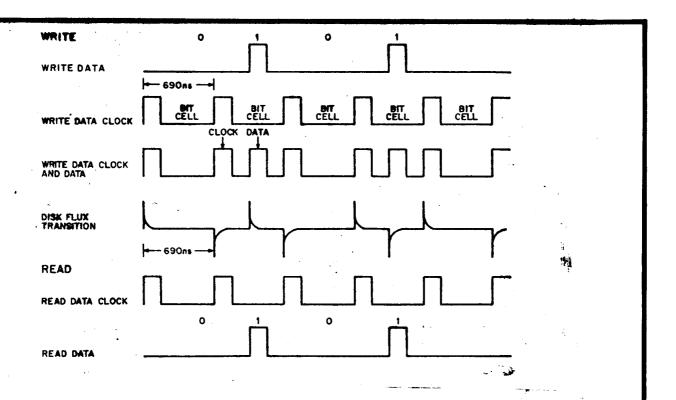
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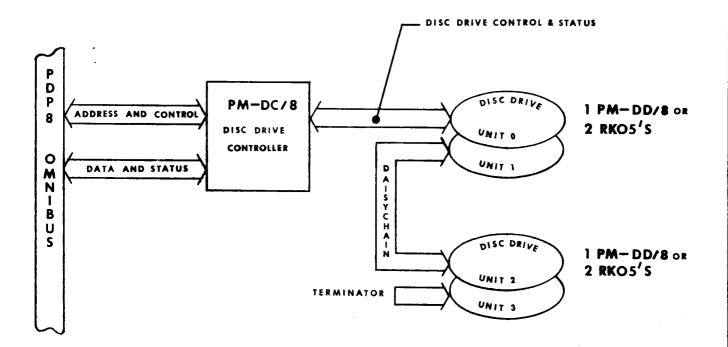
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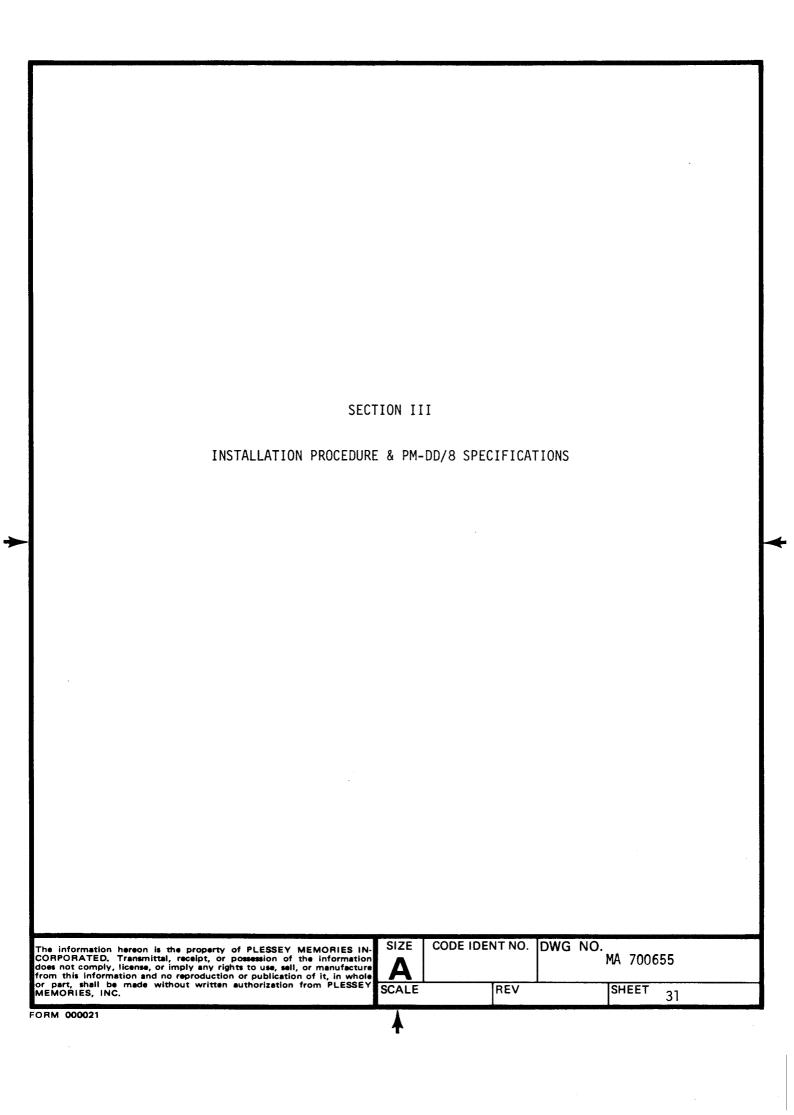




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FORM 000021

A

PLESSEY DISC DRIVE INSTALLATION PROCEDURE

1.0 REQUIRED ITEMS

Disc Drive Manual

MA700540

Allen Wrench

5/64in.

Phillips Screwdriver

Xcelite X-108 #1

Common Screwdriver

Xcelite R-3166 3/16 x 6

4" Adjustable Wrench

Crescent etc.

Cable Extractor

3M

2.0 UNPACKING AND INSPECTION

- 2.1 Inspect shipping container for evidence of damage incurred during shipment. Reporting obvious damage to the carrier company.
- 2.2 Open the top side of the shipping container.
- 2.3 Remove the inner container and open the top side of the inner container.
- 2.4 Remove the top and side styrofoam liners.
- 2.5 Grip the unit along both sides of the casting while lifting the unit out of the container.

CAUTION: Do not support the unit via the handle on the front panel.

- 2.6 Remove the protective plastic bag.
- 2.7 The shipping container and internal packing material may be retained for future repacking of the unit. A replacement container may be ordered Plessey No. 300166.

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3.0 DISC TOP COVER REMOVAL

- 3.1 Using a 5/64 allen wrench remove the six screws on the top surface of the cover.
- 3.2 Release the front door locking mechanism which may be depressed toward the rear of the unit by means of an access window located on the right side panel of the top cover toward the front of the unit. While holding the locking mechanism depressed open the front door. See Figure 1 for locations.

CARRIAGE SHIPPING RESTRAINT REMOVAL 4.0

- 4.1 Release the cabinet lock mechanisms located on each side of the drive by depressing them in an upward direction (See Figure 1 for location). This will release the slides. While holding the cabinet later mechanism, push the disc slides toward the rear of the machine in order to gain access to the positioner assembly.
- 4.2 Remove the restraint retaining screw then reinstall it, as shown, in the stowed position.

NOTE: The restraint retaining screw secures the carriage rear stop and MUST be re-installed. See Figure 2 for location.

4.3 Plug in P-16 on power supply.

5.0 INITIAL CHECKOUT

- 5.1 Slightly elevate the front of the drive to give clearance for the motor pulley for temporary desk top checkout.
- 5.2 Apply AC power to the drive. The power cord receptacle is located in the drive back panel.
- 5.3 Turn the power switch on. The load lamp should illuminate.
- 5.4 Insert a "scratch" cartridge into the drive.

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5.0 INITIAL CHECKOUT: (Continued)

- 5.5 Turn the run/load switch to RUN. After approximately 20 seconds the Ready lamp should illuminate.
- 5.6 Connect the Drive Bus cable to J-22 on the I/O connector board.
- 5.7 Run diagnostics or a DEC program to verify that the disc is operating properly.

6.0 RACK MOUNTING

- 6.1 Turn the Run/Load switch to the load position. After approximately 20 seconds the load lamp should illuminate.
- Remove the cartridge and turn the power switch off. 6.2
- 6.3 Remove the A.C. power cord from the drive.
- 6.4 Remove the back panel as follows:
 - Remove the 2 screws securing the A.C. receptacle to a. the back panel.
 - Using the 3M cable extractor remove the cable from Ь. J-21 on the I/O connector.
 - Remove the 4 screws securing the back panel to c. the drive slides.
- 6.5 Remove the slides as follows:
 - Using the 3M cable extractor remove the cable from a. the DIB board J20.
 - Ь. Remove the 4 screws securing the slides to the drive. See Figure 1.
- 6.6 Mount the slides in the rack using the mounting hardware provided. The slide brackets may be adjusted to fit the rack by loosening the bracket fastening screws at the front and rear of the slide. The rear of the slide attaches to the rack by means of the bracket adjustment screw. (See Figure 1).

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- 6.7 After both slides are mounted, fully extend them and set the drive on the extended slides.
- 6.8 Fasten the rails to the drive.
- Mount the drive back panel and connect the ribbon cable to the D1B and I/O boards. 6.9
- 6.10 Reconnect the A.C. receptacle.
- 6.11 Reinstall the drive top cover.

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7.0 CONTROLLER INSTALLATION

- 7.1 Ensure PDP-8 power is turned off.
- 7.2 Ensure correct jumpers are installed to select the device code assigned to this disc controller. The data and buffer board (700645) is normally shipped with the 674X device code 675X through 677X may be used (See Table 1).
- 7.3 Install jumpers to select priority assigned to disc controller. priority jumpers on major board *700647). See Table 2.
- Connect disc bus cable. (700696) onto control board (700643) 7.4

NOTE: Cable labeled "Pl" and "P2".

7.5 Insert three (3) card PDP 8 disc controller (PM-DC/8) into the omnibus - See Figure 3.

> Major board (700647) if inserted incorrectly,, will apply +15V, -15V, -5, and +5V to logic input/output gates. Insert all boards with connectors "A", "B", "C", and "D" down and into the OMNIBUS.

Install PM-DS/8 top connector (700713-100) onto the three 7.6 disc control boards.

8.0 ACCEPTANCE TEST

The following diagnostics must be run in the order shown to satisfy minimum test requirement. Refer to instruction in diagnostic document to run test.

- 8.1 RK8-E discless control diagnostic - 2 passes
- RK8-E drive control diagnostic 1 pass 8.2
- 8.3 RK8-E formatter - 1 pass
- 8.4 RK8-E data reliability test - optional

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TABLE I DEVICE SELECT JUMPER INSTALLATION

OCTAL CODE	INSTALL FOLLOWING JUMPER ON P/N 700645 BOARD
674X	W2, W3
675X	W2
676X	W3
677X	NONE

TABLE II PRIORITY SELECTION

PRIORITY	INSTALL JUMPER ON P/N 700647 BOARD
PRIORITY O (HIGHEST)	W1 & W4
PRIORITY 1	W2, W3, & W5

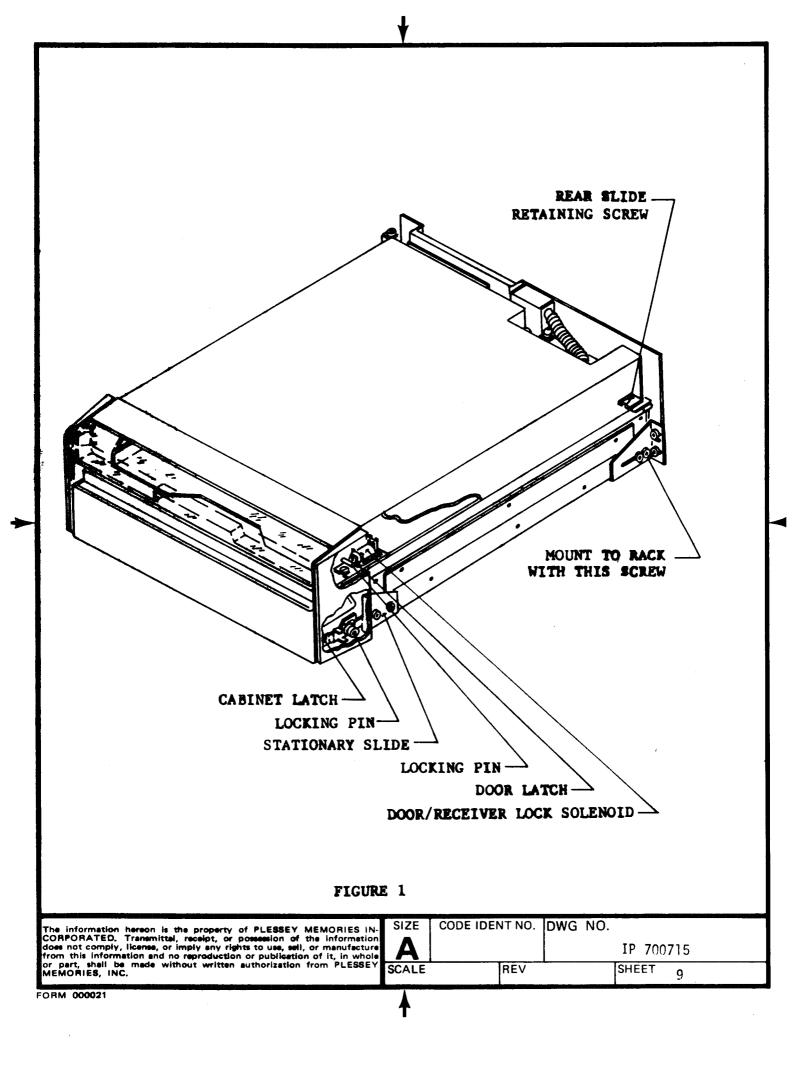
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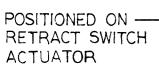
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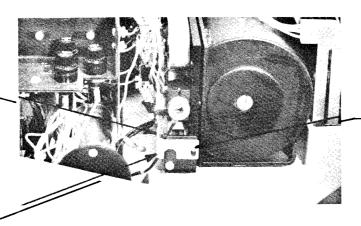
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SHIPPING RESTRAINT



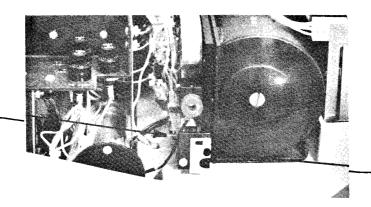


RESTRAINT RETAINING SCREW

SHIPPING RESTRAINT

INSTALLED POSITION

RETRACT SWITCH



RESTRAINT

STOWED POSITION

FIGURE 2

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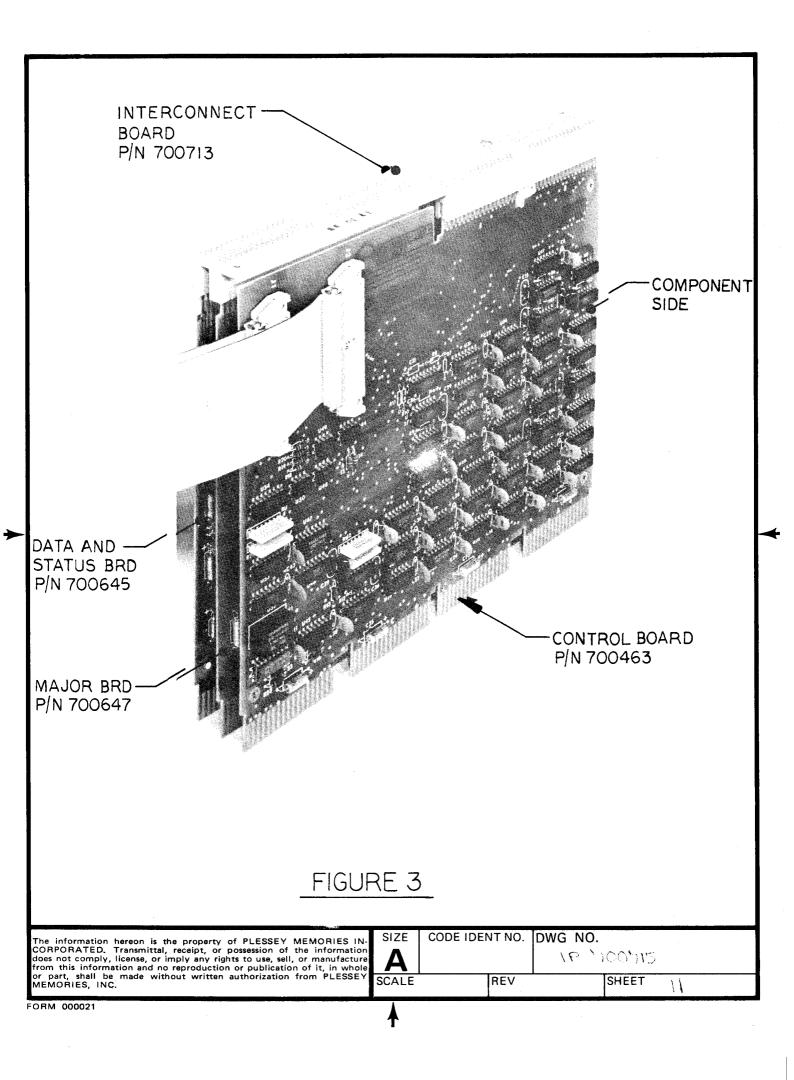
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APPENDIX PM-DD/8 DUAL DISC SPECIFICATION

Please note that these specifications (capacity) represent two (2) logical unit addresses within the same chassis.

SPECIFICATIONS:

Gross Capacity: 5.0 M Bytes

Transfer Rate: 11.lusec/word

Recording Density: 2200 Bits/Inch, max.

Track Density: 100 tracks/inch

1500 RPM Disc Rotational Speed

Speed Variation: + 1% Max.

Access Times:

Track to Track 15ms 50ms Average

Maximum 90ms

Reliability:

1 in 1 \times 10 10 bits -ransferred Recoverable errors (Max.)

1 in 1 x 10¹² bits transferred Non-recoverable errors (Max.)

Mean timebetween failure (MTBF) 5000 hrs.

Mean time to repair (MTTR) Less than 1 hour Surfaces/Drive:

Tracks/Surface: 200 + 3 Spare

Sectors/Track: 16 Words/Sector:

256 Time for 1/2 revolution 20

Recording Mode: Double frequency encoded

Cartridge Unload/Load Cycle: 60 seconds

Cartridge: IBM 2315 type (D.E.C. compatible)

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SPECIFICATIONS (Continued)

Power Requirements:

100, 110, 120, 130, 200, 220, 230, 240, 250, and

260 VAC + 10% 47-63Hz

Physical Dimensions:

Height 7.00 inches

Width 17.60 inches

Length 22.00 inches

Weight 80 Lbs.

19 inch standard RETMA mounting

Environment (Operational)

Temperature 50 to 100 degrees F

Humidity 5 to 95% non condensing

(R.H.)

Models:

PM-DDA/8 RK05-AA

PM-DDB/8 RK05-BB

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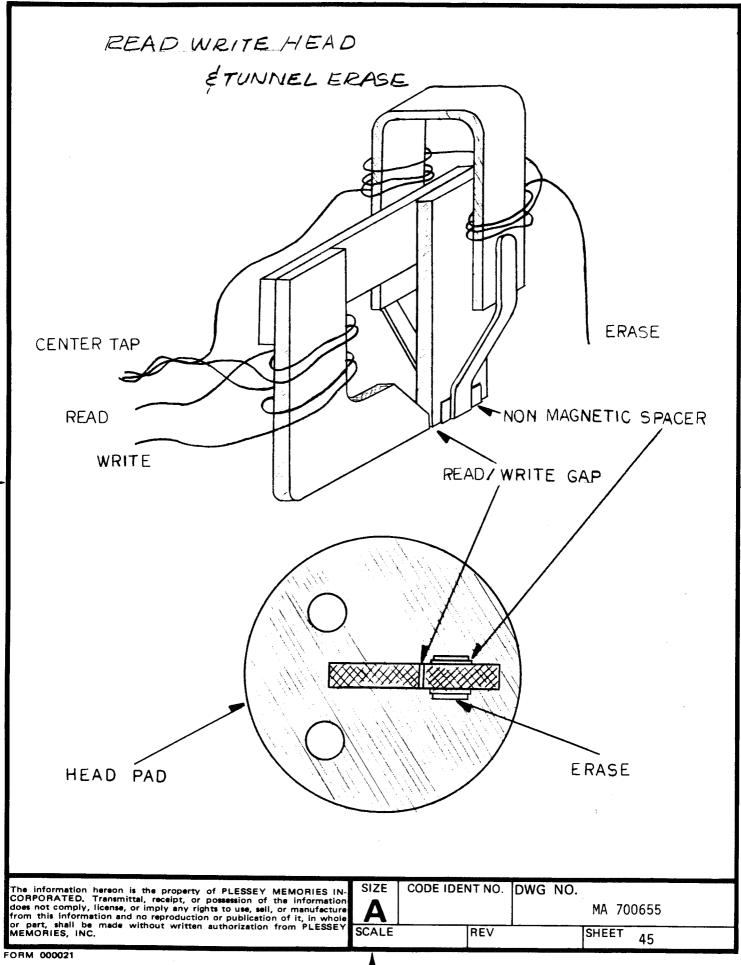
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SECTION IV SCHEMATICS

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U1,2,3,4,5,6 U7,11 U8,12,14,17,25, U27,33,45 U9,35,36 U10 U13,23,26,29,30,4	8 9 10	NEFERENCE DESIGNATION U.47 U.51 C.44, 45 C1,23,35,40 C2,3,4,6,8,9,10,12,13 C16,17,18,19,20,21,22 C24,25,26,27,28,32,33 C34,37,38,41,42,43	2/ 22 23 24	REFERENCE DESIGNATION RU2, RU4 R1, 16, 17, 22, 23	36 37 ,24 38 39 40		GAAT (OR
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		R O T E	61. 4	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	COME IDENT NO.	ZONE	F I N N O.	S 7 H	C/1 COOE	C/1 U	SAGE A R	UNITY COST	
			/	700642-001	P.W.B. CONTROL				/	В	1				
			2	3432-1002	CONNECTOR,40PIN	3M CO.	26066		z	4					
	D								3						
	D			-					4						
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	_	_	6	5N74161	SYNCHRONOUS 4-BIT COUNTERS	INSTR	01295		6	4	1		Ц		
}	\dashv		2	SN74H04	HEX INVERTER	INSTR	01295		7	4					
	_	\dashv	8	5N7400	QUAD 2-INPUT POS-NAND GATES	TEXAS INSTE TEXAS	01295		8	4	\perp				
	4		3	SN7404	HEX INVERTER	INSTR	01295		9	+	_				
	\dashv				TRIPLE 3-INPUT POS-NAND GATES	INSTR TEXAS	0/295		10	+	-		\sqcup		
	-	_			QUAD 2-INPUT POS-NOE GATES DUAL D-TYPE POS-EDGE	INSTR	01295		//	+	+		$ \cdot $		
	D			5N7474	TRIGGERED FLIP-FLOP QUAD 2-INPUT POS-AND GATES	INSTR	01295		12	╁	+	- 1	H		
Į		ART	استوت	بعربيس مسم	Aemories Incorporated CODE IDEN	TNO MALUFI II.	01295		13	_			Ц		
		IST		, 11000, 1	Senta Ana, California 526	48 PL	700		r_	7		C/1 US		С	
		O T E	QTY REQD	PART OR IDENTIFYING NO.	MOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE IDENT NO.	ZONE	1 M N O. D	S Y H	C/1 COOE	NAME OH THY	Ä	COST COST	
			/	5N74H52	EXPANDABLE 4 WIDE AND-OR GATES	INSTR	01295		14	4	1		Ц		
			/	5N7442	4-LINE-TO-10-LINE DECODERS	MSTE	01295		15	4	_				
		_	2	5N7410	TRIPLE 3-INPUT POS-NAND GATE	TEXAS	01295		16	4	_				
			2	5N74123	DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR W/CLEAR	TEXAS	01295		17	4	\perp				
			4		QUAD 2-INPUT RECEIVERS	75×46			18	+	_				
		\dashv	4	5N75452	DUAL PERIPHERAL POS-NAND DEIVER	TEXAS INSTR TEXAS	01295		19	+	1		$\ \cdot\ $		
		\dashv		5N7496	5-BIT SHIFT REGISTERS	INSTR	01295		20	+	+		$\ \cdot \ $		
		\dashv		SN7485 SN74H76	4-BIT MAGNITUDE COMPARATOR DUAL J-K TYPE FLIP-FLOPS	INSTR	01295		21	-	+		$\left \cdot \right $		
}	С		-	CD/5FD	W/PRESET AND CLEAR	INSTR	93790		22	+	+	•	H		
}	\dashv	\dashv	4	221303 CS/3BF	CAPACITOR, 220pf, ±5% CAPACITOR, TANT, 6.814	DUBILIER MIL-C-26655	13()6		23 24	+	+		H		
	\dashv	\dashv	20	685M C069B1	CAPACITOR, Olas 5,+80%-20%		25571		25	-	+		H		
ŀ				60E103Z						4	4		Ц		
	B	-		CD15FD	CAPACITOR, 470 of	COENELL-	93790	į	24	4	- [1	
	B		2	CD15FD 471U03	CAPACITOR, 470 pf	DUBILIER			26 N(1				ļ	
information RPORATED.	he Tra	reon nemi:	2 is the p	CD/5FD 47/UO3 property of Pleeipt, or posse y any rights to	LESSEY MEMORIES IN. SIZE CO		لبيا	WG	N).	006	555			<u> </u>

		ART IST		Plessey M	lemories Incorporated Sonta Ann. California	T NO. Name List in.	7000	5.43-K	0	SH <u>5</u>	B	
		M O T E	QTY REQO	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE IDENT	ZONE F I N N O.	S Y COC	C/I US	SAGE.	1
		-	2	CD/5FC 82IJO3	CAPACITOR, 820pf, ± 5 %	CORNELL- DUBILIER	<i>9379</i> 0	27	╁	1000		
			/	CD15FD 181U03	CAPACITOR, 180pf, ±5%	CORNELL- OUBILIER	93790	28	4			7
			/	CDISFC 561103	CAPACITOR, 560pf, ±5%	COENELL- DUBILIER	93790	29	A			
			2	X463UW	CAPACITOR, .022, us, ±10%,50V	·	84411	30	A			
			/	100000	CAPACITOR, 10pf, ±5%	CORNELL- DUBILIER	<i>?979</i> 0	3/	A			
.	В		/	CK06 B X- 472 K	CAPACITOR, 4700 pf, 200 V,	MIL-C-11015		32	A	<u> </u>		
			/	JK TO-80	CRYSTAL OSCILLATOR 5.760 MHZ	CTS	75378	33	4		<u> </u>	
	В		1	138000-001	DIADE			34	Α	ļ		
	A		2	-011	RESISTOR, MODULE, 3901.,±5%			35	Ε	ļ		
	A		2	100013 -012	RESISTOR, MODULE, 180 n. ‡5%			36	ε	<u> </u>		_
								37		ļ		
			6	27020	RESISTOR, IK, 5%, 1/4 W	MIL-R-11		<i>3</i> 8	4			_
			6	ECOTG FIOIN		MIL-R-11		39	4		Ш	╛
		ART		Pleasey M	Senta Ane, California 526	17 NO. HAR LIST B. 48 PL.	7 00 0	43-10	20	SH	A	
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			/	EC076 562 J	RESISTOR, 5.6K, 5%, 1/4W	MIL-R-11		124	4		\coprod	
	A		/	2432 F	RESISTOR, 24.3K, 1%, 1/4W	MIL-R-10509		45	4		$\bot \!\!\! \bot$	
			3	RCOTG F391J	RESISTOR, 3901, 5%, 1/4W	MIL-R-11		46	╂╂╌	<u> </u>	4	
			3	RCOTG FIBIU	RESISTOR, 1801., 5%, 1/4W	MIL-R-11		47			-	
	L					0.000		48	\coprod	-	\bot	_
	A		AR	5951	WIRE, 30AWG SOLID, KYNAR INSULATION	ALPHA WIRE	23172	49	6	-		_
			AR	SN63WRAP3		QQ-5-571	ļ	50	6		\bot	_
	L		REF	50700613	CONTROL, PM-DC/8	<u> </u>	ļ	5/		ļ	44-	
			REF	TS 700613	CONTROL, PM-DC/8			52	F		Ш	
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	:	QTY	PART OR		-			CODT		ŗ.,	s		C/I U	AGE	
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		/	700644-001	P.W.B. DATA BUFFER &	STATUS					/	5				
										2					
		6	5N 7495	4-BIT PARALLEL-ACC SHIFT REGISTER	ESS	1	AS STR	01295		3	A				
		5	136021-380	QUAD 2-INPUT RECEIN	ER5					4	4				
		5	SN 7438	QUAD 2-INPUT NAND BU W/OPEN-COLLECTOR OU		TEX INS		01295		5	4				
		/	136020-384	QUAD 2-INPUT RECE	IVERS					6	7				
		7	5N7402	QUAD 2-INPUT POS-NOR	GATES	•	XAS STR	01295		7	4				
		4	SN74174	HEX/QUAD D-TYPE FLIP-FLOP WICLE			AS STE	01295		8	4				
		93	SN74157	QUAD 2-LINE-TO-1-LII DATA SELECTORS/MULTIPL			(AS STR	01295		9	4			П	
		R	SN7440	DUAL 4-INPUT POS-NAND E	BUFFERS		(AS TR	01295		10	4			П	
		1	5N7442	4-LINE-TO-10-LINE DEC	ODERS		(A5 57R	0.1295		//	4				•
		4	SN7408	QUAD 2 INPUT POS-AND	GATES		XAS STR	01295		12	4		•••		-
		2	SN74H76	DUAL U-K FLIP-FLO W/PRESET AND CLE			(A5	01295		13	A			П	
				WIFEEDET AND CLE	AZ	//٧.3	TR	! I			1	- 1		1 1	
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	IST N O	QTY	PART OR	Memories Incorporated Santa Ana, California	COOE IDEN' 5254	SPECI	PL7	CODE 10ENT		F 1 N N O.	S Y H	5/1	C/I US	•	_
	IST N O	QTY REQD	PART OR IDENTIFYING NO.	Memories Incorporated Santa Ana, California NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MOD	CODE IDEN 5254 WOSTABLE R	SPECI	PL7	CODE IDENT NO.		F 1 N N O. D	S M	5/1	C/I US	•	_
	IST N O	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MOI MULTIVIBRATOR WICLEA EXPANDABLE 4-WIA	COOÉ IDEN 5254 WOSTABLE R DE 17ES	SPECI TEX INS TEX	PLT FICATION (AS TR XAS	CODE IDENT NO.		F 1 N N O. D	D D HAS	5/1	C/I US	•	_
	IST N O	QTY REQD	PART OR IDENTIFYING NO. SN74/23 SN74H53 SN74H74	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MON MULTIVIBRATOR WICLEA EXPANDABLE 4-WIN AND-OR INVERT GA DUAL D-TYPE POS-EDO	COOÉ IDEN 5254 WOSTABLE R DE 17ES	SPECII TEX INS TEX INS	PL7 FICATION (AS TR XAS STR (AS	CODE 1 DENT NO. 01295		F 1 N N O. D	SPE A A	5/1	C/I US	•	_
	IST N O	OTTY REOD	PART OR IDENTIFYING NO. SN74/23 SN74H53 SN74H74	NOMENCLATURE OR DESCRIPTION NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MOI MULTIVIBRATOR W/CLEA EXPANDABLE 4-WIL AND-OR INVERT GA DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL	COOE IDEN' SESSA COSTABLE R DE TES GE	SPECI TEX INS TEX INS TEX INS	PLT FICATION (AS TR XAS STR (AS TR (AS TR XAS	CODE 1DENT NO. 01295 01295		F N N O. D	STE A A A	5/1	C/I US	•	_
	IST N O	97Y REQU	PART OR IDENTIFYING NO. SN74/23 SN74H53 SN74H74 SN74O4	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MODI MULTIVIBRATOR WICLEA EXPANDABLE 4-WIL AND-OR INVERT GA DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL HEX INVERTER	COOE IDEN 5254 WOSTABLE R DE TES GE OP	SPECI TEX INS TEX INS TEX INS TEX INS TEX INS	PLT FICATION (AS TR XAS STR (AS TR XAS STR XAS STR XAS	CODE 1DENT NO. 01295 01295 01295		F 1 N N O. 14 15 16	SPE Q Q Q Q	5/1	C/I US	•	_
	IST N O	9TY REQU	PART OR IDENTIFYING NO. 5N74/23 SN74H53 SN74H74 SN74O4	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MODINITIVIBRATOR WICLEA EXPANDABLE 4-WILL AND-OR INVERT GA DUAL D-TYPE POS-EDE TRIGGERED FLIP-FL HEX INVERTER QUAD 2-INPUT POS-NAND OF	COOE IDEN SESA WOSTABLE R DE TES GE GATES	SPECI TEX INS TEX INS TEX INS TEX INS TEX INS	PLT FICATION (AS TR XAS STR (AS STR XAS STR XAS STR XAS STR XAS	CODE 1DENT NO. 0/295 0/295 0/295 0/295		14 15 16	A A A A A	5/1	C/I US	•	_
	IST N O	9TY REQU	PART OR IDENTIFYING NO. 5N74/23 SN74H53 SN74H74 SN74O4 SN74O0 SN7432	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MON MULTIVIBRATOR WICLEA EXPANDABLE 4-WIL AND-OR INVERT GA DUAL D-TYPE POS-EDE TRIGGERED FLIP-FL HEX INVERTER QUAD 2-INPUT POS-OR	COOE IDENT SC. 4 WOSTABLE R DE TES GE GATES GERS	SPECI TEX INS TEX INS TEX INS TEX INS TEX INS TEX INS	PLT FICATION (AS TR XAS STR (AS STR XAS STR (AS STR (AS	CODE 1DENT NO. 01295 01295 01295 01295 01295	ZONE	Fino. 14 15 16 17 18	STE Q Q Q Q Q	5/1	C/I US	•	_
	IST N O	9TY REQU	PART OR IDENTIFYING NO. 5N74/23 SN74/53 SN74H54 SN74O4 SN74OO SN7432 SN7496	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MON MULTIVIBRATOR WICLEA EXPANDABLE 4-WIN AND-OR INVERT GA DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL HEX INVERTER QUAD 2-INPUT POS-NAND OF 5-BIT SHIFT REGIST DUAL D-TYPE POS-EDO	COOE IDENT SC. 4 WOSTABLE R DE TES GE GATES GERS	SPECI TEX INS TEX TEX INS TEX TEX TEX TEX TEX TEX TEX TEX	PLT FICATION (AS TR XAS STR XAS STR XAS STR XAS STR (AS STR (AS STR (AS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR XAS STR STR STR STR STR STR STR STR STR ST	CODE 1DENT NO. 01295 01295 01295 01295 01295 01295	ZONE	14 15 16 17 18	A B B B B B B B E	5/1	C/I US	•	_
	IST N O	9TY REQU	PART OR IDENTIFYING NO. 5N74/23 SN74H53 SN74H74 SN74O0 SN7432 SN7496 SN7474	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MOINMULTIVIBRATOR WICLEA EXPANDABLE 4-WIL AND-OR INVERT GA DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL QUAD 2-INPUT POS-OR 5-BIT SHIFT REGIST DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL	COOE IDEN SC. 34 WOSTABLE R DE TES GATES GATES GERS	SPECI TEX INS TEX TEX TEX TEX TEX TEX TEX TEX	PLT FICATION (AS TR XAS STR XAS STR XAS STR (A	CODE 1DENT NO. 01295 01295 01295 01295 01295 01295	ZONE	14 15 16 17 18 19 20	SPE Q Q Q Q Q Q Q Q	5/1	C/I US	•	_
	IST N O	9TY REQU	PART OR IDENTIFYING NO. 5N74/23 SN74H53 SN74H74 SN74O0 SN7432 SN7496 SN7474 SN74H04	NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MOINMULTIVIBRATOR WICLEA EXPANDABLE 4-WIL AND-OR INVERT GA DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL HEX INVERTER QUAD 2-INPUT POS-NAND OF 5-BIT SHIFT REGIST PUAL D-TYPE POS-EDO TRIGGERED FLIP-FL HEX INVERTER	COOE IDENT SCA 4 WOSTABLE R DE TES GE OP GATES GERS FE OP	SPECI TEX INS TEX TEX INS TEX TEX TEX TEX TEX TEX TEX TEX	PLT FICATION (AS TR XAS STR XAS STR XAS STR (A	CODE 1DENT NO. 01295 01295 01295 01295 01295 01295 01295	ZONE	F N 0. 14 15 16 17 18 19 20 21 22	STE Q Q Q Q Q Q Q Q Q	5/1	C/I US	•	_
,	IST N O	9TY REQUE	PART OR IDENTIFYING NO. 5N74/23 SN74H53 SN74H74 SN74O0 SN7432 SN7496 SN7474 SN74H04 SN74H04	NOMENCLATURE OR DESCRIPTION NOMENCLATURE OR DESCRIPTION DUAL RETRIGGERABLE MON MULTIVIBRATOR WICLEA EXPANDABLE 4-WIN AND-OR INVERT GA DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL HEX INVERTER QUAD 2-INPUT POS-NAND OF 5-BIT SHIFT REGIST DUAL D-TYPE POS-EDO TRIGGERED FLIP-FL HEX INVERTER TRIPLE 3-INPUT POS-NAN SYNCHRONOUS 4-BIT UP	COOF IDENT SECOP GATES GATES FE OP NO GATE VIDOWN CLEAR)	SPECI TEX INS TEX TEX TEX TEX TEX TEX TEX TEX	PLT FICATION (AS TR XAS STR XAS STR XAS STR (A	CODE 10ENT NO. 01295 01295 01295 01295 01295 01295 01295 01295 01295	ZONE	14 15 16 17 18 19 20 21 22 23	SPE Q Q Q Q Q Q Q Q Q Q	5/1	C/I US	•	_

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44 1	N QTY T REQD E	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE IDENT NO.	ZONE	F I N N O. D	S Y M	C/1 CODE	C/I U:	P A R	UN TT COST
	/	SN 7437	QUAD 2-INPUT POS-NAND BUFFERS	TEXAS INSTR	01295		27	A				
	/	TZAII-10	TE NS DELAY LINE	RHOMBUS IND	16714		28	4				
							29					
							30					
_	7	C5/3BF 685M	CAPACITOR, TANT, 6.8 mg	MIL-C-26655			31	4				
A	2	1500475X	CAPACITOR, TANT, 4.7, uf, 10V	SPRAGUE	05571		32	4				
_	12	C06981 60E1032	CAPACITOR, Oluf, 50V	SPEAGUE	05571		33	A			L	
_	/	390 JO3	CAPACITOR, 39pf, 500V	CORNELL	93790		<i>34</i>	4				
_	/	100103	CAPACITOR, 10pf, 500V	CORNELL- DUBILIER	93790		35	4				
	2	CD15FD 181103	CAPACITOR, 180pf,	CORNELL- DUBILIER	93790		36	4				
\perp			· · · · · · · · · · · · · · · · · · ·				37					
	2	331V03	CAPACITOR, 330pf	CORNELL- DUBILIER	93790		38	A			Ц	
	 -	,										
	2	CD15FD 471J03	CAPACITOR, 470pf	CORNELL- DUBILIER	93790		39	4				
	RTS (CD15FD 471JO3	demories Incorporated CODE IDEN	DUBILIER	93790 7004	45		Ц) :	SH <u>&</u>		 8
LI	RTS ST	CO15FO 47IJO3 Plessey N		DUBILIER	7004		-/c	200) }	c/1 v	<u>L</u>	8
LI	RTS (CD15FD 471JO3	demories Incorporated CODE IDEN	DUBILIER				200	7 :		<u>L</u>	WIT COST
LI	RTS ST	Plessey N	Aemories Incorporated Santa Ana, California	PUBILIER FINO PRINTIPLE FOR PL.	CODE IDENT		-/c	200		C/1 U	<u>L</u>	UNIT
LI	RTS ST	Plessey N	Aemories Incorporated Santa Ana, California	PUBILIER FINO PRINTIPLE FOR PL.	CODE IDENT		-/C F I N N O. D	200		C/1 U	<u>L</u>	UNIT
LI	RTS ST	Plessey N PART OR IDENTIFYING NO.	Aemories Incorporated Santa Ana, California	PUBILIER FINO PRINTIPLE FOR PL.	CODE IDENT		-/C F I N O.	SY M		C/1 U	<u>L</u>	UNIT
LI	RTS ST	Plessey N PART OR IDENTIFYING NO. RCOTGF 222 J	Aemories Incorporated Sama Ana, California NOMENCLATURE OR DESCRIPTION	PUBILIER FINO PRINTIPLE FOR PL.	CODE IDENT	ZONE	F I N O. D	SYM		C/1 U	<u>L</u>	UNIT
LI	RTS ST	PICSSEY N PART OR IDENTIFYING NO. RCOTGF 222 J RCOTGF 102 U	Aemories Incorporated Sama Ana, California NOMENCLATURE OR DESCRIPTION	DUBILIER FNO News striff is PL. SPECIFICATION MIL-R-11	CODE IDENT	ZONE	-/C F I N O. D 40 41) C S Y M		C/1 U	<u>L</u>	UNIT
LI	RTS C	PICSSEY N PART OR IDENTIFYING NO. PART OR IDENTIFYING NO. RCOTGF 222 J RCOTGF 102 U RCOTGF 512 U	NOMENCLATURE OR DESCRIPTION RESISTOR, 2.2K, 5%, 1/4W	DUBILIER FNO News LITE IN PL. SPECIFICATION MIL-R-II MIL-R-II	CODE IDENT	ZONE	-/C FINO. 40 41 42	OC SYM		C/1 U	<u>L</u>	UNIT
8	RTS COTY REQU	PICSSEY N PRATOR IDENTIFYING NO. PART OR IDENTIFYING NO. RCOTGF 222 J RCOTGF 102 J RCOTGF 512 J RCOTGF 101 J	NOMENCIATURE OR DESCRIPTION RESISTOR, 2.2K, 5%, 1/4W RESISTOR, 1K, 5%, 1/4W	DUBILIER FNO News LITE IN PL SPECIFICATION MIL-R-II MIL-R-II	CODE IDENT	ZONE	-/C FINO. 40 41 42 43	OC SYX		C/1 U	<u>L</u>	UNIT
8	RTS OTY REQU	PICSSEY N PICSSEY N PART OR IDENTIFYING NO.	NOMENCIATURE OR DESCRIPTION RESISTOR, 2.2K, 5%, 1/4W RESISTOR, 5.1 K, 5%, 1/4W RESISTOR, 5.1 K, 5%, 1/4W	DUBILIER TNO News LITE IN LOS PL SPECIFICATION MIL-R-II MIL-R-II MIL-R-II MIL-R-II	CODE IDENT	ZOME	40 40 41 42 43 44	A A A		C/1 U	<u>L</u>	UNIT
8	RTS OTY REQUE	PICSSEY N PICSSEY N PART OR IDENTIFYING NO. NOMENCIATURE OR DESCRIPTION RESISTOR, 2.2K, 5%, 1/4W RESISTOR, 5, 1 K, 5%, 1/4W RESISTOR, 1000, 5%, 1/4W	DUBILIER FNO News LITE IN LES PL SPECIFICATION MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II	CODE IDENT	ZOME	40 40 41 42 43 44 45	A A A A		C/1 U	<u>L</u>	UNIT	
8	RTS ST OTY REQUE	PICSSEY N PICSSEY N PART OR IDENTIFYING NO.	RESISTOR, 2.2K, 5%, 1/4W RESISTOR, 5.1 K, 5%, 1/4W RESISTOR, 1/4W	DUBILIER TNO NUMBER STATE PL SPECIFICATION MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II	CODE IDENT	ZOME	40 40 41 42 43 44 45	2C 557 X A A A A A A A A A		C/1 U	<u>L</u>	UNIT
8 8	RTS ST OTY REQUE	PICSSEY N PICSSEY N PRATOR IDENTIFYING NO. PART OR IDENTIFYING NO. PART OR IDENTIFYING NO. PROTOFF 222 J RCOTGF 102 J RCOTGF 101 J RCOTGF 101 J RCOTGF 181 J RCOTGF 181 J RCOTGF	RESISTOR, 1000, 5%, 1/4W RESISTOR, 2000, 5%, 1/4W RESISTOR, 1/4W	DUBILIER TNO NUMBER STREET STR	CODE IDENT	ZONE	40 40 41 42 43 44 45 46 47			C/1 U	<u>L</u>	UNIT
8 8	RTS ST CONTY REQUES TO A CONTY	PICSSEY N PICSSEY N PICSSEY N PART OR IDENTIFYING NO. PART OR IDENTIFYING NO. PART OR IDENTIFYING NO. PROTOFF 222 J RCOTGF 102 J RCOTGF 101 J RCOTGF 101 J RCOTGF 181 J RCOTGF 472 J RCOTGF	RESISTOR, 1000, 5%, 1/4W RESISTOR, 2900, 5%, 1/4W RESISTOR, 1000, 5%, 1/4W RESISTOR, 1000, 5%, 1/4W RESISTOR, 1800, 5%, 1/4W RESISTOR, 1800, 5%, 1/4W RESISTOR, 1800, 5%, 1/4W	DUBILIER TNO NUMBER STREET IN PL. SPECIFICATION MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II MIL-R-II	CODE IDENT	ZONE	40 40 41 42 43 44 45 46 47 48	A A A A A		C/1 U	<u>L</u>	UNIT

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SIZE	CODE IDEN	IT NO.	DWG	NO).
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	N O T E	QTY REQO	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE IDENT NO.	ZONE	F 1 M N O	SYM	C/I	C/I US	AGE	UH ET COST
		AR	5951	WIRE,30 AWG SOLID, KYNAR INSULATION,COLOR:OPTIONAL	ALPHA	23172	 	53	H				
L		AR	SNG3WRAP3	SOLDER	QQ-5-571			54	G				
L								55					
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Ц		REF	SD700645	SCHEMATIC DIAGRAM				57	c				
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SIZE A SCALE CODE IDENT NO. DWG NO.

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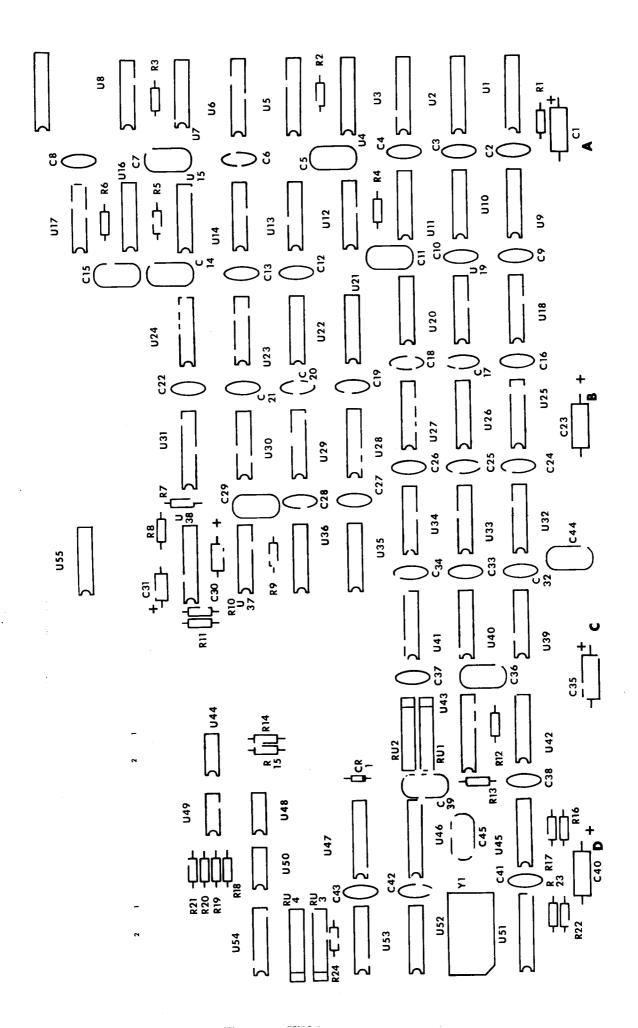
MAJOR REGISTER, PM-DC/8 TR	BOARD AS	S F	Santa Ara, Calif		7200 Se 11-21-75	CODE IO		SM
PRODUCTION RELEASE PRODUCT				, [1 1/20/11 1/20/11	5 Z G	048	OF _6
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Comparison Com	PARTS Plesse	y M			57648 P17	206	47-100 = 2	R1 1W
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U2, 4, 21, 22, 26, 41 4 U29, 30, 31 20 36	REFERENCE DESIGNATION		REFERENCE OCSIGNATION	1	REFERENCE RESIGNATION	1 m	REFERENCE DESIGNATION	
U1, 3	U2,4 ,21,22,26,41	4		+ 1		———		\top
U13, 14, 27	U28, 42	5	U7, IQ	21		37		
U125 8 U39 24 C20 40 U12 9 25 C2-4, 6-19,21,22,243 34-42, 46, 47, 49, 41 U34,36,40,47,48,49 IC 26 51,52 U11 II 27 C1,5,32,33,43,44, 45,48,50 U8,19,32,33 I3 R1 29 U20 I4 R3,4,5,6,7 30 U15 I5 31 U23,24 I6 32 U17 I7 RU3,4 33 U43,44,45 I6 RE1,2 34 U16 I9 35 U19 IP IP IP IP IP IP U19 IP IP IP IP U19 IP IP IP U19 IP IP IP U19 IP IP U19 IP IP U19 IP IP U19 I	U1,3	6	U5,6,8,9	22		38		
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U11		-		11	420			
U18,19,32,33	U25	8	U39	24		40	,	
U18,19,32,33 13 R1 29 U20 14 R3,4,5,4,7 30 U15 15 31 U23,24 16 32 U17 17 RU 3,4 33 U43,44,45 18 RB 1,2 34 U16 19 35 SIZE CODE IDENT NO. DWG NO.	U25 U12	8 9	u3 9	24 25	62-4, 6-19, 21, 22, 24 34-42, 46, 47, 49,	40	,	
U2O 14 R3,4,5,6,7 30 U15 15 31 U23,24 16 32 U17 17 RU3,4 33 U43,44,45 18 R81, 2 34 U16 19 35 Decreon is the property of PLESSEY MEMORIES IN SIZE CODE IDENT NO. DWG NO.	U25 U12 U34, 36, 40, 47, 48, 49	8 9 IC	u 39	24 25 26	62-4, 6-19,21,22,24 34-42,46,47,49, 51,52	40 1-31 41	,	
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UI7 17 RU 3,4 33 U43,44,45 18 RH 1, 2 34 U16 19 35 Decreon is the property of PLESSEY MEMORIES IN SIZE CODE IDENT NO. DWG NO.	U25 U12 U34, 36, 40, 47, 48, 49 U11 U35 U18,19, 32, 33	8 9 1C 11 12 13	U39 R2 R1	24 25 26 27 28 29	62-4, 6-19,21,22,24 34-42,46,47,49, 51,52	40 1-31 41		
U43, 44, 45 (8 REL, 2 34 U16 19 35 Decreon is the property of PLESSEY MEMORIES IN SIZE CODE IDENT NO. DWG NO.	U12 U134, 36, 40, 47, 48, 49 U11 U35 U18, 19, 32, 33 U20	8 9 IC II IZ I3 I4	R2 R1 R3,4,5,4,7	24 25 26 27 28 29 30	62-4, 6-19,21,22,24 34-42,46,47,49, 51,52	40 1-31 41	,	
tile 19 35 hereon is the property of PLESSEY MEMORIES IN SIZE CODE IDENT NO. DWG NO.	U25 U12 U34, 36, 40, 47, 48, 49 U11 U35 U18, 19, 32, 33 U20 U15	8 9 IC II I2 I3 I4 I5	R2 R1 R3,4,5,4,7	24 25 26 27 28 29 30	62-4, 6-19,21,22,24 34-42,46,47,49, 51,52	40 1-31 41	,	
hereon is the property of PLESSEY MEMORIES IN SIZE CODE IDENT NO. DWG NO.	U12 U134, 36, 40, 47, 48, 49 U11 U35 U18, 19, 32, 33 U20 U15	8 9 IC II IZ I3 I4 I5 I6	R2 R1 R3,4,5,4,7	24 25 26 27 28 29 30 31	62-4, 6-19,21,22,24 34-42,46,47,49, 51,52	40 1-31 41		
Transmittal receipt or possession of the information	U125 U12 U34, 36, 40, 47, 48, 49 U11 U35 U18, 19, 32, 33 U20 U15 U23, 24 U17	8 9 IC II I2 I3 I4 I5 I6 I7	R2 R1 R3,4,5,4,7	24 25 26 27 28 29 30 31 32 33	62-4, 6-19,21,22,24 34-42,46,47,49, 51,52	40 1-31 41		
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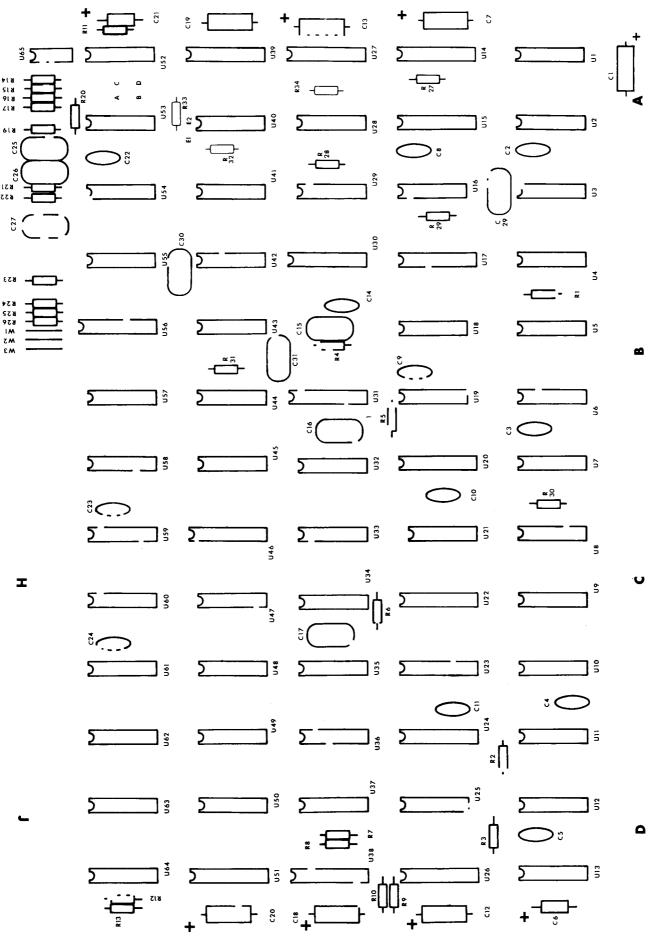
PARTS List		Plessey N		2648	8 PL	1006	47-	10	0	s	# <u>3</u>	•	MEY () A
	Q TY REQ0	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F 1 M N O. D	S Y H	C/1 C00£	C/I US INV ON HAMB	AGE A R	UNIT COST
	1	100646-001	P.W.B MASTER REGISTER	.				1	В				
								2					
								3				Π	
	6	SN 7400	QUAD 2-INPUT POS-NAND BUFF	ERS	T. I.	01295		4	A				
	2	5N7402	QUAD 2-INPUT POS-NOR GATE	=5	T. I.	01295		5	Δ		-	П	-
	2	SN7404	HEX INVERTER		T. I.	01295		6	A				
	ų	SN 7408	QUAD 2-INPUT POS-AND GAT	ES	T. I.	01295		7	Ą			П	
	1	SN74H10	TRIPLE 3-INPUT POS-NAND GAT	res	T. I.	01295		8	Α				
	1	SN74HII	TRIPLE 3-INPUT POS-AND GAT	ES	T. I.	01295		9	4			П	
	6	5N7438	GUAD 2-INPUT POS-NAND BUFFERS W/OPEN COLLECT	OR	T.I.	01295		0	A				
	1	SN 7440	DUAL 4-INPUT POS-NAND BUFFE	RS	T. I.	01295		11	Α				
	1	SN74H52	EXPANDABLE 4-WIDE AND-CR GATES		T. 1.	01295		12	A				
	4	SN 7474	DUAL D-TYPE POS- EDGE- TRIGGERED FLIP-FLOP		T. I.	01295		13	4				
PARTS	-	D1			O. PRINTE LIST MR.			_		_			10 (10
LIST		Plessey M		2648	PL	1006	47-	0	2	3	4	_	_
	OTY REQO	PART OR IDENTIFYING NO.	remoties incorbotated 2.	2648	PLT	CODE IDENT NO.	ZONE	V	S	C/I	C/I US	_	UNIT
LIST	077	7	Santa Ana, California	2648	PLT SPECIFICATION	CODE IDENT	ZONE	F 1 N N O.	SY	_	C/I US	_	_
LIST	077	PART OR IDENTIFYING NO.	Santa Ana, California 57 NOMENCLATURE OR DESCRIPTION DUAL D-TYPE POS-EDGE -	3 3	PLT PECIFICATION T. I.	CODE IDENT NO.	ZONE	F 1 N N O. D	s N A	_	C/I US	_	_
LIST	077	PART OR IDENTIFYING NO.	NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP	2648 STES	PLT PECIFICATION T. I. T. I.	CODE IDENT NO.	ZONE	F N 0.	A A	_	C/I US	_	_
LIST	QTY REQO	IDENTIFYING NO. SN74H74 SN7486 SN 7496	NOMENCLATURE OR DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FL:P-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA	2648 s	PLT PECIFICATION T. I. T. I. T. I.	CODE IDENT NO. DIZ95	ZONE	14	SYR A A	_	C/I US	_	_
LIST	QTY REQO	IDENTIFYING NO. SN74H74 SN7486 SN 7496	Santa Ana, California 57 NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. T. I. T. I.	CODE FOUNT NO. 21295 01295	ZONE	14	\$ A A A	_	C/I US	_	_
LIST	OTTY REQUO	10ENTIFYING NO. SN74H74 SN7486 SN7496 SN745139	Santa Ana, California 57 NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. T. I. T. I. T. I.	CODE 10ENT NO. 21295 21295 01295 01295	ZONE	14 15 16 17	SYK A A A A A	_	C/I US	_	_
LIST	OTY REGO	10ENTIFYING NO. 5N74H74 5N7486 5N7496 5N745139 5N74161	Santa Ana, California 57 NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR 4-BIT PARALLEL-ACCESS SHIFT REGISTERS	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. T. I. T. I. T. I. T. I.	CODE 10 CNT NO. 1295 01295 01295 01295 01295	ZONE	14 15 16 17 18	SYK A A A A A A	_	C/I US	_	_
LIST	OTY REGO	10ENTIFYING NO. 5N74H74 5N7486 5N745139 5N74161 5N74174	Santa Ana, California 57 NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR 4-BIT PARALLEL-ACCESS SHIFT REGISTERS DUAL PERIPHERAL POS-AND DRIVER	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. T. I. T. I. T. I. T. I. T. I.	CODE 10(NT NO.) 21295 21295 21295 21295 21295 21295	ZONE	14 15 16 17 18 19		_	C/I US	_	_
LIST	977V REQ0	10ENTIFYING NO. 5N74H74 5N74B6 5N745139 5N74161 5N74174 5N74179	Santa Ana, California 57 NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR 4-BIT PARALLEL-ACCESS SHIFT REGISTERS DUAL PERIPHERAL	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. CODE 10(NT NO.) 21295 21295 21295 21295 21295 21295	ZONE	14 15 16 17 18 19 20	SYE A A A A A A A	_	C/I US	_	_	
LIST	977V REQ0 1 2 1 3 1 3 2 4	10E PART OR 10. 10ENTIFYING NO. 5N74H74 5N74B6 5N745139 5N74161 5N74174 5N74179 5N75451	Santa Ana, California 57 NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR 4-BIT PARALLEL-ACCESS SHIFT REGISTERS DUAL PERIPHERAL POS-AND DRIVER DUAL PERIPHERAL	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. CODE 10(NT NO.) 21295 21295 21295 21295 21295 21295 21295	ZONE	14 15 16 17 18 19 20 21		_	C/I US	_	_	
LIST	977Y REGO 1 2 1 3 1 3 2 4 3	10E PART OR NO. 5N74H74 5N74B6 5N745139 5N74161 5N74174 5N74174 5N75451 5N75452	NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE-OR-GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR 4-BIT PARALLEL-ACCESS SHIFT REGISTERS DUAL PERIPHERAL POS-NAND DRIVER DUAL PERIPHERAL POS-NAND DRIVER	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. CODE 10(NT NO.) 21295 21295 21295 21295 21295 21295 21295	ZONE	14 15 16 17 18 19 20 21 22	SPE A A A A A A A B	_	C/I US	_	_	
LIST	977Y REGO 1 2 1 3 1 3 2 4 3	10E PART OR NO. 10ENTIFYING NO. 5N74H74 5N74B6 5N745139 5N74161 5N74174 5N74174 5N75451 5N75452 136021-380	NOMENCLATURE ON DESCRIPTION DUAL D-TYPE POS-EDGE- TRIGGERED FLIP-FLOP QUAD 2-INPUT EXCLUSIVE.OR.GA 5-BIT SHIFT REGISTERS DECODERS/DEMULTIPLEXERS SYNCRONOUS 4-BIT COUNTERS HEX/QUAD D-TYPE FLIP-FLOPS W/CLEAR 4-BIT PARALLEL-ACCESS SHIFT REGISTERS DUAL PERIPHERAL POS-AND DRIVER DUAL PERIPHERAL POS-NAND DRIVER QUAD 2-INPUT RECEIVER	3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PLT PECIFICATION T. I. CODE 10(NT NO.) 21295 21295 21295 21295 21295 21295 21295	ZONE	14 15 16 17 18 19 20 21 22 23	SPE A A A A A A A B	_	C/I US	_	_	

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	# 0 T E	SE OD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE EDENT NO.	ZONE	F N O.	SYM	C/I	INV CAI	SAGE P A R	TING T200	
								27				П		
		ı	RC07GF101J	RESISTOR, ICOAL ±5%, 1/4 WATT	MIL-R-II			28	G	1		\prod		•
		1	RC01GF100J	RESISTOR, IOA ±5%, 1/4 WATT	MIL-R-II			29	G		· · · ·	\prod		
	Π	5	RC07GF10ZJ	RESISTOR, IK ±5%, 1/4 WATT	MIL-R-II			30	G					
Γ								31						
								32						
		2	100013-011	RESISTOR MODULE ,390 A	CTS P/N 750-81-R390			33	В		-	П		
		2	100013-012	RESISTOR MODULE , 1801	CTS PIN 750-81-8180			34	В					
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V	LIS	OTY REQU	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	CODE IDENT NO.	47 - zone	_ 1	T		C/I US	AGE	UKIT COST	
p	LIS	1	PART OR IDENTIFYING NO.	Senta Ana, California 5264	8 PL7		ZONE	_ 1	S Y M		C/I US	SAGE	UKIT COST	
XZ	LIS	QTY REQO	PART OR IDENTIFYING NO. 4DISFD471JQ3 4C69B16Q E1Q3Z	Senta Ana, California 5264 NOMENCLATURE OR DESCRIPTION	SPECIFICATION CORNELL - DUBILIER	CODE IDENT NO.	ZONE	F IN NO. D	SYM A		C/I US	A R	TINU	
	LIS	QTY REQO	PART OR IDENTIFYING NO. CDISFD471JQ3 CO698160	Senta Ana, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V	SPECIFICATION CORNELL- DUBILIER SPRAGUE	CODE IDENT NO.	ZONE	F N N O. D	SYM A		C/I US	SAGE P A	UKIT	
	LIS	QTY REQO	PART OR IDENTIFYING NO. 4015FD471JQ3 4069B16Q E1Q3 Z 150D156	Senta Ana, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .Ol.u.f +80-20%, 16V	SPECIFICATION CORNELL- DUBILIER SPRAGUE	CODE IDENT NO. 93790	ZONE	F N 0.	SYM A		C/I US	P A R	UKIT	•
	LIS	QTY REQO	PART OR IDENTIFYING NO. 4015FD471JQ3 4069B16Q E1Q3 Z 150D156	Senta Ana, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .01 f +80-20%, 16V CAPACITOR, 15 f ±20%, 20V SOLDER	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571	CODE IDENT NO. 93790	ZONE	40 41 42	S A A A		C/I US	PAR	UKIT	
	LIS	0177 REQU	PART OR TOENTIFYING NO. CDISFD47IJQ3 CQ69BI6Q E1Q3 Z 15QD156 XQQ2QBZ	Sente And, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OIf +80-20%, 16V CAPACITOR, 15f ±20%, 20V	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE	CODE IDENT NO. 93790	ZONE	40 41 42 43	0 X X X X X		C/I US	P A R	UKIT COST	
	LIS	QTY REGO 1 41 9	PART OR IDENTIFYING NO. CDISFD47IJQ3 CQ69BI6Q EIQ3Z ISQDIS6 XQQ2QBZ SN63WRAP3	Senta Ana, Cabifornia 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OIf +80-20%, 16V CAPACITOR, 15f ±20%, 20V SOLDER	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 10ENT 1	ZONE	40 41 42 43	0 X X X X X		C/I US	SAGE PAR	URIT	
	LIS	QTY REGO 1 41 9	PART OR IDENTIFYING NO. CDISFD47IJQ3 CQ69BI6Q EIQ3Z ISQDIS6 XQQ2QBZ SN63WRAP3	Senta Ana, Cabifornia 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OIf +80-20%, 16V CAPACITOR, 15f ±20%, 20V SOLDER	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 10ENT 1	ZONE	40 41 42 43 44 45	0 X X X X X		C/I US	A A	UKIT CCST	
	LIS	QTY REGO 1 41 9	PART OR IDENTIFYING NO. CDISFD47IJQ3 CQ69BI6Q EIQ3Z ISQDIS6 XQQ2QBZ SN63WRAP3	Senta Ana, Cabifornia 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OIf +80-20%, 16V CAPACITOR, 15f ±20%, 20V SOLDER	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 10ENT 1	ZONE	41 42 43 44 45 46	0 X X X X X		C/I US	SAGE PA R	UKIT CCST	
	LIS	QTY REGO 1 41 9	PART OR IDENTIFYING NO. CDISFD47IJQ3 CQ69BI6Q EIQ3Z ISQDIS6 XQQ2QBZ SN63WRAP3	Senta Ana, Cabifornia 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OIf +80-20%, 16V CAPACITOR, 15f ±20%, 20V SOLDER	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 10ENT 1	ZONE	40 41 42 43 44 45 46 47	0 X X X X X		C/I US	SAGE PAR	UKIT CCST	
	LIS	QTY REGO 1 41 9 AR AR	PART OR IDENTIFYING NO. CDISFD47IJQ3 CO69BI6Q EIQ3Z ISODIS6 XQ02QBZ SN63WRAP3 5951	Sente And, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OI	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 1	ZONE	40 41 42 43 44 45 46 47 48	9 X A A A G A		C/I US	SAGE PA R	UKIT CCST	
	LIS	QTY REGO 1 41 9 AR AR REF	PART OR IDENTIFYING NO. CDISFD47IJQ3 CQ69BI6Q EIQ3Z ISQDIS6 XQQ2QBZ SN63WRAP3	Sente And, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OI	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 1	ZONE	4 41 42 43 44 45 46 47 48 49 50 51	0) E A A A G A		C/I US	SAGE PAR	UKIT CCST	
	LIS	QTY REGO 1 41 9 AR AR	PART OR IDENTIFYING NO. CDISFD47IJQ3 CO69BI6Q EIQ3Z ISODIS6 XQ02QBZ SN63WRAP3 5951	SOUTH AND CONTINUE SOUND SOLDER WIRE, INSUL., COLOR: OPTIONAL SCHEMATIC DIAGRAM MASTER REGISTER TEST SPECIFICATION MASTER REGISTER	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA WIRE	CODE 1DENT 193790 05571 05571	ZONE	40 41 42 43 44 45 46 47 48 49 50 51 52	0) E A A A G A		C/I US	A A	UKIT CCST	
Tormation her	LIS	OTY REGO 1 41 9 AR AR REF REF	PART OR TOENTIFYING NO. 4DISFD471JQ3 40698160 E103 Z 150D156 XQ0208Z SN63WRAP3 5951 SKSD700647 T5 700647	Sente And, California 5264 NOMENCLATURE OR DESCRIPTION CAPACITOR, 470 pf ±5%, 500V CAPACITOR, .OI F +80-20%, 16V CAPACITOR, 15 F ±20%, 20V SOLDER WIRE, 30 AWG SOLID, KYNAR WIRE, INSUL., COLOR; OPTIONAL SCHEMATIC DIAGRAM MASTER REGISTER TEST SPECIFICATION MASTER REGISTER SSEY MEMORIES IN- SIZE COD	SPECIFICATION CORNELL- DUBILIER SPRAGUE SPRAGUE QQ-S-571 AL PHA	CODE 1DENT 193790 05571 05571	ZONE	40 41 42 43 44 45 46 47 48 49 50 51 52 O.	WYE A A A G A	C/1 C000	C/1 US	A A	UKIT CCST	





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