

WANG

LABORATORIES INC.

CEMT

CONTROL NO.

FY87W37

DATE

02/25/87

TIME

N/A

| | | | |
|--|-------------|-----------------------------------|--|
| FROM T&D SUPPORT OPERATIONS | RDB 2988 | SHIP TO WANG LABORATORIES INC. | RDB 3966 |
| ORDERED BY C.S.O. TECH. DOCUMENTATION | RDB 3937 | ADDRESS VS NEW PRODUCTS | |
| 437 S. UNION ST. LAWRENCE, MA. | | ACCT. TYPE PUSH | BP. INST. FICHE/PAPER PUSH DISTRIBUTION |
| DEF. # | MODEL # | TRANS. CODE | TO PLACE ORDERS FOR C.S.O. TECHNICAL DOCUMENTATION CALL (617-794-6736) OR EXT. 46736 OR SEND YOUR WRITTEN ORDER TO - TDSO ORDER PROCESSING @ M/S 082-540 |
| SER. # | CUSTOMER | SHIP CODE B/W | |

| ITEM NO. | BIN LOC | PART NUMBER | DESCRIPTION | QTY. ORD. | U/M | TYPE | QTY. SHIP. |
|----------|--|-------------|---|-----------|-----|------|------------|
| 1 | MICROFICHE DOCUMENT CLASS CODE - 3000 | 742-1784 | TELEQUIP ACT I AUTO COIN TERMINAL NEW MANUAL: ADD TO LIBRARY | 5 | EA | MNL | 5 |
| 2 | MICROFICHE DOCUMENT CLASS CODE - 3000 | 742-1785 | PRINTER PRODUCTS TRANSACTION PTR NEW MANUAL: ADD TO LIBRARY | 5 | EA | MNL | 5 |
| 3 | MICROFICHE DOCUMENT CLASS CODE - 3112 | 742-1503-1 | NEC DISK DRIVE MODEL: D2257 PUB: REPLACE FICHE 1 & 2 | 5 | EA | PUB | 5 |
| 4 | MICROFICHE DOCUMENT CLASS CODE - 3318 | 742-1670-B | LIS SERVICE DATA & PARTS LIST REVISION: REPLACE ALL FICHE | 5 | EA | MNL | 5 |
| 5 | MICROFICHE DOCUMENT CLASS CODE - 3609 | 742-1773 | OPTICAL CHARACTER READER MODEL: 9616 NEW MANUAL: ADD TO LIBRARY | 5 | EA | MNL | 5 |
| 6 | MICROFICHE DOCUMENT CLASS CODE - 7401 | 742-1782 | CODEX 2205 DATA MODEM MODEL: 9634 NEW MANUAL: ADD TO LIBRARY | 5 | EA | MNL | 5 |

| | | | |
|------------|--------|-----------|--------------|
| PACKED BY | DATE | PACKED BY | DATE |
| SHIPPED BY | DATE | CARRIER | WAYBILL # |
| | | | # OF CARTONS |
| RECD BY | EMP. # | DATE | WEIGHT |

DATA PROCESSING COPY



WANG

**CUSTOMER SERVICE
DOCUMENTATION LISTINGS**



**Technical Publications
Customer Service
Product Maintenance Manual**

741-0000-B1



COMPANY CONFIDENTIAL

WANG

**CUSTOMER SERVICE
DOCUMENTATION LISTINGS
JANUARY 1988**

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**Technical Publications
Customer Service
Product Maintenance Manual**

741-0000-B1

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INTRODUCTION

INTRODUCTION

This catalog is intended to aid Wang customer service personnel in identifying the service documentation currently available for each Wang product. The documentation listed in this catalog is published by the Customer Service Documentation Group.

This catalog provides information in the following areas:

- Catalog availability
- Catalog updates
- Distribution registration postcards
 - Address Update Card
 - Microfiche/Handbook Distribution Registration Card
- Documentation
 - Part number conventions
 - Abbreviations and definitions
 - Color code explanation
- Ordering instructions
 - Documentation
 - Microfiche supplies
- Catalog listings

CATALOG AVAILABILITY

This catalog is available on both microfiche and paper. Microfiche is the primary medium used to provide you with updated editions of the catalog, and is available for general distribution. Paper copies of the catalog are intended for office use only and are not available for general distribution.

CATALOG UPDATES

This catalog will be updated regularly. The microfiche edition will be updated monthly and the printed edition quarterly.

When a documentation listing is changed, an updated microfiche card will be distributed. Destroy the old card and replace it with the new one.

DISTRIBUTION REGISTRATION POSTCARDS

Adding a New Location (RDB)

Two types of postcards must be completed to be included in the automatic "push" distribution of Customer Service documentation to your location. The cards to be completed are, an Address Update Card (741-6000-A) and a Microfiche/Handbook Distribution Registration Form (741-6001-B).

Address Update Card (741-6000-A)

Complete this postcard to add a new location (RDB), change an address, or delete an address from the customer service documentation distribution data base. Your location (RDB) will be added to our distribution list when the completed card is received. A confirmation will be sent to your office along with additional postcards for your future use.

| | |
|--|--|
| UPDATE CARD (Not To Be Used As An Order Form) NO POSTAGE NECESSARY IF MAILED IN THE U.S.A. | |
| ① RDB NUMBER: <u>3728</u> | ④ Please fill in each applicable line to show update information: <u>Kingston</u> |
| ② Type of Change (Check One) | Office Name: <u>Kingston</u> |
| <input type="checkbox"/> New (Add) | Suite No. (or Floor): <u>Suite 203</u> |
| <input checked="" type="checkbox"/> Change | Square or Plaza: <u>Westgate Square</u> |
| <input type="checkbox"/> Delete | Street No. & Name: <u>847 Princess Street</u> |
| | City: <u>Kingston</u> |
| | State or Province: <u>Ontario</u> |
| | ZIP Code: <u>KTL 1G9</u> |
| | Country: <u>Canada</u> |
| | Mailstop: _____ |
| ③ RDB Type (Check One) | Manager's Name: <u>G.J. Sirett</u> |
| <input type="checkbox"/> Region | ATTN of: <u>Bjorn Thomsen</u> |
| <input type="checkbox"/> District | (if documentation is to be shipped to anyone other than the manager) |
| <input type="checkbox"/> Branch | ⑤ Please fill in all applicable RDB#s if this is a new RDB entry into database |
| <input checked="" type="checkbox"/> Remote | Region RDB# = <u>3700</u> For example--If reporting addition of new District Office, identify both its RDB and also RDB of Region to which it reports, leaving "Branch RDB" blank. If adding new Branch Office, identify all associated RDB numbers (that Branch, its District, and its Region). |
| <input type="checkbox"/> RSC | District RDB# = <u>3735</u> |
| <input type="checkbox"/> Support | Branch RDB# = <u>3728</u> |
| | ⑥ Manager's Signature: <u>Intentionally Blank</u> |

741-6000-A Printed in U.S.A.

- | | |
|---------------------------|--|
| 1. RDB Number | Fill in your RDB. |
| 2. Type of Change | Check appropriate block. |
| 3. RDB Type | Check appropriate block. |
| 4. Name and Address | Fill in all applicable lines. Please include the word "Suite" or "Floor" if appropriate. |
| 5. Applicable RDB Numbers | Fill in this section only if this is a new data base entry. |
| 6. Manager's Signature | Obtain your manager's signature and mail this card. |

Microfiche/Handbook Distribution Registration Form (741-6001-B)

Complete this postcard to add a new location (RDB) to the distribution list, change documentation quantity, or delete a location (RDB) from the list. The distribution information for your location will be updated when the completed card is received. A confirmation will be sent to your office along with additional postcards for your future use.

Customer Services Operations — Technical Documentation
MICROFICHE/HANDBOOK DISTRIBUTION REGISTRATION FORM No Postage Necessary If Mailed In U.S.A.

If you are **NOT** presently receiving CSO Technical Documentation on microfiche or handbooks at your location, complete and return an ADDRESS UPDATE card (Part Number 741-6000-A) **in addition to** this REGISTRATION FORM card.

① Type of Change (Check One) New (Add) Change Delete

② Date: 3 / 31 / 87

③ RDB Number: 3657 ④ Number of Personnel at your address: 8 plus library

⑤ Enter the number of copies of documentation on microfiche and handbooks (e.g., Service, Diagnostic, etc.) to be push-distributed to your location for **each** of the following major Class Code categories:

| | Micro- fiche | Hand- books | | Micro- fiche | Hand- books |
|--------------------------|-----------------|----------------|------------------------|-----------------|----------------|
| 1000 — General | <u>1</u> | <u>1</u> | 5000 — WP/OIS Systems | <u>8</u> | <u>8</u> |
| 2000 — Test Equipment . | <u>1</u> | <u>1</u> | 6000 — VS Systems | <u>6</u> | <u>6</u> |
| 3000 — Peripherals | <u>9</u> | <u>9</u> | 7000 — Communications | <u>9</u> | <u>9</u> |
| 4000 — 2200 Systems .. | <u>6</u> | <u>6</u> | 8000 — PC/WOA | <u>9</u> | <u>9</u> |

Manager's Signature: Intentionally Blank

741-6001-B Printed in U.S.A.

- | | |
|---|--|
| <p>1. Type of Change</p> <p>2. Date</p> <p>3. RDB Number</p> <p>4. Number of Personnel at your Address</p> <p>5. Number of Copies</p> | <p>Check the appropriate block.</p> <p>Fill in today's date.</p> <p>Fill in your RDB.</p> <p>Fill in the number of people.</p> <p>Fill in the number of copies of each type of document.</p> |
|---|--|

Changing an Address or Documentation Quantity

When requesting a change please use the RDB number listed on the customer engineering material transfer (CEMT) form printout that is included with each Customer Service documentation distribution. Some locations have a suffix at the end of the RDB number. The suffix is used when shipping documentation to more than one location (address) that is part of the same RDB (cost center). A remote site or district support personnel located at a branch office are examples.

Example of RDBs with Suffix

3886-1 3540-1

Confirmation

Once your request is received, a confirmation will be sent to you listing the types and quantities of documentation you will be receiving and the address we currently have for your location. You should normally receive a confirmation printout within 10 days if your change request was submitted by mail. If you have not received your confirmation within 15 days, please check with us to identify the problem. Call the number listed in Documentation under ORDERING INSTRUCTIONS below.

DOCUMENTATION

Part Number Conventions

There are two part number series assigned to customer service documentation, "741" and "742". The "741" series is on paper. The "742" series is the identical documentation on microfiche.

A "729" series is still used for older documents. The "729" series is being phased out and converted to the "741" series. Conversion occurs when a new edition of the document is published.

Conventions and their explanations are summarized below.

| Convention | Explanation |
|--------------------------|---|
| 742-XXXX | Numbers with "742" Prefixes -- Use these numbers to order microfiche documentation. |
| 741-XXXX 729-XXXX | Numbers with "741" or "729" Prefixes -- Use these numbers to order paper (hard-copy) documentation. (The "729" part number is converted to a "741" part number when a new edition of the document is published.) |
| 741-XXXX-1 | Hard-Copy Publication Update Bulletin (PUB) -- A PUB is designated by a -1, -2, -3, etc, suffix at the end of the part number. A PUB is a change page update to a document. |
| 742-XXXX-1 | Microfiche Publication Update Bulletin (PUB) -- A PUB on microfiche is designated by the prefix "742" and by the -1, -2, -3, etc, at the end of the part number. A microfiche PUB is a change page update that involves removing and replacing fiche cards. |
| 741-XXXX-A 729-XXXX-A | Hard-Copy Revision -- A new edition of a paper document is designated by an -A, -B, -C, etc, suffix at the end of the part number. |
| 742-XXXX-A | Microfiche Revision -- A new edition of a microfiche document is designated by the prefix "742" and by an -A, -B, -C, etc, suffix at the end of the part number. |

Abbreviation & Definitions

The following abbreviations for document types are used in the listings section of this catalog.

Abbreviations and Definitions

| Abbreviation | Definition |
|---------------------------|------------|
| <u>General</u> CAT | Catalog |

(continued)

Abbreviations and Definitions (continued)

| Abbreviation | Definition |
|-----------------------------|--|
| <u>Manuals</u> | |
| MNL | Product maintenance manual |
| SIM | Software internals manual |
| SRM | Software reference manual |
| PUB | Publications Update Bulletin -- Update to either a hardware or software manual |
| <u>Service Handbooks</u> | |
| SHB | Service handbook |
| SHBP | Service Handbook PUB -- Update to a service handbook |
| <u>Diagnostic Handbooks</u> | |
| DHB | Diagnostic handbook |
| DHBP | Diagnostic Handbook PUB -- Update to a diagnostic handbook |
| <u>Software Guides</u> | |
| SFG | Software field guide |
| SFGP | Software Field Guide PUB -- Update to a software field guide |
| <u>Obsolete Categories</u> | |
| CSNL | Computer systems newsletter |
| FLMG | Field level maintenance guide |
| GDE | Guide |
| ISN | Immediate service notice |
| PSN | Product service notice |
| SB | Software bulletin |
| SN | Service notice |
| WPNL | Word processing newsletter |

Color Code Explanation

The title strip of each microfiche card and the cover of each hard-copy document are color coded according to major product categories. A list of the color codes used, and the categories they represent, follows.

| Color | Category |
|--------|---|
| White | General information |
| Beige | Test equipment |
| Orange | Peripherals |
| Yellow | 2200 computer systems |
| Green | WP -- Word processing systems OIS -- Office information systems |
| Blue | VS computer systems |
| Red | Telecommunications Data communications Networking Voice/PBX products |
| Brown | Professional computer series Desktop systems |

ORDERING INSTRUCTIONS

Documentation

Customer service documentation listed in this catalog can be ordered through Customer Service Documentation (CSD). CSD part numbers contain one of the following prefixes, "741", "742", or "729".

CSD will accept orders for documentation either in written form or over the telephone. Documentation can only be shipped to a valid RDB (cost center) address.

IMPORTANT: In all your correspondence, use the RDB number listed on the CEMT form. The form is included with all documentation distributions shipped by CSD. Some locations have an RDB number with a suffix. Please be sure to include the suffix, for example 9911-1

Send written orders to the following address:

Wang Laboratories, Inc.
Customer Service Documentation
437 South Union Street
Lawrence, MA 01843
M/S 082-370
Attention: Order Processing

To place telephone orders call:

- 1-617-794-6016 (Direct Inward Dial), or
- Extension 46016 (Lawrence)

Microfiche Supplies

Microfiche Portable Viewers and Microfiche V-Files

Send an approved customer engineering material transfer (CEMT) form to:

Wang Laboratories, Inc.
Customer Service Documentation
Micrographics Production
437 South Union Street
Lawrence, MA 01843
M/S 082-480

Microfiche Office Readers

Order readers and repair parts by purchase order directly from:

Micro Design
857 West State Street
Hartford, WI 53027-9985
Attn: Don Batchelder
(800-558-1703 or 414-673-3920)

Specifications are:

- Micro Design Model 895
- Price, \$205.00
- Single, self-opening carrier that accepts a 105 mm X 148 mm microfiche
- Dual lens, 24X and 42X "blowback" (enlargement) to 100%
- Wang-style, gray non-glare screen (11 in. X 14 in.)
- Line finder (located in lower part of screen)
- Microfiche index grids for 24X and 42X
- Spare lamp and holder.

Microfiche File System Trays

Order by purchase order directly from:

Blake and Rebhan Co.
420 D Street
Boston MA 02210
Attn: Richard Yanco
(617-426-2283)

Specifications are:

- Fellowes Manufacturing Fiche Systems Tray
- #80900
- Price, \$16.20
- With dividers and labels only.

CATALOG LISTINGS

New/Updated and Obsoleted Documents

This section provides two listings. The New/Updated Documents listing provides a list of those documents added since the last edition. The Documents Obsoleted listing provides a list of those documents that have been removed from the listings since the last edition of the catalog, and the part number of the document that replaces it.

Numeric by Part Number, with Abstract

This section lists documentation sorted by document part number and includes a brief description of the document's content.

Product Family/Type

This section lists documentation sorted first by product family (printers, VS, Wangnet, etc), then by product type (matrix, laser, etc).

Title

This section lists documentation sorted alphabetically by document title.

Color/Part Number

This section lists documentation sorted first by color code (white, general information; beige, test equipment; etc), then by part number.

Service Handbooks

This section lists service handbooks (SHB) and service handbook publication update bulletins (SHBP) sorted first by product family (printers, VS, Wangnet, etc), then by product type (matrix, laser, etc).

Diagnostic Handbooks

This section lists diagnostic handbooks (DHB) and diagnostic handbook publication update bulletins (DHBP) sorted first by product family (printers, VS, Wangnet, etc), then by product type (matrix, laser, etc).

Software Reference

This section lists software field guides, software internals manuals, and software reference manuals sorted by product family (printers, VS, Wangnet, etc), then by product type (matrix, laser, etc).

NEW/UPDATED DOCUMENTS

NEW/UPDATED DOCUMENTS SINCE 12/16/87

DOCUMENTS = 11

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|------------------------------|--|----------------------------|--------------------|------|
| 802.3, VS INTERFACE | 802.3 VS INTERFACE AVAILABLE AS OF: 01/11/88 | 742-1794 741-1794 | RED 01/11/88 | MNL |
| CONDITIONER, POWER LINE | 9618, 9619 MICROPOWER II POWER LINE CONDITIONER AVAILABLE AS OF: 01/07/88 | 742-1822 741-1822 | WHITE 01/07/88 | MNL |
| DISK DRIVE, SMD | 2265-V2, 6565 CDC BK6XX, BK7XX SMD DISK DRIVE AVAILABLE AS OF: 01/11/88 | 742-0222-A 741-0222-A | ORANGE 01/11/88 | MNL |
| PRINTER, DAISY | 6581 DAISY PRINTER AVAILABLE AS OF: 01/07/88 | FICHE N/A 741-1654 | ORANGE 01/07/88 | SHB |
| PRINTER, MATRIX | PM060, 557B JUKI 7100 COLOR MATRIX PRINTER AVAILABLE AS OF: 01/07/88 | 742-1823 741-1823 | ORANGE 01/07/88 | MNL |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM AVAILABLE AS OF: 01/07/88 | 742-1705-2 741-1705-2 | BLUE 01/07/88 | PUB |
| SYSTEM, INTEGRATED IMAGE | WANG INTEGRATED IMAGE SYSTEM AVAILABLE AS OF: 01/11/88 | 742-1801 741-1801 | BLUE 01/11/88 | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM AVAILABLE AS OF: 01/11/88 | 742-0664-1 741-0664-1 | GREEN 01/11/88 | PUB |
| SYSTEM, OFFICE INFORMATION | OIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM AVAILABLE AS OF: 01/07/88 | 742-1267-B1 741-1267-B1 | GREEN 01/07/88 | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM AVAILABLE AS OF: 01/07/88 | 742-1676-4 741-1676-4 | BROWN 01/07/88 | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER PC 240 AVAILABLE AS OF: 12/17/87 | 742-1808 741-1808 | BROWN 12/17/87 | MNL |

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NEW - 1
END

OBSOLETE DOCUMENTS

DOCUMENTS OBSOLETE D SINCE 12/16/87

DOCUMENTS = 3

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|-------------|---|----------------------|--------------------|------|
| DISK DRIVE, | SMD | CDC BK4XX/BK5XX SMD DISK DRIVE INSTALLATION/ MAINTENANCE/PARTS/SCHEMATICS/WIRING REPLACED BY: 741/742-1815 & 1816 | 742-0210 741-0210 | ORANGE 12/16/87 | MNL |
| DISK DRIVE, | SMD | CDC BK6XX/BK7XX SMD DISK DRIVE DESCRIPTION/ THEORY/CIRCUITS REPLACED BY: 741/742-0222-A | 742-0222 741-0222 | ORANGE 01/11/88 | MNL |
| TAPE DRIVE, | TRI DENSITY | 2248V-1 9087 TRI DENSITY TAPE DRIVE REPLACED BY: 741/742-1799-A | 742-1799 741-1799 | ORANGE 12/17/87 | MNL |

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OBS - 1
END

PART NUMBER - NUMERIC LISTING

DOCUMENTATION LISTED BY PART NUMBER

DOCUMENTS = 380

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------|--|---------------------------|--------|------|
| CATALOG, | LISTINGS | <u>CUSTOMER SERVICE DOCUMENTATION LISTINGS</u> CONTAINS LISTINGS BY PART NUMBER, TITLE, PRODUCT/TYPE, ETC OF THE DOCUMENTATION PRODUCED BY CUSTOMER SERVICE DOCUMENTATION. | 742-0000-A 741-0000-A | WHITE | CAT |
| DISK DRIVE, | SMD | <u>CDC BK4XX/BK5XX SMD DISK DRIVE DESCRIPTION/ OPERATION/THEORY/CIRCUITS</u> PROVIDES A GENERAL DISCRIPTION, OPERATING INSTRUCTIONS, THEORY OF OPERATION, AND DISCRETE COMPONENT CIRCUIT INFORMATION. | 742-0209-A 741-0209-A | ORANGE | MNL |
| DISK DRIVE, | SMD | <u>CDC BK5XX/BK7XX SMD DISK DRIVE OPERATION/ TROUBLESHOOTING/REPAIR</u> CONTAINS INTRODUCTION, OPERATION, INSTALLATION AND CHECKOUT, MAINTENANCE, ADJUSTMENTS, AND TROUBLESHOOTING. | 742-0211-A 741-0211-A | ORANGE | MNL |
| DISK DRIVE, | SMD | <u>CDC BK6XX/BK7XX SMD DISK DRIVE INSTALLATION/ MAINTENANCE/PARTS/WIRE LISTS</u> PROVIDES INSTALLATION AND CHECKOUT, MAINTENANCE LOGIC/WIRING DIAGRAMS, WIRE LISTS, AND PARTS DATA. | 742-0221 729-0221-A | ORANGE | MNL |
| DISK DRIVE, | SMD | <u>CDC BK6XX/BK7XX SMD DISK DRIVE</u> CORRECTS ERRONEOUS CALLOUT OF T1 AND T2 ON PAGE 225. | 742-0221-1 729-0221-A1 | ORANGE | PUB |
| DISK DRIVE, | SMD | <u>2265-V2, 6565 CDC BK6XX, BK7XX SMD DISK DRIVE</u> PROVIDES GENERAL DESCRIPTION, OPERATION, THEORY OF OPERATION, AND DISCRETE COMPONENT CIRCUITS. | 742-0222-A 741-0222-A | ORANGE | MNL |
| TAPE DRIVE, | MAGNETIC | <u>KENNEDY 9100 MAGNETIC TAPE DRIVE MAINTENANCE</u> PROVIDES A DESCRIPTION, INSTALLATION, THEORY OF OPERATION, MAINTENANCE, PARTS IDENTIFICATION, AND WIRING/SCHEMATIC DIAGRAMS. | 742-0249 PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | <u>KENNEDY 9219 MAGNETIC TAPE FORMATTER MAINTENANCE</u> DESCRIBES CHARACTERISTICS, THEORY OF OPERATION, MAINTENANCE PROCEDURES AND SCHEMATICS. | 742-0250-A PAPER N/A | ORANGE | MNL |
| PRINTER, | DAISY | <u>2281W/WC, 5541W/WC, 6581W/WC/WC1 DAISY PRINTER</u> PROVIDES INSTALLATION, OPERATION, THEORY OF OPERATION, ADJUSTMENT, PREVENTIVE MAINTENANCE, SCHEMATICS AND DIAGRAMS. | 742-0372 741-0372 | ORANGE | MNL |
| PRINTER, | BAND | <u>5573/5574/2273-1-2/2273V-1 DATAPRODUCTS 300/ 600 LPM BAND PRINTER MAINTENANCE</u> CONTAINS GENERAL DESCRIPTION, THEORY OF OPERATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-0432 741-0432 | ORANGE | MNL |

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DOCUMENTATION LISTED BY PART NUMBER

DOCUMENTS = 380

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|------------|--|---------------------------|--------|------|
| PRINTER, | BAND | <u>2273V-1/2273-1/5573/5573-1 DATAPRODUCTS 300/600 LPM BAND PRINTER MAINTENANCE VOLUME 1</u> CONTAINS GENERAL INFORMATION, INSTALLATION, INTERFACES, CONFIGURATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-0434-A 741-0434-A | ORANGE | MNL |
| PRINTER, | BAND | <u>2273/2273V/2273-1/2273V-1/2273-2/5573/5574 DATAPRODUCTS BAND PRINTER NOTES</u> CONTAINS INFORMATION ON CIRCUIT BOARDS, HAMMER PROCEDURES AND PAPER STATIC ELIMINATION. | 742-0438 741-0438 | ORANGE | MNL |
| PHOTOTYPESETTER, | | <u>44, 48 PHOTOTYPESETTER</u> PROVIDES INSTALLATION, THEORY OF OPERATION, DIAGNOSTIC, ADJUSTMENT, AND PREVENTIVE MAINTENANCE. | 742-0465 729-0465 | ORANGE | MNL |
| PHOTOTYPESETTER, | | <u>44, 48 PHOTOTYPESETTER</u> UPDATES ELECTRICAL, OPTICAL, AND MECHANICAL ADJUSTMENTS FOR INTERFACE BOARD 210-7527. | 742-0465-1 PAPER N/A | ORANGE | PUB |
| TERMINAL, | 2200 | <u>2236 DE TERMINAL</u> PROVIDES NECESSARY INFORMATION TO UNPACK, INSTALL, OPERATE, ALIGN ADJUST, REPLACE/REMOVE AND REPAIR. | 742-0476 741-0476 | ORANGE | MNL |
| WORKSTATION, | WP/OIS | <u>ERGO 1 WP/OIS WORKSTATION</u> PROVIDES DETAILED INSTALLATION, MAINTENANCE AND OPERATION DATA. | 742-0494 PAPER N/A | ORANGE | MNL |
| WORKSTATION, | OIS | <u>5536 WORKSTATION</u> CONTAINS THEORY OF OPERATION, OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, AND TROUBLESHOOTING. | 742-0522 741-0522 | ORANGE | MNL |
| FEEDER, | TWIN SHEET | <u>TWIN SHEET FEEDER 01/03/05/06/11/13/20/21/22/23/31/33/41/43/51/53/61</u> PROVIDES OPERATION, TROUBLESHOOTING, AND REPAIR. | 742-0549-A 741-0549-A | ORANGE | MNL |
| SYSTEM, | COMPUTER | <u>2200 MVP COMPUTER SYSTEM</u> PROVIDES A SOURCE DOCUMENT FOR ALL 2200 MVP SYSTEM LEVEL MAINTENANCE. | 742-0584 729-0584-A | YELLOW | MNL |
| SYSTEM, | COMPUTER | <u>2200 MVP COMPUTER SYSTEM</u> DESCRIBES THE VLSI VERSION AND COVERS ALL SYSTEM DIFFERENCES. | 742-0584-1 729-0584-A1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | <u>2200 MVP COMPUTER SYSTEM</u> PROVIDES INSTALLATION, CHECKOUT, TROUBLESHOOTING, FOR 2275 MULTIPLEXER. | 742-0584-2 729-0584-A2 | YELLOW | PUB |

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|----------------------------------|--|--------------------------|--------|------|
| SYSTEM, COMPUTER | <u>2200 LVP COMPUTER SYSTEM</u> CONTAINS UNPACKING AND INSTALLATION, THEORY OF OPERATION, DIAGNOSTICS, TROUBLESHOOTING, AND REMOVAL/REPLACEMENT OF MAJOR SUBASSEMBLIES. | 742-0602 741-0602 | YELLOW | MNL |
| SYSTEM, COMPUTER | <u>2200 LVP COMPUTER SYSTEM</u> ADDS DESCRIPTION, INSTALLATION, CHECKOUT, TROUBLESHOOTING, FOR THE 2275 MULTIPLEXER. | 742-0602-1 741-0602-1 | YELLOW | PUB |
| SYSTEM, OFFICE INFORMATION | <u>OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM</u> PROVIDES INSTRUCTIONS TO INSTALL, OPERATE, TROUBLESHOOT, AND REPAIR. | 742-0664 741-0664 | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | <u>OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM</u> DESCRIBES UNBUNDLING. | 742-0664-1 741-0664-1 | GREEN | PUB |
| SYSTEM, WORD PROCESSING | <u>WP SYSTEM 5</u> DESCRIBES DIAGNOSTIC PROGRAMS AND ROUTINES. | 742-0677 PAPER N/A | GREEN | HPNL |
| CONTROLLER, BINARY SYNC. TELECOM | <u>OIS 5528 BINARY SYNC. TELECOMMUNICATIONS CONTROLLER</u> PROVIDES INFORMATION FOR THE INSTALLATION, SOFTWARE, DIAGNOSTICS AND SCHEMATICS. | 742-0681 PAPER N/A | RED | MNL |
| CONTROLLER, ASYNC. TELECOMMUNICA | <u>OIS 5594-4 ASYNC. TELECOMMUNICATIONS CONTROLLER</u> DESCRIBES FEATURES, INSTALLATION, SOFTWARE, DIAGNOSTICS AND SCHEMATICS. | 742-0682 PAPER N/A | RED | MNL |
| SYSTEM, COMPUTER | <u>VS 60, 80 COMPUTER SYSTEM VOL 1 - INTRODUCTION</u> AN IN-DEPTH INTRODUCTION TO THE VS OPERATING SYSTEM. | 742-0714 741-0714 | BLUE | MNL |
| SYSTEM, COMPUTER | <u>VS 60, 80 COMPUTER SYSTEM VOL 2 - INSTALLATION</u> PROVIDES INFORMATION ON THE INSTALLATION OF VS 60/80 SYSTEMS AND ASSOCIATED PERIPHERALS. | 742-0715 PAPER N/A | BLUE | MNL |
| SYSTEM, COMPUTER | <u>VS 80 COMPUTER SYSTEM REFERENCE SUMMARY</u> GIVES CONCISE INFORMATION ABOUT SWITCH SETTINGS PART NUMBERS, CABLING, ERROR CODES AND BOARD FUNCTIONS. | FICHE N/A 741-0716 | BLUE | GDE |
| SYSTEM, COMPUTER | <u>VS COMPUTER SYSTEM I/O STRUCTURE & IOP MOTHERBOARD</u> EXPLAINS THE I/O SUBSYSTEM IN INTERMEDIATE AND LARGE VS SYSTEMS, AND THE PROTOCOL USED IN COMMUNICATIONS BETWEEN THE CP AND I/O DEVICES AS WELL AS AN OVERVIEW OF THE HARDWARE. | 742-0824 741-0824 | BLUE | MNL |

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|---------------------|--------------------|--|--------------------------|---------------|
| SYSTEM, | WORD PROCESSING | <u>WP SYSTEM 10, 20, 30 PRELIMINARY - VOL 2</u> PROVIDES PRELIMINARY MAINTENANCE, EXPLODED DRAWINGS, SUBASSEMBLY BOMS, SCHEMATICS AND CABLE ASSEMBLY DRAWINGS. | 742-0831 PAPER N/A | GREEN MNL |
| CONTROLLER, | TELECOMMUNICATIONS | <u>2200 2228D TELECOMMUNICATIONS CONTROLLER</u> PROVIDES INFORMATION FOR INSTALLING, OPERATING AND TROUBLESHOOTING. | 742-0858 PAPER N/A | RED MNL |
| PRINTER, | MATRIX | <u>2233, 2235, 5533, 5535 MATRIX PRINTER</u> PROVIDES PROCEDURES TO UNPACK, INSTALL AND MAINTAIN, SWITCH SETTINGS TO ENABLE/DISABLE PITCH SETTINGS AND OPERATING SPEEDS. | 742-0859 741-0859 | ORANGE MNL |
| SOFTWARE, | ELECTRONIC MAIL | <u>MAILWAY INSTALLATION</u> CONTAINS INFORMATION FOR INSTALLATION AND CHECKOUT. | 742-0861 PAPER N/A | WHITE PSN |
| DISKETTE DRIVE, | FLOPPY | <u>SHUGART SA-850/851 FLOPPY DISKETTE DRIVE SERVICE</u> DESCRIBES THEORY OF OPERATION, GENERAL OPERATIONS, MAINTENANCE AND PREVENTIVE MAINTENANCE, SPECIAL TOOLS AND DIAGNOSTIC TECHNIQUES. | 742-0862 PAPER N/A | ORANGE MNL |
| SYSTEM, | WORD PROCESSING | <u>WANGWRITER 5503, 5504, 5524, 5703, 5704, 5724</u> | 742-0863 PAPER N/A | GREEN MNL |
| WORKSTATION, | ARCHIVING | <u>2266C-1, 2266S-1-2-3, 2276C-1-3, AHS-1-4, 5740 ARCHIVING WORKSTATION</u> CONTAINS UPDATED INFORMATION PERTAINING TO ALL PREVIOUS MODELS OF THE WORKSTATION PLUS NEW INFORMATION ON THE 5740. | 742-0865-A 741-0865-A | ORANGE MNL |
| SYSTEM, | COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> PROVIDES INSTALLATION, MAINTENANCE, DIAGNOSTICS, AND AN IPB. | 742-0871 741-0871 | BLUE MNL |
| SYSTEM, | COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> CORRECTS ERRORS. | 742-0871-1 741-0871-1 | BLUE PUB |
| SYSTEM, | COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> DESCRIBES THE ASYNC CONTROLLER INCLUDING INSTALLATION, MAINTENANCE, TROUBLESHOOTING, AND THEORY OF OPERATION. | 742-0871-2 741-0871-2 | BLUE PUB |
| SYSTEM, | COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> DESCRIBES AND ILLUSTRATES THE NEW I/O REAR PANEL CONNECTOR PLATES. | 741-0871-3 741-0871-3 | BLUE PUB |

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|--------------------------------|--|--------------------------|--------|------|
| SYSTEM, COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> ADDS APPENDIX L, A DESCRIPTION OF THE CDC VIRTUAL MACHINE OPTION. | 742-0871-4 741-0871-4 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> ADDS APPENDIX M, A DESCRIPTION OF THE 4 MEG MAIN MEMORY, AND APPENDIX N, A DESCRIPTION OF THE 32 PORT SERIAL CONTROLLER. | 742-0871-5 741-0871-5 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> PROVIDES REFERENCES TO THE APPROPRIATE PRODUCT MAINTENANCE MANUALS FOR INSTALLATION AND INTERCONNECTION OF THE FIBERWAY ACTIVE PORT ASSEMBLY. | 742-0871-6 741-0871-6 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 100 COMPUTER SYSTEM</u> ADDS APPENDIX O, FOR THE MULTILINE TELECOMMUNICATIONS CONTROLLER. | 742-0871-7 741-0871-7 | BLUE | PUB |
| FEEDER, ENVELOPE | <u>ENVELOPE FEEDER EF-1,2,3,11,12</u> PROVIDES DESCRIPTION, INSTALLATION, OPERATION MAINTENANCE AND SCHEMATICS. | 742-0873 PAPER N/A | ORANGE | MNL |
| INPUT/OUTPUT PROCESS, DISK | <u>22V18 DISK INPUT/OUTPUT PROCESSOR (IOP)</u> DESCRIBES THE NEW 22V18 DISK IOP. | 742-0883 PAPER N/A | BLUE | PSN |
| DISK DRIVE, CARTRIDGE | <u>CDC 9427H CARTRIDGE DISK DRIVE</u> PROVIDES DETAILED INSTALLATION, OPERATION AND MAINTENANCE PROCEDURES. | 742-0884 PAPER N/A | ORANGE | MNL |
| SYSTEM, OFFICE INFORMATION | <u>OIS OFFICE INFORMATION SYSTEM</u> INCLUDES DESCRIPTION, INSTALLATION, OPERATION, THEORY OF OPERATION, MAINTENANCE, REPAIR, TROUBLESHOOTING, UPDATING PROCEDURES, IPB AND SCHEMATICS. | 742-0886 729-0886-A | GREEN | MNL |
| CONTROLLER, TELECOMMUNICATIONS | <u>TCB-1/DLP-64/128 TELECOMMUNICATIONS CONTROLLER</u> CONTAINS PROCEDURES TO UNPACK, INSTALL, MAINTAIN, ENABLE DIAGNOSTIC TESTING AND A FUNCTIONAL DESCRIPTION. | 742-0887 729-0887-B | RED | MNL |
| DISK DRIVE, WINCHESTER | <u>SHUGART SA-1000 WINCHESTER DISK DRIVE</u> PROVIDES THEORY OF OPERATION, INSTALLATION PROCEDURES AND OPERATING PRECAUTIONS. | 742-0898 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, FIXED | <u>DIABLO 40/43 FIXED DISK DRIVE PARTS LIST</u> PROVIDES AN ILLUSTRATED PARTS LISTING. | 742-0899 PAPER N/A | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|--|--|--------------------------|--------|------|
| TERMINAL, INTERGRATED | <u>2236W INTERGRATED TERMINAL</u> PROVIDES UNPACKING, OPERATION, INSTALLATION, TROUBLESHOOTING AND REPAIR. | 742-0903 PAPER N/A | ORANGE | MNL |
| INTERFACE, DISK MULTIPLEXER | <u>2280 DISK MULTIPLEXER I/O INTERFACE</u> DESCRIBES PHYSICAL CHARACTERISTICS, INSTALLATION, DIAGNOSTICS, TROUBLESHOOTING AND HARDWARE THEORY OF OPERATION. | 742-0904 PAPER N/A | YELLOW | PSN |
| CONTROLLER, WANG INTER-SYSTEM EX | <u>WISE 6550-1 WANG INTER-SYSTEM EXCHANGE CONTROLLER</u> DESCRIBES INSTALLATION MAINTENANCE AND TROUBLESHOOTING. | 742-0906 741-0906 | ORANGE | MNL |
| WRKSTATION, VS/OIS | <u>ERGO 2 59XX WRKSTATION</u> PROVIDES INFORMATION NECESSARY TO UNPACK, INSTALL, ALIGN, ADJUST AND REPAIR. | 742-0920-A 741-0920-A | ORANGE | MNL |
| INPUT/OUTPUT PROCESS, WORKSTATION/PRINTER/ | <u>VS 22V17 WORKSTATION/PRINTER/ARCHIVER INPUT/OUTPUT PROCESSOR (IOP)</u> PROVIDES DESCRIPTION, SWITCH SETTINGS, PROM LOADINGS, INSTALLATION, DIAGNOSTICS, TROUBLESHOOTING, AND THEORY OF OPERATION. | 742-0932 PAPER N/A | BLUE | PSN |
| SYSTEM, COMPUTER | <u>2200 SVP COMPUTER SYSTEM</u> PROVIDES INFORMATION NEEDED TO UNPACK, INSTALL, OPERATE AND MAINTAIN. | 742-0935 729-0935-A | YELLOW | MNL |
| TAPE DRIVE, MAGNETIC | <u>6509 NINE-TRACK MAGNETIC TAPE DRIVE</u> DESCRIBES THE CONFIGURATION AS A SLAVE PROCESSOR ON THE OIS PRODUCT LINE. | 742-0959 PAPER N/A | ORANGE | MNL |
| CATALOG, TOOL/TEST EQUIP. | <u>TOOL AND TEST EQUIPMENT CATALOG</u> CONTAINS ALPHABETICAL LISTINGS, PART NUMBERS, AND LINE-ART ILLUSTRATIONS AND/OR PHOTOGRAPHS OF TOOLS AND TEST EQUIPMENT. | 742-0960 PAPER N/A | WHITE | CAT |
| DISKETTE DRIVE, FLOPPY | <u>SHUGART SA-851 FLOPPY DISKETTE DRIVE ADJUSTMENTS</u> PROVIDES INSTRUCTIONS FOR PERFORMING ADJUSTMENTS TO DRIVES INSTALLED IN VS/AWS SYSTEMS INDEX/SECTOR HEAD RADIAL AND TRACK 00 DETECTOR, REQUIRED EQUIPMENT AND ACCESSORIES ARE LISTED. | 742-0967 PAPER N/A | ORANGE | PSN |
| PROCESSING UNIT, DISK | <u>2280 DISK PROCESSING UNIT</u> INCLUDES A GENERAL DESCRIPTION, INSTALLATION, OPERATION, MAINTENANCE, THEORY OF OPERATION, DISK ERROR CODES, DISK SECTOR LAYOUT AND SCHEMATICS. | 742-0971 PAPER N/A | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
| PRINTER, | MATRIX | <u>PM010 EPSON MX-80 MATRIX PRINTER</u> CONTAINS DESCRIPTION, OPERATION, INSTALLATION, THEORY OF OPERATION, AND PARTS LIST. | 742-0976 PAPER N/A | ORANGE | MNL |
| MODEM, | FULL-DUPLEX | <u>RACAL-VADIC VA-3450 FULL-DUPLEX MODEM</u> CONTAINS INSTALLATION, OPERATION, AND SERVICE INFORMATION. | 742-0977 741-0997 | RED | MNL |
| MODEM, | FULL-DUPLEX | <u>RACAL-VADIC VA-3451 FULL-DUPLEX MODEM</u> OUTLINES DIFFERENCES BETWEEN THE RACAL-VADIC MODEM AND THE WANG VERSION. | 742-1010 PAPER N/A | RED | MNL |
| WORKSTATION, | VS/OIS | <u>ERG0 2 DE/DW WORKSTATION</u> DESCRIBES INSTALLATION AND MAINTENANCE, AND INCLUDES AN IPB. | 742-1025 PAPER N/A | ORANGE | MNL |
| SYSTEM, | COMPUTER | <u>VS 25, 45 COMPUTER SYSTEM</u> PROVIDES INSTALLATION, OPERATION, THEORY OF OPERATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, AND TROUBLESHOOTING. | 742-1032 741-1032 | BLUE | MNL |
| SYSTEM, | COMPUTER | <u>VS 25, 45 COMPUTER SYSTEM</u> PROVIDES INSTALLATION, OPERATION, MAINTENANCE, AND IPB FOR: 160-MBYTE INTERNAL FIXED DISK DRIVE, 2-MBYTE MAIN MEMORY BOARD, AND 25V36 ASYNC CONTROLLER. | 742-1032-1 741-1032-1 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 25, 45 COMPUTER SYSTEM</u> ADDS APPENDIX E, ASYNC CONTROLLER. | 742-1032-2 741-1032-2 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 25, 45 COMPUTER SYSTEM IPB</u> UPDATES CHAPTER 7 AND IPB. | 742-1032-3 741-1032-3 | BLUE | PUB |
| PROCESSOR, | TELECOMMUNICATIONS | <u>TCP TELECOMMUNICATIONS PROCESSOR</u> PROVIDES INSTALLATION, OPERATION, AND TROUBLESHOOTING. | 742-1043 729-1043 | RED | MNL |
| PRINTER, | DAISY | <u>DW/DS-20 DAISY PRINTER</u> CONTAINS DESCRIPTION, OPERATION, INSTALLATION, THEORY OF OPERATION, SCHEMATICS, DIAGRAMS AND MAINTENANCE. | 742-1054 741-1054 | ORANGE | MNL |
| DISK DRIVE, | WINCHESTER | <u>QUANTUM Q-2000 WINCHESTER DISK DRIVE</u> | 742-1060 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, | CARTRIDGE MODULE | <u>CDC BK4XX CARTRIDGE MODULE DISK DRIVE</u> PROVIDES A GENERAL DESCRIPTION, OPERATION, INSTALLATION AND CHECKOUT, MAINTENANCE, PARTS DATA, AND WIRE LISTS. | 742-1063-A 741-1063-A | ORANGE | MNL |

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|-------------------------|--|----------------------------|--------|------|
| SWITCH BOX, WORKSTATION | <u>WORKSTATION SWITCH BOX SW-16</u> PROVIDES THEORY OF OPERATION, INSTALLATION, OPERATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, AND TROUBLESHOOTING. | 742-1078 PAPER N/A | ORANGE | MNL |
| PRINTER, MATRIX | <u>5577 VERY HIGH DENSITY MATRIX PRINTER</u> CONTAINS INTRODUCTION, INSTALLATION, OPERATION, THEORY OF OPERATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, TROUBLESHOOTING, SCHEMATICS, IPB, AND MNEMONICS. | 742-1084 741-1084 | ORANGE | MNL |
| PRINTER, MATRIX | <u>5577 VERY HIGH DENSITY MATRIX PRINTER</u> DESCRIBES SWITCH SETTINGS ON THE 9038 SIBLINK BOARD IN THE 5577 MATRIX PRINTER. | 742-1084-1 741-1084-1 | ORANGE | PUB |
| WORKSTATION, VS/OIS | <u>ERGO 3 53XX WORKSTATION</u> PROVIDES UNPACKING, OPERATION, INSTALLATION, TROUBLESHOOTING, REPAIR, AND IPB. | 742-1086 741-1086 | ORANGE | MNL |
| WORKSTATION, VS/OIS | <u>ERGO 3 53XX WORKSTATION</u> UPDATES THE IPB. | 742-1086-1 741-1086-1 | ORANGE | PUB |
| TERMINAL, INTEGRATED | <u>2236DW INTEGRATED TERMINAL</u> PROVIDES DESCRIPTION, UNPACKING, INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1087 741-1087 | ORANGE | MNL |
| WANGNET, BACKBONE | <u>WANGNET BACKBONE</u> CONTAINS DESCRIPTION, SPECIAL TEST EQUIPMENT, AND REQUIRED PROCEDURES TO BE PERFORMED AFTER INITIAL HARDWARE INSTALLATION. | 742-1102 741-1102 | RED | MNL |
| WANGNET, BACKBONE | <u>WANGNET BACKBONE</u> ADDS INFORMATION ON THE ALC EXTENDER AMPLIFIER AND PILOT GENERATOR. | 742-1102-1 741-1102-1 | RED | PUB |
| PRINTER, LASER | <u>LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE</u> PROVIDES INSTALLATION PROCEDURES AND SERVICE DATA. | 742-1104-A 741-1104-A | ORANGE | MNL |
| PRINTER, LASER | <u>LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE</u> PROCEDURE OPTIMIZING RASTER OUTPUT SCANNER OPERATION. | 742-1104-A1 741-1104-A1 | ORANGE | PUB |
| PRINTER, LASER | <u>XEROX LASER PRINTER COPY ANALYSIS & MANAGEMENT</u> | 742-1106 741-1106 | ORANGE | MNL |

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|---------------------|------------------|---|--------------------------|--------|------|
| PRINTER, | LASER | <u>LPS 12 LASER PRINTING SYSTEM</u> CONTAINS ALL OF THE DIAGNOSTIC PROCEDURES REQUIRED TO ISOLTAE FUALTS IN THE 8040 ELECTRONIC PRINTER. | 742-1107-A 741-1107-A | ORANGE | MNL |
| TELETYPE, | LEVEL CONVERTER | <u>TLC4/L94 TELETYPE LEVEL CONVERTER</u> PROVIDES INSTALLATION AND TROUBLESHOOTING. | 742-1126 741-1126 | RED | MNL |
| TAPE DRIVE, | MAGNETIC | <u>TELEX 6253 MAGNETIC TAPE DRIVE</u> CONTAINS GENERAL INFORMATION, INSTALLATION, OPERATION, MAINTENANCE, PARTS LIST AND LOGIC DIAGRAMS. | 742-1136 PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | <u>TELEX 6850 TAPE FORMATTER</u> CONTAINS GENERAL INFORMATION, INSTALLATION, OPERATION, MAINTENANCE, PARTS LIST, AND LOGIC DIAGRAMS. | 742-1137 PAPER N/A | ORANGE | MNL |
| VOICE PRODUCT, | DVX | <u>DIGITAL VOICE EXCHANGE DVX</u> | 742-1141 741-1141 | RED | MNL |
| PRINTER, | LASER | <u>LPS 12 INTERFACE UNIT</u> PROVIDES NECESSARY INFORMATION TO UNPACK, INSTALL, SERVICE, AND MAINTAIN. | 742-1155 729-1155 | ORANGE | MNL |
| SOFTWARE, | REFERENCE | <u>TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE</u> CONTAINS PRODUCT-INDEPENDENT DESCRIPTIONS OF THE SOFTWARE PROTOCOLS USED WITH ALL WANG TC PRODUCTS. | FICHE N/A 741-1172 | RED | SFG |
| SOFTWARE, | REFERENCE | <u>TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE</u> CONTAINS INFORMATION ON THE TELECOMMUNICATIONS FACILITY. | FICHE N/A 741-1172-1 | RED | SFGP |
| MODEM, | FIXED FREQUENCY | <u>9600 FIXED FREQUENCY MODEM</u> CONTAINS INSTALLATION, OPERATION, MAINTENANCE, AND TROUBLESHOOTING. | 741-1176 741-1176 | RED | MNL |
| WANGNET, | SIGNAL GENERATOR | <u>FOUR/FIVE FREQUENCY TEST SIGNAL GENERATOR</u> PROVIDES THEORY OF OPERATION AND OPERATING PROCEDURES. | 742-1180 741-1180 | BEIGE | MNL |
| WANGNET, | CABLE KIT | <u>WANGNET CABLE KIT</u> PROVIDES INSTALLATION, ASSEMBLY AND CHECKOUT. | 742-1183 729-1183 | RED | MNL |
| SYSTEM, | COMPUTER | <u>VS 15, 25, 45 COMPUTER SYSTEM SCHEMATICS</u> PROVIDES SCHEMATICS. | 742-1185 741-1185 | BLUE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|------------------------------|--|--------------------------|-------|------|
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> PROVIDES INSTALLATION, THEORY OF OPERATION, REMOVAL/REPLACEMENT PROCEDURES, MAINTENANCE, AND IPB. | 742-1190 741-1190 | BROWN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> CONTAINS THEORY, OPERATION, AND INSTALLATION OF THE IBM MONOCHROME EMULATION OPTION. | 742-1190-1 741-1190-1 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> CONTAINS INSTALLATION, THEORY, AND CHECKOUT PROCEDURES FOR THE 256K CPU/SYSTEM BOARD. | 742-1190-2 741-1190-2 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> ADDS SINGLE BOARD LOCAL COMMUNICATIONS OPTION AND PC COLOR MONITOR. | 742-1190-3 741-1190-3 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> ADDS THE PIC IBM EMULATION OPTION, THE MSAR CONTROLLER OPTION AND ALIGNMENT/ADJUSTMENT PROCEDURES FOR THE HALF HEIGHT 360K BYTE FLOPPY DRIVE. | 742-1190-4 741-1190-4 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> ADDS THE PIC IBM MONOCHROME EMULATION OPTION TWO BOARD SET CONSISTING OF THE HALF PAGE/2 CONNECTOR PCA AND THE PIC IBM EMULATOR PCA. | 742-1190-5 741-1190-5 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> ADDS WANG PRINTER BUFFER OPTION, INSTALLATION, OPERATION, SWITCH SETTINGS, AND OPERATOR CONTROLS. | 742-1190-6 741-1190-6 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> DESCRIBES INSTALLATION, OPERATION, TROUBLESHOOTING, AND FEATURES OF THE WANG TELEPHONE MESSAGE EXCHANGE OPTION. | 742-1190-7 741-1190-7 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> CONTAINS UPDATED INFORMATION FOR THE PIC TEXT/ IMAGE/GRAPHICS-2 CONTROLLER AND THE PIC IBM EMULATION OPTION. | 742-1190-8 741-1190-8 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> ADDS APPENDIX M. | 742-1190-9 741-1190-9 | BROWN | PUB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
| WANGNET, | CIU | <u>CABLE INTERFACE UNIT CIU</u> CONTAINS INTRODUCTION, THEORY, OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, SCHEMATICS, TROUBLESHOOTING, AND IPB. | 742-1192 741-1192 | RED | MNL |
| WANGNET, | CIU | <u>CABLE INTERFACE UNIT CIU</u> DESCRIBES UPGRADE FOR 10-MBPS INSTALLATION, OPERATION, SWITCH SETTINGS, AND INDICATORS. | 742-1192-1 741-1192-1 | RED | PUB |
| MODEM, | FIXED FREQUENCY | <u>FFM-64000 FIXED FREQUENCY MODEM</u> CONTAINS INTRODUCTION, THEORY OF OPERATION, AND SCHEMATICS. | 741-1215 741-1215 | RED | MNL |
| WANGNET, | NETMUX | <u>NETMUX WANGNET NETWORK MULTIPLEXER</u> PROVIDES INTRODUCTION, THEORY OF OPERATION, OPERATION, INSTALLATION, CORRECTIVE MAINTENANCE, SCHEMATICS, IPB, AND TROUBLESHOOTING. | 742-1217 741-1217 | RED | MNL |
| WANGNET, | NETMUX | <u>NETMUX WANGNET NETWORK MULTIPLEXER</u> ADDS 28 CHANNEL GLOBAL MODEM. | 742-1217-1 741-1217-1 | RED | PUB |
| PROCESSOR, | CABLE INTERFACE | <u>DIS MCIP CABLE INTERFACE PROCESSOR</u> CONTAINS THEORY OF OPERATION, OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, SCHEMATICS, TROUBLESHOOTING, AND IPB. | 742-1223 741-1223 | RED | MNL |
| PROCESSOR, | CABLE INTERFACE | <u>DIS MCIP CABLE INTERFACE PROCESSOR</u> PROVIDES INFORMATION ON THE 28 CHANNEL GLOBAL MODEM. | 742-1223-1 741-1223-1 | RED | PUB |
| FEEDER, | DUAL SHEET/ENVELOPE | <u>ZIYAD Z303 Z306 DUAL SHEET/ENVELOPE FEEDER</u> <u>MAINTENANCE</u> | 742-1231 741-1231 | ORANGE | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER SCHEMATICS</u> <u>PROFESSIONAL COMPUTER SCHEMATICS</u> | 742-1241 741-1241 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER SCHEMATICS</u> ADDS IBM MONOCHROME EMULATOR OPTION BOARD. | 742-1241-1 741-1241-1 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER SCHEMATICS</u> ADDS SINGLE BOARDED LOCAL COMMUNICATIONS OPTION. | 742-1241-2 741-1241-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER SCHEMATICS</u> ADDS APC. | 742-1241-3 741-1241-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER SCHEMATICS</u> ADDS TELEPHONE MESSAGE EXCHANGE OPTION. | 742-1241-4 741-1241-4 | BROWN | PUB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--------------------|--|----------------------------|--------|------|
| WORKSTATION, | GRAPHICS | <u>6300 GRAPHICS WORKSTATION</u> PROVIDES INSTALLATION, UNPACKING, ALIGN, ADJUST AND TROUBLESHOOTING. | 742-1251 741-1251 | ORANGE | MNL |
| WORKSTATION, | GRAPHICS | <u>6300 GRAPHICS WORKSTATION</u> PROVIDES NEW SCHEMATICS AND IPB | 742-1251-1 741-1251-1 | ORANGE | PUB |
| WORKSTATION, | GRAPHICS | <u>6300 GRAPHICS WORKSTATION</u> CORRECTS IPB FOR 6300 GRAPHICS WORKSTATION. | 742-1251-2 741-1251-2 | ORANGE | PUB |
| DIAGNOSTIC, | VS | <u>VS COMPUTER SYSTEM STANDALONE DIAGNOSTIC</u> COVERS THE OFF-LINE DIAGNOSTICS FOUND IN THE DIAGSA LIBRARY. | FICHE N/A 741-1256 | BLUE | DHB |
| DIAGNOSTIC, | VS | <u>VS SYSTST ONLINE DIAGNOSTIC</u> COVERS THE ON-LINE DIAGNOSTICS FOUND IN THE SYSTST LIBRARY. | FICHE N/A 741-1257 | BLUE | DHB |
| SOFTWARE, | REFERENCE | <u>VS OPERATING SYSTEM SOFTWARE FIELD GUIDE</u> COVERS VS OPERATING SYSTEM RELEASES 5.1 THROUGH 6.20. | FICHE N/A 741-1265 | BLUE | SFG |
| SYSTEM, | OFFICE INFORMATION | <u>DIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM</u> PROVIDES INSTALLATION, OPERATION, AND MAINTENANCE. | 742-1267-B 741-1267-B | GREEN | MNL |
| SYSTEM, | OFFICE INFORMATION | <u>DIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM</u> ADDS APPENDIX A, INSTRUCTIONS FOR INSTALLING UJ KITS. | 742-1267-B1 741-1267-B1 | GREEN | PUB |
| CONTROLLER, | DATA LINK | <u>928W MASTER DATA LINK</u> CONTAINS THEORY OF OPERATION, OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, SCHEMATICS, TROUBLESHOOTING, AND IPB. | 742-1268 729-1268-A | RED | MNL |
| CONTROLLER, | DATA LINK | <u>928W MASTER DATA LINK</u> PROVIDES INFORMATION ON THE 28 CHANNEL GLOBAL MODEM. | 742-1268-2 729-1268-A2 | RED | PUB |
| PRINTER, | BAND | <u>DATAPRODUCTS BP BAND PRINTER MAINTENANCE</u> DESCRIBES INSTALLATION, OPERATION, THEORY OF OPERATION, AND MAINTENANCE. | 742-1272 729-1272 | ORANGE | MNL |
| PRINTER, | BAND | <u>DATAPRODUCTS BP BAND PRINTER SCHEMATICS</u> CONTAINS SCHEMATIC DIAGRAMS INCLUDING WANG SIBLINK. | 742-1273-A 741-1273-A | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
| PRINTER, | BAND | <u>DATAPRODUCTS BAND PRINTER PARTS LIST</u> PARTS LIST. | 742-1301 729-1301 | ORANGE | MNL |
| WORKSTATION, | VS/OIS | <u>4200 SERIES 4210, 4220 WORKSTATIONS</u> | 742-1302 741-1302 | ORANGE | MNL |
| DIAGNOSTIC, | VS | <u>VS 85, 85H, 90, 100 COMPUTER SYSTEM</u> <u>MICRODIAGNOSTICS</u> CONTAINS OPERATION, RAM INSTALLATION, MICROTRAPS, ERROR CODES FOR TESTS, REVISION CODE DECIPHERING, PART NUMBERS AND REVISION HISTORIES. | FICHE N/A 741-1309 | BLUE | DHB |
| DIAGNOSTIC, | VS | <u>VS 85, 85H, 90, 100 COMPUTER SYSTEM</u> <u>MICRODIAGNOSTICS</u> ADDS 4011 AND 6201 TEST. | FICHE N/A 741-1309-1 | BLUE | DHB |
| DIAGNOSTIC, | VS | <u>VS 25, 45 BP MONITOR DIAGNOSTICS</u> COVERS THE BP MONITOR DIAGNOSTICS. | FICHE N/A 741-1320 | BLUE | DHB |
| DIAGNOSTIC, | OIS | <u>OIS 140 CLASS OFFICE INFORMATION SYSTEM</u> <u>MASTER MONITOR DIAGNOSTIC</u> CONTAINS ERROR CODES AND OTHER PERTINENT INFORMATION FOR DIAGNOSTIC TEST RUNNING. | FICHE N/A 741-1322 | GREEN | DHB |
| PRINTER, | DAISY | <u>DIABLO 620 DAISY PRINTER</u> CONTAINS INSTALLATION AND CHECKOUT, MAINTENANCE PARTS DATA, AND DIAGRAMS. | 742-1327 741-1327 | ORANGE | MNL |
| DIAGNOSTIC, | OIS | <u>OIS 140 CLASS, (6540, 6545) OFFICE</u> <u>INFORMATION SYSTEM SYSEX DIAGNOSTICS</u> COVERS OPERATING INFORMATION AND ERROR MESSAGES FOR SYSEX. | FICHE N/A 741-1328 | GREEN | DHB |
| PRINTER, | THERMAL | <u>THERMAL PRINTER</u> CONTAINS INTRODUCTION, FUNCTIONAL DESCRIPTION INSTALLATION AND CHECKOUT, PREVENTIVE AND CORRECTIVE MAINTENANCE, TROUBLESHOOTING, AND IPB. | 742-1335 PAPER N/A | ORANGE | MNL |
| WORKSTATION, | VS/OIS | <u>4200 SERIES 4205, 4230 WORKSTATIONS</u> | 742-1339 741-1339 | ORANGE | MNL |
| PRINTER, | DAISY | <u>DATAPRODUCTS DAISY PRINTER SCHEMATICS</u> CONTAINS SCHEMATIC DRAWINGS. | 742-1341-A 741-1341-A | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--------------------|--|--------------------------|------------|
| DISK DRIVE, | WINCHESTER/FLOPPY | <u>2275 DISK PERIPHERAL WINCHESTER/FLOPPY DISK DRIVE</u> CONTAINS OPERATION, TROUBLESHOOTING, REPAIR, UNPACKING AND SETUP, FUNCTIONAL DESCRIPTION, AND IPB. | 742-1345-A 741-1345-A | ORANGE MNL |
| DIAGNOSTIC, | DIS | <u>DIS OFFICE INFORMATION SYSTEM DTOS DIAGNOSTICS VOLUME 3</u> COVERS THE ONLINE DIAGNOSTIC TEST OPERATING SYSTEM. HIGH AND LOW SPEED PRINTERS, WORKSTATIONS AND SOME TC. | FICHE N/A 741-1356 | GREEN DHB |
| DIAGNOSTIC, | TAPE DRIVES | <u>DTOS TESTS FOR MAGNETIC TAPE DRIVES DIAGNOSTICS</u> COVERS THE DIAGNOSTIC TEST OPERATING SYSTEM FOR TAPES. | FICHE N/A 741-1374 | ORANGE DHB |
| DIAGNOSTIC, | PRINTER | <u>DTOS TESTS FOR PRINTERS DIAGNOSTICS</u> COVERS THE ONLINE DIAGNOSTIC TESTS OPERATING SYSTEMS FOR PRINTERS. | FICHE N/A 741-1375 | ORANGE DHB |
| DIAGNOSTIC, | TELECOMMUNICATIONS | <u>DTOS TESTS FOR VS/DIS TELECOMMUNICATIONS DIAGNOSTICS</u> COVERS ONLINE DIAGNOSTIC TEST OPERATING SYSTEM FOR TELECOMMUNICATIONS. | FICHE N/A 741-1377 | RED DHB |
| DIAGNOSTIC, | WORKSTATION | <u>DTOS TESTS FOR WORKSTATIONS DIAGNOSTICS</u> COVERS THE ONLINE DIAGNOSTIC TEST OPERATING SYSTEM FOR WORKSTATIONS, DISPLAY, AND KEYBOARD. | FICHE N/A 741-1378 | ORANGE DHB |
| MULTIPLEXER, | CABLE | <u>CMUX-3270 CABLE MULTIPLEXER</u> PROVIDES INTRODUCTION, INSTALLATION, THEORY OF OPERATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1388 741-1388 | RED MNL |
| MULTIPLEXER, | CABLE | <u>CMUX-3270 CABLE MULTIPLEXER</u> ADDS INFORMATION ON THE 28 CHANNEL GLOBAL MODEM. | 742-1388-1 741-1388-1 | RED PUB |
| DIAGNOSTIC, | DIS | <u>DIS 50 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS</u> COVERS THE SYSTEM EXERCISER FOR DIS-50 CLASS. | FICHE N/A 741-1392 | GREEN DHB |
| DESKTOP, | OFFICE ASSISTANT | <u>WANG OFFICE ASSISTANT WOA-20, WOA-20/P</u> PROVIDES INSTALLATION, OPERATION, AND MAINTENANCE. | 742-1402-A 741-1402-A | BROWN MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|------------------------|---|--------------------------|--------|------|
| SYSTEM, COMPUTER | <u>VS 15 COMPUTER SYSTEM</u> PROVIDES INFORMATION ON CONTROLS, INDICATORS, OPERATION, PREVENTIVE MAINTENANCE, REPAIR, TROUBLESHOOTING, ADJUSTMENTS AND ALIGNMENT, FUNCTIONAL DESCRIPTION, AND IPB. | 742-1404 741-1404 | BLUE | MNL |
| SYSTEM, COMPUTER | <u>VS 15 COMPUTER SYSTEM</u> PROVIDES INSTALLATION, OPERATION, IPB, AND MAINTENANCE FOR 2-MBYTE MAIN MEMORY BOARD, AND 25V36 ASYNC CONTROLLER. | 742-1404-1 741-1404-1 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 15 COMPUTER SYSTEM</u> CORRECTS SMD DISK DEVICE ADAPTER ADDRESS JUMPER THE MAIN MEMORY RAM CHIP LAYOUT, SMD DISK DRIVE PART NUMBERS. | 742-1404-2 741-1404-2 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 15 COMPUTER SYSTEM</u> ADDS APPENDIX E, ASYNC CONTROLLER, AND APPENDIX F, EXTERNAL DISK DRIVE UPDATE. | 742-1404-3 741-1404-3 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 15 COMPUTER SYSTEM</u> ADDS MODULAR SERIAL INPUT/OUTPUT SUBSYSTEM INFORMATION. | 742-1404-4 741-1404-4 | BLUE | PUB |
| SYSTEM, COMPUTER | <u>VS 15 COMPUTER SYSTEM</u> INCLUDES INSTALLATION, CABLING, AND DIAGNOSTIC TESTING FOR THE SMD CONTROLLERS. | 742-1404-5 741-1404-5 | BLUE | PUB |
| PHOTOTYPESETTER, | <u>5549Z PHOTOTYPESETTER</u> CONTAINS INSTRUCTIONS FOR MAINTAINING, ADJUSTING, AND TROUBLESHOOTING. | 742-1434 741-1434 | ORANGE | MNL |
| DIAGNOSTIC, PC | <u>PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS</u> DESCRIBES THE PC DIAGNOSTICS SYSTEM. | FICHE N/A 741-1435 | BROWN | DHB |
| DIAGNOSTIC, PC | <u>PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS</u> CORRECTS ERRORS ON PAGES: 3-1 AND C-1. | FICHE N/A 741-1435-1 | BROWN | DHBP |
| DIAGNOSTIC, PC | <u>PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS</u> ADDS APPENDIX D, ENHANCED ASYNCHRONOUS DEVICE CONTROLLER. | FICHE N/A 741-1435-2 | BROWN | DHBP |
| DISK DRIVE, WINCHESTER | <u>NEC D2246 WINCHESTER DISK DRIVE MAINTENANCE</u> PROVIDES UNPACKING, INSTALLATION, MAINTENANCE, REMOVE AND REPLACE, SCHEMATICS, AND IPB. | 742-1452 729-1452 | ORANGE | MNL |
| PRINTER, DAISY | <u>DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE</u> DESCRIBES INSTALLATION, MAINTENANCE, THEORY OF OPERATION, AND TROUBLESHOOTING. | 742-1457 741-1457 | ORANGE | MNL |

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| PRINTER, | DAISY | <u>DW/QS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE</u> CORRECTS TABLE 4-2. | 742-1457-1 741-1457-1 | ORANGE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS</u> PROVIDES SCHEMATICS AND BOARD LAYOUTS. | 742-1462 741-1462 | BLUE | MNL |
| SYSTEM, | COMPUTER | <u>VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS</u> ADDS ASSEMBLY DRAWINGS. | 742-1462-1 741-1462-1 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS</u> ADDS ASYNC DEVICE CONTROLLER. | 742-1462-2 741-1462-2 | BLUE | PUB |
| SOFTWARE, | REFERENCE | <u>PROBE USER'S GUIDE</u> CONTAINS INQUIRY, REPORTS, PROBLEM ENTRY, USER DIRECTORY AND MESSAGES, AND MODIFY/SCREEN/RESOLVE. | 742-1469-B 741-1469-B | WHITE | GDE |
| DIAGNOSTIC, | DIS | <u>DIS 40, 50, 60, 70 OFFICE INFORMATION SYSTEM BIT/DTOS DIAGNOSTICS</u> QUICK REFERENCE FOR: BUILT IN TEST, MASTER DTOS RUNTIME KEY FUNCTIONS, REVISION CODE DECIPHERING, AND PART NUMBER/REVISION HISTORY. | FICHE N/A 741-1471-A | GREEN | DHB |
| PRINTER, | LASER | <u>LIS 12 LASER IMAGING SYSTEM MAINTENANCE</u> CONTAINS INTRODUCTION, IDENTIFICATION, CONTROLS AND INDICATORS, OPERATION, PREVENTIVE MAINTENANCE, TROUBLESHOOTING, REPAIR, IPB, ADJUSTMENTS, FUNCTIONAL DESCRIPTION, AND SPECIFICATIONS. | 742-1478 741-1478 | ORANGE | MNL |
| DISK DRIVE, | RSD | <u>2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE DIAGRAMS VOLUME 3</u> PROVIDES SCHEMATICS DRAWINGS. | 742-1489 741-1489 | ORANGE | MNL |
| DISK DRIVE, | RSD | <u>2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE THEORY OF OPERATION REPAIR, REPLACEMENT VOLUME 2</u> PROVIDES THEORY OF OPERATION, MAINTENANCE, TROUBLE ANALYSIS, ELECTRICAL CHECKS, REPAIR AND REPLACEMENT PROCEDURES. | 742-1490-A 741-1490-A | ORANGE | MNL |
| DISK DRIVE, | RSD | <u>2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE INSTALLATION VOLUME 1</u> PROVIDES DESCRIPTION OF OPERATION, INSTALLATION AND CHECKOUT PROCEDURES. | 742-1491 741-1491 | ORANGE | MNL |
| DISK DRIVE, | RSD | <u>2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE CROSS REFERENCE PART NUMBER LIST</u> PROVIDES WANG AND CDC CROSS REFERENCED PART NUMBER LISTING. | 742-1491-1 741-1491-1 | ORANGE | PUB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> PROVIDES UNPACKING, INSTALLATION, THEORY OF OPERATION, DIAGNOSTICS, TROUBLESHOOTING, AND REMOVAL AND REPLACEMENT. | 742-1492 741-1492 | BLUE | MNL |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> ADDS THE ASYNC DEVICE CONTROLLER. | 742-1492-1 741-1492-1 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> ADDS NEW I/O REAR PANEL CONNECTOR PLATES, AND MAKES CORRECTIONS TO THE MANUAL. | 742-1492-2 741-1492-2 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> ADDS APPENDIX D, CDC VIRTUAL MACHINE OPTION. | 742-1492-3 741-1492-3 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> ADDS LINE ART IPB. | 742-1492-4 741-1492-4 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> ADDS APPENDIX E, 32 PORT SERIAL CONTROLLER BOARD, AND APPENDIX F, 4 MEG MAIN MEMORY BOARD. | 742-1492-5 741-1492-5 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> REFERENCES MAINTENANCE MANUALS FOR THE INSTALLATION OF FIBERWAY ACTIVE PORT ASSEMBLY. | 742-1492-6 741-1492-6 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 85, 85H COMPUTER SYSTEM</u> CORRECTS DIAGNOSTIC CLOCK ADJUSTMENT PROCEDURE. | 742-1492-7 741-1492-7 | BLUE | PUB |
| DIAGNOSTIC, | WANGWRITER | <u>WANGWRITER IN-SYSTEM DIAGNOSTICS</u> COVERS DIAGNOSTICS USED TO VERIFY RELIABLE OPERATION, OPERATING PROCEDURES, AND ERROR CODES. | FICHE N/A 741-1497 | GREEN | DHB |
| DISK DRIVE, | FIXED | <u>NEC D2257 FIXED DISK DRIVE</u> CONTAINS SYSTEM OVERVIEW, INSTALLATION PROCEDURES, PREVENTIVE MAINTENANCE, TROUBLESHOOTING, REMOVAL AND REPLACEMENT, IPB, SCHEMATICS, AND SPECIFICATIONS. | 742-1503 729-1503 | ORANGE | MNL |
| DISK DRIVE, | FIXED | <u>NEC D2257 FIXED DISK DRIVE</u> ADDS DUAL PORT OPTION. | 742-1503-1 729-1503-1 | ORANGE | PUB |
| PRINTER, | MATRIX | <u>PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE</u> PROVIDES PRINCIPLES OF OPERATION, DISASSEMBLY AND ASSEMBLY, TROUBLESHOOTING, AND MAINTENANCE. | 742-1600 741-1600 | ORANGE | MNL |

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| PRINTER, MATRIX | <u>PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE APPENDS EXPLODED VIEWS, AND ASSOCIATED PARTS LISTS.</u> | 742-1600-1 741-1600-1 | ORANGE | PUB |
| PRINTER, MATRIX | <u>2233, 2235, 5533, 5535 LOW-COST MATRIX PRINTER QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, PROMS, MAJOR PCB FUNCTIONS, ERROR CODES, PCB E-REV LEVELS, ADJUSTMENT/TEST POINTS, COMMONLY USED PARTS.</u> | FICHE N/A 741-1601-A | ORANGE | SHB |
| PRINTER, MATRIX | <u>2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER QUICK REFERENCE FOR: DIAGNOSTICS, SERVICE EQUIPMENT, MODEL SPECIFICATIONS, PROMS, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS.</u> | FICHE N/A 741-1602 | ORANGE | SHB |
| PRINTER, MATRIX | <u>2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER UPDATES</u> | FICHE N/A 741-1602-1 | ORANGE | SHBP |
| WANGNET, BACKBONE | <u>WANGNET BACKBONE QUICK REFERENCE FOR: SERVICE EQUIPMENT, JUMPERS MAJOR COMPONENT FUNCTIONS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS.</u> | FICHE N/A 741-1603 | RED | SHB |
| PRINTER, DAISY | <u>DIS-PTR-20, PM012 DIABLO 620 DAISY PRINTER QUICK REFERENCE FOR: MODEL SPECIFICATIONS, PCB COMPLEMENTS, SWITCH SETTINGS, PROMS, MAJOR PCB FUNCTIONS, ERROR CODES, ADJUSTMENT/TEST POINTS, SERVICE EQUIPMENT, TIME FLOW CHART, COMMONLY USED PARTS.</u> | FICHE N/A 741-1604 | ORANGE | SHB |
| SYSTEM, OFFICE INFORMATION | <u>DIS 40, 45, 50, 55, 60, 60-1, 65, 70 OFFICE INFORMATION SYSTEM QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS.</u> | FICHE N/A 741-1605-B | GREEN | SHB |
| PRINTER, MATRIX | <u>5577 VERY HIGH DENSITY MATRIX PRINTER QUICK REFERENCE FOR: OS SOFTWARE PACKAGES, SERVICE EQUIPMENT, PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, PROMS, ERROR CODES, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS.</u> | FICHE N/A 741-1606 | ORANGE | SHB |

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|---------------------|---|--------------------------|--------|------|
| WORKSTATION, VS/DIS | <u>ERGO 2 & 3 5300/AL-64/PS/ME/AL-A 5924/5/8-4</u> <u>5944/5/8-4 5947/9 WORKSTATIONS</u> QUICK REFERENCE FOR: DIAGNOSTICS, SERVICE EQUIPMENT, MODEL DIFFERENCES, CABLING, PROMS, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, PCB E-REV LEVELS, ADJUSTMENTS AND RELATED TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1607 | ORANGE | SHB |
| VOICE PRODUCT, DVX | <u>DIGITAL VOICE EXCHANGE DVX 1.0</u> QUICK REFERENCE FOR: OS SOFTWARE, SERVICE EQUIPMENT, MODEL SPECIFICATIONS, CABLING, PROMS PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, ERROR CODES, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1608 | RED | SHB |
| FEEDER, TWIN SHEET | <u>TWIN SHEET FEEDER TSF-01,02,03,11,12,13,20,21,22,23,31,32,33,41,42</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS, CABLING, MAJOR PCB FUNCTIONS, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1610 | ORANGE | SHB |
| FEEDER, ENVELOPE | <u>ENVELOPE FEEDER EF-1,2,3,11,12,13,21,22,23</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ADJUSTMENT/TEST POINTS. | FICHE N/A 741-1611-A | ORANGE | SHB |
| MANGNET, FASTLAN | <u>FASTLAN</u> PROVIDES INTRODUCTION, INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1614 PAPER N/A | RED | MNL |
| PRINTER, MATRIX | <u>2231W-1/-2/-3/-6, 2231V2/2S, 5531W-2 31W</u> <u>MATRIX PRINTER</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, PROMS, MAJOR PCB FUNCTIONS, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1616-A | ORANGE | SHB |
| SYSTEM, COMPUTER | <u>VS 65 COMPUTER SYSTEM</u> CONTAINS UNPACK & SETUP, FUNCTIONAL DESCRIPTION OPERATION, TROUBLESHOOTING, CORRECTIVE MAINTENANCE, REPAIR, ADJUSTMENTS AND ALIGNMENT, AND IPB. | 742-1617-A 741-1617-A | BLUE | MNL |
| PRINTER, LASER | <u>LPS 12 LASER PRINTING SYSTEM</u> QUICK REFERENCE FOR PCB COMPLIMENTS, CABLING, ADJUSTMENTS/TEST POINTS, ERROR CODES, SWITCH SETTINGS/JUMPERS. | FICHE N/A 741-1618-A | ORANGE | SHB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|--|--------------------------|--------|------|
| TAPE DRIVE, | MAGNETIC | <u>2219V MAGNETIC TAPE DRIVE</u> QUICK REFERENCE FOR: SERVICE EQUIPMENT, PCB COMPLEMENTS, MAJOR PCB FUNCTIONS, ADJUSTMENTS/ TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1619 | ORANGE | SHB |
| TAPE DRIVE, | MAGNETIC | <u>2219V MAGNETIC TAPE DRIVE</u> ADDS FORMATTER AND CORRECTS TRANSPORTER ADJUSTMENT PROCEDURE FOR 6CR WRITE/READ. | FICHE N/A 741-1619-1 | ORANGE | SHBP |
| TAPE DRIVE, | MAGNETIC | <u>2219V MAGNETIC TAPE DRIVE</u> MAKES CHANGES TO MAJOR FUNCTIONS ON BOARDS. | FICHE N/A 741-1619-2 | ORANGE | SHBP |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>NETWORK SERVICES PROFESSIONAL COMPUTER SYSTEM</u> PROVIDES THEORY, OPERATION, INSTALLATION AND CHECKOUT, PREVENTIVE AND CORRECTIVE MAINTENANCE, TROUBLESHOOTING, AND IPB. | 742-1621-A 741-1621-A | RED | MNL |
| PRINTER, | LASER | <u>LPS 12 XEROX 8040 LASER PRINTING SYSTEM CAUSE AND EFFECT UPDATE</u> OUTLINES THE LATEST IDENTIFIED FAILURE SYMPTOMS. | 742-1622 741-1622 | ORANGE | MNL |
| WORKSTATION, | VS/DIS | <u>4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS</u> QUICK REFERENCE FOR: SERVICE EQUIPMENT, MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/ JUMPERS, CABLING, PROMS, MAJOR PCB FUNCTIONS, ERROR CODES, PCB E-REV LEVELS, ADJUSTMENTS/ TEST POINTS, AND COMMONLY USED PARTS. | FICHE N/A 741-1623 | ORANGE | SHB |
| WORKSTATION, | VS/DIS | <u>4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS</u> UPDATES SWITCH SETTINGS. | FICHE N/A 741-1623-1 | ORANGE | SHBP |
| DISK DRIVE, | FIXED | <u>DIABLD 44B 2260 SERIES FIXED DISK DRIVE</u> QUICK REFERENCE FOR: DIAGNOSTICS, SERVICE EQUIPMENT, MODEL DIFFERENCES, CABLING, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1625 | ORANGE | SHB |
| PRINTER, | DAISY | <u>DW/OS-55 DATAPRODUCTS DP55 DAISY PRINTER</u> QUICK REFERENCE FOR: SERVICE EQUIPMENT, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR FUNCTIONS ON BOARDS, ERROR CODES, ADJUSTMENTS/ TEST POINTS, AND COMMONLY USED PARTS. | FICHE N/A 741-1626 | ORANGE | SHB |

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|---------------------|------------------|---|--------------------------|--------|------|
| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
| DESKTOP, | OFFICE ASSISTANT | <u>WANG OFFICE ASSISTANT WDA20, WDA20/P, WDA20/P55</u> QUICK REFERENCE FOR: OPERATING/OPTIONAL SOFTWARE, SERVICE EQUIPMENT, PCB COMPLEMENTS, MODELS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, CABLING, ERROR CODES, PCB E-REV LEVELS ADJUSTMENTS/TEST POINTS, COMMON PARTS. | FICHE N/A 741-1627 | BROWN | SHB |
| DIAGNOSTIC, | OIS | <u>OIS OFFICE INFORMATION SYSTEM SINGLE CHANNEL DIAGNOSTIC</u> QUICK REFERENCE FOR: INTRIDUCTION, RUNTIME KEY FUNCTIONS, REVISION CODE DECIPHERING, AND PART NUMBER/REVISION HISTORY. | FICHE N/A 741-1628 | GREEN | DHB |
| PRINTER, | BAND | <u>2273V-1/2273-1/2273-2/5573/5574 DATAPRODUCTS 300/600 LPM BAND PRINTER MASTER SUPPORT AND LOG</u> CONTAINS TROUBLESHOOTING, LOGIC DIAGRAMS, AND ILLUSTRATED PARTS LIST. | 742-1629 741-1629 | ORANGE | MNL |
| WORKSTATION, | COLOR GRAPHICS | <u>4245 COLOR GRAPHICS WORKSTATION</u> CONTAINS INSTALLATION, OPERATION, MAINTENANCE, TROUBLESHOOTING, AND IPB. | 742-1632 741-1632 | ORANGE | MNL |
| WORKSTATION, | GRAPHICS | <u>6300 GRAPHICS WORKSTATION</u> QUICK REFERENCE FOR DIAGNOSTICS, CABLING, PROMS SERVICE EQUIPMENT, SWITCH SETTINGS/JUMPERS, PCB COMPLEMENTS, MAJOR FUNCTIONS ON BOARDS, ERROR CODES, TIME FLOWCHART, PCB E-REV LEVELS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1633 | ORANGE | SHB |
| SYSTEM, | COMPUTER | <u>VS 300 COMPUTER SYSTEM</u> PROVIDES OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, AND TROUBLESHOOTING | 742-1634 741-1634 | BLUE | MNL |
| SYSTEM, | COMPUTER | <u>VS 300 COMPUTER SYSTEM</u> UPDATES IPL PROCEDURES, SCU SOFTWARE INSTALLATION, AND IPB. ADDS PERIPHERAL BAND INSTALLATION, A SECOND DC DISTRIBUTION BOARD, AND DIAGNOSTICS. | 742-1634-1 741-1634-1 | BLUE | PUB |
| SYSTEM, | COMPUTER | <u>VS 90, 100 COMPUTER SYSTEM</u> QUICK REFERENCE FOR: OS SOFTWARE, PROMS, PCB COMPLEMENTS, MODEL SPECIFICATIONS, ERROR CODES, SWITCH SETTINGS/JUMPERS, CABLING, MAJOR PCB FUNCTIONS, ADJUSTMENTS/TEST POINTS, PCB E-REV LEVELS, COMMONLY USED PARTS. | FICHE N/A 741-1635 | BLUE | SHB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--------------------|--|--------------------------|--------|------|
| SYSTEM, | COMPUTER | <u>2200 VP, VPA, MVP, MVPA, MVPC, LVP, LVPC, SVP COMPUTER SYSTEM</u> QUICK REFERENCE FOR: OS SYSTEM SOFTWARE, MODEL DIFFERENCES, PCB COMPLEMENTS, CABLING, PROMS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, ERROR CODES, PCB E-REV LEVELS, TROUBLESHOOTING, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1636 | YELLOW | SHB |
| SOFTWARE, | REFERENCE | <u>WANG SYSTEM NETWORKING SOFTWARE INTERNALS</u> | FICHE N/A 741-1638 | RED | SIM |
| WORKSTATION, | 2200 | <u>2236D/DE/DW, 2236DE/DW, 2876DE/DW, 2286DE/DW WORKSTATIONS</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, DIAGNOSTIC PACKAGES, PROMS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, ERROR CODES, PCB E-REV LEVELS, ADJUSTMENT/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1641 | YELLOW | SHB |
| MONITOR, | COLOR | <u>PM005 COLOR MONITOR</u> CONTAINS INSTALLATION, OPERATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1643 741-1643 | ORANGE | MNL |
| MONITOR, | COLOR | <u>PM005 COLOR MONITOR</u> CONTAINS CORRECTED PART NUMBERS FOR THE COLOR MONITOR AND VIDEO MONITOR CABLE. | 742-1643-1 741-1643-1 | ORANGE | PUB |
| TERMINAL, | VS | <u>2110 TERMINAL</u> CONTAINS OPERATION, INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1645 741-1645 | ORANGE | MNL |
| TERMINAL, | VS | <u>2110 TERMINAL</u> PROVIDES UPDATES FOR THE 2110 VS/DP. | 742-1645-1 741-1645-1 | ORANGE | PUB |
| DIAGNOSTIC, | DIS | <u>OIS 60 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTIC</u> CONTAINS INFORMATION TO LOAD AND RUN THE SYSTEM EXERCISER. | FICHE N/A 741-1646 | GREEN | DWB |
| MONITOR, | MONOCHROME | <u>PM004L LOW COST MONOCHROME MONITOR</u> CONTAINS INSTALLATION, OPERATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1647 741-1647 | ORANGE | MNL |
| MONITOR, | MONOCHROME | <u>PM004L LOW COST MONOCHROME MONITOR</u> PROVIDES UPDATES. | 742-1647-1 741-1647-1 | ORANGE | PUB |
| SYSTEM, | OFFICE INFORMATION | <u>OIS 105, 115, 125A, 130A-E, 140, 145</u> | FICHE N/A 741-1648 | GREEN | SHB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|--|----------------------------|--------|------|
| FIBER OPTIC, | CONVERTER BOX | <u>FIBER OPTIC CONVERTER BOX</u> CONTAINS THEORY OF OPERATION, OPERATION, INSTALLATION AND CHECKOUT, MAINTENANCE AND TROUBLESHOOTING. | 742-1649-A 741-1649-A | RED | MNL |
| FIBER OPTIC, | CONVERTER BOX | <u>FIBER OPTIC CONVERTER BOX</u> ADDS VERTICAL MOUNTING INSTRUCTIONS FOR MULTIPLE RACK MOUNTING. | 742-1649-A1 741-1649-A1 | RED | PUB |
| CONTROLLER, | TELECOMMUNICATIONS | <u>VS TELECOMMUNICATIONS CONTROLLERS</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1650 | RED | SHB |
| DISK DRIVE, | HANK | <u>CDC HANK DISK DRIVE</u> PROVIDES QUICK REFERENCE FOR: MODEL DIFFERENCES PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING AND ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1651-A | ORANGE | SHB |
| DISK DRIVE, | PHOENIX | <u>CDC PHOENIX DISK DRIVE 2280-1/2/3, 2280V-1/2/3, 6580V-1/2/3</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1652-A | ORANGE | SHB |
| DISK DRIVE, | SMD | <u>2265V-1/2, 6565 CDC SMD DISK DRIVE</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1653-A | ORANGE | SHB |
| DISK DRIVE, | SMD | <u>2265V-1/2, 6565 CDC SMD DISK DRIVE</u> CHANGES SCOPE ILLUSTRATIONS FOR VELOCITY GAIN ADJUSTMENT AND SERVO SYSTEM TEST AND ADJUSTMENT | FICHE N/A 741-1653-A1 | ORANGE | SHBP |
| PRINTER, | DAISY | <u>6581 DAISY PRINTER</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR FUNCTIONS ON BOARDS, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1654 | ORANGE | SHB |
| RSAF, | VS HOST | <u>REMOTE SYSTEM ADMINISTRATOR FACILITY (VS)</u> CONTAINS DESCRIPTION, CONFIGURATIONS, INSTALLATION, SWITCH SETTINGS AND MODEM SETTINGS. | 742-1657-A 741-1657-A | BLUE | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER</u> QUICK REFERENCE FOR: MAJOR FUNCTIONS ON BOARDS, PCB E-REV LEVELS AND ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1658 | BROWN | SHB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|------------|--|--------------------------|--------|------|
| DISK DRIVE, | FSD | <u>CDC FSD DISK DRIVE INSTALLATION</u> PROVIDES GENERAL DESCRIPTION, OPERATION, INSTALLATION AND CHECKOUT, AND PART DATA. | 742-1660 741-1660 | ORANGE | MNL |
| PRINTER, | DAISY | <u>PM015 JUKI 6300 DAISY PRINTER</u> PROVIDES DESCRIPTION, ADJUSTMENT, REPAIR, TROUBLESHOOTING, AND IPB. | 742-1661 741-1661 | ORANGE | MNL |
| DISK DRIVE, | FSD | <u>CDC FSD DISK DRIVE THEORY</u> PROVIDES THEORY OF OPERATION, MAINTENANCE, TROUBLE ANALYSIS, ELECTRICAL CHECKS, REPAIR AND REPLACEMENT. | 742-1662 741-1662 | ORANGE | MNL |
| DISK DRIVE, | FSD | <u>CDC FSD DISK DRIVE DIAGRAMS</u> PROVIDES DIAGRAMS. | 742-1663 741-1663 | ORANGE | MNL |
| PRINTER, | MATRIX | <u>PM019 NEC PINWRITER MATRIX PRINTER</u> PROVIDES ADJUSTMENT, MAINTENANCE, REPAIR, TROUBLESHOOTING, AND IPB. | 742-1664 741-1664 | ORANGE | MNL |
| FEEDER, | DUAL SHEET | <u>DUAL SHEET FEEDER DSF-55,551,551T,55T,77,771</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, CABLING, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1665 | ORANGE | SHB |
| SYSTEM, | COMPUTER | <u>VS 60, 80 COMPUTER SYSTEM</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1666 | BLUE | SHB |
| MANGNET, | CIU | <u>CABLE INTERFACE UNIT CIU</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1667 | RED | SHB |
| SYSTEM, | COMPUTER | <u>2200 MICRO VP-1/-2 COMPUTER SYSTEM</u> CONTAINS INSTALLATION AND MAINTENANCE. | 742-1668 741-1668 | YELLOW | MNL |
| SYSTEM, | COMPUTER | <u>2200 MICRO VP-1/-2 COMPUTER SYSTEM</u> ADDS DESCRIPTION, INSTALLATION, CHECKOUT, TROUBLESHOOTING, FOR THE 2275 MULTIPLEXER AND EXTENDER OPTION. | 742-1668-1 741-1668-1 | YELLOW | PUB |
| PRINTER, | LASER | <u>LIS 24 LASER IMAGING SYSTEM SERVICE DATA AND PARTS LIST</u> CONTAINS THE INFORMATION REQUIRED TO REPLACE AND ADJUST COMPONENTS IN THE LIS-24 SYSTEM. | 742-1670-C 741-1670-C | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|--|--------------------------|--------|------|
| TAPE DRIVE, | STREAMING | <u>PM038-1 STREAMING TAPE DRIVE</u> PROVIDES OPERATION, PREVENTIVE MAINTENANCE, TROUBLESHOOTIN, REPAIR UNPACKING AND SET-UP, AND A PHOTO IPB. | 742-1672 741-1672 | ORANGE | MNL |
| PRINTER, | LASER | <u>LPS 8 CANON LBP-CX LASER PRINTER</u> CONTAINS OPERATION AND TIMING, ELECTRICAL SYSTEM, MECHANICAL SYSTEM, INSTALLATION, MAINTENANCE, TROUBLESHOOTING AND WIRING DIAGRAMS. | 742-1673 741-1673 | ORANGE | MNL |
| CABINET, | DATA STORAGE | <u>SMALL & LARGE DATA STORAGE CABINET</u> CONTAINS UNPACKING AND SETUP INSTRUCTIONS, INSTALLATION OF ADD-ON DRIVES, AND AN IPB OF UNIQUE PARTS. | 742-1674 741-1674 | ORANGE | MNL |
| CABINET, | DATA STORAGE | <u>SMALL & LARGE DATA STORAGE CABINET</u> ADDS PROCEDURES FOR UNPACKING AND INSTALLING THE DIS SMALL DATA STORAGE CABINET. | 742-1674-1 741-1674-1 | ORANGE | PUB |
| CABINET, | DATA STORAGE | <u>SMALL & LARGE DATA STORAGE CABINET</u> ADDS UPDATING WITH A DUAL PORT OPTION. | 742-1674-2 741-1674-2 | ORANGE | PUB |
| TAPE DRIVE, | MAGNETIC | <u>2209, 2509, 6509 MAGNETIC TAPE DRIVE</u> QUICK REFERENCE FOR: MDEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1675 | ORANGE | SHB |
| TAPE DRIVE, | MAGNETIC | <u>2209, 2509, 6509 MAGNETIC TAPE DRIVE</u> MAKE CHANGES TO: SWITCH SETTINGS/JUMPERS, CABLING AND ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1675-1 | ORANGE | SHBP |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM</u> PROVIDES OPERATION, INSTALLATION, MAINTENANCE, TROUBLESHOOTING, AND IPB. | 742-1676 741-1676 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM</u> ADDS INFORMATION FOR THE CO-PROCESSOR OPTION. | 742-1676-1 741-1676-1 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM</u> ADDS APPENDIX E HIGH SPEED MEMORY/MULTI- TERMINAL CONTROLLER. | 742-1676-2 741-1676-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM</u> ADDS APPENDIX E, HIGH SPEED MEMDRY/ MULTI-TERMINAL CONTROLLER. | 742-1676-3 741-1676-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM</u> ADD APPENDIX F. APC UPGRADE CONVERSION TO 4250IMB IMAGE CAPABLE WORKSTATION. | 742-1676-4 741-1676-4 | BROWN | PUB |

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|----------------------------|--|--------------------------|--------|------|
| DISK DRIVE, FIXED | <u>2268V-1, 6568-1 NEC 85 FIXED DISK DRIVE</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1678 | ORANGE | SHB |
| WORKSTATION, ARCHIVING | <u>VS/WP/DIS ARCHIVING WORKSTATION 2266C-1/-3,</u> <u>2266S-1/-2/-3, 2276C-1/-3, AWS-1/-4</u> RAPID INFORMATION RETRIEVAL FOR, MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/ JUMPERS, CABLING, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1679 | ORANGE | SHB |
| PRINTER, THERMAL | <u>THERMAL PRINTER</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1680 | ORANGE | SHB |
| WORKSTATION, ENGINEERING | <u>ADVENT 8019 ENGINEERING WORKSTATION</u> PROVIDES INSTRUCTIONS TO INSTALL, CHECK OUT, AND TROUBLESHOOT. | 742-1682 PAPER N/A | ORANGE | MNL |
| CONTROLLER, COMMUNICATIONS | <u>RESOURCE SHARING FACILITY VS</u> PROVIDES INSTRUCTIONS FOR INSTALLATION, OPERATION, CORRECTIVE MAINTENANCE, AND TROUBLESHOOTING. | 742-1683 741-1683 | BLUE | MNL |
| DISK DRIVE, FIXED | <u>NEC 167 FIXED DISK DRIVE</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1684 | ORANGE | SHB |
| MAINTENANCE, PM | <u>PREVENTATIVE MAINTENANCE</u> QUICK REFERENCE PREVENTIVE MAINTENANCE INFORMATION FOR: DISK DRIVES, TAPE DRIVES, PRINTERS, AND MAINFRAMES. | FICHE N/A 741-1687 | WHITE | SHB |
| PRINTER, DAISY | <u>PM015 JUKI 6300 DAISY PRINTER</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1691 | ORANGE | SHB |
| PRINTER, DAISY | <u>PM015 JUKI 6300 DAISY PRINTER</u> ADDS ADDITIONAL SETTINGS FOR SW12. | FICHE N/A 741-1691-1 | ORANGE | SHBP |
| TRANSLATOR, IBM PC | <u>IBM PC TRANSLATOR</u> PROVIDES INTRODUCTION, INSTALLATION, AND TROUBLESHOOTING. | 742-1693 741-1693 | RED | MNL |
| CABLE CONCENTRATOR, SMALL | <u>VS SMALL CABLE CONCENTRATOR</u> PROVIDES INSTALLATION, DESCRIPTION, INTERCONNECTION, AND MAINTENANCE. | 742-1694-A 741-1694-A | BLUE | MNL |

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|---------------------|-------------|--|----------------------------|--------|------|
| CABLE CONCENTRATOR, | SMALL | <u>VS SMALL CABLE CONCENTRATOR</u> ADDS INSTALLATION AND CABLING FOR THE MULTI-LINE TC OPTION 25V96. | 742-1694-A1 741-1694-A1 | BLUE | PUB |
| CABLE CONCENTRATOR, | SMALL | <u>VS SMALL CABLE CONCENTRATOR</u> ADDS CHAPTER 3, VS 32-PORT SERIAL CHANNEL SWITCH. | 742-1694-A2 741-1694-A2 | BLUE | PUB |
| NETWORK, | IBM PC | <u>WANG LOCAL OFFICE CONNECTION</u> OPTION BOARD FOR AN IBM PC TO ALLOW THE IBM PC TO ACT AS A WORKSTATION ON A WANG VS SYSTEM. | 742-1695 741-1695 | BROWN | MNL |
| WANGNET, | PERIPHERALS | <u>WANGNET PERIPHERALS BAND</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1697 | RED | SHB |
| PRINTER, | LASER | <u>LIS 24 LASER IMAGING SYSTEM</u> INCLUDES DETAILED INFORMATION ABOUT CALL MANAGEMENT, FAULT ISOLATION PROCEDURES, COMPONENT LOCATION, AND WIRING DATA. | 742-1698-B 741-1698-B | ORANGE | MNL |
| DISK DRIVE, | FMD | <u>2265V-3 CDC FMD DISK DRIVE</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1699 | ORANGE | SHB |
| DISK DRIVE, | FMD | <u>2265V-3 CDC FMD DISK DRIVE</u> CONTAINS CORRECTIONS. | FICHE N/A 741-1699-1 | ORANGE | SHBP |
| MONITOR, | MONOCHROME | <u>PM004L MONOCHROME MONITOR</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1700 | ORANGE | SHB |
| MONITOR, | COLOR | <u>PM005 COLOR MONITOR</u> CONTAINS THEORY OF OPERATION, OPERATION, INSTALLATION, AND MAINTENANCE. | 742-1701-A 741-1701-A | ORANGE | MNL |
| SOFTWARE, | REFERENCE | <u>WP PLUS SOFTWARE FIELD GUIDE</u> CONTAINS OVERVIEW, INSTALLATION, SYSTEM FILES, RECOVERY, WP PLUS PRINTING, ARCHIVING VERSUS BACKUP. | FICHE N/A 741-1704 | WHITE | SF6 |
| SYSTEM, | COMPUTER | <u>VS 5, 6 COMPUTER SYSTEM</u> PROVIDES OPERATION, INSTALLATION, REMOVAL AND REPLACEMENT, MAINTENANCE, AND TROUBLESHOOTING. | 742-1705 741-1705 | BLUE | MNL |
| SYSTEM, | COMPUTER | <u>VS 5, 6 COMPUTER SYSTEM</u> CONTAINS UPDATED CABLING, PART NUMBERS, AND OPTION INFORMATION. | 742-1705-1 741-1705-1 | BLUE | PUB |

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| SYSTEM, COMPUTER | <u>VS 5, 6 COMPUTER SYSTEM</u> ADDS APPENDIX A AND B. | 742-1705-2 741-1705-2 | BLUE | PUB |
| CABLE CONCENTRATOR, LARGE | <u>VS LARGE CABLE CONCENTRATOR</u> CONTAINS INTRODUCTION, INSTALLATION, CORRECTIVE AND PREVENTIVE MAINTENANCE. | 742-1706 741-1706 | BLUE | MNL |
| CABLE CONCENTRATOR, LARGE | <u>VS LARGE CABLE CONCENTRATOR</u> ADDS APPENDIX A, SPS347 POWER SUPPLY. | 742-1706-1 741-1706-1 | BLUE | PUB |
| CABLE CONCENTRATOR, LARGE | <u>VS LARGE CABLE CONCENTRATOR</u> ADDS APPENDIX B, 32-PORT SERIAL CHANNEL SWITCH. | 742-1706-2 741-1706-2 | BLUE | PUB |
| DIAGNOSTIC, DESKTOP | <u>WANG OFFICE ASSISTANT BIT/DASD DIAGNOSTIC</u> QUICK REFERENCE FOR: BUILT-IN TEST, SYSTEM DIAGNOSTIC, PART NUMBER/REVISION HISTORY, AND REVISION CODE DECIPHERING. | FICHE N/A 741-1707 | BROWN | DHB |
| CONTROLLER, TELECOMMUNICATIONS | <u>2200 TELECOMMUNICATIONS CONTROLLERS</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, ERROR CODES. | FICHE N/A 741-1708 | RED | SHB |
| WORKSTATION, VS/DIS | <u>4230A VS/DIS WORKSTATION</u> CONTAINS OPERATION, INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1709 741-1709 | ORANGE | MNL |
| SYSTEM, COMPUTER | <u>VS 300 COMPUTER SYSTEM</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1711 | BLUE | SHB |
| SWITCH, REMOTE CLUSTER | <u>REMOTE CLUSTER SWITCH FW-RCS-16S</u> PROVIDES INSTALLATION, OPERATION, MAINTENANCE, THEORY OF OPERATION, AND IPB. | 742-1712 741-1712 | RED | MNL |
| SWITCH, REMOTE CLUSTER | <u>REMOTE CLUSTER SWITCH FW-RCS-16S</u> PROVIDES INFORMATION FOR NEW LOOPBACK CONNECTOR, AND CORRECTS CERTAIN PART NUMBERS. | 742-1712-1 741-1712-1 | RED | PUB |
| VOICE PRODUCT, DVX | <u>DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B)</u> PROVIDES DESCRIPTION, OPERATION, INSTALLATION, THEORY OF OPERATION, DIAGRAMS AND MAINTENANCE. | 742-1720 741-1720 | RED | MNL |
| VOICE PRODUCT, DVX | <u>DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B)</u> ADDS APPENDIX E, DVX LOW PROFILE IOMP CABINET. | 742-1720-1 741-1720-1 | RED | PUB |
| VOICE PRODUCT, DVX | <u>DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B)</u> ADDS APPENDIX F, DVX IOMP-B OPTION. | 742-1720-2 741-1720-2 | RED | PUB |

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|---------------------|----------------------|--|--------------------------|--------|------|
| SYSTEM, | COMPUTER | <u>VS 7100 7110, 7120, 7150 COMPUTER SYSTEM</u> PROVIDES OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, AND TROUBLESHOOTING | 742-1721-A 741-1721-A | BLUE | MNL |
| DIAGNOSTIC, | DIS | <u>OIS FTU DIAGNOSTIC</u> QUICK REFERENCE FOR: OPERATION, REVISION CODE DECIPHERING, PART NUMBER/REVISION HISTORY, DEVICE TYPES, AND PROMPTS AND ERROR MESSAGES. | FICHE N/A 741-1722 | GREEN | DHB |
| OPTION, | LOCAL COMMUNICATIONS | <u>2200 LOCAL COMMUNICATIONS OPTION</u> PROVIDES INSTALLATION, OPERATION, MAINTENANCE, AND SPECIFICATIONS. | 742-1723 741-1723 | RED | MNL |
| OPTION, | LOCAL COMMUNICATIONS | <u>2200 LOCAL COMMUNICATIONS OPTION</u> UPDATES IPB AND CORRECTS VSOS RELEASE NUMBER. | 742-1723-1 741-1723-1 | RED | PUB |
| 802.3, | WANGNET ADAPTER | <u>802.3 WANGNET WANGBAND ADAPTER</u> CONTAINS INSTALLATION, CHECKOUT, PARTS REPLACEMENT, AND TROUBLESHOOTING. | 742-1724 741-1724 | RED | MNL |
| 802.3, | WANGNET ADAPTER | <u>802.3 WANGNET WANGBAND ADAPTER</u> CORRECTS SWITCH POSITIONING ERROR. | 742-1724-1 741-1724-1 | RED | PUB |
| SCANNER, | SHEET FEED | <u>SHEET FEED SCANNER</u> CONTAINS THEORY, INSTALLATION, REMOVAL AND REPLACEMENT, TROUBLESHOOTING, AND INTERFACE STRUCTURE. | 742-1726 741-1726 | ORANGE | MNL |
| WORKSTATION, | 2200 | <u>2436DW/DE</u> PROVIDES INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1727 741-1727 | ORANGE | MNL |
| WORKSTATION, | 2200 | <u>2436DW/DE</u> CORRECTS THE BAUD RATE SWITCH SETTINGS AND LABELS FOR THE PARITY SWITCH AND THE DATA BITS SWITCH. | 742-1727-1 741-1727-1 | ORANGE | PUB |
| SYSTEM, | COMPUTER | <u>VS 15, 25, 45, 65 COMPUTER SYSTEM</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1730 | BLUE | SHB |
| TAPE DRIVE, | MAGNETIC | <u>2229, 2529, 6529 CARTRIDGE TAPE DRIVE</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1731 | ORANGE | SHB |
| VOICE PRODUCT, | WANG TELEMODEM | <u>CA-1200/2400</u> PROVIDES OPERATION, INSTALLATION, AND MAINTENANCE. | 742-1732 741-1732 | RED | MNL |

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|---------------------|------------------|---|--------------------------|--------|------|
| RSAF, | HOST USERS GUIDE | <u>RSAF 2 (PC)</u> INCLUDES A DESCRIPTION OF THE PROGRAM, INSTALLATION, OPERATION, AND SECURITY. | 742-1734 741-1734 | RED | MNL |
| RSAF, | HOST USERS GUIDE | <u>RSAF 2 (PC)</u> UPDATES WITH NEW PC HOST SOFTWARE. | 742-1734-1 741-1734-1 | RED | PUB |
| SCANNER, | SHEET FEED | <u>PIC PM06 SHEET FEED SCANNER</u> QUICK REFERENCE FOR: PCB COMPLEMENTS, CABLING, SWITCH SETTINGS/JUMPERS, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1735 | ORANGE | SHB |
| VOICE PRODUCT, | WBX | <u>WBX DIGITAL CONTROL SWITCH RELEASE 1</u> PROVIDES INSTALLATION, OPERATION, THEORY, MAINTENANCE, AND TROUBLESHOOTING. | 742-1738 741-1738 | RED | MNL |
| VOICE PRODUCT, | WBX | <u>WBX DIGITAL CONTROL SWITCH RELEASE 1 UPDATE TO RELEASE 2</u> UPDATE TO RELEASE 2 | 742-1738-1 741-1738-1 | RED | PUB |
| TERMINAL, | VS | <u>2110A TERMINAL</u> CONTAINS OPERATION, INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING. | 742-1740 741-1740 | ORANGE | MNL |
| SYSTEM, | COMPUTER | <u>VS 5, 6 COMPUTER SYSTEM</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, ERROR CODES, ADJUSTMENTS/TEST POINTS. | FICHE N/A 741-1741 | BLUE | SHB |
| DIAGNOSTIC, | VS | <u>VS 300 COMPUTER SYSTEM ON/OFF-LINE DIAGNOSTIC</u> QUICK REFERENCE FOR: OFF-LINE DIAGNOSTICS, REVISION CODE DECIPHERING, AND PART NUMBER/ REVISION HISTORY. | FICHE N/A 741-1742 | BLUE | DHB |
| PRINTER, | MATRIX | <u>PM017 EPSON 420 MATRIX PRINTER</u> PROVIDES OPERATION, TROUBLESHOOTING, AND REPAIR. | 742-1744 741-1744 | ORANGE | MNL |
| PRINTER, | MATRIX | <u>PM017 EPSON 420 MATRIX PRINTER</u> UPDATES PART NUMBER LISTINGS. | 742-1744-1 741-1744-1 | ORANGE | PUB |
| MONITOR, | COLOR | <u>PANASONIC 19-IN. COLOR CRT DISPLAY TX-2002MC</u> CONTAINS SPECIFICATIONS, ADJUSTMENTS AND REPAIR DISASSEMBLY, BLOCK DIAGRAM, SCHEMATICS, TROUBLESHOOTING, AND REPLACEMENT PARTS LIST. | 742-1745 741-1745 | ORANGE | MNL |
| SYSTEM, | COMPUTER | <u>LAPTOP COMPUTER SYSTEM</u> PROVIDES IDENTIFICATION, CONTROL AND INDICATOR, OPERATION, MAINTENANCE, TROUBLESHOOTING, REPAIR ADJUSTMENT, INSTALLATION, AND IPB. | 742-1747 741-1747 | BROWN | MNL |

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| SYSTEM, COMPUTER | <u>LAPTOP COMPUTER SYSTEM</u> ADDS REPLACEMENT PROCEDURES FOR BASE UNIT AND REMOVAL/ REPLACEMENT FOR BOTH 3.5-INCH AND 5.25-INCH DRIVES. | 742-1747-1 741-1747-1 | BROWN | PUB |
| SYSTEM, COMPUTER | <u>LAPTOP COMPUTER SYSTEM</u> ADDS THE LOCAL COMMUNICATION OPTION. | 742-1747-2 741-1747-2 | BROWN | PUB |
| PHOTOTYPESETTER, | <u>5548, 5548Z PHOTOTYPESETTER</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, ERROR CODES, ADJUSTMENTS/TEST POINTS AND COMMONLY USED PARTS. | FICHE N/A 741-1753 | ORANGE | SHB |
| PRINTER, DAISY | <u>JUKI DAISY PRINTER</u> CONTAINS SPECIFICATIONS, REPAIR, ADJUSTMENT, CIRCUIT THEORY, TROUBLESHOOTING, AND PARTS INFORMATION. | 742-1754 741-1754 | ORANGE | MNL |
| PRINTER, DAISY | <u>JUKI DAISY PRINTER</u> ADDS APPENDIX FOR PC-PH018 AND 2200-PH018. | 742-1754-1 741-1754-1 | ORANGE | PUB |
| MODEM, LDSU | <u>9630 CODEX 2122 LDSU MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TESTING INSTRUCTIONS. | 742-1755 741-1755 | RED | MNL |
| MODEM, AUTO CALLING UNIT | <u>9626 CODEX 2207 AUTO CALLING UNIT</u> PROVIDES INSTRUCTIONS FOR CONFIGURING, OPERATING, AND INSTALLING THE UNIT WITH EITHER RS-232C OR RS-366A INTERFACES. | 742-1757 741-1757 | RED | MNL |
| SYSTEM, WORD PROCESSING | <u>WP 10A, 20, 25, 30 WORD PROCESSING SYSTEM</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, MAJOR PCB FUNCTIONS, ERROR CODES, ADJUSTMENTS/TEST POINTS COMMONLY USED PARTS. | FICHE N/A 741-1758 | GREEN | SHB |
| CONTROLLER, TELECOMMUNICATIONS | <u>WP/OIS TELECOMMUNICATIONS CONTROLLERS</u> QUICK REFERENCE FOR: MODEL DIFFERENCES, PCB COMPLEMENTS, SWITCH SETTINGS/JUMPERS, CABLING, MAJOR PCB FUNCTIONS, ERROR CODES, ADJUSTMENTS/TEST POINTS, COMMONLY USED PARTS. | FICHE N/A 741-1759 | RED | SHB |
| MODEM, DATA | <u>CODEX LSI 96/V.29 DATA MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TESTING INSTRUCTIONS. | 742-1761 741-1761 | RED | MNL |
| MODEM, LDSU | <u>9631 CODEX 2111 LDSU MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TESTING INSTRUCTIONS. | 742-1762 741-1762 | RED | MNL |

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| MODEM, LDSU | <u>9615 CODEX 2121 LDSU MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TESTING INSTRUCTIONS. | 742-1763 741-1763 | RED | MNL |
| DIAGNOSTIC, DESKTOP | <u>LAPTOP COMPUTER SYSTEM MLTC DIAGNOSTIC</u> QUICK REFERENCE FOR: PROM-BASED DIAGNOSTICS, MLTC DIAGNOSTIC UTILITY, REV CODE DECIPHERING, BIT ERROR CODES, JUMPER CONFIGURATIONS FOR BIT MODES, AND PART NUMBER/REVISION HISTORY. | FICHE N/A 741-1765 | BROWN | DHB |
| DIAGNOSTIC, VS | <u>VSTEST VS COMPUTER SYSTEM ONLINE DIAGNOSTIC TEST PACKAGE</u> QUICK REFERENCE FOR: OPERATION, LOCALLY- CONTROLLED WORKSTATION TESTS, REVISION CODE DECIPHERING, PART NUMBER/REVISION HISTORY, DEVICES TESTED BY VSTEST, AND ERROR AND STATUS MESSAGES AND CODES. | FICHE N/A 741-1767 | BLUE | DHB |
| MODEM, ERROR CORRECTING | <u>9632 CODEX 2270 ERROR CORRECTING MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TESTING INSTRUCTIONS. | 742-1768 741-1768 | RED | MNL |
| SYSTEM, COMPUTER | <u>WANG COMPUTER SYSTEM CS-2, CS-5</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TROUBLESHOOTING. | 742-1769 741-1769 | YELLOW | MNL |
| AMMUS, | <u>AMMUS INSTALLATION GUIDE</u> CONTAINS INSTALLATION AND SETUP INFORMATION FOR AMMUS MODEMS, SPECIAL PRODUCTS, SOFTWARE, AND RELATED INSTALLATION ACTIVITIES. | 742-1770 741-1770 | WHITE | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER PC 280</u> CONTAINS INSTALLATION, OPERATION, REPAIR, AND TROUBLESHOOTING. | 742-1771 741-1771 | BROWN | MNL |
| SYSTEM, COMPUTER | <u>VS 7300 7310, 7320 COMPUTER SYSTEM</u> PROVIDES OPERATION, INSTALLATION, PREVENTIVE AND CORRECTIVE MAINTENANCE, TROUBLESHOOTING. | 742-1772 741-1772 | BLUE | MNL |
| READER, OPTICAL CHARACTER | <u>9616 DEST 213A OPTICAL CHARACTER READER</u> CONTAINS GENERAL INFORMATION, INSTALLATION, THEORY OF OPERATION, TROUBLESHOOTING, OPERATOR MESSAGE PANEL, IPB, REPLACEMENT, ADJUSTMENT AND ALIGNMENT PROCEDURES. | 742-1773 741-1773 | ORANGE | MNL |
| MODEM, DATA | <u>9621 CODEX 2220 DATA MODEM</u> PROVIDES INSTALLATION, OPERATION, AND TEST INSTRUCTIONS. | 742-1774 741-1774 | RED | MNL |

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| PRINTER, | LASER | <u>LCS 15 RICOH LP4150 LASER COMPOSITION SYSTEM</u> CONTAINS OPERATION, DESCRIPTION OF INTERNAL MECHANISM, PARTS REPLACEMENT, ADJUSTMENT, THEORY, AND TROUBLESHOOTING. | 742-1775 741-1775 | ORANGE | MNL |
| MODEM, | GROUP BAND | <u>9625 CODEX 8300 GROUP BAND MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TESTING INSTRUCTIONS. | 742-1776 741-1776 | RED | MNL |
| MODEM, | DATA | <u>9620 CODEX LSI 48/V.27 DATA MODEM</u> PROVIDES INSTALLATION, OPERATION, AND TEST INSTRUCTIONS. | 742-1778 741-1778 | RED | MNL |
| MODEM, | DATA | <u>9624 CODEX V.22 DATA MODEM</u> PROVIDES INSTALLATION, OPERATION, AND TEST INSTRUCTIONS. | 742-1780 741-1780 | RED | MNL |
| MODEM, | BIPLEXER | <u>9629 CODEX 296 BIPLEXER MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TEST INSTRUCTIONS. | 742-1781 741-1781 | RED | MNL |
| MODEM, | DATA | <u>9634 CODEX 2205 DATA MODEM</u> PROVIDES INSTALLATION, OPERATION, AND TEST INSTRUCTIONS. | 742-1782 741-1782 | RED | MNL |
| MODEM, | DATA | <u>9633 CODEX 2222 DATA MODEM</u> PROVIDES FUNCTIONAL DESCRIPTION, OPERATION, INSTALLATION, AND TEST INSTRUCTIONS. | 742-1783 741-1783 | RED | MNL |
| TERMINAL, | AUTOMATIC COIN | <u>9608 TELEQUIP ACT 1 AUTOMATIC COIN TERMINAL</u> PROVIDES MAINTENANCE, THEORY, REPAIR, AND TROUBLESHOOTING. | 742-1784 741-1784 | ORANGE | MNL |
| PRINTER, | TRANSACTION | <u>9612 9613 PRINTER PRODUCTS S400T</u> PROVIDES MAINTENANCE, THEORY OF OPERATION, AND TROUBLESHOOTING. | 742-1785 741-1785 | ORANGE | MNL |
| TERMINAL, | FINANCIAL | <u>8700 FINANCIAL TERMINAL</u> | 742-1786 741-1786 | ORANGE | MNL |
| MONITOR, | COLOR | <u>PANASONIC 16-IN MON 1650</u> | 742-1789 741-1789 | ORANGE | MNL |
| PRINTER, | MATRIX | <u>LN400, LM700, LM900 PRINTRONIX P9000 SHUTTLE MATRIX PRINTER</u> CONTAINS MAINTENANCE, OPERATION, CLEANING AND INSPECTION, TROUBLESHOOTING, CORRECTIVE MAINTENANCE, REPLACEMENT, ALIGNMENT AND ADJUSTMENT. | 742-1790 741-1790 | ORANGE | MNL |

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| MODEM, | DATA | <u>9622 CODEX 2219 DATA MODEM</u> CONTAINS INSTALLATION, OPERATION, AND FUNCTIONAL DESCRIPTION. | 742-1792 741-1792 | RED MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER PC 380</u> CONTAINS INSTALLATION, OPERATION, REPAIR, AND TROUBLESHOOTING. | 742-1793 741-1793 | BROWN MNL |
| 802.3, | VS INTERFACE | <u>802.3 VS INTERFACE</u> PROVIDES INSTALLATION, TROUBLESHOOTING, REPAIR, AND FUNCTIONAL DESCRIPTION. | 742-1794 741-1794 | RED MNL |
| TERMINAL, | CASHIER | <u>9607/A COMTEX 3010Z CASHIER TERMINAL VOLUME 1</u> PROVIDES INSTALLATION, MANAGER OPERATION, CASHIER OPERATION, AND CONFIGURATION. | 742-1797 741-1797 | ORANGE MNL |
| TERMINAL, | CASHIER | <u>9607/A COMTEX 3010Z CASHIER TERMINAL VOLUME 2</u> PROVIDES PROGRAMMING, COMMUNICATIONS SPECIFICATIONS, AND CIRCUIT-LEVEL THEORY. | 742-1798 741-1798 | ORANGE MNL |
| TAPE DRIVE, | TRI DENSITY | <u>2248V-1 TELEX 9087 TRI DENSITY TAPE DRIVE</u> PROVIDES INTRODUCTION, OPERATION, THEORY OF OPERATION, MAINTENANCE, FIELD REPLACEABLE UNITS PARTS LIST, DIAGNOSTICS, PINOUTS AND SIGNAL NAMES AND REMOVAL/REPLACEMENT PROCEDURES. | 742-1799-A 741-1799-A | ORANGE MNL |
| MONITOR, | FULL PAGE | <u>FULL PAGE MONITOR 1640</u> PROVIDES OPERATION, INSTALLATION, THEORY, AND MAINTENANCE. | 742-1800 741-1800 | ORANGE MNL |
| SYSTEM, | INTEGRATED IMAGE | <u>WANG INTEGRATED IMAGE SYSTEM</u> PROVIDES INSTALLATION AND TROUBLESHOOTING. | 742-1801 741-1801 | BLUE MNL |
| CABINET, | DATA STORAGE | <u>2200 DATA STORAGE CABINET</u> PROVIDES DESCRIPTION, INSTALLATION, CHECKOUT, TROUBLESHOOTING, AND PARTS REPLACEMENT. | 742-1806 741-1806 | YELLOW MNL |
| CABINET, | DATA STORAGE | <u>2200 DATA STORAGE CABINET</u> PROVIDES CORRECTIONS SECTIONS 9 AND 12. | 742-1806-1 741-1806-1 | YELLOW PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | <u>PROFESSIONAL COMPUTER PC 240</u> CONTAINS INSTALLATION, OPERATION, REPAIR, AND TROUBLESHOOTING. | 742-1808 741-1808 | BROWN MNL |
| ATM, | AUTOMATIC TELLER | <u>AUTOMATIC TELLER MACHINES DIEBOLD MDS 1000 TERMINAL</u> REPRINT OF THREE MANUALS: MDS FASCIA SERVICE MANUAL, MDS CONSUMER INTERFACE PANEL SECOND- LINE SERVICE MANUAL, AND 1000 SYSTEM ELECTRONIC SECOND-LINE SERVICE MANUAL. | 742-1809 741-1809 | ORANGE MNL |

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| PRINTER, | MATRIX | <u>DM-50/300 EPSON EX-800/1000 MATRIX PRINTER</u> PROVIDES GENERAL AND FUNCTIONAL DESCRIPTIONS, SWITCH SETTINGS, PARTS, ADJUSTMENTS, AND TROUBLESHOOTING. | 742-1813 741-1813 | ORANGE | MNL |
| PRINTER, | LASER | <u>LDP8 LBP-SX LASER PRINTER</u> PROVIDES DESCRIPTION, OPERATION AND TIMING, ELECTRICAL AND MECHANICAL SYSTEM, INSTALLATION, MAINTENANCE, SERVICING, AND TROUBLESHOOTING. | 742-1814 741-1814 | ORANGE | MNL |
| DISK DRIVE, | SMD | <u>CDC SMD DISK DRIVE BK4XX/BK5XX VOL 1</u> CONTAINS INSTALLATION, CHECKOUT, AND MAINTENANCE. | 742-1815 741-1815 | ORANGE | MNL |
| DISK DRIVE, | SMD | <u>CDC SMD DISK DRIVE BK5XX VOL 2</u> CONTAINS DIAGRAMS AND WIRE LISTS. | 742-1816 741-1816 | ORANGE | MNL |
| SYSTEM, | COMPUTER | <u>VS 7010 COMPUTER SYSTEM</u> PROVIDES OPERATION, INSTALLATION, REPAIR, TROUBLESHOOTING, AND IPB. | 742-1818 741-1818 | BLUE | MNL |
| PRINTER, | SPECS | <u>PRINTER PAPER SPECIFICATIONS</u> PROVIDES QUICK REFERENCE FOR PAPER SPECIFICATIONS FOR WANG PRINTERS. | FICHE N/A 741-1819 | ORANGE | SHD |
| CONDITIONER, | POWER LINE | <u>9618, 9619 MICROPOWER II POWER LINE CONDITIONER</u> CONTAINS INSTALLATION, OPERATION, THEORY, DISASSEMBLY, ADJUSTMENT, AND TROUBLESHOOTING. | 742-1822 741-1822 | WHITE | MNL |
| PRINTER, | MATRIX | <u>PM060, 5578 JUKI 7100 COLOR MATRIX PRINTER</u> CONTAINS SPECIFICATIONS, MAINTENANCE, VERTICAL ALIGNMENT, ADJUSTMENTS, POWER SUPPLY SEQUENCE, LUBRICATION, TROUBLESHOOTING, AND LOGIC DIAGRAMS. | 742-1823 741-1823 | ORANGE | MNL |

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| 802.3, | VS INTERFACE | 802.3 VS INTERFACE | 742-1794 741-1794 | RED MNL |
| 802.3, | WANGNET ADAPTER | 802.3 WANGNET WANGBAND ADAPTER | 742-1724 741-1724 | RED MNL |
| 802.3, | WANGNET ADAPTER | 802.3 WANGNET WANGBAND ADAPTER | 742-1724-1 741-1724-1 | RED PUB |
| AMMUS, | | AMMUS INSTALLATION GUIDE | 742-1770 741-1770 | WHITE MNL |
| ATM, | AUTOMATIC TELLER | AUTOMATIC TELLER MACHINES DIEBOLD MDS 1000 TERMINAL | 742-1809 741-1809 | ORANGE MNL |
| CABINET, | DATA STORAGE | 2200 DATA STORAGE CABINET | 742-1806 741-1806 | YELLOW MNL |
| CABINET, | DATA STORAGE | 2200 DATA STORAGE CABINET | 742-1806-1 741-1806-1 | YELLOW PUB |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674 741-1674 | ORANGE MNL |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674-1 741-1674-1 | ORANGE PUB |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674-2 741-1674-2 | ORANGE PUB |
| CABLE CONCENTRATOR, | LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706 741-1706 | BLUE MNL |
| CABLE CONCENTRATOR, | LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706-1 741-1706-1 | BLUE PUB |
| CABLE CONCENTRATOR, | LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706-2 741-1706-2 | BLUE PUB |
| CABLE CONCENTRATOR, | SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A 741-1694-A | BLUE MNL |
| CABLE CONCENTRATOR, | SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A1 741-1694-A1 | BLUE PUB |
| CABLE CONCENTRATOR, | SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A2 741-1694-A2 | BLUE PUB |

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|---------------------|----------------------|---|---------------------------|------------|
| CATALOG, | LISTINGS | CUSTOMER SERVICE DOCUMENTATION LISTINGS | 742-0000-A 741-0000-A | WHITE CAT |
| CATALOG, | TOOL/TEST EQUIP. | TOOL AND TEST EQUIPMENT CATALOG | 742-0960 PAPER N/A | WHITE CAT |
| CONDITIONER, | POWER LINE | 9618, 9619 MICROPOWER II POWER LINE CONDITIONER | 742-1822 741-1822 | WHITE MNL |
| CONTROLLER, | ASYN. TELECOMMUNICA | DIS 5594-4 ASYN. TELECOMMUNICATIONS CONTROLLER | 742-0682 PAPER N/A | RED MNL |
| CONTROLLER, | BINARY SYNC. TELECOM | DIS 5528 BINARY SYNC. TELECOMMUNICATIONS CONTROLLER | 742-0681 PAPER N/A | RED MNL |
| CONTROLLER, | COMMUNICATIONS | RESOURCE SHARING FACILITY VS | 742-1683 741-1683 | BLUE MNL |
| CONTROLLER, | DATA LINK | 928W MASTER DATA LINK | 742-1268 729-1268-A | RED MNL |
| CONTROLLER, | DATA LINK | 928W MASTER DATA LINK | 742-1268-2 729-1268-A2 | RED PUB |
| CONTROLLER, | TELECOMMUNICATIONS | 2200 2228D TELECOMMUNICATIONS CONTROLLER | 742-0858 PAPER N/A | RED MNL |
| CONTROLLER, | TELECOMMUNICATIONS | 2200 TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1708 | RED SHB |
| CONTROLLER, | TELECOMMUNICATIONS | TCB-1/DLP-64/128 TELECOMMUNICATIONS CONTROLLER | 742-0887 729-0887-B | RED MNL |
| CONTROLLER, | TELECOMMUNICATIONS | VS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1650 | RED SHB |
| CONTROLLER, | TELECOMMUNICATIONS | WP/DIS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1759 | RED SHB |
| CONTROLLER, | WANG INTER-SYSTEM EX | WISE 6550-1 WANG INTER-SYSTEM EXCHANGE CONTROLLER | 742-0906 741-0906 | ORANGE MNL |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA-20, WOA-20/P | 742-1402-A 741-1402-A | BROWN MNL |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA20, WOA20/P, WOA20/P55 | FICHE N/A 741-1627 | BROWN SHB |

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|--------------------------------|--|-------------------------|--------|------|
| DIAGNOSTIC, DESKTOP | LAPTOP COMPUTER SYSTEM MLTC DIAGNOSTIC | FICHE N/A 741-1765 | BROWN | DHB |
| DIAGNOSTIC, DESKTOP | WANG OFFICE ASSISTANT BIT/DASD DIAGNOSTIC | FICHE N/A 741-1707 | BROWN | DHB |
| DIAGNOSTIC, OIS | OIS 140 CLASS OFFICE INFORMATION SYSTEM MASTER MONITOR DIAGNOSTIC | FICHE N/A 741-1322 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1328 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 40, 50, 60, 70 OFFICE INFORMATION SYSTEM BIT/DTOS DIAGNOSTICS | FICHE N/A 741-1471-A | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 50 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1392 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 60 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTIC | FICHE N/A 741-1646 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS FTU DIAGNOSTIC | FICHE N/A 741-1722 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS OFFICE INFORMATION SYSTEM DTOS DIAGNOSTICS VOLUME 3 | FICHE N/A 741-1356 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS OFFICE INFORMATION SYSTEM SINGLE CHANNEL DIAGNOSTIC | FICHE N/A 741-1628 | GREEN | DHB |
| DIAGNOSTIC, PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435 | BROWN | DHB |
| DIAGNOSTIC, PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-1 | BROWN | DHBP |
| DIAGNOSTIC, PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-2 | BROWN | DHBP |
| DIAGNOSTIC, PRINTER | DTOS TESTS FOR PRINTERS DIAGNOSTICS | FICHE N/A 741-1375 | ORANGE | DHB |
| DIAGNOSTIC, TAPE DRIVES | DTOS TESTS FOR MAGNETIC TAPE DRIVES DIAGNOSTICS | FICHE N/A 741-1374 | ORANGE | DHB |
| DIAGNOSTIC, TELECOMMUNICATIONS | DTOS TESTS FOR VS/OIS TELECOMMUNICATIONS DIAGNOSTICS | FICHE N/A 741-1377 | RED | DHB |

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|------------------------------|---|--------------------------|--------|------|
| DIAGNOSTIC, VS | VS 25, 45 BP MONITOR DIAGNOSTICS | FICHE N/A 741-1320 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 300 COMPUTER SYSTEM ON/OFF-LINE DIAGNOSTIC | FICHE N/A 741-1742 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309-1 | BLUE | DHBP |
| DIAGNOSTIC, VS | VS COMPUTER SYSTEM STANDALONE DIAGNOSTIC | FICHE N/A 741-1256 | BLUE | DHB |
| DIAGNOSTIC, VS | VS SYSTST ONLINE DIAGNOSTIC | FICHE N/A 741-1257 | BLUE | DHB |
| DIAGNOSTIC, VS | VSTEST VS COMPUTER SYSTEM ONLINE DIAGNOSTIC TEST PACKAGE | FICHE N/A 741-1767 | BLUE | DHB |
| DIAGNOSTIC, WANGWRITER | WANGWRITER IN-SYSTEM DIAGNOSTICS | FICHE N/A 741-1497 | GREEN | DHB |
| DIAGNOSTIC, WORKSTATION | DTOS TESTS FOR WORKSTATIONS DIAGNOSTICS | FICHE N/A 741-1378 | ORANGE | DHB |
| DISK DRIVE, CARTRIDGE | CDC 9427H CARTRIDGE DISK DRIVE | 742-0884 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, CARTRIDGE MODULE | CDC BK4XX CARTRIDGE MODULE DISK DRIVE | 742-1063-A 741-1063-A | ORANGE | MNL |
| DISK DRIVE, FIXED | 2268V-1, 6568-1 NEC 85 FIXED DISK DRIVE | FICHE N/A 741-1678 | ORANGE | SHB |
| DISK DRIVE, FIXED | DIABLO 40/43 FIXED DISK DRIVE PARTS LIST | 742-0899 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, FIXED | DIABLO 44B 2260 SERIES FIXED DISK DRIVE | FICHE N/A 741-1625 | ORANGE | SHB |
| DISK DRIVE, FIXED | NEC 167 FIXED DISK DRIVE | FICHE N/A 741-1684 | ORANGE | SHB |
| DISK DRIVE, FIXED | NEC D2257 FIXED DISK DRIVE | 742-1503 729-1503 | ORANGE | MNL |

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| DISK DRIVE, | FIXED | NEC D2257 FIXED DISK DRIVE | 742-1503-1 729-1503-1 | ORANGE | PUB |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699 | ORANGE | SHB |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699-1 | ORANGE | SHBP |
| DISK DRIVE, | FSD | CDC FSD DISK DRIVE DIAGRAMS | 742-1663 741-1663 | ORANGE | MNL |
| DISK DRIVE, | FSD | CDC FSD DISK DRIVE INSTALLATION | 742-1660 741-1660 | ORANGE | MNL |
| DISK DRIVE, | FSD | CDC FSD DISK DRIVE THEORY | 742-1662 741-1662 | ORANGE | MNL |
| DISK DRIVE, | HAWK | CDC HAWK DISK DRIVE | FICHE N/A 741-1651-A | ORANGE | SHB |
| DISK DRIVE, | PHOENIX | CDC PHOENIX DISK DRIVE 2280-1/2/3, 2280V-1/2/3, 6580V-1/2/3 | FICHE N/A 741-1652-A | ORANGE | SHB |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE CROSS REFERENCE PART NUMBER LIST | 742-1491-1 741-1491-1 | ORANGE | PUB |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE DIAGRAMS VOLUME 3 | 742-1489 741-1489 | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE INSTALLATION VOLUME 1 | 742-1491 741-1491 | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE THEORY OF OPERATION REPAIR, REPLACEMENT VOLUME 2 | 742-1490-A 741-1490-A | ORANGE | MNL |
| DISK DRIVE, | SMD | 2265V-2, 6565 CDC BK6XX, BK7XX SMD DISK DRIVE | 742-0222-A 741-0222-A | ORANGE | MNL |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A | ORANGE | SHB |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A1 | ORANGE | SHBP |
| DISK DRIVE, | SMD | CDC BK4XX/BK5XX SMD DISK DRIVE DESCRIPTION/ OPERATION/THEORY/CIRCUITS | 742-0209-A 741-0209-A | ORANGE | MNL |

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|-------------------------------|--|---------------------------|--------|------|
| DISK DRIVE, SMD | CDC BK5XX/BK7XX SMD DISK DRIVE OPERATION/ TROUBLESHOOTING/REPAIR | 742-0211-A 741-0211-A | ORANGE | MNL |
| DISK DRIVE, SMD | CDC BK6XX/BK7XX SMD DISK DRIVE | 742-0221-1 729-0221-A1 | ORANGE | PUB |
| DISK DRIVE, SMD | CDC BK6XX/BK7XX SMD DISK DRIVE INSTALLATION/ MAINTENANCE/PARTS/WIRE LISTS | 742-0221 729-0221-A | ORANGE | MNL |
| DISK DRIVE, SMD | CDC SMD DISK DRIVE BK4XX/BK5XX VOL 1 | 742-1815 741-1815 | ORANGE | MNL |
| DISK DRIVE, SMD | CDC SMD DISK DRIVE BK5XX VOL 2 | 742-1816 741-1816 | ORANGE | MNL |
| DISK DRIVE, WINCHESTER | NEC D2246 WINCHESTER DISK DRIVE MAINTENANCE | 742-1452 729-1452 | ORANGE | MNL |
| DISK DRIVE, WINCHESTER | QUANTUM Q-2000 WINCHESTER DISK DRIVE | 742-1060 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, WINCHESTER | SHUGART SA-1000 WINCHESTER DISK DRIVE | 742-0898 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, WINCHESTER/FLOPPY | 2275 DISK PERIPHERAL WINCHESTER/FLOPPY DISK DRIVE | 742-1345-A 741-1345-A | ORANGE | MNL |
| DISKETTE DRIVE, FLOPPY | SHUGART SA-850/851 FLOPPY DISKETTE DRIVE SERVICE | 742-0862 PAPER N/A | ORANGE | MNL |
| DISKETTE DRIVE, FLOPPY | SHUGART SA-851 FLOPPY DISKETTE DRIVE ADJUSTMENTS | 742-0967 PAPER N/A | ORANGE | PSN |
| FEEDER, DUAL SHEET | DUAL SHEET FEEDER DSF-55,551,55IT,55T,77,771 | FICHE N/A 741-1665 | ORANGE | SHB |
| FEEDER, DUAL SHEET/ENVELOPE | ZIYAD Z303 Z306 DUAL SHEET/ENVELOPE FEEDER MAINTENANCE | 742-1231 741-1231 | ORANGE | MNL |
| FEEDER, ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12 | 742-0873 PAPER N/A | ORANGE | MNL |
| FEEDER, ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12,13,21,22,23 | FICHE N/A 741-1611-A | ORANGE | SHB |
| FEEDER, TWIN SHEET | TWIN SHEET FEEDER 01/03/05/06/11/13/20/21/22/ 23/31/33/41/43/51/53/61 | 742-0549-A 741-0549-A | ORANGE | MNL |

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| FEEDER, | TWIN SHEET | TWIN SHEET FEEDER TSF-01,02,03,11,12,13,20,21,22,23,31,32,33,41,42 | FICHE N/A 741-1610 | ORANGE | SHB |
| FIBER OPTIC, | CONVERTER BOX | FIBER OPTIC CONVERTER BOX | 742-1649-A 741-1649-A | RED | MNL |
| FIBER OPTIC, | CONVERTER BOX | FIBER OPTIC CONVERTER BOX | 742-1649-A1 741-1649-A1 | RED | PUB |
| INPUT/OUTPUT PROCESS, | DISK | 22V18 DISK INPUT/OUTPUT PROCESSOR (IDP) | 742-0883 PAPER N/A | BLUE | PSN |
| INPUT/OUTPUT PROCESS, | WORKSTATION/PRINTER/ | VS 22V17 WORKSTATION/PRINTER/ARCHIVER INPUT/OUTPUT PROCESSOR (IDP) | 742-0932 PAPER N/A | BLUE | PSN |
| INTERFACE, | DISK MULTIPLEXER | 2280 DISK MULTIPLEXER I/O INTERFACE | 742-0904 PAPER N/A | YELLOW | PSN |
| MAINTENANCE, | PH | PREVENTATIVE MAINTENANCE | FICHE N/A 741-1687 | WHITE | SHB |
| MODEM, | AUTO CALLING UNIT | 9626 CODEX 2207 AUTO CALLING UNIT | 742-1757 741-1757 | RED | MNL |
| MODEM, | BIPLEXER | 9629 CODEX 296 BIPLEXER MODEM | 742-1781 741-1781 | RED | MNL |
| MODEM, | DATA | 9620 CODEX LSI 48/V.27 DATA MODEM | 742-1778 741-1778 | RED | MNL |
| MODEM, | DATA | 9621 CODEX 2220 DATA MODEM | 742-1774 741-1774 | RED | MNL |
| MODEM, | DATA | 9622 CODEX 2219 DATA MODEM | 742-1792 741-1792 | RED | MNL |
| MODEM, | DATA | 9624 CODEX V.22 DATA MODEM | 742-1780 741-1780 | RED | MNL |
| MODEM, | DATA | 9633 CODEX 2222 DATA MODEM | 742-1783 741-1783 | RED | MNL |
| MODEM, | DATA | 9634 CODEX 2205 DATA MODEM | 742-1782 741-1782 | RED | MNL |
| MODEM, | DATA | CODEX LSI 96/V.29 DATA MODEM | 742-1761 741-1761 | RED | MNL |

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|---------------------|------------------|--|--------------------------|------------|
| MODEM, | ERROR CORRECTING | 9632 CODEX 2270 ERROR CORRECTING MODEM | 742-1768 741-1768 | RED MNL |
| MODEM, | FIXED FREQUENCY | 9600 FIXED FREQUENCY MODEM | 741-1176 741-1176 | RED MNL |
| MODEM, | FIXED FREQUENCY | FFM-64000 FIXED FREQUENCY MODEM | 741-1215 741-1215 | RED MNL |
| MODEM, | FULL-DUPLEX | RACAL-VADIC VA-3450 FULL-DUPLEX MODEM | 742-0977 741-0997 | RED MNL |
| MODEM, | FULL-DUPLEX | RACAL-VADIC VA-3451 FULL-DUPLEX MODEM | 742-1010 PAPER N/A | RED MNL |
| MODEM, | GROUP BAND | 9625 CODEX 8300 GROUP BAND MODEM | 742-1776 741-1776 | RED MNL |
| MODEM, | LDSU | 9615 CODEX 2121 LDSU MODEM | 742-1763 741-1763 | RED MNL |
| MODEM, | LDSU | 9630 CODEX 2122 LDSU MODEM | 742-1755 741-1755 | RED MNL |
| MODEM, | LDSU | 9631 CODEX 2111 LDSU MODEM | 742-1762 741-1762 | RED MNL |
| MONITOR, | COLOR | PANASONIC 16-IN MON 1650 | 742-1789 741-1789 | ORANGE MNL |
| MONITOR, | COLOR | PANASONIC 19-IN. COLOR CRT DISPLAY TX-2002MC | 742-1745 741-1745 | ORANGE MNL |
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1643 741-1643 | ORANGE MNL |
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1643-1 741-1643-1 | ORANGE PUB |
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1701-A 741-1701-A | ORANGE MNL |
| MONITOR, | FULL PAGE | FULL PAGE MONITOR 1640 | 742-1800 741-1800 | ORANGE MNL |
| MONITOR, | MONOCHROME | PM004L LOW COST MONOCHROME MONITOR | 742-1647 741-1647 | ORANGE MNL |

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|------------------------------|---|--------------------------|--------|------|
| MONITOR, MONOCHROME | PM004L LOW COST MONOCHROME MONITOR | 742-1647-1 741-1647-1 | ORANGE | PUB |
| MONITOR, MONOCHROME | PM004L MONOCHROME MONITOR | FICHE N/A 741-1700 | ORANGE | SHB |
| MULTIPLEXER, CABLE | CNUX-3270 CABLE MULTIPLEXER | 742-1388 741-1388 | RED | MNL |
| MULTIPLEXER, CABLE | CNUX-3270 CABLE MULTIPLEXER | 742-1388-1 741-1388-1 | RED | PUB |
| NETWORK, IBM PC | WANG LOCAL OFFICE CONNECTION | 742-1695 741-1695 | BROWN | MNL |
| OPTION, LOCAL COMMUNICATIONS | 2200 LOCAL COMMUNICATIONS OPTION | 742-1723 741-1723 | RED | MNL |
| OPTION, LOCAL COMMUNICATIONS | 2200 LOCAL COMMUNICATIONS OPTION | 742-1723-1 741-1723-1 | RED | PUB |
| PHOTOTYPESETTER, | 44, 48 PHOTOTYPESETTER | 742-0465 729-0465 | ORANGE | MNL |
| PHOTOTYPESETTER, | 44, 48 PHOTOTYPESETTER | 742-0465-1 PAPER N/A | ORANGE | PUB |
| PHOTOTYPESETTER, | 5548, 5548Z PHOTOTYPESETTER | FICHE N/A 741-1753 | ORANGE | SHB |
| PHOTOTYPESETTER, | 5548Z PHOTOTYPESETTER | 742-1434 741-1434 | ORANGE | MNL |
| PRINTER, BAND | 2273/2273V/2273-1/2273V-1/2273-2/5573/5574 DATAPRODUCTS BAND PRINTER NOTES | 742-0438 741-0438 | ORANGE | MNL |
| PRINTER, BAND | 2273V-1/2273-1/2273-2/5573/5574 DATAPRODUCTS 300/600 LPM BAND PRINTER MASTER SUPPORT AND LOG | 742-1629 741-1629 | ORANGE | MNL |
| PRINTER, BAND | 2273V-1/2273-1/5573/5573-1 DATAPRODUCTS 300/ 600 LPM BAND PRINTER MAINTENANCE VOLUME 1 | 742-0434-A 741-0434-A | ORANGE | MNL |
| PRINTER, BAND | 5573/5574/2273-1-2/2273V-1 DATAPRODUCTS 300/ 600 LPM BAND PRINTER MAINTENANCE | 742-0432 741-0432 | ORANGE | MNL |
| PRINTER, BAND | DATAPRODUCTS BAND PRINTER PARTS LIST | 742-1301 729-1301 | ORANGE | MNL |

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| PRINTER, BAND | DATAPRODUCTS BP BAND PRINTER MAINTENANCE | 742-1272 729-1272 | ORANGE | MNL |
| PRINTER, BAND | DATAPRODUCTS BP BAND PRINTER SCHEMATICS | 742-1273-A 741-1273-A | ORANGE | MNL |
| PRINTER, DAISY | 2281W/MC,5541W/MC,6581W/MC/MC1 DAISY PRINTER | 742-0372 741-0372 | ORANGE | MNL |
| PRINTER, DAISY | 6581 DAISY PRINTER | FICHE N/A 741-1654 | ORANGE | SHB |
| PRINTER, DAISY | DATAPRODUCTS DAISY PRINTER SCHEMATICS | 742-1341-A 741-1341-A | ORANGE | MNL |
| PRINTER, DAISY | DIABLO 620 DAISY PRINTER | 742-1327 741-1327 | ORANGE | MNL |
| PRINTER, DAISY | DW/OS-20 DAISY PRINTER | 742-1054 741-1054 | ORANGE | MNL |
| PRINTER, DAISY | DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE | 742-1457 741-1457 | ORANGE | MNL |
| PRINTER, DAISY | DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE | 742-1457-1 741-1457-1 | ORANGE | PUB |
| PRINTER, DAISY | DW/OS-55 DATAPRODUCTS DP55 DAISY PRINTER | FICHE N/A 741-1626 | ORANGE | SHB |
| PRINTER, DAISY | JUKI DAISY PRINTER | 742-1754 741-1754 | ORANGE | MNL |
| PRINTER, DAISY | JUKI DAISY PRINTER | 742-1754-1 741-1754-1 | ORANGE | PUB |
| PRINTER, DAISY | OIS-PTR-20, PM012 DIABLO 620 DAISY PRINTER | FICHE N/A 741-1604 | ORANGE | SHB |
| PRINTER, DAISY | PM015 JUKI 6300 DAISY PRINTER | 742-1661 741-1661 | ORANGE | MNL |
| PRINTER, DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691 | ORANGE | SHB |
| PRINTER, DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691-1 | ORANGE | SHBP |

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|---------------------|---|----------------------------|--------|------|
| PRINTER, LASER | LCS 15 RICOH LP4150 LASER COMPOSITION SYSTEM | 742-1775 741-1775 | ORANGE | MNL |
| PRINTER, LASER | LDP8 LBP-SX LASER PRINTER | 742-1814 741-1814 | ORANGE | MNL |
| PRINTER, LASER | LIS 12 LASER IMAGING SYSTEM MAINTENANCE | 742-1478 741-1478 | ORANGE | MNL |
| PRINTER, LASER | LIS 24 LASER IMAGING SYSTEM | 742-1698-B 741-1698-B | ORANGE | MNL |
| PRINTER, LASER | LIS 24 LASER IMAGING SYSTEM SERVICE DATA AND PARTS LIST | 742-1670-C 741-1670-C | ORANGE | MNL |
| PRINTER, LASER | LPS 12 INTERFACE UNIT | 742-1155 729-1155 | ORANGE | MNL |
| PRINTER, LASER | LPS 12 LASER PRINTING SYSTEM | 742-1107-A 741-1107-A | ORANGE | MNL |
| PRINTER, LASER | LPS 12 LASER PRINTING SYSTEM | FICHE N/A 741-1618-A | ORANGE | SHB |
| PRINTER, LASER | LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE | 742-1104-A 741-1104-A | ORANGE | MNL |
| PRINTER, LASER | LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE | 742-1104-A1 741-1104-A1 | ORANGE | PUB |
| PRINTER, LASER | LPS 12 XEROX 8040 LASER PRINTING SYSTEM CAUSE AND EFFECT UPDATE | 742-1622 741-1622 | ORANGE | MNL |
| PRINTER, LASER | LPS 8 CANON LBP-CX LASER PRINTER | 742-1673 741-1673 | ORANGE | MNL |
| PRINTER, LASER | XEROX LASER PRINTER COPY ANALYSIS & MANAGEMENT | 742-1106 741-1106 | ORANGE | MNL |
| PRINTER, MATRIX | 2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602 | ORANGE | SHB |
| PRINTER, MATRIX | 2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602-1 | ORANGE | SHBP |
| PRINTER, MATRIX | 2231W-1/-2/-3/-6, 2231V2/2S, 5531W-2 31W MATRIX PRINTER | FICHE N/A 741-1616-A | ORANGE | SHB |

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|---------------------|---|--------------------------|--------|------|
| PRINTER, MATRIX | 2233, 2235, 5533, 5535 LOW-COST MATRIX PRINTER | FICHE N/A 741-1601-A | ORANGE | SHB |
| PRINTER, MATRIX | 2233, 2235, 5533, 5535 MATRIX PRINTER | 742-0859 741-0859 | ORANGE | MNL |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | 742-1084 741-1084 | ORANGE | MNL |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | 742-1084-1 741-1084-1 | ORANGE | PUB |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | FICHE N/A 741-1606 | ORANGE | SHB |
| PRINTER, MATRIX | DM-50/300 EPSON EX-800/1000 MATRIX PRINTER | 742-1813 741-1813 | ORANGE | MNL |
| PRINTER, MATRIX | LM400, LM700, LM900 PRINTRONIX P9000 SHUTTLE MATRIX PRINTER | 742-1790 741-1790 | ORANGE | MNL |
| PRINTER, MATRIX | PM010 EPSON MX-80 MATRIX PRINTER | 742-0976 PAPER N/A | ORANGE | MNL |
| PRINTER, MATRIX | PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE | 742-1600 741-1600 | ORANGE | MNL |
| PRINTER, MATRIX | PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE | 742-1600-1 741-1600-1 | ORANGE | PUB |
| PRINTER, MATRIX | PM017 EPSON 420 MATRIX PRINTER | 742-1744 741-1744 | ORANGE | MNL |
| PRINTER, MATRIX | PM017 EPSON 420 MATRIX PRINTER | 742-1744-1 741-1744-1 | ORANGE | PUB |
| PRINTER, MATRIX | PM019 NEC PINWRITER MATRIX PRINTER | 742-1664 741-1664 | ORANGE | MNL |
| PRINTER, MATRIX | PM060, 5578 JUKI 7100 COLOR MATRIX PRINTER | 742-1823 741-1823 | ORANGE | MNL |
| PRINTER, SPECS | PRINTER PAPER SPECIFICATIONS | FICHE N/A 741-1819 | ORANGE | SHB |
| PRINTER, THERMAL | THERMAL PRINTER | 742-1335 PAPER N/A | ORANGE | MNL |

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|---------------------|--------------------|---|--------------------------|------------|
| PRINTER, | THERMAL | THERMAL PRINTER | FICHE N/A 741-1680 | ORANGE SHB |
| PRINTER, | TRANSACTION | 9612 9613 PRINTER PRODUCTS S400T | 742-1785 741-1785 | ORANGE MNL |
| PROCESSING UNIT, | DISK | 2280 DISK PROCESSING UNIT | 742-0971 PAPER N/A | ORANGE MNL |
| PROCESSOR, | CABLE INTERFACE | DIS NCIP CABLE INTERFACE PROCESSOR | 742-1223 741-1223 | RED MNL |
| PROCESSOR, | CABLE INTERFACE | DIS NCIP CABLE INTERFACE PROCESSOR | 742-1223-1 741-1223-1 | RED PUB |
| PROCESSOR, | TELECOMMUNICATIONS | TCP TELECOMMUNICATIONS PROCESSOR | 742-1043 729-1043 | RED MNL |
| READER, | OPTICAL CHARACTER | 9616 DEST 213A OPTICAL CHARACTER READER | 742-1773 741-1773 | ORANGE MNL |
| RSAF, | HOST USERS GUIDE | RSAF 2 (PC) | 742-1734 741-1734 | RED MNL |
| RSAF, | HOST USERS GUIDE | RSAF 2 (PC) | 742-1734-1 741-1734-1 | RED PUB |
| RSAF, | VS HOST | REMOTE SYSTEM ADMINISTRATOR FACILITY (VS) | 742-1657-A 741-1657-A | BLUE MNL |
| SCANNER, | SHEET FEED | PIC PM06 SHEET FEED SCANNER | FICHE N/A 741-1735 | ORANGE SHB |
| SCANNER, | SHEET FEED | SHEET FEED SCANNER | 742-1726 741-1726 | ORANGE MNL |
| SOFTWARE, | ELECTRONIC MAIL | MAILWAY INSTALLATION | 742-0861 PAPER N/A | WHITE PSN |
| SOFTWARE, | REFERENCE | PROBE USER'S GUIDE | 742-1469-B 741-1469-B | WHITE GDE |
| SOFTWARE, | REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172 | RED SFG |
| SOFTWARE, | REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172-1 | RED SFGP |

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|---------------------|----------------|--|---------------------------|--------|------|
| SOFTWARE, | REFERENCE | VS OPERATING SYSTEM SOFTWARE FIELD GUIDE | FICHE N/A 741-1265 | BLUE | SFG |
| SOFTWARE, | REFERENCE | WANG SYSTEM NETWORKING SOFTWARE INTERNALS | FICHE N/A 741-1638 | RED | SIM |
| SOFTWARE, | REFERENCE | WP PLUS SOFTWARE FIELD GUIDE | FICHE N/A 741-1704 | WHITE | SFG |
| SWITCH, | REMOTE CLUSTER | REMOTE CLUSTER SWITCH FW-RCS-16S | 742-1712 741-1712 | RED | MNL |
| SWITCH, | REMOTE CLUSTER | REMOTE CLUSTER SWITCH FW-RCS-16S | 742-1712-1 741-1712-1 | RED | PUB |
| SWITCH BOX, | WORKSTATION | WORKSTATION SWITCH BOX SW-16 | 742-107B PAPER N/A | ORANGE | MNL |
| SYSTEM, | COMPUTER | 2200 LVP COMPUTER SYSTEM | 742-0602 741-0602 | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 LVP COMPUTER SYSTEM | 742-0602-1 741-0602-1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 MICRO VP-1/-2 COMPUTER SYSTEM | 742-1668 741-1668 | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 MICRO VP-1/-2 COMPUTER SYSTEM | 742-1668-1 741-1668-1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584 729-0584-A | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584-1 729-0584-A1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584-2 729-0584-A2 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 SVP COMPUTER SYSTEM | 742-0935 729-0935-A | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 VP, VPA, MVP, MVPA, MVPC, LVP, LVPC, SVP COMPUTER SYSTEM | FICHE N/A 741-1636 | YELLOW | SHB |
| SYSTEM, | COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747 741-1747 | BROWN | MNL |

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|---------------------|------------------------|--------------------------|-------|------|
| SYSTEM, COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747-1 741-1747-1 | BROWN | PUB |
| SYSTEM, COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747-2 741-1747-2 | BROWN | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871 741-0871 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-1 741-0871-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-2 741-0871-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 741-0871-3 741-0871-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-4 741-0871-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-5 741-0871-5 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-6 741-0871-6 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-7 741-0871-7 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404 741-1404 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-1 741-1404-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-2 741-1404-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-3 741-1404-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-4 741-1404-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-5 741-1404-5 | BLUE | PUB |

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|---------------------|--|--------------------------|-------|------|
| SYSTEM, COMPUTER | VS 15, 25, 45 COMPUTER SYSTEM SCHEMATICS | 742-1185 741-1185 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 15, 25, 45, 65 COMPUTER SYSTEM | FICHE N/A 741-1730 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032 741-1032 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032-1 741-1032-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032-2 741-1032-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM IPB | 742-1032-3 741-1032-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | 742-1634 741-1634 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | 742-1634-1 741-1634-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | FICHE N/A 741-1711 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705 741-1705 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705-1 741-1705-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705-2 741-1705-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | FICHE N/A 741-1741 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM | FICHE N/A 741-1666 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM VOL 1 - INTRODUCTION | 742-0714 741-0714 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM VOL 2 - INSTALLATION | 742-0715 PAPER N/A | BLUE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE | |
| SYSTEM, COMPUTER | VS 65 COMPUTER SYSTEM | 742-1617-A 741-1617-A | BLUE | MNL | |
| SYSTEM, COMPUTER | VS 7010 COMPUTER SYSTEM | 742-1818 741-1818 | BLUE | MNL | |
| SYSTEM, COMPUTER | VS 7100 7110, 7120, 7150 COMPUTER SYSTEM | 742-1721-A 741-1721-A | BLUE | MNL | |
| SYSTEM, COMPUTER | VS 7300 7310, 7320 COMPUTER SYSTEM | 742-1772 741-1772 | BLUE | MNL | |
| SYSTEM, COMPUTER | VS 80 COMPUTER SYSTEM REFERENCE SUMMARY | FICHE N/A 741-0716 | BLUE | GDE | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492 741-1492 | BLUE | MNL | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-1 741-1492-1 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-2 741-1492-2 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-3 741-1492-3 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-4 741-1492-4 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-5 741-1492-5 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-6 741-1492-6 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-7 741-1492-7 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462 741-1462 | BLUE | MNL | |
| SYSTEM, COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462-1 741-1462-1 | BLUE | PUB | |
| SYSTEM, COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462-2 741-1462-2 | BLUE | PUB | |

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|------------------------------|--|----------------------------|--------|------|
| SYSTEM, COMPUTER | VS 90, 100 COMPUTER SYSTEM | FICHE N/A 741-1635 | BLUE | SHB |
| SYSTEM, COMPUTER | VS COMPUTER SYSTEM I/O STRUCTURE & IOP MOTHERBOARD | 742-0824 741-0824 | BLUE | MNL |
| SYSTEM, COMPUTER | WANG COMPUTER SYSTEM CS-2, CS-5 | 742-1769 741-1769 | YELLOW | MNL |
| SYSTEM, INTEGRATED IMAGE | WANG INTEGRATED IMAGE SYSTEM | 742-1801 741-1801 | BLUE | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 105, 115, 125A, 130A-E, 140, 145 | FICHE N/A 741-1648 | GREEN | SHB |
| SYSTEM, OFFICE INFORMATION | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM | 742-0664 741-0664 | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM | 742-0664-1 741-0664-1 | GREEN | PUB |
| SYSTEM, OFFICE INFORMATION | OIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM | 742-1267-B 741-1267-B | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM | 742-1267-B1 741-1267-B1 | GREEN | PUB |
| SYSTEM, OFFICE INFORMATION | OIS 40, 45, 50, 55, 60, 60-1, 65, 70 OFFICE INFORMATION SYSTEM | FICHE N/A 741-1605-B | GREEN | SHB |
| SYSTEM, OFFICE INFORMATION | OIS OFFICE INFORMATION SYSTEM | 742-0886 729-0886-A | GREEN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676 741-1676 | BROWN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-1 741-1676-1 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-2 741-1676-2 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-3 741-1676-3 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-4 741-1676-4 | BROWN | PUB |

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|---------------------|--|--------------------------|-------|------|
| SYSTEM, | PROFESSIONAL COMPUTE NETWORK SERVICES PROFESSIONAL COMPUTER SYSTEM | 742-1621-A 741-1621-A | RED | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190 741-1190 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-1 741-1190-1 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-2 741-1190-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-3 741-1190-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-4 741-1190-4 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-5 741-1190-5 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-6 741-1190-6 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-7 741-1190-7 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-8 741-1190-8 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-9 741-1190-9 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | FICHE N/A 741-165B | BROWN | SHB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER PC 240 | 742-1808 741-1808 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER PC 280 | 742-1771 741-1771 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER PC 380 | 742-1793 741-1793 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER SCHEMATICS | 742-1241 741-1241 | BROWN | MNL |

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| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-1 741-1241-1 | BROWN PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-2 741-1241-2 | BROWN PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-3 741-1241-3 | BROWN PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-4 741-1241-4 | BROWN PUB |
| SYSTEM, | WORD PROCESSING | WANGWRITER 5503, 5504, 5524, 5703, 5704, 5724 | 742-0863 PAPER N/A | GREEN MNL |
| SYSTEM, | WORD PROCESSING | WP 10A, 20, 25, 30 WORD PROCESSING SYSTEM | FICHE N/A 741-1758 | GREEN SHB |
| SYSTEM, | WORD PROCESSING | WP SYSTEM 10, 20, 30 PRELIMINARY - VOL 2 | 742-0831 PAPER N/A | GREEN MNL |
| SYSTEM, | WORD PROCESSING | WP SYSTEM 5 | 742-0677 PAPER N/A | GREEN MPNL |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-2 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2229, 2529, 6529 CARTRIDGE TAPE DRIVE | FICHE N/A 741-1731 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 6509 NINE-TRACK MAGNETIC TAPE DRIVE | 742-0959 PAPER N/A | ORANGE MNL |
| TAPE DRIVE, | MAGNETIC | KENNEDY 9100 MAGNETIC TAPE DRIVE MAINTENANCE | 742-0249 PAPER N/A | ORANGE MNL |

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|---------------------|-----------------|---|--------------------------|--------|------|
| TAPE DRIVE, | MAGNETIC | TELEX 6253 MAGNETIC TAPE DRIVE | 742-1136 PAPER N/A | ORANGE | MNL |
| TAPE DRIVE, | STREAMING | PM03B-1 STREAMING TAPE DRIVE | 742-1672 741-1672 | ORANGE | MNL |
| TAPE DRIVE, | TRI DENSITY | 2248V-1 TELEX 9087 TRI DENSITY TAPE DRIVE | 742-1799-A 741-1799-A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | KENNEDY 9219 MAGNETIC TAPE FORMATTER MAINTENANCE | 742-0250-A PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | TELEX 6850 TAPE FORMATTER | 742-1137 PAPER N/A | ORANGE | MNL |
| TELETYPE, | LEVEL CONVERTER | TLC4/LS4 TELETYPE LEVEL CONVERTER | 742-1126 741-1126 | RED | MNL |
| TERMINAL, | 2200 | 2236 DE TERMINAL | 742-0476 741-0476 | ORANGE | MNL |
| TERMINAL, | AUTOMATIC COIN | 9608 TELEQUIP ACT 1 AUTOMATIC COIN TERMINAL | 742-1784 741-1784 | ORANGE | MNL |
| TERMINAL, | CASHIER | 9607/A CONTREX 3010Z CASHIER TERMINAL VOLUME 1 | 742-1797 741-1797 | ORANGE | MNL |
| TERMINAL, | CASHIER | 9607/A CONTREX 3010Z CASHIER TERMINAL VOLUME 2 | 742-1798 741-1798 | ORANGE | MNL |
| TERMINAL, | FINANCIAL | 8700 FINANCIAL TERMINAL | 742-1786 741-1786 | ORANGE | MNL |
| TERMINAL, | INTEGRATED | 2236DM INTEGRATED TERMINAL | 742-1087 741-1087 | ORANGE | MNL |
| TERMINAL, | INTERGRATED | 2236W INTERGRATED TERMINAL | 742-0903 PAPER N/A | ORANGE | MNL |
| TERMINAL, | VS | 2110 TERMINAL | 742-1645 741-1645 | ORANGE | MNL |
| TERMINAL, | VS | 2110 TERMINAL | 742-1645-1 741-1645-1 | ORANGE | PUB |
| TERMINAL, | VS | 2110A TERMINAL | 742-1740 741-1740 | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------|---|--------------------------|-------|------|
| TRANSLATOR, | IBM PC | IBM PC TRANSLATOR | 742-1693 741-1693 | RED | MNL |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX | 742-1141 741-1141 | RED | MNL |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.0 | FICHE N/A 741-1608 | RED | SHB |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720 741-1720 | RED | MNL |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720-1 741-1720-1 | RED | PUB |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720-2 741-1720-2 | RED | PUB |
| VOICE PRODUCT, | WANG TELEMODEM | CA-1200/2400 | 742-1732 741-1732 | RED | MNL |
| VOICE PRODUCT, | WBX | WBX DIGITAL CONTROL SWITCH RELEASE 1 | 742-1738 741-1738 | RED | MNL |
| VOICE PRODUCT, | WBX | WBX DIGITAL CONTROL SWITCH RELEASE 1 UPDATE TO RELEASE 2 | 742-1738-1 741-1738-1 | RED | PUB |
| WANGNET, | BACKBONE | WANGNET BACKBONE | 742-1102 741-1102 | RED | MNL |
| WANGNET, | BACKBONE | WANGNET BACKBONE | 742-1102-1 741-1102-1 | RED | PUB |
| WANGNET, | BACKBONE | WANGNET BACKBONE | FICHE N/A 741-1603 | RED | SHB |
| WANGNET, | CABLE KIT | WANGNET CABLE KIT | 742-1183 729-1183 | RED | MNL |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | 742-1192 741-1192 | RED | MNL |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | 742-1192-1 741-1192-1 | RED | PUB |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | FICHE N/A 741-1667 | RED | SHB |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|------------------|--|--------------------------|------------|
| WANGNET, | FASTLAN | FASTLAN | 742-1614 PAPER N/A | RED MNL |
| WANGNET, | NETMUX | NETMUX WANGNET NETWORK MULTIPLEXER | 742-1217 741-1217 | RED MNL |
| WANGNET, | NETMUX | NETMUX WANGNET NETWORK MULTIPLEXER | 742-1217-1 741-1217-1 | RED PUB |
| WANGNET, | PERIPHERALS | WANGNET PERIPHERALS BAND | FICHE N/A 741-1697 | RED SHB |
| WANGNET, | SIGNAL GENERATOR | FOUR/FIVE FREQUENCY TEST SIGNAL GENERATOR | 742-1180 741-1180 | BEIGE MNL |
| WORKSTATION, | 2200 | 2236D/DE/DW, 2236DE/DW, 2876DE/DW, 2286DE/DW WORKSTATIONS | FICHE N/A 741-1641 | YELLOW SHB |
| WORKSTATION, | 2200 | 2436DW/DE | 742-1727 741-1727 | ORANGE MNL |
| WORKSTATION, | 2200 | 2436DW/DE | 742-1727-1 741-1727-1 | ORANGE PUB |
| WORKSTATION, | ARCHIVING | 2266C-1, 2266S-1-2-3, 2276C-1-3, AWS-1-4, 5740 ARCHIVING WORKSTATION | 742-0865-A 741-0865-A | ORANGE MNL |
| WORKSTATION, | ARCHIVING | V5/WP/DIS ARCHIVING WORKSTATION 2266C-1/-3, 2266S-1/-2/-3, 2276C-1/-3, AWS-1/-4 | FICHE N/A 741-1679 | ORANGE SHB |
| WORKSTATION, | COLOR GRAPHICS | 4245 COLOR GRAPHICS WORKSTATION | 742-1632 741-1632 | ORANGE MNL |
| WORKSTATION, | ENGINEERING | ADVENT 8019 ENGINEERING WORKSTATION | 742-1682 PAPER N/A | ORANGE MNL |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251 741-1251 | ORANGE MNL |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251-1 741-1251-1 | ORANGE PUB |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251-2 741-1251-2 | ORANGE PUB |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | FICHE N/A 741-1633 | ORANGE SHB |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|---|--------------------------|--------|------|
| WORKSTATION, DIS | 5536 WORKSTATION | 742-0522 741-0522 | ORANGE | MNL |
| WORKSTATION, VS/OIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623 | ORANGE | SHB |
| WORKSTATION, VS/OIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623-1 | ORANGE | SHBP |
| WORKSTATION, VS/OIS | 4200 SERIES 4205, 4230 WORKSTATIONS | 742-1339 741-1339 | ORANGE | MNL |
| WORKSTATION, VS/OIS | 4200 SERIES 4210, 4220 WORKSTATIONS | 742-1302 741-1302 | ORANGE | MNL |
| WORKSTATION, VS/OIS | 4230A VS/OIS WORKSTATION | 742-1709 741-1709 | ORANGE | MNL |
| WORKSTATION, VS/OIS | ER60 2 & 3 5300/AL-64/PS/ME/AL-A 5924/5/8-4 5944/5/8-4 5947/9 WORKSTATIONS | FICHE N/A 741-1607 | ORANGE | SHB |
| WORKSTATION, VS/OIS | ER60 2 59XX WORKSTATION | 742-0920-A 741-0920-A | ORANGE | MNL |
| WORKSTATION, VS/OIS | ER60 2 DE/DW WORKSTATION | 742-1025 PAPER N/A | ORANGE | MNL |
| WORKSTATION, VS/OIS | ER60 3 53XX WORKSTATION | 742-1086 741-1086 | ORANGE | MNL |
| WORKSTATION, VS/OIS | ER60 3 53XX WORKSTATION | 742-1086-1 741-1086-1 | ORANGE | PUB |
| WORKSTATION, WP/OIS | ER60 1 WP/OIS WORKSTATION | 742-0494 PAPER N/A | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|--|---------------------------|--------|------|
| TERMINAL, | VS | 2110 TERMINAL | 742-1645 741-1645 | ORANGE | MNL |
| TERMINAL, | VS | 2110 TERMINAL | 742-1645-1 741-1645-1 | ORANGE | PUB |
| TERMINAL, | VS | 2110A TERMINAL | 742-1740 741-1740 | ORANGE | MNL |
| CONTROLLER, | TELECOMMUNICATIONS | 2200 2228D TELECOMMUNICATIONS CONTROLLER | 742-0858 PAPER N/A | RED | MNL |
| CABINET, | DATA STORAGE | 2200 DATA STORAGE CABINET | 742-1806 741-1806 | YELLOW | MNL |
| CABINET, | DATA STORAGE | 2200 DATA STORAGE CABINET | 742-1806-1 741-1806-1 | YELLOW | PUB |
| OPTION, | LOCAL COMMUNICATIONS | 2200 LOCAL COMMUNICATIONS OPTION | 742-1723 741-1723 | RED | MNL |
| OPTION, | LOCAL COMMUNICATIONS | 2200 LOCAL COMMUNICATIONS OPTION | 742-1723-1 741-1723-1 | RED | PUB |
| SYSTEM, | COMPUTER | 2200 LVP COMPUTER SYSTEM | 742-0602 741-0602 | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 LVP COMPUTER SYSTEM | 742-0602-1 741-0602-1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 MICRO VP-1/-2 COMPUTER SYSTEM | 742-1668 741-1668 | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 MICRO VP-1/-2 COMPUTER SYSTEM | 742-1668-1 741-1668-1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584 729-0584-A | YELLOW | MNL |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584-1 729-0584-A1 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584-2 729-0584-A2 | YELLOW | PUB |
| SYSTEM, | COMPUTER | 2200 SVP COMPUTER SYSTEM | 742-0935 729-0935-A | YELLOW | MNL |

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|---------------------|--------------------|--|-------------------------|-------------|
| CONTROLLER, | TELECOMMUNICATIONS | 2200 TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1708 | RED SHB |
| SYSTEM, | COMPUTER | 2200 VP, VPA, MVP, MVPA, MVPC, LVP, LVPC, SVP COMPUTER SYSTEM | FICHE N/A 741-1636 | YELLOW SHB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-2 | ORANGE SHBP |
| PRINTER, | MATRIX | 2221W, 200W, 2221V, 5521LPD, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602 | ORANGE SHB |
| PRINTER, | MATRIX | 2221W, 200W, 2221V, 5521LPD, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2229, 2529, 6529 CARTRIDGE TAPE DRIVE | FICHE N/A 741-1731 | ORANGE SHB |
| PRINTER, | MATRIX | 2231W-1/-2/-3/-6, 2231V2/2S, 5531W-2 31W MATRIX PRINTER | FICHE N/A 741-1616-A | ORANGE SHB |
| PRINTER, | MATRIX | 2233, 2235, 5533, 5535 LOW-COST MATRIX PRINTER | FICHE N/A 741-1601-A | ORANGE SHB |
| PRINTER, | MATRIX | 2233, 2235, 5533, 5535 MATRIX PRINTER | 742-0859 741-0859 | ORANGE NNL |
| TERMINAL, | 2200 | 2236 DE TERMINAL | 742-0476 741-0476 | ORANGE NNL |
| WORKSTATION, | 2200 | 2236D/DE/DW, 2236DE/DW, 2876DE/DW, 2286DE/DW WORKSTATIONS | FICHE N/A 741-1641 | YELLOW SHB |
| TERMINAL, | INTEGRATED | 2236DW INTEGRATED TERMINAL | 742-1087 741-1087 | ORANGE NNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|-------------|---|--------------------------|--------|------|
| TERMINAL, | INTERGRATED | 2236W INTERGRATED TERMINAL | 742-0903 PAPER N/A | ORANGE | MNL |
| TAPE DRIVE, | TRI DENSITY | 2248V-1 TELEX 9087 TRI DENSITY TAPE DRIVE | 742-1799-A 741-1799-A | ORANGE | MNL |
| DISK DRIVE, | SMD | 2265V-2, 6565 CDC BK6XX, BK7XX SMD DISK DRIVE | 742-0222-A 741-0222-A | ORANGE | MNL |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A | ORANGE | SHB |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A1 | ORANGE | SHBP |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699 | ORANGE | SHB |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699-1 | ORANGE | SHBP |
| WORKSTATION, | ARCHIVING | 2266C-1, 2266S-1-2-3, 2276C-1-3, AWS-1-4, 5740 ARCHIVING WORKSTATION | 742-0865-A 741-0865-A | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE CROSS REFERENCE PART NUMBER LIST | 742-1491-1 741-1491-1 | ORANGE | PUB |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE DIAGRAMS VOLUME 3 | 742-1489 741-1489 | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE INSTALLATION VOLUME 1 | 742-1491 741-1491 | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE THEORY OF OPERATION REPAIR, REPLACEMENT VOLUME 2 | 742-1490-A 741-1490-A | ORANGE | MNL |
| DISK DRIVE, | FIXED | 2268V-1, 6568-1 NEC 85 FIXED DISK DRIVE | FICHE N/A 741-1678 | ORANGE | SHB |
| PRINTER, | BAND | 2273/2273V/2273-1/2273V-1/2273-2/5573/5574 DATAPRODUCTS BAND PRINTER NOTES | 742-0438 741-0438 | ORANGE | MNL |
| PRINTER, | BAND | 2273V-1/2273-1/2273-2/5573/5574 DATAPRODUCTS 300/600 LPM BAND PRINTER MASTER SUPPORT AND LOG | 742-1629 741-1629 | ORANGE | MNL |
| PRINTER, | BAND | 2273V-1/2273-1/5573/5573-1 DATAPRODUCTS 300/ 600 LPM BAND PRINTER MAINTENANCE VOLUME 1 | 742-0434-A 741-0434-A | ORANGE | MNL |

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|-----------------------|-------------------|---|--------------------------|--------|------|
| DISK DRIVE, | WINCHESTER/FLOPPY | 2275 DISK PERIPHERAL WINCHESTER/FLOPPY DISK DRIVE | 742-1345-A 741-1345-A | ORANGE | MNL |
| INTERFACE, | DISK MULTIPLEXER | 2280 DISK MULTIPLEXER I/O INTERFACE | 742-0904 PAPER N/A | YELLOW | PSN |
| PROCESSING UNIT, | DISK | 2280 DISK PROCESSING UNIT | 742-0971 PAPER N/A | ORANGE | MNL |
| PRINTER, | DAISY | 2281W/WC,5541W/WC,6581W/WC/WC1 DAISY PRINTER | 742-0372 741-0372 | ORANGE | MNL |
| INPUT/OUTPUT PROCESS, | DISK | 22V18 DISK INPUT/OUTPUT PROCESSOR (IOP) | 742-0883 PAPER N/A | BLUE | PSN |
| WORKSTATION, | 2200 | 2436DW/DE | 742-1727 741-1727 | ORANGE | MNL |
| WORKSTATION, | 2200 | 2436DW/DE | 742-1727-1 741-1727-1 | ORANGE | PUB |
| WORKSTATION, | VS/OIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623 | ORANGE | SHB |
| WORKSTATION, | VS/OIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623-1 | ORANGE | SHBP |
| WORKSTATION, | VS/OIS | 4200 SERIES 4205, 4230 WORKSTATIONS | 742-1339 741-1339 | ORANGE | MNL |
| WORKSTATION, | VS/OIS | 4200 SERIES 4210, 4220 WORKSTATIONS | 742-1302 741-1302 | ORANGE | MNL |
| WORKSTATION, | VS/OIS | 4230A VS/OIS WORKSTATION | 742-1709 741-1709 | ORANGE | MNL |
| WORKSTATION, | COLOR GRAPHICS | 4245 COLOR GRAPHICS WORKSTATION | 742-1632 741-1632 | ORANGE | MNL |
| PHOTOTYPESETTER, | | 44, 48 PHOTOTYPESETTER | 742-0465 729-0465 | ORANGE | MNL |
| PHOTOTYPESETTER, | | 44, 48 PHOTOTYPESETTER | 742-0465-1 PAPER N/A | ORANGE | PUB |
| WORKSTATION, | OIS | 5536 WORKSTATION | 742-0522 741-0522 | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|--------------------------------------|--|--------------------------|--------|------|
| PHOTOTYPESETTER, | 5548, 5548Z PHOTOTYPESETTER | FICHE N/A 741-1753 | ORANGE | SHB |
| PHOTOTYPESETTER, | 5548Z PHOTOTYPESETTER | 742-1434 741-1434 | ORANGE | MNL |
| PRINTER, BAND | 5573/5574/2273-1-2/2273V-1 DATAPRODUCTS 300/ 600 LPH BAND PRINTER MAINTENANCE | 742-0432 741-0432 | ORANGE | MNL |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | 742-1084 741-1084 | ORANGE | MNL |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | 742-1084-1 741-1084-1 | ORANGE | PUB |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | FICHE N/A 741-1606 | ORANGE | SHB |
| WORKSTATION, GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251 741-1251 | ORANGE | MNL |
| WORKSTATION, GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251-1 741-1251-1 | ORANGE | PUB |
| WORKSTATION, GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251-2 741-1251-2 | ORANGE | PUB |
| WORKSTATION, GRAPHICS | 6300 GRAPHICS WORKSTATION | FICHE N/A 741-1633 | ORANGE | SHB |
| TAPE DRIVE, MAGNETIC | 6509 NINE-TRACK MAGNETIC TAPE DRIVE | 742-0959 PAPER N/A | ORANGE | MNL |
| PRINTER, DAISY | 6581 DAISY PRINTER | FICHE N/A 741-1654 | ORANGE | SHB |
| 802.3, VS INTERFACE | 802.3 VS INTERFACE | 742-1794 741-1794 | RED | MNL |
| 802.3, WANGNET ADAPTER | 802.3 WANGNET WANGBAND ADAPTER | 742-1724 741-1724 | RED | MNL |
| 802.3, WANGNET ADAPTER | 802.3 WANGNET WANGBAND ADAPTER | 742-1724-1 741-1724-1 | RED | PUB |
| TERMINAL, FINANCIAL | 8700 FINANCIAL TERMINAL | 742-1786 741-1786 | ORANGE | MNL |

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|---------------------|-------------------|---|---------------------------|------------|
| CONTROLLER, | DATA LINK | 928W MASTER DATA LINK | 742-1268 729-1268-A | RED MNL |
| CONTROLLER, | DATA LINK | 928W MASTER DATA LINK | 742-1268-2 729-1268-A2 | RED PUB |
| MODEM, | FIXED FREQUENCY | 9600 FIXED FREQUENCY MODEM | 741-1176 741-1176 | RED MNL |
| TERMINAL, | CASHIER | 9607/A CONTREX 3010Z CASHIER TERMINAL VOLUME 1 | 742-1797 741-1797 | ORANGE MNL |
| TERMINAL, | CASHIER | 9607/A CONTREX 3010Z CASHIER TERMINAL VOLUME 2 | 742-1798 741-1798 | ORANGE MNL |
| TERMINAL, | AUTOMATIC COIN | 9608 TELEQUIP ACT 1 AUTOMATIC COIN TERMINAL | 742-1784 741-1784 | ORANGE MNL |
| PRINTER, | TRANSACTION | 9612 9613 PRINTER PRODUCTS S400T | 742-1785 741-1785 | ORANGE MNL |
| MODEM, | LDSU | 9615 CODEX 2121 LDSU MODEM | 742-1763 741-1763 | RED MNL |
| READER, | OPTICAL CHARACTER | 9616 DEST 213A OPTICAL CHARACTER READER | 742-1773 741-1773 | ORANGE MNL |
| CONDITIONER, | POWER LINE | 9618, 9619 MICROPOWER II POWER LINE CONDITIONER | 742-1822 741-1822 | WHITE MNL |
| MODEM, | DATA | 9620 CODEX LSI 48/V.27 DATA MODEM | 742-1778 741-1778 | RED MNL |
| MODEM, | DATA | 9621 CODEX 2220 DATA MODEM | 742-1774 741-1774 | RED MNL |
| MODEM, | DATA | 9622 CODEX 2219 DATA MODEM | 742-1792 741-1792 | RED MNL |
| MODEM, | DATA | 9624 CODEX V.22 DATA MODEM | 742-1780 741-1780 | RED MNL |
| MODEM, | GROUP BAND | 9625 CODEX 8300 GROUP BAND MODEM | 742-1776 741-1776 | RED MNL |
| MODEM, | AUTO CALLING UNIT | 9626 CODEX 2207 AUTO CALLING UNIT | 742-1757 741-1757 | RED MNL |

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|---------------------|----------------------|--|--------------------------|--------|------|
| MODEM, | BIPLEXER | 9629 CODEX 296 BIPLEXER MODEM | 742-1781 741-1781 | RED | MNL |
| MODEM, | LDSU | 9630 CODEX 2122 LDSU MODEM | 742-1755 741-1755 | RED | MNL |
| MODEM, | LDSU | 9631 CODEX 2111 LDSU MODEM | 742-1762 741-1762 | RED | MNL |
| MODEM, | ERROR CORRECTING | 9632 CODEX 2270 ERROR CORRECTING MODEM | 742-1768 741-1768 | RED | MNL |
| MODEM, | DATA | 9633 CODEX 2222 DATA MODEM | 742-1783 741-1783 | RED | MNL |
| MODEM, | DATA | 9634 CODEX 2205 DATA MODEM | 742-1782 741-1782 | RED | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676 741-1676 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-1 741-1676-1 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-2 741-1676-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-3 741-1676-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-4 741-1676-4 | BROWN | PUB |
| WORKSTATION, | ENGINEERING | ADVENT 8019 ENGINEERING WORKSTATION | 742-1682 PAPER N/A | ORANGE | MNL |
| AMMUS, | | AMMUS INSTALLATION GUIDE | 742-1770 741-1770 | WHITE | MNL |
| ATM, | AUTOMATIC TELLER | AUTOMATIC TELLER MACHINES DIEBOLD MDS 1000 TERMINAL | 742-1809 741-1809 | ORANGE | MNL |
| VOICE PRODUCT, | WANG TELEMODEM | CA-1200/2400 | 742-1732 741-1732 | RED | MNL |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | 742-1192 741-1192 | RED | MNL |

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|------------------------------|--|---------------------------|--------|------|
| WANGNET, CIU | CABLE INTERFACE UNIT CIU | 742-1192-1 741-1192-1 | RED | PUB |
| WANGNET, CIU | CABLE INTERFACE UNIT CIU | FICHE N/A 741-1667 | RED | SHB |
| DISK DRIVE, CARTRIDGE | CDC 9427H CARTRIDGE DISK DRIVE | 742-0884 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, CARTRIDGE MODULE | CDC BK4XX CARTRIDGE MODULE DISK DRIVE | 742-1063-A 741-1063-A | ORANGE | MNL |
| DISK DRIVE, SMD | CDC BK4XX/BK5XX SMD DISK DRIVE DESCRIPTION/ OPERATION/THEORY/CIRCUITS | 742-0209-A 741-0209-A | ORANGE | MNL |
| DISK DRIVE, SMD | CDC BK5XX/BK7XX SMD DISK DRIVE OPERATION/ TROUBLESHOOTING/REPAIR | 742-0211-A 741-0211-A | ORANGE | MNL |
| DISK DRIVE, SMD | CDC BK6XX/BK7XX SMD DISK DRIVE | 742-0221-1 729-0221-A1 | ORANGE | PUB |
| DISK DRIVE, SMD | CDC BK6XX/BK7XX SMD DISK DRIVE INSTALLATION/ MAINTENANCE/PARTS/WIRE LISTS | 742-0221 729-0221-A | ORANGE | MNL |
| DISK DRIVE, FSD | CDC FSD DISK DRIVE DIAGRAMS | 742-1663 741-1663 | ORANGE | MNL |
| DISK DRIVE, FSD | CDC FSD DISK DRIVE INSTALLATION | 742-1660 741-1660 | ORANGE | MNL |
| DISK DRIVE, FSD | CDC FSD DISK DRIVE THEORY | 742-1662 741-1662 | ORANGE | MNL |
| DISK DRIVE, HAWK | CDC HAWK DISK DRIVE | FICHE N/A 741-1651-A | ORANGE | SHB |
| DISK DRIVE, PHOENIX | CDC PHOENIX DISK DRIVE 2280-1/2/3, 2280V-1/2/3, 6580V-1/2/3 | FICHE N/A 741-1652-A | ORANGE | SHB |
| DISK DRIVE, SMD | CDC SMD DISK DRIVE BK4XX/BK5XX VOL 1 | 742-1815 741-1815 | ORANGE | MNL |
| DISK DRIVE, SMD | CDC SMD DISK DRIVE BK5XX VOL 2 | 742-1816 741-1816 | ORANGE | MNL |
| MULTIPLEXER, CABLE | CMUX-3270 CABLE MULTIPLEXER | 742-1388 741-1388 | RED | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--|--------------------------|--------|------|
| MULTIPLEXER, CABLE | CNUX-3270 CABLE MULTIPLEXER | 742-1388-1 741-1388-1 | RED | PUB |
| MODEM, DATA | CODEX LSI 96/V.29 DATA MODEM | 742-1761 741-1761 | RED | MNL |
| CATALOG, LISTINGS | CUSTOMER SERVICE DOCUMENTATION LISTINGS | 742-0000-A 741-0000-A | WHITE | CAT |
| PRINTER, BAND | DATAPRODUCTS BAND PRINTER PARTS LIST | 742-1301 729-1301 | ORANGE | MNL |
| PRINTER, BAND | DATAPRODUCTS BP BAND PRINTER MAINTENANCE | 742-1272 729-1272 | ORANGE | MNL |
| PRINTER, BAND | DATAPRODUCTS BP BAND PRINTER SCHEMATICS | 742-1273-A 741-1273-A | ORANGE | MNL |
| PRINTER, DAISY | DATAPRODUCTS DAISY PRINTER SCHEMATICS | 742-1341-A 741-1341-A | ORANGE | MNL |
| DISK DRIVE, FIXED | DIABLO 40/43 FIXED DISK DRIVE PARTS LIST | 742-0899 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, FIXED | DIABLO 44B 2260 SERIES FIXED DISK DRIVE | FICHE N/A 741-1625 | ORANGE | SHB |
| PRINTER, DAISY | DIABLO 620 DAISY PRINTER | 742-1327 741-1327 | ORANGE | MNL |
| VOICE PRODUCT, DVX | DIGITAL VOICE EXCHANGE DVX | 742-1141 741-1141 | RED | MNL |
| VOICE PRODUCT, DVX | DIGITAL VOICE EXCHANGE DVX 1.0 | FICHE N/A 741-1608 | RED | SHB |
| VOICE PRODUCT, DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720 741-1720 | RED | MNL |
| VOICE PRODUCT, DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720-1 741-1720-1 | RED | PUB |
| VOICE PRODUCT, DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720-2 741-1720-2 | RED | PUB |
| PRINTER, MATRIX | DM-50/300 EPSON EX-800/1000 MATRIX PRINTER | 742-1813 741-1813 | ORANGE | MNL |

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|---------------------|--------------------|---|--------------------------|------------|
| DIAGNOSTIC, | TAPE DRIVES | DTOS TESTS FOR MAGNETIC TAPE DRIVES DIAGNOSTICS | FICHE N/A 741-1374 | ORANGE DHB |
| DIAGNOSTIC, | PRINTER | DTOS TESTS FOR PRINTERS DIAGNOSTICS | FICHE N/A 741-1375 | ORANGE DHB |
| DIAGNOSTIC, | TELECOMMUNICATIONS | DTOS TESTS FOR VS/DIS TELECOMMUNICATIONS DIAGNOSTICS | FICHE N/A 741-1377 | RED DHB |
| DIAGNOSTIC, | WORKSTATION | DTOS TESTS FOR WORKSTATIONS DIAGNOSTICS | FICHE N/A 741-1378 | ORANGE DHB |
| FEEDER, | DUAL SHEET | DUAL SHEET FEEDER DSF-55,551,551T,55T,77,771 | FICHE N/A 741-1665 | ORANGE SHB |
| PRINTER, | DAISY | DW/OS-20 DAISY PRINTER | 742-1054 741-1054 | ORANGE MNL |
| PRINTER, | DAISY | DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE | 742-1457 741-1457 | ORANGE MNL |
| PRINTER, | DAISY | DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE | 742-1457-1 741-1457-1 | ORANGE PUB |
| PRINTER, | DAISY | DW/OS-55 DATAPRODUCTS DP55 DAISY PRINTER | FICHE N/A 741-1626 | ORANGE SHB |
| FEEDER, | ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12 | 742-0873 PAPER N/A | ORANGE MNL |
| FEEDER, | ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12,13,21,22,23 | FICHE N/A 741-1611-A | ORANGE SHB |
| WORKSTATION, | WP/DIS | ERGO 1 WP/DIS WORKSTATION | 742-0494 PAPER N/A | ORANGE MNL |
| WORKSTATION, | VS/DIS | ERGO 2 & 3 5300/AL-64/PS/ME/AL-A 5924/5/8-4 5944/5/8-4 5947/9 WORKSTATIONS | FICHE N/A 741-1607 | ORANGE SHB |
| WORKSTATION, | VS/DIS | ERGO 2 59XX WORKSTATION | 742-0920-A 741-0920-A | ORANGE MNL |
| WORKSTATION, | VS/DIS | ERGO 2 DE/DW WORKSTATION | 742-1025 PAPER N/A | ORANGE MNL |
| WORKSTATION, | VS/DIS | ERGO 3 53XX WORKSTATION | 742-1086 741-1086 | ORANGE MNL |

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|---------------------|------------------|--|----------------------------|--------|------|
| WORKSTATION, | VS/DIS | ER60 3 53XX WORKSTATION | 742-1086-1 741-1086-1 | ORANGE | PUB |
| WANGNET, | FASTLAN | FASTLAN | 742-1614 PAPER N/A | RED | MNL |
| MODEM, | FIXED FREQUENCY | FFM-64000 FIXED FREQUENCY MODEM | 741-1215 741-1215 | RED | MNL |
| FIBER OPTIC, | CONVERTER BOX | FIBER OPTIC CONVERTER BOX | 742-1649-A 741-1649-A | RED | MNL |
| FIBER OPTIC, | CONVERTER BOX | FIBER OPTIC CONVERTER BOX | 742-1649-A1 741-1649-A1 | RED | PUB |
| WANGNET, | SIGNAL GENERATOR | FOUR/FIVE FREQUENCY TEST SIGNAL GENERATOR | 742-1180 741-1180 | BEIGE | MNL |
| MONITOR, | FULL PAGE | FULL PAGE MONITOR 1640 | 742-1800 741-1800 | ORANGE | MNL |
| TRANSLATOR, | IBM PC | IBM PC TRANSLATOR | 742-1693 741-1693 | RED | MNL |
| PRINTER, | DAISY | JUKI DAISY PRINTER | 742-1754 741-1754 | ORANGE | MNL |
| PRINTER, | DAISY | JUKI DAISY PRINTER | 742-1754-1 741-1754-1 | ORANGE | PUB |
| TAPE DRIVE, | MAGNETIC | KENNEDY 9100 MAGNETIC TAPE DRIVE MAINTENANCE | 742-0249 PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | KENNEDY 9219 MAGNETIC TAPE FORMATTER MAINTENANCE | 742-0250-A PAPER N/A | ORANGE | MNL |
| SYSTEM, | COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747 741-1747 | BROWN | MNL |
| SYSTEM, | COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747-1 741-1747-1 | BROWN | PUB |
| SYSTEM, | COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747-2 741-1747-2 | BROWN | PUB |
| DIAGNOSTIC, | DESKTOP | LAPTOP COMPUTER SYSTEM WLTC DIAGNOSTIC | FICHE N/A 741-1765 | BROWN | DWB |

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|---------------------|-----------------|---|----------------------------|--------|------|
| PRINTER, | LASER | LCS 15 RICOH LP4150 LASER COMPOSITION SYSTEM | 742-1775 741-1775 | ORANGE | MNL |
| PRINTER, | LASER | LDP8 LBP-SX LASER PRINTER | 742-1814 741-1814 | ORANGE | MNL |
| PRINTER, | LASER | LIS 12 LASER IMAGING SYSTEM MAINTENANCE | 742-1478 741-1478 | ORANGE | MNL |
| PRINTER, | LASER | LIS 24 LASER IMAGING SYSTEM | 742-1698-B 741-1698-B | ORANGE | MNL |
| PRINTER, | LASER | LIS 24 LASER IMAGING SYSTEM SERVICE DATA AND PARTS LIST | 742-1670-C 741-1670-C | ORANGE | MNL |
| PRINTER, | MATRIX | LM400, LM700, LM900 PRINTRONIX P9000 SHUTTLE MATRIX PRINTER | 742-1790 741-1790 | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 INTERFACE UNIT | 742-1155 729-1155 | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM | 742-1107-A 741-1107-A | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM | FICHE N/A 741-1618-A | ORANGE | SHB |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE | 742-1104-A 741-1104-A | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE | 742-1104-A1 741-1104-A1 | ORANGE | PUB |
| PRINTER, | LASER | LPS 12 XEROX 8040 LASER PRINTING SYSTEM CAUSE AND EFFECT UPDATE | 742-1622 741-1622 | ORANGE | MNL |
| PRINTER, | LASER | LPS 8 CANON LBP-CX LASER PRINTER | 742-1673 741-1673 | ORANGE | MNL |
| SOFTWARE, | ELECTRONIC MAIL | MAILWAY INSTALLATION | 742-0861 PAPER N/A | WHITE | PSN |
| DISK DRIVE, | FIXED | NEC 167 FIXED DISK DRIVE | FICHE N/A 741-1684 | ORANGE | SHB |
| DISK DRIVE, | WINCHESTER | NEC D2246 WINCHESTER DISK DRIVE MAINTENANCE | 742-1452 729-1452 | ORANGE | MNL |

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|---------------------|----------------------|--|----------------------------|--------|------|
| DISK DRIVE, | FIXED | NEC D2257 FIXED DISK DRIVE | 742-1503 729-1503 | ORANGE | MNL |
| DISK DRIVE, | FIXED | NEC D2257 FIXED DISK DRIVE | 742-1503-1 729-1503-1 | ORANGE | PUB |
| WANGNET, | NETMUX | NETMUX WANGNET NETWORK MULTIPLEXER | 742-1217 741-1217 | RED | MNL |
| WANGNET, | NETMUX | NETMUX WANGNET NETWORK MULTIPLEXER | 742-1217-1 741-1217-1 | RED | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | NETWORK SERVICES PROFESSIONAL COMPUTER SYSTEM | 742-1621-A 741-1621-A | RED | MNL |
| SYSTEM, | OFFICE INFORMATION | DIS 105, 115, 125A, 130A-E, 140, 145 | FICHE N/A 741-1648 | GREEN | SHB |
| DIAGNOSTIC, | DIS | DIS 140 CLASS OFFICE INFORMATION SYSTEM MASTER MONITOR DIAGNOSTIC | FICHE N/A 741-1322 | GREEN | DHB |
| SYSTEM, | OFFICE INFORMATION | DIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM | 742-0664 741-0664 | GREEN | MNL |
| SYSTEM, | OFFICE INFORMATION | DIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM | 742-0664-1 741-0664-1 | GREEN | PUB |
| DIAGNOSTIC, | DIS | DIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1328 | GREEN | DHB |
| SYSTEM, | OFFICE INFORMATION | DIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM | 742-1267-B 741-1267-B | GREEN | MNL |
| SYSTEM, | OFFICE INFORMATION | DIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM | 742-1267-B1 741-1267-B1 | GREEN | PUB |
| SYSTEM, | OFFICE INFORMATION | DIS 40, 45, 50, 55, 60, 60-1, 65, 70 OFFICE INFORMATION SYSTEM | FICHE N/A 741-1605-B | GREEN | SHB |
| DIAGNOSTIC, | DIS | DIS 40, 50, 60, 70 OFFICE INFORMATION SYSTEM BIT/DIOS DIAGNOSTICS | FICHE N/A 741-1471-A | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS 50 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1392 | GREEN | DHB |
| CONTROLLER, | BINARY SYNC. TELECOM | DIS 5528 BINARY SYNC. TELECOMMUNICATIONS CONTROLLER | 742-0681 PAPER N/A | RED | MNL |

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|---------------------|----------------------|--|--------------------------|--------|------|
| CONTROLLER, | ASYNC. TELECOMMUNICA | DIS 5594-4 ASYNC. TELECOMMUNICATIONS CONTROLLER | 742-0682 PAPER N/A | RED | MNL |
| DIAGNOSTIC, | DIS | DIS 60 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTIC | FICHE N/A 741-1646 | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS FTU DIAGNOSTIC | FICHE N/A 741-1722 | GREEN | DHB |
| PROCESSOR, | CABLE INTERFACE | DIS MCIP CABLE INTERFACE PROCESSOR | 742-1223 741-1223 | RED | MNL |
| PROCESSOR, | CABLE INTERFACE | DIS MCIP CABLE INTERFACE PROCESSOR | 742-1223-1 741-1223-1 | RED | PUB |
| SYSTEM, | OFFICE INFORMATION | DIS OFFICE INFORMATION SYSTEM | 742-0886 729-0886-A | GREEN | MNL |
| DIAGNOSTIC, | DIS | DIS OFFICE INFORMATION SYSTEM DTOS DIAGNOSTICS VOLUME 3 | FICHE N/A 741-1356 | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS OFFICE INFORMATION SYSTEM SINGLE CHANNEL DIAGNOSTIC | FICHE N/A 741-1628 | GREEN | DHB |
| PRINTER, | DAISY | DIS-PTR-20, PM012 DIABLO 620 DAISY PRINTER | FICHE N/A 741-1604 | ORANGE | SHB |
| MONITOR, | COLOR | PANASONIC 16-IN MON 1650 | 742-1789 741-1789 | ORANGE | MNL |
| MONITOR, | COLOR | PANISONIC 19-IN. COLOR CRT DISPLAY TX-2002MC | 742-1745 741-1745 | ORANGE | MNL |
| SCANNER, | SHEET FEED | PIC PM06 SHEET FEED SCANNER | FICHE N/A 741-1735 | ORANGE | SHB |
| MONITOR, | MONOCHROME | PM004L LOW COST MONOCHROME MONITOR | 742-1647 741-1647 | ORANGE | MNL |
| MONITOR, | MONOCHROME | PM004L LOW COST MONOCHROME MONITOR | 742-1647-1 741-1647-1 | ORANGE | PUB |
| MONITOR, | MONOCHROME | PM004L MONOCHROME MONITOR | FICHE N/A 741-1700 | ORANGE | SHB |
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1643 741-1643 | ORANGE | MNL |

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|---------------------|-----------|---|--------------------------|--------|------|
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1643-1 741-1643-1 | ORANGE | PUB |
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1701-A 741-1701-A | ORANGE | MNL |
| PRINTER, | MATRIX | PM010 EPSON MX-80 MATRIX PRINTER | 742-0976 PAPER N/A | ORANGE | MNL |
| PRINTER, | DAISY | PM015 JUKI 6300 DAISY PRINTER | 742-1661 741-1661 | ORANGE | MNL |
| PRINTER, | DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691 | ORANGE | SHB |
| PRINTER, | DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691-1 | ORANGE | SHBP |
| PRINTER, | MATRIX | PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE | 742-1600 741-1600 | ORANGE | MNL |
| PRINTER, | MATRIX | PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE | 742-1600-1 741-1600-1 | ORANGE | PUB |
| PRINTER, | MATRIX | PM017 EPSON 420 MATRIX PRINTER | 742-1744 741-1744 | ORANGE | MNL |
| PRINTER, | MATRIX | PM017 EPSON 420 MATRIX PRINTER | 742-1744-1 741-1744-1 | ORANGE | PUB |
| PRINTER, | MATRIX | PM019 NEC PINWRITER MATRIX PRINTER | 742-1664 741-1664 | ORANGE | MNL |
| TAPE DRIVE, | STREAMING | PM038-1 STREAMING TAPE DRIVE | 742-1672 741-1672 | ORANGE | MNL |
| PRINTER, | MATRIX | PM060, 5578 JUKI 7100 COLOR MATRIX PRINTER | 742-1823 741-1823 | ORANGE | MNL |
| MAINTENANCE, | PM | PREVENTATIVE MAINTENANCE | FICHE N/A 741-1687 | WHITE | SHB |
| PRINTER, | SPECS | PRINTER PAPER SPECIFICATIONS | FICHE N/A 741-1819 | ORANGE | SHB |
| SOFTWARE, | REFERENCE | PROBE USER'S GUIDE | 742-1469-B 741-1469-B | WHITE | GDE |

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|---------------------|---|--------------------------|-------|------|
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190 741-1190 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-1 741-1190-1 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-2 741-1190-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-3 741-1190-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-4 741-1190-4 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-5 741-1190-5 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-6 741-1190-6 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-7 741-1190-7 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-8 741-1190-8 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | 742-1190-9 741-1190-9 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER | FICHE N/A 741-1658 | BROWN | SHB |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER PC 240 | 742-1808 741-1808 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER PC 280 | 742-1771 741-1771 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER PC 380 | 742-1793 741-1793 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER SCHEMATICS | 742-1241 741-1241 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-1 741-1241-1 | BROWN | PUB |

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|---------------------|----------------------|---|--------------------------|--------|------|
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-2 741-1241-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-3 741-1241-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-4 741-1241-4 | BROWN | PUB |
| DIAGNOSTIC, | PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435 | BROWN | DHB |
| DIAGNOSTIC, | PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-1 | BROWN | DHBP |
| DIAGNOSTIC, | PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-2 | BROWN | DHBP |
| DISK DRIVE, | WINCHESTER | QUANTUM Q-2000 WINCHESTER DISK DRIVE | 742-1060 PAPER N/A | ORANGE | MNL |
| MODEM, | FULL-DUPLEX | RACAL-VADIC VA-3450 FULL-DUPLEX MODEM | 742-0977 741-0997 | RED | MNL |
| MODEM, | FULL-DUPLEX | RACAL-VADIC VA-3451 FULL-DUPLEX MODEM | 742-1010 PAPER N/A | RED | MNL |
| SWITCH, | REMOTE CLUSTER | REMOTE CLUSTER SWITCH FW-RCS-16S | 742-1712 741-1712 | RED | MNL |
| SWITCH, | REMOTE CLUSTER | REMOTE CLUSTER SWITCH FW-RCS-16S | 742-1712-1 741-1712-1 | RED | PUB |
| RSAF, | VS HOST | REMOTE SYSTEM ADMINISTRATOR FACILITY (VS) | 742-1657-A 741-1657-A | BLUE | MNL |
| CONTROLLER, | COMMUNICATIONS | RESOURCE SHARING FACILITY VS | 742-1683 741-1683 | BLUE | MNL |
| RSAF, | HOST USERS GUIDE | RSAF 2 (PC) | 742-1734 741-1734 | RED | MNL |
| RSAF, | HOST USERS GUIDE | RSAF 2 (PC) | 742-1734-1 741-1734-1 | RED | PUB |
| SCANNER, | SHEET FEED | SHEET FEED SCANNER | 742-1726 741-1726 | ORANGE | MNL |

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|---------------------|--------------------|--|--------------------------|--------|------|
| DISK DRIVE, | WINCHESTER | SHUGART SA-1000 WINCHESTER DISK DRIVE | 742-0898 PAPER N/A | ORANGE | MNL |
| DISKETTE DRIVE, | FLOPPY | SHUGART SA-850/851 FLOPPY DISKETTE DRIVE SERVICE | 742-0862 PAPER N/A | ORANGE | MNL |
| DISKETTE DRIVE, | FLOPPY | SHUGART SA-851 FLOPPY DISKETTE DRIVE ADJUSTMENTS | 742-0967 PAPER N/A | ORANGE | PSN |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674 741-1674 | ORANGE | MNL |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674-1 741-1674-1 | ORANGE | PUB |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674-2 741-1674-2 | ORANGE | PUB |
| CONTROLLER, | TELECOMMUNICATIONS | TCB-1/DLP-64/128 TELECOMMUNICATIONS CONTROLLER | 742-0887 729-0887-B | RED | MNL |
| PROCESSOR, | TELECOMMUNICATIONS | TCP TELECOMMUNICATIONS PROCESSOR | 742-1043 729-1043 | RED | MNL |
| SOFTWARE, | REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172 | RED | SFG |
| SOFTWARE, | REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172-1 | RED | SFGP |
| TAPE DRIVE, | MAGNETIC | TELEX 6253 MAGNETIC TAPE DRIVE | 742-1136 PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | TELEX 6850 TAPE FORMATTER | 742-1137 PAPER N/A | ORANGE | MNL |
| PRINTER, | THERMAL | THERMAL PRINTER | 742-1335 PAPER N/A | ORANGE | MNL |
| PRINTER, | THERMAL | THERMAL PRINTER | FICHE N/A 741-1680 | ORANGE | SHB |
| TELETYPE, | LEVEL CONVERTER | TLC4/LS4 TELETYPE LEVEL CONVERTER | 742-1126 741-1126 | RED | MNL |
| CATALOG, | TOOL/TEST EQUIP. | TOOL AND TEST EQUIPMENT CATALOG | 742-0960 PAPER N/A | WHITE | CAT |

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|---------------------|--|--------------------------|--------|------|
| FEEDER, TWIN SHEET | TWIN SHEET FEEDER 01/03/05/06/11/13/20/21/22/ 23/31/33/41/43/51/53/61 | 742-0549-A 741-0549-A | ORANGE | MNL |
| FEEDER, TWIN SHEET | TWIN SHEET FEEDER TSF-01,02,03,11,12,13,20,21, 22,23,31,32,33,41,42 | FICHE N/A 741-1610 | ORANGE | SHB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871 741-0871 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-1 741-0871-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-2 741-0871-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 741-0871-3 741-0871-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-4 741-0871-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-5 741-0871-5 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-6 741-0871-6 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-7 741-0871-7 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404 741-1404 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-1 741-1404-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-2 741-1404-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-3 741-1404-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-4 741-1404-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-5 741-1404-5 | BLUE | PUB |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|--|--|--------------------------|-------|------|
| SYSTEM, COMPUTER | VS 15, 25, 45 COMPUTER SYSTEM SCHEMATICS | 742-1185 741-1185 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 15, 25, 45, 65 COMPUTER SYSTEM | FICHE N/A 741-1730 | BLUE | SHB |
| INPUT/OUTPUT PROCESS, WORKSTATION/PRINTER/ | VS 22V17 WORKSTATION/PRINTER/ARCHIVER INPUT/ OUTPUT PROCESSOR (IOP) | 742-0932 PAPER N/A | BLUE | PSN |
| DIAGNOSTIC, VS | VS 25, 45 BP MONITOR DIAGNOSTICS | FICHE N/A 741-1320 | BLUE | DHB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032 741-1032 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032-1 741-1032-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032-2 741-1032-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM IPB | 742-1032-3 741-1032-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | 742-1634 741-1634 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | 742-1634-1 741-1634-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | FICHE N/A 741-1711 | BLUE | SHB |
| DIAGNOSTIC, VS | VS 300 COMPUTER SYSTEM ON/OFF-LINE DIAGNOSTIC | FICHE N/A 741-1742 | BLUE | DHB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705 741-1705 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705-1 741-1705-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705-2 741-1705-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | FICHE N/A 741-1741 | BLUE | SHB |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--|--------------------------|-------|------|
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM | FICHE N/A 741-1666 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM VOL 1 - INTRODUCTION | 742-0714 741-0714 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM VOL 2 - INSTALLATION | 742-0715 PAPER N/A | BLUE | MNL |
| SYSTEM, COMPUTER | VS 65 COMPUTER SYSTEM | 742-1617-A 741-1617-A | BLUE | MNL |
| SYSTEM, COMPUTER | VS 7010 COMPUTER SYSTEM | 742-1818 741-1818 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 7100 7110, 7120, 7150 COMPUTER SYSTEM | 742-1721-A 741-1721-A | BLUE | MNL |
| SYSTEM, COMPUTER | VS 7300 7310, 7320 COMPUTER SYSTEM | 742-1772 741-1772 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 80 COMPUTER SYSTEM REFERENCE SUMMARY | FICHE N/A 741-0716 | BLUE | GDE |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492 741-1492 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-1 741-1492-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-2 741-1492-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-3 741-1492-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-4 741-1492-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-5 741-1492-5 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-6 741-1492-6 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-7 741-1492-7 | BLUE | PUB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|-----------|--|----------------------------|-------|------|
| DIAGNOSTIC, | VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309 | BLUE | DHB |
| DIAGNOSTIC, | VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309-1 | BLUE | DHBP |
| SYSTEM, | COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462 741-1462 | BLUE | MNL |
| SYSTEM, | COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462-1 741-1462-1 | BLUE | PUB |
| SYSTEM, | COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462-2 741-1462-2 | BLUE | PUB |
| SYSTEM, | COMPUTER | VS 90, 100 COMPUTER SYSTEM | FICHE N/A 741-1635 | BLUE | SHB |
| SYSTEM, | COMPUTER | VS COMPUTER SYSTEM I/O STRUCTURE & IOP MOTHERBOARD | 742-0824 741-0824 | BLUE | MNL |
| DIAGNOSTIC, | VS | VS COMPUTER SYSTEM STANDALONE DIAGNOSTIC | FICHE N/A 741-1256 | BLUE | DHB |
| CABLE CONCENTRATOR, | LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706 741-1706 | BLUE | MNL |
| CABLE CONCENTRATOR, | LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706-1 741-1706-1 | BLUE | PUB |
| CABLE CONCENTRATOR, | LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706-2 741-1706-2 | BLUE | PUB |
| SOFTWARE, | REFERENCE | VS OPERATING SYSTEM SOFTWARE FIELD GUIDE | FICHE N/A 741-1265 | BLUE | SF6 |
| CABLE CONCENTRATOR, | SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A 741-1694-A | BLUE | MNL |
| CABLE CONCENTRATOR, | SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A1 741-1694-A1 | BLUE | PUB |
| CABLE CONCENTRATOR, | SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A2 741-1694-A2 | BLUE | PUB |
| DIAGNOSTIC, | VS | VS SYSTST ONLINE DIAGNOSTIC | FICHE N/A 741-1257 | BLUE | DHB |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--------------------|--|--------------------------|--------|------|
| CONTROLLER, | TELECOMMUNICATIONS | VS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1650 | RED | SHB |
| WORKSTATION, | ARCHIVING | VS/WP/OIS ARCHIVING WORKSTATION 2266C-1/-3, 2266S-1/-2/-3, 2276C-1/-3, AWS-1/-4 | FICHE N/A 741-1679 | ORANGE | SHB |
| DIAGNOSTIC, | VS | VSTEST VS COMPUTER SYSTEM ONLINE DIAGNOSTIC TEST PACKAGE | FICHE N/A 741-1767 | BLUE | DHB |
| SYSTEM, | COMPUTER | WANG COMPUTER SYSTEM CS-2, CS-5 | 742-1769 741-1769 | YELLOW | MNL |
| SYSTEM, | INTEGRATED IMAGE | WANG INTEGRATED IMAGE SYSTEM | 742-1801 741-1801 | BLUE | MNL |
| NETWORK, | IBM PC | WANG LOCAL OFFICE CONNECTION | 742-1695 741-1695 | BROWN | MNL |
| DIAGNOSTIC, | DESKTOP | WANG OFFICE ASSISTANT BIT/DASD DIAGNOSTIC | FICHE N/A 741-1707 | BROWN | DHB |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA-20, WOA-20/P | 742-1402-A 741-1402-A | BROWN | MNL |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA20, WOA20/P, WOA20/P55 | FICHE N/A 741-1627 | BROWN | SHB |
| SOFTWARE, | REFERENCE | WANG SYSTEM NETWORKING SOFTWARE INTERNALS | FICHE N/A 741-1638 | RED | SIM |
| WANGNET, | BACKBONE | WANGNET BACKBONE | 742-1102 741-1102 | RED | MNL |
| WANGNET, | BACKBONE | WANGNET BACKBONE | 742-1102-1 741-1102-1 | RED | PUB |
| WANGNET, | BACKBONE | WANGNET BACKBONE | FICHE N/A 741-1603 | RED | SHB |
| WANGNET, | CABLE KIT | WANGNET CABLE KIT | 742-1183 729-1183 | RED | MNL |
| WANGNET, | PERIPHERALS | WANGNET PERIPHERALS BAND | FICHE N/A 741-1697 | RED | SHB |
| SYSTEM, | WORD PROCESSING | WANGWRITER 5503, 5504, 5524, 5703, 5704, 5724 | 742-0863 PAPER N/A | GREEN | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|---|--------------------------|--------|------|
| DIAGNOSTIC, | WANGWRITER | WANGWRITER IN-SYSTEM DIAGNOSTICS | FICHE N/A 741-1497 | GREEN | DHB |
| VOICE PRODUCT, | WBX | WBX DIGITAL CONTROL SWITCH RELEASE 1 | 742-1738 741-1738 | RED | MNL |
| VOICE PRODUCT, | WBX | WBX DIGITAL CONTROL SWITCH RELEASE 1 UPDATE TO RELEASE 2 | 742-1738-1 741-1738-1 | RED | PUB |
| CONTROLLER, | WANG INTER-SYSTEM EX | WISE 6550-1 WANG INTER-SYSTEM EXCHANGE CONTROLLER | 742-0906 741-0906 | ORANGE | MNL |
| SWITCH BOX, | WORKSTATION | WORKSTATION SWITCH BOX SW-16 | 742-1078 PAPER N/A | ORANGE | MNL |
| SYSTEM, | WORD PROCESSING | WP 10A, 20, 25, 30 WORD PROCESSING SYSTEM | FICHE N/A 741-1758 | GREEN | SHB |
| SOFTWARE, | REFERENCE | WP PLUS SOFTWARE FIELD GUIDE | FICHE N/A 741-1704 | WHITE | SFG |
| SYSTEM, | WORD PROCESSING | WP SYSTEM 10, 20, 30 PRELIMINARY - VOL 2 | 742-0831 PAPER N/A | GREEN | MNL |
| SYSTEM, | WORD PROCESSING | WP SYSTEM 5 | 742-0677 PAPER N/A | GREEN | WPNL |
| CONTROLLER, | TELECOMMUNICATIONS | WP/OIS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1759 | RED | SHB |
| PRINTER, | LASER | XEROX LASER PRINTER COPY ANALYSIS & MANAGEMENT | 742-1106 741-1106 | ORANGE | MNL |
| FEEDER, | DUAL SHEET/ENVELOPE | ZIYAD Z303 Z306 DUAL SHEET/ENVELOPE FEEDER MAINTENANCE | 742-1231 741-1231 | ORANGE | MNL |

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|---|------------------|--|--------------------------|-----------|
| WANGNET, | SIGNAL GENERATOR | FOUR/FIVE FREQUENCY TEST SIGNAL GENERATOR | 742-1180 741-1180 | BEIGE MNL |
| SYSTEM, | COMPUTER | VS 60, 80 COMPUTER SYSTEM VOL 1 - INTRODUCTION | 742-0714 741-0714 | BLUE MNL |
| SYSTEM, | COMPUTER | VS 60, 80 COMPUTER SYSTEM VOL 2 - INSTALLATION | 742-0715 PAPER N/A | BLUE MNL |
| SYSTEM, | COMPUTER | VS 80 COMPUTER SYSTEM REFERENCE SUMMARY | FICHE N/A 741-0716 | BLUE GDE |
| SYSTEM, | COMPUTER | VS COMPUTER SYSTEM I/O STRUCTURE & IOP MOTHERBOARD | 742-0824 741-0824 | BLUE MNL |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871 741-0871 | BLUE MNL |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-1 741-0871-1 | BLUE PUB |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-2 741-0871-2 | BLUE PUB |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 741-0871-3 741-0871-3 | BLUE PUB |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-4 741-0871-4 | BLUE PUB |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-5 741-0871-5 | BLUE PUB |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-6 741-0871-6 | BLUE PUB |
| SYSTEM, | COMPUTER | VS 100 COMPUTER SYSTEM | 742-0871-7 741-0871-7 | BLUE PUB |
| INPUT/OUTPUT PROCESS, DISK | | 22V18 DISK INPUT/OUTPUT PROCESSOR (IOP) | 742-0883 PAPER N/A | BLUE PSN |
| INPUT/OUTPUT PROCESS, WRKSTATION/PRINTER/ | | VS 22V17 WORKSTATION/PRINTER/ARCHIVER INPUT/ OUTPUT PROCESSOR (IOP) | 742-0932 PAPER N/A | BLUE PSN |
| SYSTEM, | COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032 741-1032 | BLUE MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--|--------------------------|-------|------|
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032-1 741-1032-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM | 742-1032-2 741-1032-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 25, 45 COMPUTER SYSTEM IPB | 742-1032-3 741-1032-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15, 25, 45 COMPUTER SYSTEM SCHEMATICS | 742-1185 741-1185 | BLUE | MNL |
| DIAGNOSTIC, VS | VS COMPUTER SYSTEM STANDALONE DIAGNOSTIC | FICHE N/A 741-1256 | BLUE | DHB |
| DIAGNOSTIC, VS | VS SYSTST ONLINE DIAGNOSTIC | FICHE N/A 741-1257 | BLUE | DHB |
| SOFTWARE, REFERENCE | VS OPERATING SYSTEM SOFTWARE FIELD GUIDE | FICHE N/A 741-1265 | BLUE | SFG |
| DIAGNOSTIC, VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309-1 | BLUE | DHBP |
| DIAGNOSTIC, VS | VS 25, 45 BP MONITOR DIAGNOSTICS | FICHE N/A 741-1320 | BLUE | DHB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404 741-1404 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-1 741-1404-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-2 741-1404-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-3 741-1404-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-4 741-1404-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 15 COMPUTER SYSTEM | 742-1404-5 741-1404-5 | BLUE | PUB |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|---|--------------------------|-------|------|
| SYSTEM, COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462 741-1462 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462-1 741-1462-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 90, 100 COMPUTER SYSTEM SCHEMATICS | 742-1462-2 741-1462-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492 741-1492 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-1 741-1492-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-2 741-1492-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-3 741-1492-3 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-4 741-1492-4 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-5 741-1492-5 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-6 741-1492-6 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 85, 85H COMPUTER SYSTEM | 742-1492-7 741-1492-7 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 65 COMPUTER SYSTEM | 742-1617-A 741-1617-A | BLUE | MNL |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | 742-1634 741-1634 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | 742-1634-1 741-1634-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 90, 100 COMPUTER SYSTEM | FICHE N/A 741-1635 | BLUE | SHB |
| RSAF, VS HOST | REKOTE SYSTEM ADMINISTRATOR FACILITY (VS) | 742-1657-A 741-1657-A | BLUE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|----------------------------|---|----------------------------|-------|------|
| SYSTEM, COMPUTER | VS 60, 80 COMPUTER SYSTEM | FICHE N/A 741-1666 | BLUE | SHB |
| CONTROLLER, COMMUNICATIONS | RESOURCE SHARING FACILITY VS | 742-1683 741-1683 | BLUE | MNL |
| CABLE CONCENTRATOR, SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A 741-1694-A | BLUE | MNL |
| CABLE CONCENTRATOR, SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A1 741-1694-A1 | BLUE | PUB |
| CABLE CONCENTRATOR, SMALL | VS SMALL CABLE CONCENTRATOR | 742-1694-A2 741-1694-A2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705 741-1705 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705-1 741-1705-1 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | 742-1705-2 741-1705-2 | BLUE | PUB |
| CABLE CONCENTRATOR, LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706 741-1706 | BLUE | MNL |
| CABLE CONCENTRATOR, LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706-1 741-1706-1 | BLUE | PUB |
| CABLE CONCENTRATOR, LARGE | VS LARGE CABLE CONCENTRATOR | 742-1706-2 741-1706-2 | BLUE | PUB |
| SYSTEM, COMPUTER | VS 300 COMPUTER SYSTEM | FICHE N/A 741-1711 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 7100 7110, 7120, 7150 COMPUTER SYSTEM | 742-1721-A 741-1721-A | BLUE | MNL |
| SYSTEM, COMPUTER | VS 15, 25, 45, 65 COMPUTER SYSTEM | FICHE N/A 741-1730 | BLUE | SHB |
| SYSTEM, COMPUTER | VS 5, 6 COMPUTER SYSTEM | FICHE N/A 741-1741 | BLUE | SHB |
| DIAGNOSTIC, VS | VS 300 COMPUTER SYSTEM ON/OFF-LINE DIAGNOSTIC | FICHE N/A 741-1742 | BLUE | DHB |

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|------------------------------|--|--------------------------|-------|------|
| DIAGNOSTIC, VS | VSTEST VS COMPUTER SYSTEM ONLINE DIAGNOSTIC TEST PACKAGE | FICHE N/A 741-1767 | BLUE | DHB |
| SYSTEM, COMPUTER | VS 7300 7310, 7320 COMPUTER SYSTEM | 742-1772 741-1772 | BLUE | MNL |
| SYSTEM, INTEGRATED IMAGE | WANG INTEGRATED IMAGE SYSTEM | 742-1801 741-1801 | BLUE | MNL |
| SYSTEM, COMPUTER | VS 7010 COMPUTER SYSTEM | 742-1818 741-1818 | BLUE | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190 741-1190 | BROWN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-1 741-1190-1 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-2 741-1190-2 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-3 741-1190-3 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-4 741-1190-4 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-5 741-1190-5 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-6 741-1190-6 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-7 741-1190-7 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-8 741-1190-8 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | 742-1190-9 741-1190-9 | BROWN | PUB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241 741-1241 | BROWN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-1 741-1241-1 | BROWN | PUB |

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| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-2 741-1241-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-3 741-1241-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER SCHEMATICS | 742-1241-4 741-1241-4 | BROWN | PUB |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA-20, WOA-20/P | 742-1402-A 741-1402-A | BROWN | MNL |
| DIAGNOSTIC, | PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435 | BROWN | DHB |
| DIAGNOSTIC, | PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-1 | BROWN | DHBP |
| DIAGNOSTIC, | PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-2 | BROWN | DHBP |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA20, WOA20/P, WOA20/P55 | FICHE N/A 741-1627 | BROWN | SHB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | FICHE N/A 741-1658 | BROWN | SHB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676 741-1676 | BROWN | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-1 741-1676-1 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-2 741-1676-2 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-3 741-1676-3 | BROWN | PUB |
| SYSTEM, | PROFESSIONAL COMPUTE | ADVANCED PC APC PROFESSIONAL COMPUTER SYSTEM | 742-1676-4 741-1676-4 | BROWN | PUB |
| NETWORK, | IBM PC | WANG LOCAL OFFICE CONNECTION | 742-1695 741-1695 | BROWN | MNL |
| DIAGNOSTIC, | DESKTOP | WANG OFFICE ASSISTANT BIT/OASD DIAGNOSTIC | FICHE N/A 741-1707 | BROWN | DHB |

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| SYSTEM, COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747 741-1747 | BROWN | MNL |
| SYSTEM, COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747-1 741-1747-1 | BROWN | PUB |
| SYSTEM, COMPUTER | LAPTOP COMPUTER SYSTEM | 742-1747-2 741-1747-2 | BROWN | PUB |
| DIAGNOSTIC, DESKTOP | LAPTOP COMPUTER SYSTEM WLTC DIAGNOSTIC | FICHE N/A 741-1765 | BROWN | DHB |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER PC 280 | 742-1771 741-1771 | BROWN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER PC 380 | 742-1793 741-1793 | BROWN | MNL |
| SYSTEM, PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER PC 240 | 742-1808 741-1808 | BROWN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM | 742-0664 741-0664 | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM | 742-0664-1 741-0664-1 | GREEN | PUB |
| SYSTEM, WORD PROCESSING | WP SYSTEM 5 | 742-0677 PAPER N/A | GREEN | WPNL |
| SYSTEM, WORD PROCESSING | WP SYSTEM 10, 20, 30 PRELIMINARY - VOL 2 | 742-0831 PAPER N/A | GREEN | MNL |
| SYSTEM, WORD PROCESSING | WANGWRITER 5503, 5504, 5524, 5703, 5704, 5724 | 742-0863 PAPER N/A | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS OFFICE INFORMATION SYSTEM | 742-0886 729-0886-A | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM | 742-1267-B 741-1267-B | GREEN | MNL |
| SYSTEM, OFFICE INFORMATION | OIS 40, 40B, 45, 50, 55, 60, 65, 70 OFFICE INFORMATION SYSTEM | 742-1267-B1 741-1267-B1 | GREEN | PUB |
| DIAGNOSTIC, OIS | OIS 140 CLASS OFFICE INFORMATION SYSTEM MASTER MONITOR DIAGNOSTIC | FICHE N/A 741-1322 | GREEN | DHB |

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| DIAGNOSTIC, | DIS | DIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1328 | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS OFFICE INFORMATION SYSTEM DTOS DIAGNOSTICS VOLUME 3 | FICHE N/A 741-1356 | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS 50 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1392 | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS 40, 50, 60, 70 OFFICE INFORMATION SYSTEM BIT/DTOS DIAGNOSTICS | FICHE N/A 741-1471-A | GREEN | DHB |
| DIAGNOSTIC, | WANGWRITER | WANGWRITER IN-SYSTEM DIAGNOSTICS | FICHE N/A 741-1497 | GREEN | DHB |
| SYSTEM, | OFFICE INFORMATION | DIS 40, 45, 50, 55, 60, 60-1, 65, 70 OFFICE INFORMATION SYSTEM | FICHE N/A 741-1605-B | GREEN | SHB |
| DIAGNOSTIC, | DIS | DIS OFFICE INFORMATION SYSTEM SINGLE CHANNEL DIAGNOSTIC | FICHE N/A 741-1628 | GREEN | DHB |
| DIAGNOSTIC, | DIS | DIS 60 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTIC | FICHE N/A 741-1646 | GREEN | DHB |
| SYSTEM, | OFFICE INFORMATION | DIS 105, 115, 125A, 130A-E, 140, 145 | FICHE N/A 741-1648 | GREEN | SHB |
| DIAGNOSTIC, | DIS | DIS FTU DIAGNOSTIC | FICHE N/A 741-1722 | GREEN | DHB |
| SYSTEM, | WORD PROCESSING | WP 10A, 20, 25, 30 WORD PROCESSING SYSTEM | FICHE N/A 741-1758 | GREEN | SHB |
| DISK DRIVE, | SMD | CDC BK4XX/BK5XX SMD DISK DRIVE DESCRIPTION/ OPERATION/THEORY/CIRCUITS | 742-0209-A 741-0209-A | ORANGE | MNL |
| DISK DRIVE, | SMD | CDC BK5XX/BK7XX SMD DISK DRIVE OPERATION/ TROUBLESHOOTING/REPAIR | 742-0211-A 741-0211-A | ORANGE | MNL |
| DISK DRIVE, | SMD | CDC BK6XX/BK7XX SMD DISK DRIVE INSTALLATION/ MAINTENANCE/PARTS/WIRE LISTS | 742-0221 729-0221-A | ORANGE | MNL |
| DISK DRIVE, | SMD | CDC BK6XX/BK7XX SMD DISK DRIVE | 742-0221-1 729-0221-A1 | ORANGE | PUB |
| DISK DRIVE, | SMD | 2265-V2, 6565 CDC BK6XX, BK7XX SMD DISK DRIVE | 742-0222-A 741-0222-A | ORANGE | MNL |

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| TAPE DRIVE, | MAGNETIC | KENNEDY 9100 MAGNETIC TAPE DRIVE MAINTENANCE | 742-0249 PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | KENNEDY 9219 MAGNETIC TAPE FORMATTER MAINTENANCE | 742-0250-A PAPER N/A | ORANGE | MNL |
| PRINTER, | DAISY | 2281M/WC,5541M/WC,6581M/WC/WC1 DAISY PRINTER | 742-0372 741-0372 | ORANGE | MNL |
| PRINTER, | BAND | 5573/5574/2273-1-2/2273V-1 DATAPRODUCTS 300/ 600 LPM BAND PRINTER MAINTENANCE | 742-0432 741-0432 | ORANGE | MNL |
| PRINTER, | BAND | 2273V-1/2273-1/5573/5573-1 DATAPRODUCTS 300/ 600 LPM BAND PRINTER MAINTENANCE VOLUME 1 | 742-0434-A 741-0434-A | ORANGE | MNL |
| PRINTER, | BAND | 2273/2273V/2273-1/2273V-1/2273-2/5573/5574 DATAPRODUCTS BAND PRINTER NOTES | 742-0438 741-0438 | ORANGE | MNL |
| PHOTOTYPESETTER, | | 44, 48 PHOTOTYPESETTER | 742-0465 729-0465 | ORANGE | MNL |
| PHOTOTYPESETTER, | | 44, 48 PHOTOTYPESETTER | 742-0465-1 PAPER N/A | ORANGE | PUB |
| TERMINAL, | 2200 | 2236 DE TERMINAL | 742-0476 741-0476 | ORANGE | MNL |
| WORKSTATION, | WP/DIS | ER60 1 WP/DIS WORKSTATION | 742-0494 PAPER N/A | ORANGE | MNL |
| WORKSTATION, | DIS | 5536 WORKSTATION | 742-0522 741-0522 | ORANGE | MNL |
| FEEDER, | TWIN SHEET | TWIN SHEET FEEDER 01/03/05/06/11/13/20/21/22/ 23/31/33/41/43/51/53/61 | 742-0549-A 741-0549-A | ORANGE | MNL |
| PRINTER, | MATRIX | 2233, 2235, 5533, 5535 MATRIX PRINTER | 742-0859 741-0859 | ORANGE | MNL |
| DISKETTE DRIVE, | FLOPPY | SHUGART SA-850/851 FLOPPY DISKETTE DRIVE SERVICE | 742-0862 PAPER N/A | ORANGE | MNL |
| WORKSTATION, | ARCHIVING | 2266C-1, 2266S-1-2-3, 2276C-1-3, AWS-1-4, 5740 ARCHIVING WORKSTATION | 742-0865-A 741-0865-A | ORANGE | MNL |
| FEEDER, | ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12 | 742-0873 PAPER N/A | ORANGE | MNL |

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| DISK DRIVE, | CARTRIDGE | CDC 9427H CARTRIDGE DISK DRIVE | 742-0884 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, | WINCHESTER | SHUGART SA-1000 WINCHESTER DISK DRIVE | 742-0898 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, | FIXED | DIABLO 40/43 FIXED DISK DRIVE PARTS LIST | 742-0899 PAPER N/A | ORANGE | MNL |
| TERMINAL, | INTERGRATED | 2236W INTERGRATED TERMINAL | 742-0903 PAPER N/A | ORANGE | MNL |
| CONTROLLER, | WANG INTER-SYSTEM EX | WISE 6550-1 WANG INTER-SYSTEM EXCHANGE CONTROLLER | 742-0906 741-0906 | ORANGE | MNL |
| WORKSTATION, | VS/DIS | ER60 2 59XX WORKSTATION | 742-0920-A 741-0920-A | ORANGE | MNL |
| TAPE DRIVE, | MAGNETIC | 6509 NINE-TRACK MAGNETIC TAPE DRIVE | 742-0959 PAPER N/A | ORANGE | MNL |
| DISKETTE DRIVE, | FLOPPY | SHUGART SA-851 FLOPPY DISKETTE DRIVE ADJUSTMENTS | 742-0967 PAPER N/A | ORANGE | PSN |
| PROCESSING UNIT, | DISK | 2280 DISK PROCESSING UNIT | 742-0971 PAPER N/A | ORANGE | MNL |
| PRINTER, | MATRIX | PM010 EPSON MX-80 MATRIX PRINTER | 742-0976 PAPER N/A | ORANGE | MNL |
| WORKSTATION, | VS/DIS | ER60 2 DE/DW WORKSTATION | 742-1025 PAPER N/A | ORANGE | MNL |
| PRINTER, | DAISY | DM/OS-20 DAISY PRINTER | 742-1054 741-1054 | ORANGE | MNL |
| DISK DRIVE, | WINCHESTER | QUANTUM Q-2000 WINCHESTER DISK DRIVE | 742-1060 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, | CARTRIDGE MODULE | CDC BK4XX CARTRIDGE MODULE DISK DRIVE | 742-1063-A 741-1063-A | ORANGE | MNL |
| SWITCH BOX, | WORKSTATION | WORKSTATION SWITCH BOX SW-16 | 742-1078 PAPER N/A | ORANGE | MNL |
| PRINTER, | MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | 742-1084 741-1084 | ORANGE | MNL |

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| PRINTER, | MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | 742-1084-1 741-1084-1 | ORANGE | PUB |
| WORKSTATION, | VS/OIS | ER60 3 53XX WORKSTATION | 742-1086 741-1086 | ORANGE | MNL |
| WORKSTATION, | VS/OIS | ER60 3 53XX WORKSTATION | 742-1086-1 741-1086-1 | ORANGE | PUB |
| TERMINAL, | INTEGRATED | 2236DM INTEGRATED TERMINAL | 742-1087 741-1087 | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE | 742-1104-A 741-1104-A | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM INSTALLATION AND SERVICE | 742-1104-A1 741-1104-A1 | ORANGE | PUB |
| PRINTER, | LASER | XEROX LASER PRINTER COPY ANALYSIS & MANAGEMENT | 742-1106 741-1106 | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM | 742-1107-A 741-1107-A | ORANGE | MNL |
| TAPE DRIVE, | MAGNETIC | TELEX 6253 MAGNETIC TAPE DRIVE | 742-1136 PAPER N/A | ORANGE | MNL |
| TAPE FORMATTER, | MAGNETIC | TELEX 6850 TAPE FORMATTER | 742-1137 PAPER N/A | ORANGE | MNL |
| PRINTER, | LASER | LPS 12 INTERFACE UNIT | 742-1155 729-1155 | ORANGE | MNL |
| FEEDER, | DUAL SHEET/ENVELOPE | ZIYAD Z303 Z306 DUAL SHEET/ENVELOPE FEEDER MAINTENANCE | 742-1231 741-1231 | ORANGE | MNL |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251 741-1251 | ORANGE | MNL |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251-1 741-1251-1 | ORANGE | PUB |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | 742-1251-2 741-1251-2 | ORANGE | PUB |
| PRINTER, | BAND | DATAPRODUCTS BP BAND PRINTER MAINTENANCE | 742-1272 729-1272 | ORANGE | MNL |

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| PRINTER, BAND | DATAPRODUCTS BP BAND PRINTER SCHEMATICS | 742-1273-A 741-1273-A | ORANGE | MNL |
| PRINTER, BAND | DATAPRODUCTS BAND PRINTER PARTS LIST | 742-1301 729-1301 | ORANGE | MNL |
| WORKSTATION, VS/DIS | 4200 SERIES 4210, 4220 WORKSTATIONS | 742-1302 741-1302 | ORANGE | MNL |
| PRINTER, DAISY | DIABLO 620 DAISY PRINTER | 742-1327 741-1327 | ORANGE | MNL |
| PRINTER, THERMAL | THERMAL PRINTER | 742-1335 PAPER N/A | ORANGE | MNL |
| WORKSTATION, VS/DIS | 4200 SERIES 4205, 4230 WORKSTATIONS | 742-1339 741-1339 | ORANGE | MNL |
| PRINTER, DAISY | DATAPRODUCTS DAISY PRINTER SCHEMATICS | 742-1341-A 741-1341-A | ORANGE | MNL |
| DISK DRIVE, WINCHESTER/FLOPPY | 2275 DISK PERIPHERAL WINCHESTER/FLOPPY DISK DRIVE | 742-1345-A 741-1345-A | ORANGE | MNL |
| DIAGNOSTIC, TAPE DRIVES | DTOS TESTS FOR MAGNETIC TAPE DRIVES DIAGNOSTICS | FICHE N/A 741-1374 | ORANGE | DHB |
| DIAGNOSTIC, PRINTER | DTOS TESTS FOR PRINTERS DIAGNOSTICS | FICHE N/A 741-1375 | ORANGE | DHB |
| DIAGNOSTIC, WORKSTATION | DTOS TESTS FOR WORKSTATIONS DIAGNOSTICS | FICHE N/A 741-1378 | ORANGE | DHB |
| PHOTOTYPESETTER, | 5548Z PHOTOTYPESETTER | 742-1434 741-1434 | ORANGE | MNL |
| DISK DRIVE, WINCHESTER | NEC D2246 WINCHESTER DISK DRIVE MAINTENANCE | 742-1452 729-1452 | ORANGE | MNL |
| PRINTER, DAISY | DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE | 742-1457 741-1457 | ORANGE | MNL |
| PRINTER, DAISY | DW/OS-55 DATAPRODUCTS DP-55 DAISY PRINTER MAINTENANCE | 742-1457-1 741-1457-1 | ORANGE | PUB |
| PRINTER, LASER | LIS 12 LASER IMAGING SYSTEM MAINTENANCE | 742-1478 741-1478 | ORANGE | MNL |

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| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE DIAGRAMS VOLUME 3 | 742-1489 741-1489 | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE THEORY OF OPERATION REPAIR, REPLACEMENT VOLUME 2 | 742-1490-A 741-1490-A | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE INSTALLATION VOLUME 1 | 742-1491 741-1491 | ORANGE | MNL |
| DISK DRIVE, | RSD | 2267V1, 6567-1 CDC PA3A1 PA3A2 RSD DISK DRIVE CROSS REFERENCE PART NUMBER LIST | 742-1491-1 741-1491-1 | ORANGE | PUB |
| DISK DRIVE, | FIXED | NEC D2257 FIXED DISK DRIVE | 742-1503 729-1503 | ORANGE | MNL |
| DISK DRIVE, | FIXED | NEC D2257 FIXED DISK DRIVE | 742-1503-1 729-1503-1 | ORANGE | PUB |
| PRINTER, | MATRIX | PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE | 742-1600 741-1600 | ORANGE | MNL |
| PRINTER, | MATRIX | PM016 EPSON FX-100 MATRIX PRINTER MAINTENANCE | 742-1600-1 741-1600-1 | ORANGE | PUB |
| PRINTER, | MATRIX | 2233, 2235, 5533, 5535 LOW-COST MATRIX PRINTER | FICHE N/A 741-1601-A | ORANGE | SHB |
| PRINTER, | MATRIX | 2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602 | ORANGE | SHB |
| PRINTER, | MATRIX | 2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602-1 | ORANGE | SHBP |
| PRINTER, | DAISY | 01S-PTR-20, PM012 DIABLO 620 DAISY PRINTER | FICHE N/A 741-1604 | ORANGE | SHB |
| PRINTER, | MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | FICHE N/A 741-1606 | ORANGE | SHB |
| WORKSTATION, | VS/DIS | ERGD 2 & 3 5300/AL-64/PS/ME/AL-A 5924/5/8-4 5944/5/8-4 5947/9 WORKSTATIONS | FICHE N/A 741-1607 | ORANGE | SHB |
| FEEDER, | TWIN SHEET | TWIN SHEET FEEDER TSF-01,02,03,11,12,13,20,21, 22,23,31,32,33,41,42 | FICHE N/A 741-1610 | ORANGE | SHB |
| FEEDER, | ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12,13,21,22,23 | FICHE N/A 741-1611-A | ORANGE | SHB |

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| PRINTER, | MATRIX | 2231W-1/-2/-3/-6, 2231V2/2S, 5531W-2 31W MATRIX PRINTER | FICHE N/A 741-1616-A | ORANGE | SHB |
| PRINTER, | LASER | LPS 12 LASER PRINTING SYSTEM | FICHE N/A 741-1618-A | ORANGE | SHB |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619 | ORANGE | SHB |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-1 | ORANGE | SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-2 | ORANGE | SHBP |
| PRINTER, | LASER | LPS 12 XEROX 8040 LASER PRINTING SYSTEM CAUSE AND EFFECT UPDATE | 742-1622 741-1622 | ORANGE | MNL |
| WORKSTATION, | VS/DIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623 | ORANGE | SHB |
| WORKSTATION, | VS/DIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623-1 | ORANGE | SHBP |
| DISK DRIVE, | FIXED | DIABLO 44B 2260 SERIES FIXED DISK DRIVE | FICHE N/A 741-1625 | ORANGE | SHB |
| PRINTER, | DAISY | DW/OS-55 DATAPRODUCTS DP55 DAISY PRINTER | FICHE N/A 741-1626 | ORANGE | SHB |
| PRINTER, | BAND | 2273V-1/2273-1/2273-2/5573/5574 DATAPRODUCTS 300/600 LPM BAND PRINTER MASTER SUPPORT AND LOG | 742-1629 741-1629 | ORANGE | MNL |
| WORKSTATION, | COLOR GRAPHICS | 4245 COLOR GRAPHICS WORKSTATION | 742-1632 741-1632 | ORANGE | MNL |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | FICHE N/A 741-1633 | ORANGE | SHB |
| MONITOR, | COLOR | PK005 COLOR MONITOR | 742-1643 741-1643 | ORANGE | MNL |
| MONITOR, | COLOR | PK005 COLOR MONITOR | 742-1643-1 741-1643-1 | ORANGE | PUB |
| TERMINAL, | VS | 2110 TERMINAL | 742-1645 741-1645 | ORANGE | MNL |

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| TERMINAL, | VS | 2110 TERMINAL | 742-1645-1 741-1645-1 | ORANGE | PUB |
| MONITOR, | MONOCHROME | PM004L LOW COST MONOCHROME MONITOR | 742-1647 741-1647 | ORANGE | MNL |
| MONITOR, | MONOCHROME | PM004L LOW COST MONOCHROME MONITOR | 742-1647-1 741-1647-1 | ORANGE | PUB |
| DISK DRIVE, | HAWK | CDC HAWK DISK DRIVE | FICHE N/A 741-1651-A | ORANGE | SHB |
| DISK DRIVE, | PHOENIX | CDC PHOENIX DISK DRIVE 2280-1/2/3, 2280V-1/2/3, 6580V-1/2/3 | FICHE N/A 741-1652-A | ORANGE | SHB |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A | ORANGE | SHB |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A1 | ORANGE | SHBP |
| PRINTER, | DAISY | 6581 DAISY PRINTER | FICHE N/A 741-1654 | ORANGE | SHB |
| DISK DRIVE, | FSD | CDC FSD DISK DRIVE INSTALLATION | 742-1660 741-1660 | ORANGE | MNL |
| PRINTER, | DAISY | PM015 JUKI 6300 DAISY PRINTER | 742-1661 741-1661 | ORANGE | MNL |
| DISK DRIVE, | FSD | CDC FSD DISK DRIVE THEORY | 742-1662 741-1662 | ORANGE | MNL |
| DISK DRIVE, | FSD | CDC FSD DISK DRIVE DIAGRAMS | 742-1663 741-1663 | ORANGE | MNL |
| PRINTER, | MATRIX | PM019 NEC PINWRITER MATRIX PRINTER | 742-1664 741-1664 | ORANGE | MNL |
| FEEDER, | DUAL SHEET | DUAL SHEET FEEDER DSF-55,55I,55IT,55T,77,77I | FICHE N/A 741-1665 | ORANGE | SHB |
| PRINTER, | LASER | LIS 24 LASER IMAGING SYSTEM SERVICE DATA AND PARTS LIST | 742-1670-C 741-1670-C | ORANGE | MNL |
| TAPE DRIVE, | STREAMING | PM038-1 STREAMING TAPE DRIVE | 742-1672 741-1672 | ORANGE | MNL |

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|---------------------|--------------|--|--------------------------|--------|------|
| PRINTER, | LASER | LPS 8 CANON LBP-CX LASER PRINTER | 742-1673 741-1673 | ORANGE | MNL |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674 741-1674 | ORANGE | MNL |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674-1 741-1674-1 | ORANGE | PUB |
| CABINET, | DATA STORAGE | SMALL & LARGE DATA STORAGE CABINET | 742-1674-2 741-1674-2 | ORANGE | PUB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675 | ORANGE | SHB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675-1 | ORANGE | SHBP |
| DISK DRIVE, | FIXED | 2268V-1, 6568-1 NEC 85 FIXED DISK DRIVE | FICHE N/A 741-1678 | ORANGE | SHB |
| WORKSTATION, | ARCHIVING | VS/WP/DIS ARCHIVING WORKSTATION 2266C-1/-3, 2266S-1/-2/-3, 2276C-1/-3, AWS-1/-4 | FICHE N/A 741-1679 | ORANGE | SHB |
| PRINTER, | THERMAL | THERMAL PRINTER | FICHE N/A 741-1680 | ORANGE | SHB |
| WORKSTATION, | ENGINEERING | ADVENT 8019 ENGINEERING WORKSTATION | 742-1682 PAPER N/A | ORANGE | MNL |
| DISK DRIVE, | FIXED | NEC 167 FIXED DISK DRIVE | FICHE N/A 741-1684 | ORANGE | SHB |
| PRINTER, | DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691 | ORANGE | SHB |
| PRINTER, | DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691-1 | ORANGE | SHBP |
| PRINTER, | LASER | LIS 24 LASER IMAGING SYSTEM | 742-1698-B 741-1698-B | ORANGE | MNL |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699 | ORANGE | SHB |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699-1 | ORANGE | SHBP |

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|---------------------|-------------------|--|--------------------------|--------|------|
| MONITOR, | MONOCHROME | PM004L MONOCHROME MONITOR | FICHE N/A 741-1700 | ORANGE | SHB |
| MONITOR, | COLOR | PM005 COLOR MONITOR | 742-1701-A 741-1701-A | ORANGE | MNL |
| WORKSTATION, | VS/OIS | 4230A VS/OIS WORKSTATION | 742-1709 741-1709 | ORANGE | MNL |
| SCANNER, | SHEET FEED | SHEET FEED SCANNER | 742-1726 741-1726 | ORANGE | MNL |
| WORKSTATION, | 2200 | 2436DW/DE | 742-1727 741-1727 | ORANGE | MNL |
| WORKSTATION, | 2200 | 2436DW/DE | 742-1727-1 741-1727-1 | ORANGE | PUB |
| TAPE DRIVE, | MAGNETIC | 2229, 2529, 6529 CARTRIDGE TAPE DRIVE | FICHE N/A 741-1731 | ORANGE | SHB |
| SCANNER, | SHEET FEED | PIC PM06 SHEET FEED SCANNER | FICHE N/A 741-1735 | ORANGE | SHB |
| TERMINAL, | VS | 2110A TERMINAL | 742-1740 741-1740 | ORANGE | MNL |
| PRINTER, | MATRIX | PM017 EPSON 420 MATRIX PRINTER | 742-1744 741-1744 | ORANGE | MNL |
| PRINTER, | MATRIX | PM017 EPSON 420 MATRIX PRINTER | 742-1744-1 741-1744-1 | ORANGE | PUB |
| MONITOR, | COLOR | PANISONIC 19-IN. COLOR CRT DISPLAY TX-2002MC | 742-1745 741-1745 | ORANGE | MNL |
| PHOTOTYPESETTER, | | 5548, 5548Z PHOTOTYPESETTER | FICHE N/A 741-1753 | ORANGE | SHB |
| PRINTER, | DAISY | JUKI DAISY PRINTER | 742-1754 741-1754 | ORANGE | MNL |
| PRINTER, | DAISY | JUKI DAISY PRINTER | 742-1754-1 741-1754-1 | ORANGE | PUB |
| READER, | OPTICAL CHARACTER | 9616 DEST 213A OPTICAL CHARACTER READER | 742-1773 741-1773 | ORANGE | MNL |

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| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|------------------|---|--------------------------|------------|
| PRINTER, | LASER | LCS 15 RICOH LP4150 LASER COMPOSITION SYSTEM | 742-1775 741-1775 | ORANGE MNL |
| TERMINAL, | AUTOMATIC COIN | 9608 TELEQUIP ACT 1 AUTOMATIC COIN TERMINAL | 742-1784 741-1784 | ORANGE MNL |
| PRINTER, | TRANSACTION | 9612 9613 PRINTER PRODUCTS S400T | 742-1785 741-1785 | ORANGE MNL |
| TERMINAL, | FINANCIAL | 8700 FINANCIAL TERMINAL | 742-1786 741-1786 | ORANGE MNL |
| MONITOR, | COLOR | PANASONIC 16-IN MON 1650 | 742-1789 741-1789 | ORANGE MNL |
| PRINTER, | MATRIX | LM400, LM700, LM900 PRINTRONIX P9000 SHUTTLE MATRIX PRINTER | 742-1790 741-1790 | ORANGE MNL |
| TERMINAL, | CASHIER | 9607/A COMTEX 3010Z CASHIER TERMINAL VOLUME 1 | 742-1797 741-1797 | ORANGE MNL |
| TERMINAL, | CASHIER | 9607/A COMTEX 3010Z CASHIER TERMINAL VOLUME 2 | 742-1798 741-1798 | ORANGE MNL |
| TAPE DRIVE, | TRI DENSITY | 2248V-1 TELEX 9087 TRI DENSITY TAPE DRIVE | 742-1799-A 741-1799-A | ORANGE MNL |
| MONITOR, | FULL PAGE | FULL PAGE MONITOR 1640 | 742-1800 741-1800 | ORANGE MNL |
| ATM, | AUTOMATIC TELLER | AUTOMATIC TELLER MACHINES DIEBOLD MDS 1000 TERMINAL | 742-1809 741-1809 | ORANGE MNL |
| PRINTER, | MATRIX | DM-50/300 EPSON EX-800/1000 MATRIX PRINTER | 742-1813 741-1813 | ORANGE MNL |
| PRINTER, | LASER | LDP8 LBP-SX LASER PRINTER | 742-1814 741-1814 | ORANGE MNL |
| DISK DRIVE, | SMD | CDC SMD DISK DRIVE BK4XX/BK5XX VOL 1 | 742-1815 741-1815 | ORANGE MNL |
| DISK DRIVE, | SMD | CDC SMD DISK DRIVE BK5XX VOL 2 | 742-1816 741-1816 | ORANGE MNL |
| PRINTER, | SPECS | PRINTER PAPER SPECIFICATIONS | FICHE N/A 741-1819 | ORANGE SHB |

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|---------------------|----------------------|---|--------------------------|--------|------|
| PRINTER, | MATRIX | PM060, 5578 JUKI 7100 COLOR MATRIX PRINTER | 742-1823 741-1823 | ORANGE | MNL |
| CONTROLLER, | BINARY SYNC. TELECOM | OIS 5528 BINARY SYNC. TELECOMMUNICATIONS CONTROLLER | 742-0681 PAPER N/A | RED | MNL |
| CONTROLLER, | ASYN. TELECOMMUNICA | OIS 5594-4 ASYN. TELECOMMUNICATIONS CONTROLLER | 742-0682 PAPER N/A | RED | MNL |
| CONTROLLER, | TELECOMMUNICATIONS | 2200 2228D TELECOMMUNICATIONS CONTROLLER | 742-0858 PAPER N/A | RED | MNL |
| CONTROLLER, | TELECOMMUNICATIONS | TCB-1/DLP-64/128 TELECOMMUNICATIONS CONTROLLER | 742-0887 729-0887-B | RED | MNL |
| MODEM, | FULL-DUPLEX | RACAL-VADIC VA-3450 FULL-DUPLEX MODEM | 742-0977 741-0997 | RED | MNL |
| MODEM, | FULL-DUPLEX | RACAL-VADIC VA-3451 FULL-DUPLEX MODEM | 742-1010 PAPER N/A | RED | MNL |
| PROCESSOR, | TELECOMMUNICATIONS | TCP TELECOMMUNICATIONS PROCESSOR | 742-1043 729-1043 | RED | MNL |
| WANGNET, | BACKBONE | WANGNET BACKBONE | 742-1102 741-1102 | RED | MNL |
| WANGNET, | BACKBONE | WANGNET BACKBONE | 742-1102-1 741-1102-1 | RED | PUB |
| TELETYPE, | LEVEL CONVERTER | TLC4/L54 TELETYPE LEVEL CONVERTER | 742-1126 741-1126 | RED | MNL |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX | 742-1141 741-1141 | RED | MNL |
| SOFTWARE, | REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172 | RED | SFG |
| SOFTWARE, | REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172-1 | RED | SFGP |
| MODEM, | FIXED FREQUENCY | 9600 FIXED FREQUENCY MODEM | 741-1176 741-1176 | RED | MNL |
| WANGNET, | CABLE KIT | WANGNET CABLE KIT | 742-1183 729-1183 | RED | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|---|---------------------------|-------|------|
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | 742-1192 741-1192 | RED | MNL |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | 742-1192-1 741-1192-1 | RED | PUB |
| MODEM, | FIXED FREQUENCY | FFM-64000 FIXED FREQUENCY MODEM | 741-1215 741-1215 | RED | MNL |
| WANGNET, | NETMUX | NETMUX WANGNET NETWORK MULTIPLEXER | 742-1217 741-1217 | RED | MNL |
| WANGNET, | NETMUX | NETMUX WANGNET NETWORK MULTIPLEXER | 742-1217-1 741-1217-1 | RED | PUB |
| PROCESSOR, | CABLE INTERFACE | DIS MCIP CABLE INTERFACE PROCESSOR | 742-1223 741-1223 | RED | MNL |
| PROCESSOR, | CABLE INTERFACE | DIS MCIP CABLE INTERFACE PROCESSOR | 742-1223-1 741-1223-1 | RED | PUB |
| CONTROLLER, | DATA LINK | 928W MASTER DATA LINK | 742-1268 729-1268-A | RED | MNL |
| CONTROLLER, | DATA LINK | 928W MASTER DATA LINK | 742-1268-2 729-1268-A2 | RED | PUB |
| DIAGNOSTIC, | TELECOMMUNICATIONS | DTOS TESTS FOR VS/DIS TELECOMMUNICATIONS DIAGNOSTICS | FICHE N/A 741-1377 | RED | DHB |
| MULTIPLEXER, | CABLE | CMUX-3270 CABLE MULTIPLEXER | 742-1388 741-1388 | RED | MNL |
| MULTIPLEXER, | CABLE | CMUX-3270 CABLE MULTIPLEXER | 742-1388-1 741-1388-1 | RED | PUB |
| WANGNET, | BACKBONE | WANGNET BACKBONE | FICHE N/A 741-1603 | RED | SHB |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.0 | FICHE N/A 741-1608 | RED | SHB |
| WANGNET, | FASTLAN | FASTLAN | 742-1614 PAPER N/A | RED | MNL |
| SYSTEM, | PROFESSIONAL COMPUTE | NETWORK SERVICES PROFESSIONAL COMPUTER SYSTEM | 742-1621-A 741-1621-A | RED | MNL |

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|---|----------------------------|-------|------|
| SOFTWARE, | REFERENCE | WANG SYSTEM NETWORKING SOFTWARE INTERNALS | FICHE N/A 741-1638 | RED | SIM |
| FIBER OPTIC, | CONVERTER BOX | FIBER OPTIC CONVERTER BOX | 742-1649-A 741-1649-A | RED | MNL |
| FIBER OPTIC, | CONVERTER BOX | FIBER OPTIC CONVERTER BOX | 742-1649-A1 741-1649-A1 | RED | PUB |
| CONTROLLER, | TELECOMMUNICATIONS | VS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1650 | RED | SHB |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | FICHE N/A 741-1667 | RED | SHB |
| TRANSLATOR, | IBM PC | IBM PC TRANSLATOR | 742-1693 741-1693 | RED | MNL |
| WANGNET, | PERIPHERALS | WANGNET PERIPHERALS BAND | FICHE N/A 741-1697 | RED | SHB |
| CONTROLLER, | TELECOMMUNICATIONS | 2200 TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1708 | RED | SHB |
| SWITCH, | REMOTE CLUSTER | REMOTE CLUSTER SWITCH FW-RCS-16S | 742-1712 741-1712 | RED | MNL |
| SWITCH, | REMOTE CLUSTER | REMOTE CLUSTER SWITCH FW-RCS-16S | 742-1712-1 741-1712-1 | RED | PUB |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720 741-1720 | RED | MNL |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720-1 741-1720-1 | RED | PUB |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.5 (IOMP-B) | 742-1720-2 741-1720-2 | RED | PUB |
| OPTION, | LOCAL COMMUNICATIONS | 2200 LOCAL COMMUNICATIONS OPTION | 742-1723 741-1723 | RED | MNL |
| OPTION, | LOCAL COMMUNICATIONS | 2200 LOCAL COMMUNICATIONS OPTION | 742-1723-1 741-1723-1 | RED | PUB |
| 802.3, | WANGNET ADAPTER | 802.3 WANGNET WANGBAND ADAPTER | 742-1724 741-1724 | RED | MNL |

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| 802.3, | WANGNET ADAPTER | 802.3 WANGNET WANGBAND ADAPTER | 742-1724-1 741-1724-1 | RED PUB |
| VOICE PRODUCT, | WANG TELEMDEM | CA-1200/2400 | 742-1732 741-1732 | RED MNL |
| RSAF, | HOST USERS GUIDE | RSAF 2 (PC) | 742-1734 741-1734 | RED MNL |
| RSAF, | HOST USERS GUIDE | RSAF 2 (PC) | 742-1734-1 741-1734-1 | RED PUB |
| VOICE PRODUCT, | WBX | WBX DIGITAL CONTROL SWITCH RELEASE 1 | 742-1738 741-1738 | RED MNL |
| VOICE PRODUCT, | WBX | WBX DIGITAL CONTROL SWITCH RELEASE 1 UPDATE TO RELEASE 2 | 742-1738-1 741-1738-1 | RED PUB |
| MODEM, | LDSU | 9630 CODEX 2122 LDSU MODEM | 742-1755 741-1755 | RED MNL |
| MODEM, | AUTO CALLING UNIT | 9626 CODEX 2207 AUTO CALLING UNIT | 742-1757 741-1757 | RED MNL |
| CONTROLLER, | TELECOMMUNICATIONS | WP/OIS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1759 | RED SHB |
| MODEM, | DATA | CODEX LSI 96/V.29 DATA MODEM | 742-1761 741-1761 | RED MNL |
| MODEM, | LDSU | 9631 CODEX 2111 LDSU MODEM | 742-1762 741-1762 | RED MNL |
| MODEM, | LDSU | 9615 CODEX 2121 LDSU MODEM | 742-1763 741-1763 | RED MNL |
| MODEM, | ERROR CORRECTING | 9632 CODEX 2270 ERROR CORRECTING MODEM | 742-1768 741-1768 | RED MNL |
| MODEM, | DATA | 9621 CODEX 2220 DATA MODEM | 742-1774 741-1774 | RED MNL |
| MODEM, | GROUP BAND | 9625 CODEX 8300 GROUP BAND MODEM | 742-1776 741-1776 | RED MNL |
| MODEM, | DATA | 9620 CODEX LSI 48/V.27 DATA MODEM | 742-1778 741-1778 | RED MNL |

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|---------------------|------------------|---|---------------------------|------------|
| MODEM, | DATA | 9624 CODEX V.22 DATA MODEM | 742-1780 741-1780 | RED MNL |
| MODEM, | BIPLEXER | 9629 CODEX 296 BIPLEXER MODEM | 742-1781 741-1781 | RED MNL |
| MODEM, | DATA | 9634 CODEX 2205 DATA MODEM | 742-1782 741-1782 | RED MNL |
| MODEM, | DATA | 9633 CODEX 2222 DATA MODEM | 742-1783 741-1783 | RED MNL |
| MODEM, | DATA | 9622 CODEX 2219 DATA MODEM | 742-1792 741-1792 | RED MNL |
| 802.3, | VS INTERFACE | 802.3 VS INTERFACE | 742-1794 741-1794 | RED MNL |
| CATALOG, | LISTINGS | CUSTOMER SERVICE DOCUMENTATION LISTINGS | 742-0000-A 741-0000-A | WHITE CAT |
| SOFTWARE, | ELECTRONIC MAIL | MAILWAY INSTALLATION | 742-0861 PAPER N/A | WHITE PSN |
| CATALOG, | TOOL/TEST EQUIP. | TOOL AND TEST EQUIPMENT CATALOG | 742-0960 PAPER N/A | WHITE CAT |
| SOFTWARE, | REFERENCE | PROBE USER'S GUIDE | 742-1469-B 741-1469-B | WHITE GDE |
| MAINTENANCE, | PM | PREVENTATIVE MAINTENANCE | FICHE N/A 741-1687 | WHITE SHB |
| SOFTWARE, | REFERENCE | WP PLUS SOFTWARE FIELD GUIDE | FICHE N/A 741-1704 | WHITE SFG |
| AMMUS, | | AMMUS INSTALLATION GUIDE | 742-1770 741-1770 | WHITE MNL |
| CONDITIONER, | POWER LINE | 9618, 9619 MICROPOWER II POWER LINE CONDITIONER | 742-1822 741-1822 | WHITE MNL |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584 729-0584-A | YELLOW MNL |
| SYSTEM, | COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584-1 729-0584-A1 | YELLOW PUB |

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|-----------------------------|--|---------------------------|--------|------|
| SYSTEM, COMPUTER | 2200 MVP COMPUTER SYSTEM | 742-0584-2 729-0584-A2 | YELLOW | PUB |
| SYSTEM, COMPUTER | 2200 LVP COMPUTER SYSTEM | 742-0602 741-0602 | YELLOW | MNL |
| SYSTEM, COMPUTER | 2200 LVP COMPUTER SYSTEM | 742-0602-1 741-0602-1 | YELLOW | PUB |
| INTERFACE, DISK MULTIPLEXER | 2280 DISK MULTIPLEXER I/O INTERFACE | 742-0904 PAPER N/A | YELLOW | PSN |
| SYSTEM, COMPUTER | 2200 SVP COMPUTER SYSTEM | 742-0935 729-0935-A | YELLOW | MNL |
| SYSTEM, COMPUTER | 2200 VP, VPA, MVP, MVPA, MVPC, LVP, LVPC, SVP COMPUTER SYSTEM | FICHE N/A 741-1636 | YELLOW | SHB |
| WORKSTATION, 2200 | 2236D/DE/DW, 2236DE/DW, 2876DE/DW, 2286DE/DW WORKSTATIONS | FICHE N/A 741-1641 | YELLOW | SHB |
| SYSTEM, COMPUTER | 2200 MICRO VP-1/-2 COMPUTER SYSTEM | 742-1668 741-1668 | YELLOW | MNL |
| SYSTEM, COMPUTER | 2200 MICRO VP-1/-2 COMPUTER SYSTEM | 742-1668-1 741-1668-1 | YELLOW | PUB |
| SYSTEM, COMPUTER | WANG COMPUTER SYSTEM CS-2, CS-5 | 742-1769 741-1769 | YELLOW | MNL |
| CABINET, DATA STORAGE | 2200 DATA STORAGE CABINET | 742-1806 741-1806 | YELLOW | MNL |
| CABINET, DATA STORAGE | 2200 DATA STORAGE CABINET | 742-1806-1 741-1806-1 | YELLOW | PUB |

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SERVICE HANDBOOK LISTING

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| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
| CONTROLLER, | TELECOMMUNICATIONS | 2200 TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1708 | RED | SHB |
| CONTROLLER, | TELECOMMUNICATIONS | VS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1650 | RED | SHB |
| CONTROLLER, | TELECOMMUNICATIONS | WP/DIS TELECOMMUNICATIONS CONTROLLERS | FICHE N/A 741-1759 | RED | SHB |
| DESKTOP, | OFFICE ASSISTANT | WANG OFFICE ASSISTANT WOA20, WOA20/P, WOA20/P55 | FICHE N/A 741-1627 | BROWN | SHB |
| DISK DRIVE, | FIXED | 2268V-1, 6568-1 NEC 85 FIXED DISK DRIVE | FICHE N/A 741-1678 | ORANGE | SHB |
| DISK DRIVE, | FIXED | DIABLO 44B 2260 SERIES FIXED DISK DRIVE | FICHE N/A 741-1625 | ORANGE | SHB |
| DISK DRIVE, | FIXED | NEC 167 FIXED DISK DRIVE | FICHE N/A 741-1684 | ORANGE | SHB |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699 | ORANGE | SHB |
| DISK DRIVE, | FMD | 2265V-3 CDC FMD DISK DRIVE | FICHE N/A 741-1699-1 | ORANGE | SHBP |
| DISK DRIVE, | HAWK | CDC HAWK DISK DRIVE | FICHE N/A 741-1651-A | ORANGE | SHB |
| DISK DRIVE, | PHOENIX | CDC PHOENIX DISK DRIVE 2280-1/2/3, 2280V-1/2/3, 6580V-1/2/3 | FICHE N/A 741-1652-A | ORANGE | SHB |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A | ORANGE | SHB |
| DISK DRIVE, | SMD | 2265V-1/2, 6565 CDC SMD DISK DRIVE | FICHE N/A 741-1653-A1 | ORANGE | SHBP |
| FEEDER, | DUAL SHEET | DUAL SHEET FEEDER DSF-55,551,55IT,55T,77,77I | FICHE N/A 741-1665 | ORANGE | SHB |
| FEEDER, | ENVELOPE | ENVELOPE FEEDER EF-1,2,3,11,12,13,21,22,23 | FICHE N/A 741-1611-A | ORANGE | SHB |
| FEEDER, | TWIN SHEET | TWIN SHEET FEEDER TSF-01,02,03,11,12,13,20,21, 22,23,31,32,33,41,42 | FICHE N/A 741-1610 | ORANGE | SHB |

COMPANY CONFIDENTIAL

SERVICE HANDBOOKS LISTED BY PRODUCT

DOCUMENTS = 59

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|--|-------------------------|--------|------|
| MAINTENANCE, PM | PREVENTATIVE MAINTENANCE | FICHE N/A 741-1687 | WHITE | SHB |
| MONITOR, MONOCHROME | PM004L MONOCHROME MONITOR | FICHE N/A 741-1700 | ORANGE | SHB |
| PHOTOTYPESETTER, | 5548, 5548Z PHOTOTYPESETTER | FICHE N/A 741-1753 | ORANGE | SHB |
| PRINTER, DAISY | 6581 DAISY PRINTER | FICHE N/A 741-1654 | ORANGE | SHB |
| PRINTER, DAISY | DW/DS-55 DATAPRODUCTS DP55 DAISY PRINTER | FICHE N/A 741-1626 | ORANGE | SHB |
| PRINTER, DAISY | OIS-PTR-20, PM012 DIABLO 620 DAISY PRINTER | FICHE N/A 741-1604 | ORANGE | SHB |
| PRINTER, DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691 | ORANGE | SHB |
| PRINTER, DAISY | PM015 JUKI 6300 DAISY PRINTER | FICHE N/A 741-1691-1 | ORANGE | SHBP |
| PRINTER, LASER | LPS 12 LASER PRINTING SYSTEM | FICHE N/A 741-1618-A | ORANGE | SHB |
| PRINTER, MATRIX | 2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602 | ORANGE | SHB |
| PRINTER, MATRIX | 2221W, 200W, 2221V, 5521LPO, 5521W, 621, 721 21W MATRIX PRINTER | FICHE N/A 741-1602-1 | ORANGE | SHBP |
| PRINTER, MATRIX | 2231W-1/-2/-3/-6, 2231V2/2S, 5531W-2 31W MATRIX PRINTER | FICHE N/A 741-1616-A | ORANGE | SHB |
| PRINTER, MATRIX | 2233, 2235, 5533, 5535 LOW-COST MATRIX PRINTER | FICHE N/A 741-1601-A | ORANGE | SHB |
| PRINTER, MATRIX | 5577 VERY HIGH DENSITY MATRIX PRINTER | FICHE N/A 741-1606 | ORANGE | SHB |
| PRINTER, SPECS | PRINTER PAPER SPECIFICATIONS | FICHE N/A 741-1819 | ORANGE | SHB |
| PRINTER, THERMAL | THERMAL PRINTER | FICHE N/A 741-1680 | ORANGE | SHB |

COMPANY CONFIDENTIAL

SERVICE HANDBOOKS LISTED BY PRODUCT

DOCUMENTS = 59

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|----------------------|---|-------------------------|-------------|
| SCANNER, | SHEET FEED | PIC PM06 SHEET FEED SCANNER | FICHE N/A 741-1735 | ORANGE SHB |
| SYSTEM, | COMPUTER | 2200 VP, VPA, MVP, MVPA, MVPC, LVP, LVPC, SVP COMPUTER SYSTEM | FICHE N/A 741-1636 | YELLOW SHB |
| SYSTEM, | COMPUTER | VS 15, 25, 45, 65 COMPUTER SYSTEM | FICHE N/A 741-1730 | BLUE SHB |
| SYSTEM, | COMPUTER | VS 300 COMPUTER SYSTEM | FICHE N/A 741-1711 | BLUE SHB |
| SYSTEM, | COMPUTER | VS 5, 6 COMPUTER SYSTEM | FICHE N/A 741-1741 | BLUE SHB |
| SYSTEM, | COMPUTER | VS 60, 80 COMPUTER SYSTEM | FICHE N/A 741-1666 | BLUE SHB |
| SYSTEM, | COMPUTER | VS 90, 100 COMPUTER SYSTEM | FICHE N/A 741-1635 | BLUE SHB |
| SYSTEM, | OFFICE INFORMATION | DIS 105, 115, 125A, 130A-E, 140, 145 | FICHE N/A 741-1648 | GREEN SHB |
| SYSTEM, | OFFICE INFORMATION | DIS 40, 45, 50, 55, 60, 60-1, 65, 70 OFFICE INFORMATION SYSTEM | FICHE N/A 741-1605-B | GREEN SHB |
| SYSTEM, | PROFESSIONAL COMPUTE | PROFESSIONAL COMPUTER | FICHE N/A 741-1658 | BROWN SHB |
| SYSTEM, | WORD PROCESSING | WP 10A, 20, 25, 30 WORD PROCESSING SYSTEM | FICHE N/A 741-1758 | GREEN SHB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 2209, 2509, 6509 MAGNETIC TAPE DRIVE | FICHE N/A 741-1675-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619 | ORANGE SHB |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-1 | ORANGE SHBP |
| TAPE DRIVE, | MAGNETIC | 2219V MAGNETIC TAPE DRIVE | FICHE N/A 741-1619-2 | ORANGE SHBP |

COMPANY CONFIDENTIAL

SERVICE HANDBOOKS LISTED BY PRODUCT

DOCUMENTS = 59

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|-------------|--|-------------------------|--------|------|
| TAPE DRIVE, | MAGNETIC | 2229, 2529, 6529 CARTRIDGE TAPE DRIVE | FICHE N/A 741-1731 | ORANGE | SHB |
| VOICE PRODUCT, | DVX | DIGITAL VOICE EXCHANGE DVX 1.0 | FICHE N/A 741-1608 | RED | SHB |
| WANGNET, | BACKBONE | WANGNET BACKBONE | FICHE N/A 741-1603 | RED | SHB |
| WANGNET, | CIU | CABLE INTERFACE UNIT CIU | FICHE N/A 741-1667 | RED | SHB |
| WANGNET, | PERIPHERALS | WANGNET PERIPHERALS BAND | FICHE N/A 741-1697 | RED | SHB |
| WORKSTATION, | 2200 | 2236D/OE/DW, 2236DE/DW, 2876DE/DW, 2286DE/DW WORKSTATIONS | FICHE N/A 741-1641 | YELLOW | SHB |
| WORKSTATION, | ARCHIVING | VS/WP/OIS ARCHIVING WORKSTATION 2266C-1/-3, 2266S-1/-2/-3, 2276C-1/-3, AWS-1/-4 | FICHE N/A 741-1679 | ORANGE | SHB |
| WORKSTATION, | GRAPHICS | 6300 GRAPHICS WORKSTATION | FICHE N/A 741-1633 | ORANGE | SHB |
| WORKSTATION, | VS/OIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623 | ORANGE | SHB |
| WORKSTATION, | VS/OIS | 4200 SERIES 4205, 4210, 4220, 4230 WORKSTATIONS | FICHE N/A 741-1623-1 | ORANGE | SHBP |
| WORKSTATION, | VS/OIS | ER60 2 & 3 5300/AL-64/PS/ME/AL-A 5924/5/8-4 5944/5/8-4 5947/9 WORKSTATIONS | FICHE N/A 741-1607 | ORANGE | SHB |

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DIAGNOSTIC HANDBOOK LISTING

DIAGNOSTIC HANDBOOKS LISTED BY PRODUCT

DOCUMENTS = 25

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|--------------------------------|--|-------------------------|--------|------|
| DIAGNOSTIC, DESKTOP | LAPTOP COMPUTER SYSTEM WLTC DIAGNOSTIC | FICHE N/A 741-1765 | BROWN | DHB |
| DIAGNOSTIC, DESKTOP | WANG OFFICE ASSISTANT BIT/DASD DIAGNOSTIC | FICHE N/A 741-1707 | BROWN | DHB |
| DIAGNOSTIC, OIS | OIS 140 CLASS OFFICE INFORMATION SYSTEM MASTER MONITOR DIAGNOSTIC | FICHE N/A 741-1322 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 140 CLASS, (6540, 6545) OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1328 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 40, 50, 60, 70 OFFICE INFORMATION SYSTEM BIT/DIOS DIAGNOSTICS | FICHE N/A 741-1471-A | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 50 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTICS | FICHE N/A 741-1392 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS 60 OFFICE INFORMATION SYSTEM SYSEX DIAGNOSTIC | FICHE N/A 741-1646 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS FTU DIAGNOSTIC | FICHE N/A 741-1722 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS OFFICE INFORMATION SYSTEM DIOS DIAGNOSTICS VOLUME 3 | FICHE N/A 741-1356 | GREEN | DHB |
| DIAGNOSTIC, OIS | OIS OFFICE INFORMATION SYSTEM SINGLE CHANNEL DIAGNOSTIC | FICHE N/A 741-1628 | GREEN | DHB |
| DIAGNOSTIC, PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435 | BROWN | DHB |
| DIAGNOSTIC, PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-1 | BROWN | DHBP |
| DIAGNOSTIC, PC | PROFESSIONAL COMPUTER SYSTEM PCDS DIAGNOSTICS | FICHE N/A 741-1435-2 | BROWN | DHBP |
| DIAGNOSTIC, PRINTER | DIOS TESTS FOR PRINTERS DIAGNOSTICS | FICHE N/A 741-1375 | ORANGE | DHB |
| DIAGNOSTIC, TAPE DRIVES | DIOS TESTS FOR MAGNETIC TAPE DRIVES DIAGNOSTICS | FICHE N/A 741-1374 | ORANGE | DHB |
| DIAGNOSTIC, TELECOMMUNICATIONS | DIOS TESTS FOR VS/DIS TELECOMMUNICATIONS DIAGNOSTICS | FICHE N/A 741-1377 | RED | DHB |

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DIAGNOSTIC HANDBOOKS LISTED BY PRODUCT

DOCUMENTS = 25

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|-------------------------|---|-------------------------|--------|------|
| DIAGNOSTIC, VS | VS 25, 45 BP MONITOR DIAGNOSTICS | FICHE N/A 741-1320 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 300 COMPUTER SYSTEM ON/OFF-LINE DIAGNOSTIC | FICHE N/A 741-1742 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309 | BLUE | DHB |
| DIAGNOSTIC, VS | VS 85, 85H, 90, 100 COMPUTER SYSTEM MICRODIAGNOSTICS | FICHE N/A 741-1309-1 | BLUE | DHBP |
| DIAGNOSTIC, VS | VS COMPUTER SYSTEM STANDALONE DIAGNOSTIC | FICHE N/A 741-1256 | BLUE | DHB |
| DIAGNOSTIC, VS | VS SYSTST ONLINE DIAGNOSTIC | FICHE N/A 741-1257 | BLUE | DHB |
| DIAGNOSTIC, VS | VSTEST VS COMPUTER SYSTEM ONLINE DIAGNOSTIC TEST PACKAGE | FICHE N/A 741-1767 | BLUE | DHB |
| DIAGNOSTIC, WANGWRITER | WANGWRITER IN-SYSTEM DIAGNOSTICS | FICHE N/A 741-1497 | GREEN | DHB |
| DIAGNOSTIC, WORKSTATION | DTOS TESTS FOR WORKSTATIONS DIAGNOSTICS | FICHE N/A 741-1378 | ORANGE | DHB |

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DHB - 2
END

SOFTWARE REFERENCE LISTING

SOFTWARE REFERENCE DOCUMENTATION

DOCUMENTS = 5

REPORT DATE 01/15/88

| PRODUCT FAMILY/TYPE | DOCUMENT TITLE | PART # | COLOR | TYPE |
|---------------------|---|-------------------------|-------|------|
| SOFTWARE, REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172 | RED | SFG |
| SOFTWARE, REFERENCE | TELECOMMUNICATIONS PROTOCOLS SOFTWARE FIELD GUIDE | FICHE N/A 741-1172-1 | RED | SFGP |
| SOFTWARE, REFERENCE | VS OPERATING SYSTEM SOFTWARE FIELD GUIDE | FICHE N/A 741-1265 | BLUE | SFG |
| SOFTWARE, REFERENCE | WANG SYSTEM NETWORKING SOFTWARE INTERNALS | FICHE N/A 741-1638 | RED | SIM |
| SOFTWARE, REFERENCE | WP PLUS SOFTWARE FIELD GUIDE | FICHE N/A 741-1704 | WHITE | SFG |

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SRM - 1
END



LABORATORIES, INC.

ONE INDUSTRIAL AVENUE, LOWELL, MASSACHUSETTS 01851, TEL. (617) 459-5000, TWX 710 343-8789, TELEX 94-7421

PRINTED IN U.S.A.

COMPANY CONFIDENTIAL

DTS'S ✓

TO: Domestic Area, District And Branch Tech. Managers And International Area Tech OPS Managers

FROM: Document Processing Group

DEPT: Training and Documentation, Operations

SUBJECT: Technical Documentation Print Notification

DATE: November 11, 1983

This notice is distributed bi-weekly and contains information on new and revised C.E. Technical Publications. The following is a list of C.E. Technical Documents sent to print after 21 October 83. The description appears as it will in the next Catalog/Index.

New and revised Maintenance Manuals, PSN'S and Service Handbooks will be identified for push distribution upon receipt. Print time for Technical Documents is approximately ten working days.

- 729-0249-A1 PSN to 729-0249-A 3202
 This PSN describes the precautions to be observed when making the read skew adjustment on a Kennedy Model 9100 Tape Drive to ensure that all channels have the proper waveform relationship.
- 729-0920-B2 PSN Ergo Workstation Manual 3404
 This PSN corrects mislabeled switches on the 210-7970 PCA.
- 729-1063-A MNL CDC CMD Block Point 4 3105
 This OEM Manual obsoletes 729-1063, and 729-0198-B. Manual contains: operation, installation and checkout, theory of operations, diagrams, maintenance, parts data, and wire lists.
- 729-1096-A SHB WP/OIS 1503
 The second edition which incorporates 729-1096-1 and 2, completely revises coverage for OIS 105, 115, 125-A, 130-A/B/C, 140, 145, and adds coverage for 130/E.
- 729-1190-B1 PSN to 729-1190-B 8101
 An update PSN to the PC base Manual 729-1190-B to include the Multiport Communications Controller Board.
- 729-1339 MNL VS/WP/OIS Workstation 3404
 This Manual contains information for the 4230 VS/WP/OIS Terminal. Installation, Operation, Corrective Maintenance and Troubleshooting Information is included.

Best Regards
John Raleigh

DTS'S
✓

TO: Domestic Area, District And Branch Tech. Managers And International Area Tech OPS Managers
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Best Regards
John Raleigh

TO: Domestic Area, District And Branch Tech. Managers And International
Area Tech OPS Managers

FROM: Document Processing Group

DEPT: Training and Documentation, Operations

SUBJECT: Technical Documentation Print Notification

DATE: November 23, 1983

This notice is distributed bi-weekly and contains information on new and revised C.E. Technical Publications. The following is a list of C.E. Technical Documents sent to print after 11 November 83. The description appears as it will in the next Catalog/Index.

New and revised Maintenance Manuals, PSN'S and Service Handbooks will be identified for push distribution upon receipt. Print time for Technical Documents is approximately ten working days.

- 729-0249-A2 PSN to 729-0249-A 3202
This PSN which describes a procedure which may be used for analyzing permanent read errors on multi-tape systems which employ the Kennedy Model 9100 tape drives.
- 729-1105-A MNL LPS-12 Parts List & Operation 3318
This manual obsoletes 729-1105. This manual provides up-dated information for a parts listing and principles of operation for the LPS-12 (8040 Electronic Printer).
- 729-1231-1 MNL Ziyad Z-306 Sheet Feeder 3605
This manual is an addendum to the Z-303 service manual, covering differences between the Z-303 and the Z-306 Dual Sheet Feeder both manufactured by Ziyad Inc.
- 729-1357-1 PSN to 729-1357 *1400
This PSN corrects errors in the CE Skills reference Guide (729-1357).
- 729-1366 SWB Wang Workstation Board Repair 1401
This workbook provides a rigorous functional analysis of the (210-7544). Data link and (210-7545) CPU-Video Printed Circuit Assemblies (PCAs) in the "Two-Board" work station. Z-80 & support chip exercises, based upon readily available vender manuals, are also included. The emphasis on functionality provides experienced technicians with detailed trouble-shooting information while also providing new technicians with explanations of fundamental principles.

729-1387

VWB Chaintrain Line Printer

1401

This workbook is part of a video training program on the various models of the Chaintrain Line Printer. The workbook contains support information for the video as well as additional reference material.

Best Regards
John Raleigh

JR/jm/0141m

CUSTOMER ENGINEERING
TECHNICAL ASSISTANCE CENTER
NEWSLETTER

#10630

IA.0

GENERAL INFORMATION-PROCEDURAL-DOCUMENTATION INDEX.

TOPIC: INCORRECT DOCUMENTATION PART NUMBERS

Please be aware that several part numbers were duplicated by Technical Documentation. The correct part number for the items concerned are as follows:

| | |
|----------|--|
| 729-0860 | Interact Repl Async On-Line Diag |
| 729-0861 | Mailway Elect Mail/Msg System Install |
| 729-0862 | SAB50/851 Service Manual |
| 729-0863 | Wangwriter Maintenance Manual |
| 729-0915 | 2200 LVP/SVP Apps Circuit Board Jumper Config |
| 729-0917 | PSN-3 2200LVP/SVP/VS AWS Apps PN/Jmprs |
| 729-0935 | 2200 SVP Product Maintenance Manual |
| 729-0955 | Chngs/Add to Model 2200/LVP Maintenance Manual |

SEND TO: MARY LOU KAMITIAN
MAIL STOP 8220

REPORT DATE 11/19/80

CUSTOMER ENGINEERING
PUBLICATIONS - CATALOG
EFFECTIVE 11/19/80

| PART NO. | DESCRIPTION | VEN CODE |
|----------|--------------------------------------|----------|
| 7290000 | DOCUMENTATION INDEX MNL (I.A.O.M) | AA |
| 7290001 | DOCUMENTATION MNL BINDERS (WHITE) | AA |
| 7290002 | DOCUMENTATION INDEX TABS | AA |
| 7290003 | DOCUMENTATION ORGANIZATION CHART | AA |
| 7290005 | COL KITS & EXTENDER BDS (03-0064) | AB |
| 7290006 | SM113 GEN #26 - NEW REPAIR TAGS | AB |
| 7290007 | SN132 GEN #29 PN'S & REPAIR TAGS | AB |
| 7290009 | CSNL90A GEN INFO #4A CROSS REF LIST | AB |
| 7290010 | CSNL140 GENERAL INFORMATION #5 | AB |
| 7290011 | CSNL168 GEN TECH #12 OEM TOOLS | AB |
| 7290012 | SN171 PRPHL #47 61W DOOR LCH HAZARD | AC |
| 7290013 | CSNL155 2261V #4 DOOR LATCH HAZARD | AC |
| 7290014 | SN87 MSD #11 CDC DISK PACKS REPRINT | AD |
| 7290015 | SN133 GEN #3 DEFECTIVE CASSETTES | AD |
| 7290016 | SN137 MSD #23 10 MEG DISK PACKS | AD |
| 7290017 | ISN110.1 GEN #2 NEW TAPE CASSETTES | AD |
| 7290018 | ISN150 GEN #4 CUSTOMER BACKUP MEDIA | AD |
| 7290019 | WPNL57 DEFECTIVE 10 MEG DISK PACKS | AD |
| 7290020 | WCS 60/80 VOL 3 PM (03-0066) | AE |
| 7290023 | IF41 PM HANDBOOK | AE |
| 7290024 | WPNL38 SYSTEMS 10/20/30 PM SCHEDULE | AE |
| 7290025 | S530.2 MODEL -21 PM GUIDE | AE |
| 7290026 | SN17 2200 #4 WCS SWITCH GUARDS | AF |
| 7290027 | SN54 PRPHL #15 PRINTER INFO | AF |
| 7290028 | SN83 PRPHL #22 PRINTER IPB/STANDS | AF |
| 7290029 | SN142 GEN #30 FURNITURE HARDWARE | AF |
| 7290030 | SN144 PRPHL #39 SILENCER HOOD MAINT | AF |
| 7290031 | WPNL 35 SYSTEMS 10/20/30 FURNITURE | AF |
| 7290032 | WPNL61 SILENCER HOOD HINGE REPLACE | AF |
| 7290034 | * VOLTAGE REFERENCE MANUAL (03-0088) | BC |
| 7290035 | * SCHEMATICS MANUAL (03-0019) | BC |
| 72900351 | SCHEM MNL (03-0019) ADDENDUM OCT 78 | BC |
| 72900352 | SCHEM MNL (03-0019) ADDENDUM JAN 79 | BC |
| 7290036 | SN27 GEN #7 CIRCUIT BD IDENT | BC |
| 7290037 | SN72 GENERAL #18 | BC |
| 7290038 | SN105 GEN #24 ELEC CRAFTING STDS | BC |
| 7290039 | SN168 GEN #32 SERIAL CABLE CONN | BC |
| 7290040 | SN170 GEN #33 BANK/SLIDE SWITCHES | BC |
| 7290041 | WPNL84 SERIAL CABLE CONNECTORS | BC |
| 7290042 | WPNL86 BANK/SLIDE SWITCHES | BC |
| 7290045 | CSNL 147 GEN TECH #9 SER CABLE CONN | BC |
| 7290046 | CSNL 150 GEN TECH #10 SLIDE SWITCHES | BC |
| 7290047 | PSN-1 NEW 24 PIN IC CONNECTOR | BC |
| 7290048 | INTEL 8080 MANUAL (03-0030) | BD |
| 7290049 | ZILOG 280 MANUAL (03-0058) | BD |
| 7290050 | ZILOG 280-PIO/SIO/CTC TECH MNL | BD |
| 7290055 | CE CONVERSION INFORMATION (03-0062) | BE |
| 7290056 | ISN154.1 MSD #14.1 2270/2270A CVRSN | BE |
| 7290057 | WPNL34 928 FIELD CONVERSION KITS | BE |

REPORT DATE 11/19/80

CUSTOMER ENGINEERING
PUBLICATIONS - CATALOG
EFFECTIVE 11/19/80

| PART NO. | DESCRIPTION | VEN CODE |
|-----------|--------------------------------------|----------|
| 7290058 | CSN69 2261V PTR #2 CVRSN PROCEDURE | BE |
| 7290059 | *SN66 GEN #17 PWR LINE PROB/SOLUTION | BF |
| 7290061 | *SN85 GEN #20 STATIC ELEC REPRINT | BF |
| 7290062 | *SN93B GEN #22B ISOLATION TRANFMR | BF |
| 7290063 | *SN114 GEN #27 AC POWER LINE DEVICES | BF |
| 7290064 | WPNL42 PTR & W/S STATIC PROBLEMS | BF |
| 7290064.1 | OIS 140 PRELIM MNL ADDENDUM I | PT |
| 7290065 | *SE33.1 CONSTANT VOLTAGE TRANSFMR | BF |
| 7290066 | PSN-1 VS SYSTEM STATIC PROBLEMS | BF |
| 7290067 | USING YOUR OSCILLOSCOPE (03-0081) | CA |
| 7290068 | SB85 WANG TESTER ASSY & EXTENDER ED | CD |
| 7290069 | PAC-2 MANUAL (03-0070) | CF |
| 7290070 | SB70.1 PROGRAM AUTO COMPARATOR | CF |
| 7290071 | SE70.2 PAC TESTER PROGRAMS INTRC | CF |
| 7290072 | SE70.3 USERS MANUAL FOR PAC-2 | CF |
| 7290073 | *CDC FTU TB304/TB216 MNL (03-0084-1) | DB |
| 7290076 | WPNL68 7213 DISK EXER ARTWK ERRORS | DC |
| 7290077 | SB43.1 DIABLO DISK | DC |
| 7290078 | SB43.2 OPER OF 7213 DISK EXERCISER | DC |
| 7290078.1 | SE43.2A CORRECTIONS TO SB43.2 | DC |
| 7290080 | SN157 MSD #31 10 MEG PACK WARM-UP | DD |
| 7290081 | WPNL69 10 MEG DISK PACK WARM-UP | DD |
| 7290082 | MRG 14 KEYBD I/O CONTROLLER TESTER | DP |
| 7290083 | ROM TESTER MANUAL (03-0003) | DD |
| 7290084 | MRG11 TABLE OF CONT - MRG11 SERIES | EB |
| 7290085 | MRG11.1 INTRODUCTION TO 2200VS | EB |
| 7290086 | MRG11.2 INTRO - 190-0720 CP TESTER | EB |
| 7290087 | MRG11.3 2200VS TEST SYS HARDWARE | EB |
| 7290088 | MRG11.4 2200VS CPU REPAIR GUIDE | EB |
| 7290089 | MRG11.5 PCB REPAIR GUIDE | EB |
| 7290090 | MRG11.6 MEMORY SUBSYS REPAIR GUIDE | EB |
| 7290091 | MRG11.7 2200VS TEST MICROCODE LIST | EB |
| 7290092 | MRG12 2200VS IOP MRG SERIES | EC |
| 7290093 | MRG12.1 IOP MICROINSTRUCTION PRGM | EC |
| 7290094 | MRG12.2 IOP TESTER 190-0719 | EC |
| 7290095 | MRG12.3 IOP SUB-SYSTEM RG (CPU) | EC |
| 7290096 | MRG12.4 IOP SUB-SYSTEM RG (MMB) | EC |
| 7290097 | MRG12.5 IOP SUB-SYSTEM RG (PCB) | EC |
| 7290098 | MRG12.6 STANDALONE W/S & PTR TESTS | EC |
| 7290099 | MRG12.7 VS IOP MICROCODE LISTINGS | EC |
| 7290100 | CSNL37 GEN TECH #4 | EX |
| 7290101 | CSNL49 GEN TECH #5 | EX |
| 7290102 | SN5 MSD #2 2270/2224/2230/2260 | EY |
| 7290103 | SN32 MSD#3 SHUGART 901 DISK DRIVE | EY |
| 7290104 | SN123 MSD #16 JUMPERS IN FLOPPY PCB | EY |
| 7290105 | SN125 MSD #17 MOD 4C LOAD/RUN SW | EY |
| 7290106 | SN148 MSD #25 SA901 HEAD LOAD PADS | EY |
| 7290107 | ISN85 SHUGART TECH MEMOS 16/17/18 | EY |

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| PART NO. | DESCRIPTION | VEN CODE |
|----------|-------------------------------------|----------|
| 7290108 | ISN91 SHUGART TECHNICAL MEMORANDUM | EY |
| 7290109 | ISN99 WANG/SHUGART FLOPPY 2270/WCS | EY |
| 7290110 | ISN122 MSD #2 SA901 SPINDLE PULLEY | EY |
| 7290111 | ISN129A MSD #5 SA HUB CLAMP ASSY | EY |
| 7290112 | ISN166 2200 #15 WCS-15 DATA ERRORS | EY |
| 7290113 | WPNL21 SA901 HEAD ALIGNMENT | EY |
| 7290114 | WPNL64 SA 901 HEAD LOAD PADS | EY |
| 7290115 | SB46.2 SHUGART DISK SYSTEM | EY |
| 7290116 | SE46.3 MOD 2270 SA901 MAINT INFO | EY |
| 7290117 | SE46.3A SA901 PCB POT ADJUSTMENTS | EY |
| 7290118 | SB82 MOD 2270A IBM COMPAT SHUGART | EY |
| 7290119 | CSNL 10 2270V FLOPPY DRIVE #1 | EY |
| 7290120 | CSNL51 2270V FLOPPY DRIVE #2 | EY |
| 7290121 | PSN-1 PCB 25006-1 IDENT & JUMPERS | EY |
| 7290122 | PSN-2 FLOPPY CVRSN (928 TO OIS 140) | EY |
| 7290123 | SHUGART SA-400 OEM SERVICE MANUAL | EZ |
| 7290124 | SN167 2200 #33 SPINDLE RPM DRIFT | EZ |
| 7290125 | ISN165 2200 #14 DISKETTE BINDING | EZ |
| 7290126 | ISN172 MSD #21 DEFECT DRIVE, CABLE | EZ |
| 7290127 | SB78 SA400 MINIFLOPPY MAINT INFO | EZ |
| 7290128 | SB78A SA400-FLOPPY | EZ |
| 7290129 | MRG2B 7180/7279 REPAIR (REPL MRG2) | EZ |
| 7290130 | ISN4 MOD -40, -42, -43 DRIVE BELT | FA |
| 7290131 | ISN10 DISK INFORMATION | FA |
| 7290132 | ISN39 ECN'S FOR FLOPPY DISKS | FA |
| 72901321 | ISN39.1 CORRECTIONS TO ISN #39 | FA |
| 7290134 | SB46 MOD 640/740/2240 FLEX DRIVE | FA |
| 7290135 | SB46.1 MOD 2242/2243 DISK DRIVE | FA |
| 7290136 | DIABLO OEM SERVICE MANUAL (81603B) | FB |
| 7290137 | DIABLO OEM PS MNL MOD 429 (81608A) | FB |
| 7290138 | FLMG SERIES 40 DRIVES (03-0057) | FB |
| 7290139 | SN1 MSD #1 HEAD SOLENOID ADJUSTMENT | FB |
| 7290140 | SN47 MASS STORAGE DEVICES #4 | FB |
| 7290141 | SN51 MSD #5 WIRING HARNESS CHANGES | FB |
| 7290142 | SN58 MSD #6 HEAD LOAD BAIL ADJ | FB |
| 7290143 | ISN9 MOD 30 TRANSDUCER SLIDERS | FB |
| 7290144 | ISN31 MOD 2260 10 MEG DISK UNIT | FB |
| 7290145 | ISN45 2230/2260 SERVICE NOTES | FB |
| 7290146 | ISN75.1 MOD 30/60 HEAD LOAD PROBLEM | FB |
| 7290147 | ISN81 630/730/2230/2260 HEATSINK BD | FB |
| 7290148 | ISN116 MSD #1 630/730/2230/2260 | FB |
| 7290149 | ISN116A MSD #1A 630/730/2230/2260 | FB |
| 7290150 | ISN125 MSD #3 DIABLO DISK SR EDS | FB |
| 7290152 | SB43 MODEL 30 WANG/DIABLO DRIVE | FB |
| 7290153 | DIABLO OEM SERVICE MNL (81903-01) | FC |
| 7290154 | DIABLO OEM PARTS CATALOG (81904-01) | FC |
| 7290155 | SN76.2 MSD #9 44B ACJ/ALIGNMENTS | FC |
| 7290156 | SN86.1 MSD #10 2260 INTRO | FC |

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|---------|-------------------------------------|----------|
| 7290157 | SN130 MSD #19 44B BRUSH MOTOR | FC |
| 7290158 | SN136 MSD #22 44B NEW ASSY | FC |
| 7290159 | SN152 MSD #27 44B TRACK ZERO | FC |
| 7290160 | SN153A MSD #28A GUIDE SHAFT SUPPORT | FC |
| 7290161 | SN155 MSD #29 SEEK INCOMPLETE PROB | FC |
| 7290162 | SN164 MSD #34 NEW CIRCUIT BOARDS | FC |
| 7290163 | SN165 MSD #35 44B ADJUSTMENTS | FC |
| 7290164 | SN166 MSD #36 TRACK 0 TEST POINTS | FC |
| 7290165 | ISN131 MSD #6 LEVEL 2 UPDATE KIT | FC |
| 7290166 | ISN131A MSD #6A CORRECTION ISN131 | FC |
| 7290167 | ISN137 MSD #8 2260B -1/2 -1/4 | FC |
| 7290168 | ISN142 MSD #9 MOD 44B INFORMATION | FC |
| 7290169 | ISN143 MSD #10 EMER RETRACT CIRCUIT | FC |
| 7290170 | ISN144 MSD #11 MAINT PRECAUTIONS | FC |
| 7290171 | ISN156 MSD #15 STATIC PROOFING | FC |
| 7290172 | ISN161A MSD #17A TRACK 0 OVERSHOOT | FC |
| 7290173 | ISN164 MSD #18 TRACK 0 ADJUSTMENT | FC |
| 7290174 | ISN170 MSD #19 INTERMIT SEEK ERROR | FC |
| 7290175 | ISN171 MSD #20 2260B DISK DRIVES | FC |
| 7290176 | ISN174 MSD #22 NEW ASSEMBLIES | FC |
| 7290177 | ISN180 MSD #24 FIXED DISK CONTAM | FC |
| 7290178 | UPNL28 MAINTENANCE PRECAUTIONS | FC |
| 7290179 | PSM-1 OIL CONTAMINATION PROBLEM | FC |
| 7290180 | HAWK MANUAL (03-0072) | FD |
| 7290181 | CSL135 MSD #21 CDC HAWK DISK INFO | FD |
| 7290182 | CSL141 MSD #24 DISK FILTER REPLACE | FD |
| 7290183 | CSL151 MSD #26 NOISE ABATEMENT PROC | FD |
| 7290184 | UPNL45 CDC HAWK DISK | FD |
| 7290185 | UPNL45 CDC HAWK DISK INFORMATION | FD |
| 7290186 | UPNL58 HAWK DISK FILTER REPLACEMENT | FD |
| 7290187 | UPNL67 NOISE ABATEMENT PROCEDURE | FD |
| 7290188 | SEBS DRIVE INSTALL & ADJUSTMENTS | FD |
| 7290189 | CSNL22 2260V 10 MEG DISK #1 | FD |
| 7290190 | CSNL36 2260V 10 MEG DISK #2 | FD |
| 7290191 | CSNL81 2260V 10 MEG DISK #3 | FD |
| 7290192 | CSNL85 2260V 10 MEG DISK #4 | FD |
| 7290193 | CSNL88 2260V 10 MEG DISK #5 | FD |
| 7290194 | CSNL100 2260V 10 MEG DISK #6 | FD |
| 7290195 | CSNL105 2260V 10 MEG DISK #8 | FD |
| 7290196 | CSNL110 2260V #9 INDEX TIMING SW | FD |
| 7290197 | DEM PHOENIX DISK MNL (75888415) | FE |
| 7290198 | WANG CMD/PHOENIX 2280 (03-0080) | FE |
| 7290199 | PHOENIX DRIVE ADDENDUM 1 (03-0080A) | FE |
| 7290200 | PHOENIX DRIVE ADDENDUM 2 (03-0080B) | FE |
| 7290201 | SN161 MSD #32 HEAD INSPECT & CLEAN | FE |
| 7290202 | SN176 MSD #38 PRECAUTION GUIDELINES | FE |
| 7290203 | CSNL114 2280V PHOENIX DISK #1 | FE |
| 7290204 | CSNL130 2280V #2 PRECAU GUIDELINES | FE |

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|----------|-------------------------------------|----------|
| 7290207 | CSNL163 2280V #3 HEAD INSPEC/CLEAN | FE |
| 7290209 | CDC OEM SERVICE MANUAL (83322200) | FF |
| 7290210 | CDC OEM SERVICE MANUAL (83322150) | FF |
| 7290211 | 75 & 288 MEG DISK MNL (03-0082) | FF |
| 72902111 | WANG/CDC SMD DISK DRIVE MNL REV A | FF |
| 7290212 | CSNL 14A 2265V-1 75 MED DISK #1A | FF |
| 7290213 | CSNL20 2265V-1 75 MEG DISK #2 | FF |
| 7290214 | CSNL64 2265V-1 75 MEG DISK #3 | FF |
| 7290215 | CSNL67 2265V-1 DISK #4 | FF |
| 7290216 | CSNL79 2265V-1 75 MEG DISK #5 | FF |
| 7290217 | CSNL86 2265V-1 75 MEG DISK #6 | FF |
| 7290218 | CSNL102 2265V-1 #7 NEW PS ASSY | FF |
| 7290219 | CSNL139 2265V-1 75 MEG DISK #8 | FF |
| 7290220 | CSNL141 2265V-1 75 MEG DISK #9 | FF |
| 7290221 | CDC OEM SERVICE MANUAL (83322310) | FG |
| 7290222 | CDC OEM SERVICE MANUAL (83322320) | FG |
| 7290223 | CSNL21A 2265V-2 288 MEG DISK #1A | FG |
| 7290224 | CSNL52 2265V-2 288 MEG DISK #2 | FG |
| 7290225 | CSNL60 2265V-2 288 MEG DISK #3 | FG |
| 7290226 | CSNL68 2265V-2 DISK #4 | FG |
| 7290227 | CSNL80 2265V-2 288 MEG DISK #5 | FG |
| 7290228 | CSNL87 2265V-2 288 MEG DISK #6 | FG |
| 7290229 | CSNL138 2265V-2 288 MEG DISK #7 | FG |
| 7290230 | MICROPROCESSOR MNL MSD (03-0026) | FH |
| 7290231 | SN127 2200/2600 #27 2260C CABLES | FH |
| 7290232 | SN143 2200/2600 #30 2260C/BC CABLE | FH |
| 7290233 | ISN114 PRPHL #5 PROM NUMBER UPDATE | FH |
| 7290234 | ISN128A MSD #4 2230/60 MARGINAL ALU | FH |
| 7290235 | ISN136 MSD #7 NEW INTERFACE CABLE | FH |
| 7290236 | ISN153B MSD #13B ECK 7128/7180 | FH |
| 7290237 | ISN178A 2200 #17A CONTROLLER INFO | FH |
| 7290240 | SB72 MOD 2260-2 20 MEG DRIVE SYSTEM | FH |
| 72902401 | SE72A CORRECTION TO SB 72 | FH |
| 7290242 | SE86 2260C DISK SYSTEM | FH |
| 7290243 | SE86A 2260C & 2260 DISK SYSTEM | FH |
| 7290244 | MRG13 212-2260-C CONT TEST/REPAIR | FH |
| 72902441 | MRG13A CORRECTION TO MRG13 | FH |
| 7290246 | WANGCC OEM SERVICE MNL (290237-001) | GP |
| 7290247 | ISN177 MSD #23 2209 ARM SENSE ASSY | GP |
| 7290248 | SE66 MOD 2209 NINE TRACK TAPE DRIVE | GP |
| 7290249 | 9100 KENNEDY OEM MNL (TAPE DRIVE) | GQ |
| 7290250 | 9219 KENNEDY OEM MNL (FORMATTER) | GQ |
| 7290251 | SN99 MSD #12 MOD 2209A KENNEDY PCN | GQ |
| 7290252 | SN104 MSD #13 MOD 2209A ENG CHANGE | GQ |
| 7290253 | SN107 MSD #14 MOD 2209A ENG CHANGE | GQ |
| 7290254 | SN129 MSD #18 MOD 2209A ENG CHANGE | GQ |
| 7290255 | SA173 MSD #37 2209A HIGH ALT CVRSN | GQ |
| 7290256 | SE87 MODEL 2209A MAG TAPE DRIVE | GQ |

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|----------|-------------------------------------|----------|
| 7290257 | CSNL8A 2209V MAGTAPE UNIT #1A | GQ |
| 7290258 | CSNL97 2209V 9-TRACK TAPE #2 | GQ |
| 7290259 | CSNL117 2209V #3 MODEL DIFFERENCES | GQ |
| 7290260 | CSNL156 2209V #4 - HIGH ALT CVRSN | GQ |
| 7290261 | SN39 GEN #9 PINCH ROLLER IDENT | GR |
| 7290262 | SN82 GEN #19 SOLENOID GAP ADJ TOOL | GR |
| 7290263 | ISN53 TD-24 AUTO ON/OFF | GR |
| 7290264 | ISN98 NEW TD-24 PINCH ROLLERS | GR |
| 7290265 | FLMG PTRS 72/61/10182/306 (03-0060) | HM |
| 7290266 | MODEL 2211M PTR/PLTR MUX (03-0102) | HM |
| 7290267 | CSNL133 GENERAL TECHNICAL #8 | HM |
| 7290268 | CSNL164 GEN TECH #11 PTR MOD CHNGS | HM |
| 7290269 | PSN-1 PARALLEL & SERIAL PTR DIFFER | HM |
| 7290270 | 600-1 DATACORP OEM OP INSTR MNL | HN |
| 7290271 | 600-2 DATACORP OEM PRIN OF OPN MNL | HN |
| 7290272 | 600-3 DATACORP OEM MAINT MNL | HN |
| 7290273 | 600-4 DATACORP OEM PARTS/SCHEM MNL | HN |
| 7290274 | SN98 PRPHL #27 PAPER/RIBBON CONT BD | HN |
| 7290275 | SN117 PRPHL #32 ELEC ADJUSTMENTS | HN |
| 7290276 | SN117A PRPHL #32A ELEC ADJUSTMENTS | HN |
| 7290277 | SN120 PRPHL #34 WANG PCB REPL/ADJ | HN |
| 7290278 | SN138 PRPHL #37 LF STROBE SENSORS | HN |
| 7290279 | SN154 PRPHL #42 STATIC BAR ASSEMBLY | HN |
| 7290280 | SN174 PRPHL #49 SEQUENCE BOARD | HN |
| 7290281 | SN175 PRPHL #50 CARD CAGE FANS | HN |
| 7290282 | SN176 PRPHL #51 ECN 12203/7472 BD | HN |
| 7290283 | SN179 PRPHL #53 ECN ON 7381 BD | HN |
| 7290284 | SN180 PRPHL #54 ECN 13765/7387 BD | HN |
| 7290285 | ISN 162 PRPHL #19 WANG MADE BDS | HN |
| 7290286 | ISN168 PRPHL #19 I/O CONTROLLERS | HN |
| 7290287 | ISN169 PRPHL #20 PCB ARTWORK ERRORS | HN |
| 7290288 | CSNL25A 2263V1/V2 LINE PTR #1A | HN |
| 7290289 | CSNL84 2263V1/V2 LINE PTR #2 | HN |
| 7290290 | CSNL101 2263V LINE PRINTER #3 | HN |
| 7290291 | CSNL121 2263V #4 ECN #10103 | HN |
| 7290292 | CSNL122A 223V #5A ECN #9267 CORR | HN |
| 7290294 | CSNL123 2263V #6 ECN #10421 | HN |
| 7290295 | CSNL124 2263V LINE PRINTER #7 | HN |
| 7290296 | CSNL125 2263V #8 ECN #10082 | HN |
| 7290297 | CSNL157 2263V #9 ECN #13282 | HN |
| 7290298 | CSNL161 2263V #10 CARD CAGE FANS | HN |
| 7290299 | CSNL162 2263V #11 ELEC ADJUSTMENTS | HN |
| 7290300 | CSNL165 2263V #12 ECN 10209/10676 | HN |
| 7290301 | CSNL166 2263V #13 ECN 12203/7472 BD | HN |
| 7290302 | CSNL167 2263V #14 ECN FOR 7381 ED | HN |
| 7290303 | *MODEL 77 MAINT MNL (03-0061) | HO |
| 7290304 | FLMG PTRS 72/61/10182/306 (03-0060) | HO |
| 7290305 | SA102 PRPHL #29 2261W FUSE RATINGS | HO |

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|----------|-------------------------------------|----------|
| 7290306 | SN111 PRPHL #29 STATIC DESELECTING | HO |
| 7290307 | SN119 PRPHL #33 INCOR PHOTOCELL PN | HO |
| 7290308 | SN169 PRPHL #46 12 P DISCREPANCY | HO |
| 7290309 | ISN157 PRPHL #14 SOL WIRE BREAKAGE | HO |
| 7290310 | ISN167 PRPHL #18 ELEC SHORT 7132 BD | HO |
| 7290311 | ISN176 PRPHL #22 21W & 61W SOL ADJ | HO |
| 7290312 | CSNL29A 2261V MATRIX PRINTER #1A | HO |
| 7290313 | CSNL148 2261V 12 PITCH DISCREPANCY | HO |
| 7290314 | PSN-1 ECN 11307 & ECN 11497 | HO |
| 7290315 | PSN-2 ECN #13298 & ECN #13298 | HO |
| 7290316 | PSN-3 ECN #12687 | HO |
| 7290317 | PSN-4 ECNS E-REVS 1-4; 7136 BD | HO |
| 7290318 | MODEL 72 MAINT MNL (03-0027) | HP |
| 7290319 | SN21 PRPHL #5 MOD 72 MAT PRINTER | HP |
| 7290320 | SN26 PRPHL #6 VERNIER CLUTCH PROB | HP |
| 7290321 | SN30 PRPHL #9 MOD 72/621W/721W SVCE | HP |
| 7290322 | SN36 PRPHL #11 2221/21W/31/61/72 | HP |
| 7290323 | SN41 PRPHL #12 MCDL 72 INFO | HP |
| 7290324 | SN48 PRPHL #13 MOD 72 PRINTER | HP |
| 7290325 | SN52 PRPHL #14 PTR PROB/CORRECTIONS | HP |
| 7290326 | SN115 PERIPHERALS #31 | HP |
| 7290327 | SN140 PRPHL #38 TIMING FENCE SENSOR | HP |
| 7290328 | SN172 PRPHL #48 TOP FEED ASSY PN'S | HP |
| 7290329 | ISN83 2221W CABLE WIRING ERROR | HP |
| 7290330 | ISN96 MODEL 72 PRINT HEAD FAILURES | HP |
| 7290331 | ISN102 NEW ELEC ADJ FOR MODEL 72 | HP |
| 7290332 | ISN108.1 PRPHL #2 MCDL 72 PRINTER | HP |
| 7290333 | CSNL24A 2221V MATRIX PRINTER #1A | HP |
| 7290334 | CSNL83 2221V MATRIX PRINTER #2 | HP |
| 7290335 | CSNL91 2221V MATRIX PRINTER #3 | HP |
| 7290336 | CSNL154 2221V #4 TOP FEED ASSY PN'S | HP |
| 7290337 | PSN-1 MATRIX PRINTER ECN'S | HP |
| 7290338 | MOD 61 PRINTER MAINT MNL (03-0029) | HQ |
| 7290339 | MOD 61/62 PTR MAINT MNL (03-0077) | HQ |
| 7290340 | MOD 2231W-6 PTR MAINT MNL (03-0099) | HQ |
| 7290341 | SN54 PRPHL #15 PROBLEM & STAND ASSY | HQ |
| 7290342 | SN61 PRPHL #17 MOTHERBD & I/O CABLE | HQ |
| 7290343 | SN62 PRPHL #18 KEYBD/COVER/FAN INFO | HQ |
| 7290344 | SN71 PRPHL #20 MODEL 61/62 DIFF | HQ |
| 7290345 | SN81 PRPHL #21 MODEL 61/62 DIFF | HQ |
| 7290346 | SN100 PRPHL #28 SOL WIRE & BREAKER | HQ |
| 7290347 | SN150A CORRECTION TO SN150 | HQ |
| 7290348 | SN158 PRPHL #43 DRIVE MOTOR BRUSH | HQ |
| 7290349 | ISN163 PRPHL #17 ARMATURE WIRES | HQ |
| 7290350 | WPNL66A CORRECTION TO WPNL 66 | HO |
| 7290351 | WPNL71 DRIVE MOTOR BRUSH REPL | HQ |
| 7290354 | CSNL23A 2231V1/V2 MAT PRINTER #1A | HQ |
| 7290355 | CSNL99A 2231V PRINTERS #2A | HQ |

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|----------|-------------------------------------|----------|
| 7290356 | CSNL111 2231V #3 DRIVE MOTOR BRUSH | HQ |
| 7290357 | MRG21 2231W-6 LINE PRINTER REPAIR | HQ |
| 7290358 | MOD 101 CENTRONICS OEM SERVICE MNL | HR |
| 7290359 | MOD 102 CENTRONICS OEM SERVICE MNL | HR |
| 7290360 | MOD 306 CENTRONICS OEM SERVICE MNL | HR |
| 7290361 | SN19 PRPHL #4 CHAR DOTS & HEAD ASSY | HR |
| 7290362 | SN57 PRPHL #16 2261 RIBBON GUIDE | HR |
| 7290363 | ISN49 621/721/2221/2231/2261 TOF/VT | HR |
| 7290364 | ISN51 621/721/2221/2261 STREAKING | HR |
| 7290365 | ISN100 2261/102A RIBBON GUIDE CHNG | HR |
| 7290366 | ISN112 PRPHL #4 621/721/2221/31/61 | HR |
| 7290368 | SB30 721 HIGH SPEED PRINTER | HR |
| 7290369 | SB30.1 REV IDENT FOR MODEL 101/101A | HR |
| 7290370 | SB45 2231 HIGH-SPEED PRINTER | HR |
| 7290371 | SB53 2261 HIGH-SPEED PRINTER | HR |
| 7290372 | WANG DAISY MAINT MNL (03-0097) | HS |
| 72903721 | WPNL60 81W MANUAL UPDATE | HS |
| 7290374 | WPNL80 TWIN HEAD DAISY PRINTER INFO | HS |
| 7290375 | WPNL80.1 TWIN-HEAD PRINTER CHASSIS | HS |
| 7290376 | WPNL87 WANG PRINT WHEEL | HS |
| 7290377 | WPNL87.1 WANG PRINT WHEEL | HS |
| 7290378 | CSNL169 6581W PRINTERS #1 | HS |
| 7290379 | MRG5 5581 MEMORY TEST | HS |
| 7290380 | MRG7 2281 & 2281P REPAIR | HS |
| 7290381 | MRG16 7361 WANG DAISY CPU REPAIR | HS |
| 7290382 | PSN-1 PCB #210-7462 - ECN #13435 | HS |
| 7290383 | PSN-2 GLYPTOL & LOCKWASHER INSTL | HS |
| 7290384 | PSN-3 41W/WC/81W/WC/EWP PTR PROBS | HS |
| 7290385 | PSN-4 BI-DIRECTIONAL FORMS TRACTORS | HS |
| 7290386 | DIABLO OEM SVCE MNL (82403-02) | HT |
| 7290387 | DIABLO OEM PARTS CATALOG (82404-02) | HT |
| 7290388 | SN97 PRPHL #26 KEYBOARD IMPROVEMENT | HT |
| 7290389 | SN128 PRPHL #35 PIN-FEED/PRINTWHEEL | HT |
| 7290390 | SN133 PRPHL #36 PROM REV & DIFF | HT |
| 7290391 | SN163 PRPHL #45 NEW PRINT WHEEL HUB | HT |
| 7290392 | WPNL6 HY-TYPE PRINTER PROBLEMS | HT |
| 7290393 | WPNL13 HY-TYPE PRINTER SERVICE INFO | HT |
| 7290394 | WPNL17 DIABLO PRINTER PROBLEM AREAS | HT |
| 7290395 | WPNL27 HY-TYPE PRINTER SERVICE INFO | HT |
| 7290396 | WPNL32 SHPNG INSTR - CARRIAGE ASSYS | HT |
| 7290397 | WPNL49 PRINTER PROBLEMS/RESOLUTIONS | HT |
| 7290398 | WPNL52 LIFE-EXPECTANCY TESTS | HT |
| 7290399 | WPNL59 SERIAL NUMBER LOCATION CHNG | HT |
| 7290400 | WPNL79 NEW PRINT WHEEL HUB | HT |
| 72904001 | WPNL79.1 NEW MECH PRINTWHEEL HUB | HT |
| 7290401 | SB74 MODEL 2281 DAISY PRINTER | HT |
| 7290402 | SB74.1 MODEL 2281P PRINTER/PLOTTER | HT |
| 7290403 | CSNL28A 2281V PRINTER #1A | HT |

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|----------|-------------------------------------|----------|
| 7290404 | CSNL65A 2281V PRINTER #2A | HT |
| 7290405 | CSNL120 2281V #3 NEW PRINTWHEEL HUB | HT |
| 7290406 | MRG9 DAISY PRINTWHEEL MOTOR REPL | HT |
| 7290407 | MCD 71 TECH INFO (03-0002) | HU |
| 7290408 | MOD 611/711 MANUAL (03-0014) | HU |
| 7290409 | MOD 2271/2271P MAINT MNL (03-0079) | HU |
| 7290410 | SN3 PRPHL #1 TECH INFO 601/701/2201 | HU |
| 7290411 | SN5 ROTARY BACKSPACE | HU |
| 7290412 | SN6 SELECTRIC II NEW ADJ PROCEDURE | HU |
| 7290413 | SN15 PRPHL #3 TECH INFO OUTPUT WTR | HU |
| 7290414 | SN29 PRPHL #7 2224 & IBM TILT/ROT | HU |
| 7290415 | SN35 PRPHL #10 IBM RIBBON MECHANISM | HU |
| 7290416 | SN50 GEN #13 DUAL VEL VANE/BACKET | HU |
| 7290417 | SN92 PERIPHERALS #24 | HU |
| 72904171 | SN92A PRPHL #24A SN92 CORRECTION | HU |
| 7290419 | SN149 PRPHL #40 SELECTRIC II ADJ | HU |
| 7290420 | ISN3 MODELS -01/-11 REED SWITCH GAP | HU |
| 7290421 | ISN28 701 SOLENOID DRIVER PC BOARDS | HU |
| 7290422 | ISN66/66.1 2201/2202 DROPPING CHAR | HU |
| 7290423 | ISN111 PRPHL #3 2201 ECN #5481 | HU |
| 7290424 | ISN152 PRPHL #13 2201C/2201L HAZARD | HU |
| 7290426 | SE9 702 LEFT MARGIN ALIGNMENT | HU |
| 7290427 | SE12 701/702/711 COMMON ADJUSTMENT | HU |
| 7290428 | SE28 611/711 CHECK-CUT PROCEDURE | HU |
| 7290429 | MCD 7041A H/P OEM SERVICE MANUAL | HV |
| 7290430 | MCD 612/712 FLATBED PLTR (03-0018) | HV |
| 7290431 | SR31 612/712 FLATBED PLOTTER | HV |
| 7290432 | *300 LPM OEM SVCE MNL (DPC245058B) | HW |
| 7290433 | *600 LPM OEM SVCE MNL (DPC255067) | HW |
| 7290434 | B300 SUPPORT/LOGIST MNL (DPC245059) | HW |
| 7290435 | WPNL73 5573 LINE PRINTER TOOLS | HW |
| 7290436 | CSNL143 2273V BAND PRINTER #1 | HW |
| 7290437 | CSNL144 2273V #2 PRINTER TOOLS | HW |
| 7290438 | PSN-1 2273/2273V CIRCUIT BOARD INFO | HW |
| 7290439 | PSN-2 HAMMER MODULE REPLACEMENT | HW |
| 7290440 | ISN130 PRPHL #10 7091 CONT CKT | HX |
| 7290441 | ISN146 PRPHL #12 2251 VICTOR PTR | HX |
| 7290442 | ISN32 INTERMITTENT PROBLEMS | HY |
| 7290443 | ISN36 641/741/2241 PRINT HEAD ADJ | HY |
| 7290444 | ISN48 MOD 641/741/2241 CHAR PRINTER | HY |
| 7290445 | ISN72 REGULATOR - INCORRECT WIRING | HY |
| 7290446 | SE50 MODEL 641/741/2241 PRINTER | HY |
| 7290447 | IMAGE PRINTER MAINT MNL (03-0094) | HZ |
| 7290449 | MOD GS-4/GS-8 MAINT MNL (03-0087) | IA |
| 7290450 | WPNL62 REPLACEMENT PARTS | IA |
| 7290455 | PRELIMINARY MAINTENANCE MANUAL 2272 | IB |
| 7290456 | SN112 PRPHL #30 2272 STEPPER MOTORS | IB |
| 7290457 | ISN120 PRPHL #8 2272 LINE SEP PROB | IB |

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| 7290458 | ISN134 PRPHL #11 2272 PROM UPDATES | IB |
| 7290461 | SE44 MODEL 32 FLATBED PLOTTER | IB |
| 7290462 | SE44.1 632A/732A/2232A PLOTTER | IB |
| 7290463 | SE44.2 632 ALPHA USER ROM DIAGN | IB |
| 7290464 | MRG8 MODEL 2272 REPAIR | IB |
| 7290465 | MOD 44/48 MAINT MNL (03-0092) | IC |
| 72904651 | MOD 44/48 MAINT MNL ADDENDUM I | IC |
| 7290466 | WPNL74 REPLACEMENT INTERFACE BOARDS | IC |
| 7290467 | SN33 GEN #8 CRT/FAN/375-1050 INFO | JR |
| 7290468 | SN90 PRPHL #23 WANG/MOTOROLA INTCHG | JR |
| 7290469 | SN178 PRPHL #52 PS DISPLAY PROBLEM | JR |
| 7290470 | ISN121 PRPHL #9 MOTOROLA 12" DSPL | JR |
| 7290471 | WPNL37 BLANKING CIRCUIT ADDITION | JR |
| 7290473 | SE73 WANG VIDEO DISPLAY CHASSIS | JR |
| 7290474 | SE79 BLANKING CIRCUIT ADDITION | JR |
| 7290475 | PSN-1 WP/OIS/VS PCB HARDWARE | JR |
| 7290476 | SN181 PRPHL #55 2236DE TERMINAL | JS |
| 7290477 | ISN24 2215 AND 2222 STANDARDIZATION | JS |
| 7290478 | ISN44 2215/2222/2223 RETURN/REPAIR | JS |
| 7290479 | ISN151 2200.#11 MOD 2210 ERROR 61 | JS |
| 7290480 | ISN179A 2200/2600 #18A 2236MXD ECN | JS |
| 7290481 | SB63 MODEL 2292 AUXILIARY DISPLAY | JS |
| 7290482 | SB80 2236 INTERACTIVE TERMINAL | JS |
| 72904821 | SB80A ADDENDUM TO SB80 FOR 2236 | JS |
| 7290484 | SE84 2282 GRAPHICS CRT TERMINAL | JS |
| 72904841 | SE84A SB84 CORRECTIONS | JS |
| 7290486 | PRELIMINARY SB MODEL 2210 | JS |
| 7290487 | MRG3 MODEL 2236 SYSTEM REPAIR | JS |
| 7290488 | MRG3.1 2236 SYSTEM REPAIR ADDENDUM | JS |
| 7290489 | MRG3.2 2236MXD REPAIR | JS |
| 7290493 | PSN-1 2236D TERMINAL PROBLEMS | JS |
| 7290494 | ERGONOMIC WORKSTATION MAINT MNL | JT |
| 7290495 | WPNL4 W/S HAZARD & MEM BD SHORTS | JT |
| 7290496 | WPNL14 WORKSTATION VOLUME CONTROLS | JT |
| 7290497 | WPNL22 HORIZONTAL SCROLL OPTION | JT |
| 7290498 | WPNL25 WORKSTATION REPEAT KEYS | JT |
| 7290499 | WPNL31 928 WORKSTATION KEYBD DIFF | JT |
| 7290500 | WPNL41 NEW 7156 REGULATOR | JT |
| 7290501 | WPNL53 STICKING KEYS & 7446 SW SET | JT |
| 7290502 | MRG17 7235/7335 TROUBLESHOOTING AID | JT |
| 7290503 | MRG18 7227 TROUBLESHOOTING AID | JT |
| 7290504 | MRG19 7226/7236 TROUBLESHOOTING AID | JT |
| 7290505 | MRG20 7544 TROUBLESHOOTING AID | JT |
| 7290506 | MOD 2246R REMOTE W/S MNL (03-0089) | JU |
| 7290507 | CSNL9A 2246P #1A CATEGORY INTRO | JU |
| 7290508 | CSNL26 2246P #2 STATIC PROOFING | JU |
| 7290509 | CSNL31 2246P #3 ECN 7962; 7121 ED | JU |
| 7290510 | CSNL34 2246P #4 ECN 8261; 7121 ED | JU |

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| 7290511 | CSNL62 2246P #5 ECN 8818; 7121 BD | JU |
| 7290512 | CSNL76 2246P #6 STICKING KEYS | JU |
| 7290513 | CSNL78 2246P #7 CRT SHOCK HAZARD | JU |
| 7290514 | CSNL109 2246P #8 BASIC COMPILE PRGM | JU |
| 7290515 | CSNL126 2246 #9 - ECN #9846 | JU |
| 7290516 | CSNL131 2246 #10 | JU |
| 7290517 | CSNL142 2246 #11 ECN 12277; 7455 BD | JU |
| 7290518 | CSNL160 2246 #12 ECN 12609; 7478 BD | JU |
| 7290520 | PSN-1 210-7478 TC/MEM BD ECN #14855 | JU |
| 7290521 | WPNL77 ARCHIVING W/S SERVICE INFO | JV |
| 7290522 | WPNL81 MOD 5536-1/-2/-3/-4 W/S | JV |
| 7290523 | WPNL81/1 NEW POWER SUPPLY ASSY | JV |
| 7290524 | WPNL81.2 NO-OP LOGIC | JV |
| 7290525 | WPNL85 ARCHIVING ECN | JV |
| 7290528 | PSN-1 2246C/S NEW 7545 BD & SW SET | JV |
| 7290529 | PSN-2 ARCHIVING W/S TC OPTION | JV |
| 7290531 | 2247V MODEM SHARING UNIT (03-0098) | LB |
| 7290533 | WPNL30 928 PHOTOCOMP (PIO & LPO) | LN |
| 7290534 | WPNL50 ECRM OPTICAL CHAR READER | LN |
| 7290535 | ISN90 ADDENDUM TO SB64 (2262) | LY |
| 7290536 | SB64 MODEL 2262 X-Y DIGITIZER | LY |
| 7290537 | DCCUMATION CARD READER OEM SVCE MNL | LZ |
| 7290538 | 2234/34A 2244/44A MANUAL (03-0024) | LZ |
| 7290539 | SN64 PRPHL #19 READER SERVICE HINTS | LZ |
| 7290540 | ISN33 READER 81ST COLUMN VERIFY | LZ |
| 7290541 | WPNL30 928 PHOTOCOMP (PIO & LPO) | MA |
| 7290541.1 | WPNL30A CORRECTIONS TO WPNL 30 | MA |
| 7290544 | RS-7312-7 OEM TECH MNL 250/60/70/80 | MC |
| 7290545 | WPNL78 MAG CARD READER FOR WPS | MC |
| 7290547 | SB48 603/703/633/733/2203 READERS | MD |
| 7290548 | SB48.1 633/733/2203 ADJ PROCEDURES | MD |
| 7290549 | 5538 TWIN SHEET FEED MNL (03-0093) | ME |
| 7290550 | MCD 2200 MAINT MANUAL (03-0025) | OD |
| 7290551 | FLHG 2200 CPUS (03-0063) | OD |
| 7290552 | SN24 2200 #6 STANDARD 6710/6310 BDS | OD |
| 7290553 | SN37 2200 #9 CRT/FAN/ECN-5432/MCODE | OD |
| 7290554 | SN40 2200 #11 CPU/KYBD/DISPLAY/FANS | OD |
| 7290555 | SN89 2200 #17 CPU IDENTIFICATION | OD |
| 7290556 | ISN14 2200 CASSETTE & DISK PROBLEM | OD |
| 7290557 | ISN16 2200 MOTHERBD FTI CONNECTORS | OD |
| 7290558 | ISN 89.1 MICROCODE PROBLEM INFO | OD |
| 7290559 | ISN 132 2200 #4 VP MICROCODE BUGS | OD |
| 7290561 | SE68 WANG COMPUTER SYSTEMS | OD |
| 7290564 | SA84 2200 #15 2200E&F W/S DIAGRAM | OE |
| 7290565 | SN94A 2200 #13A CORRECTION TO SN94 | OE |
| 7290566 | SN139 2200 #29 PCSIIA INTRODUCTION | OE |
| 7290567 | SN146 2200 #32 PCS II VIDEO DISTN | OE |
| 7290568 | SN147 TELE #6 - PCS TC ECN 9638 | OE |

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| 7290569 | ISN115 2200 #2 MODEL 2200E/F INFO | OE |
| 7290570 | ISN141A 2200 #7A HEATSINKS & RGLTR | OE |
| 7290571 | ISN141B 2200 #7B NEW 7156 REGULATOR | OE |
| 7290572 | ISN141C 2200 #7C REGULATOR | OE |
| 7290573 | ISN160 2200 #13 FORMAT SW & 7180 MP | OE |
| 7290574 | ISN173 2200 #16 5-VCLT FAILURES | OE |
| 7290576 | SB71 2200E PCS & 2200F WORKSTATION | OE |
| 7290577 | SB71.1 I/O CONTRCL PCS W/S 2200E&F | OE |
| 7290578 | SB75 PCS-II | OE |
| 72905781 | SB75A CORRECTION/REPRINT SB75 | OE |
| 72905782 | SB75B PCS IIA - ADDENDUM TO SB75 | OE |
| 7290578A | SB75A/B PCS II & PCS IIA | OE |
| 7290582 | 2600 PRELIM MAINT MNL #1 (03-0031) | OF |
| 7290583 | 2200VP/2600 MNL VOL I&II (03-0039) | OF |
| 7290584 | MODEL 2200 MVP MAINT MNL (03-0071) | OF |
| 7290585 | SN101 2200 #20 P/N CHNGS MULTI-EO | OF |
| 7290586 | SN121 2200 #23 VP/MVP FAN REPL | OF |
| 7290587 | SN124 2200 #25 6793 & I/O BD REPL | OF |
| 7290588 | SN126 2200 #26 AMP CONN & I/O BCS | OF |
| 7290589 | ISN135 2200 #5 ALU BD INCCR LCG | OF |
| 7290591 | MRG4 2200VP SYSTEM REPAIR | OF |
| 7290592 | MRG4.1 6789 MEMORY CONTROL REPAIR | OF |
| 7290593 | MRG4.1A 6789 MEMORY CONTROL REPAIR | OF |
| 7290594 | MRG4.2 210-6793 TEST PROGRAM | OF |
| 7290595 | MRG4.2A 210-6793 TEST PROGRAM | OF |
| 7290596 | MRG4.3 210-6790 TEST PROGRAM | OF |
| 7290597 | MRG4.3A 210-6790 TEST PROGRAM | OF |
| 7290598 | MRG4.4 210-6791 TEST PROGRAM | OF |
| 7290599 | MRG4.4A 210-6791 TEST PROGRAM | OF |
| 7290600 | MRG4.5 210-6792 MODULE REPAIR | OF |
| 7290602 | 2200LVP MAINTENANCE MANUAL | OF |
| 7290603 | SN2 2200 #1 2200 I/O CONTROLLERS | OQ |
| 7290604 | SN14 2200 #3 7042 ADDRESS SELECT SW | OQ |
| 7290605 | SN20 2200 #5 SERVICE INFORMATION | OQ |
| 7290606 | SN122 2200 #24 7159 JUMPER CONFIG | OQ |
| 7290607 | SN134 2200 #28 6541 CONT REPL | OQ |
| 7290608 | ISN46 MODEL 2252A INFORMATION | OQ |
| 7290609 | ISN67 6316 PC2217 I/O CONTROLLER | OQ |
| 7290610 | ISN74 2252/2252A INFORMATION | OQ |
| 7290611 | ISN88 2200 TRIPLE CCNT 6741/6742 | OQ |
| 7290612 | ISN113 2200 #1 TRIPLE CONT ARTWORK | OQ |
| 7290613 | ISN138 2200 #6 7058-1 I/O CONT | OQ |
| 7290614 | SE55 2252 INPUT INTERFACE CONT | OQ |
| 7290615 | SE58 MODEL 2250 I/O INTERFACE | OQ |
| 7290616 | MRG10 PTR/PLOTTER I/O CONT TESTER | OQ |
| 7290618 | SN60 TELE #2 22275 ASYNC CONT | OR |
| 7290619 | SN80 2200 #14 2228E & CONT ECNS | OR |
| 7290620 | SN139 TELE #5 2200 TC CONT ECNS | OR |

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| 7290676 | WPNL44 928 DIAGNOSTIC | QQ |
| 7290677 | WPNL65 SYSTEM 5 DIAGNOSTIC | QQ |
| 7290679 | WPNL20 SPECIAL UTILITIES | QR |
| 7290680 | WPNL40 MODEL 5528 WP TC (PRELIM) | QR |
| 72906801 | WPNL40.1 MODEL 5528 WP TC (PRELIM) | QR |
| 7290681 | WPNL48 5528 BI SYNC TC OPTION | QR |
| 72906811 | WPNL48.1 WPS TC SOFTWARE CORRECTION | QR |
| 72906812 | WPNL48.2 WPS BI SYNC SOFTWR UPDATE | QR |
| 72906813 | WPNL48.3 WPS BI SYNC SOFTWR UPDATE | QR |
| 72906814 | WPNL48.3A CORRECTIONS TO WPNL 48.3 | QR |
| 72906815 | WPNL48.4 WPS BI SYNC SOFTWR UPDATE | QR |
| 72906816 | WPNL48.5 WPS BI SYNC SOFTWR UPDATE | QR |
| 7290682 | WPNL51 TC WORKSTATION (ASYNCR) | QR |
| 72906821 | WPNL51.1 928 W/S DIAGN USER MNL | QR |
| 72906822 | WPNL51.2 928 TC/W DIAGN UPDATE | QR |
| 72906823 | WPNL51.3 TC W/S ELEC (OPTION BD) | QR |
| 72906824 | WPNL51.4 5595-4 ASYNCR SOFTWR UPDATE | QR |
| 72906825 | WPNL51.5 TC W/S & WPS 5 TC SOFTWR | QR |
| 72906826 | WPNL51.6 TC W/S & WPS 5 TC SOFTWR | QR |
| 72906827 | WPNL51.7 TC W/S & WPS 5 TC SOFTWR | QR |
| 7290683 | WPNL70 SYSTEM 5 TC SERVICE INFO | QR |
| 72906831 | WPNL70.1 SYSTEM 5 TC SERVICE INFO | QR |
| 7290684 | WPNL76 DISK OPERATING SYSTEMS | QR |
| 7290685 | WPNL88 DOCUMENT RECOVERY UTILITY | QR |
| 7290689 | PSN-1 OIS TC SOFTWR UTILITY OPTION | QR |
| 7290690 | PSN-2 BI SYNC TC UPDATE FOR WP/OIS | QR |
| 7290691 | PSN-3 OIS SOFTWR RELEASE 1.3 TC/OCR | QR |
| 7290707 | WPNL46 DISK MASTER EVENT HANDLER R2 | QS |
| 7290708 | WPNL50 OPT CHAR RECOGNITION (OCR) | QS |
| 72907081 | WPNL50.1 WPS TC (OCR) SOFTWR UPDATE | QS |
| 72907082 | WPNL50.2 WPS TC (OCR) SOFTWR UPDATE | QS |
| 72907083 | WPNL50.3 WPS TC (OCR) SOFTWR UPDATE | QS |
| 7290709 | WPNL54 EVENT HANDLER UTILITY LDG | QS |
| 7290710 | WPNL82 MULTILINGUAL SUPPORT PKG | QS |
| 7290714 | WCS 60/80 VOL I INTRO (03-0065) | OD |
| 7290715 | WCS 60/80 VOL II (03-0068) | OD |
| 72907151 | INSTL OF 2280 DRIVES (03-0068-0A) | RD |
| 7290716 | VS REF SUMMARY GUIDE (03-0095) | OD |
| 7290717 | CSNL2A 2200VS MAINFRAME # 1A | OD |
| 7290718 | CSNL17 GEN TECH #3 VS ECN FORMAT | OD |
| 7290719 | CSNL18 2200VS MF #2 ECN 8034/34A | OD |
| 7290720 | CSNL19 2200VS MS #3 ECN 8378/78A | OD |
| 7290721 | CSNL39 2200VS MS #4 SYS UPGRADES | OD |
| 7290722 | CSNL40 2200VS MS #5 ECN 8230 | OD |
| 7290723 | CSNL41 2200VS #6 ECN 8456 | OD |
| 7290724 | CSNL45 2200VS MF #7 ECN 7527 | OD |
| 7290725 | CSNL46 2200VS MF #8 ECN 8147 | OD |
| 7290726 | CSNL47 2200VS MS #9 ECN 8215 | OD |

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| 7290621 | ISN139 TELE #1 MOD 2227B PROM CHNG | OR |
| 7290622 | ISN140 TELE #2 OPT 62/62B PROM CHNG | OR |
| 7290626 | SB59 MOD 2207A/2227 CONTROLLERS | OR |
| 7290627 | MRG15 2200 TC CONT REPAIR GUIDE | OR |
| 7290628 | SN29 FRPHL #7 2224 MUX & TILT/ROT | OS |
| 7290629 | SN88A 2200 #16A 2200 SYS HOG MODE | OS |
| 7290630 | SN110C 2200 #22C MXA/MXB HDW CHNG | OS |
| 7290631 | ISN74 2200/2224 INTMT ERROR 68 | OS |
| 7290632 | ISN103 2230 MXA/B MUX SYSTEM MOD | OS |
| 7290634 | SB54 MODEL 2224 DISK MULTIPLEXER | OS |
| 7290635 | SB54.1 THE 2230 MXA/B DISK MUX | OS |
| 7290636 | SN12 2200 #2 2200 DIAGNOSTIC INFO | PD |
| 7290637 | SN28 2200 #7 2200 DIAGNOSTIC INFO | PD |
| 7290638 | SN34 2200 #8 MOD 2200 HDW DIAGN | PD |
| 7290639 | SN55 2200 #19 2200 DIAGNOSTICS | PD |
| 7290641 | SB81 2200 SYSTEM DIAGN BULLETIN | PD |
| 7290642 | SN56 TELEPROCESSING #1 | PF |
| 7290644 | SB77 GEN 2200 TELECOM INFO | PF |
| 7290645 | SB77.1 2200 TC EMULATOR OPN CHNG | PF |
| 7290646 | SB77.2 3275 EMULATOR & 2228C CONT | PF |
| 7290647 | SB77.3 HASP.EMULATOR W/2200 SYSTEM | PF |
| 7290648 | SB77.4 TELECOM DIAGNOSTICS | PF |
| 7290649 | SYSTEM 5 TECHNICAL MANUAL (03-0076) | PR |
| 72906491 | 7549 PTR JCT BD ADDENDUM (03-0076A) | PR |
| 7290651 | WP 10/20/30 PRELIM VOL I (03-0034) | PS |
| 7290652 | WP 10/20/30 THEORY OF OPN (03-0069) | PS |
| 7290653 | FLMG #3 PRELIM 928 WPS (03-0075) | PS |
| 7290654 | OFFICE SYS REF GUIDE (03-0100) | PS |
| 72906541 | OFFICE SYS REF GUIDE ADDENDUM I | PS |
| 7290655 | WPNL 10 SYSTEM 30 INFORMATION | PS |
| 7290656 | WPNL18 WP 10/10A & EDITING STATION | PS |
| 7290657 | WPNL36 INSTL OF COAXIAL CONNECTOR | PS |
| 7290658 | WPNL72 OIS 130 PRELIM INSTL INFO | PS |
| 72906581 | WPNL72.1 MODIFICATIONS TO WPNL 72 | PS |
| 72906582 | WPNL72.2 OIS PRELIM INSTL INFO | PS |
| 72906583 | WPNL72.3 OIS PRELIM INSTL INFO | PS |
| 7290659 | WPNL83 NEW 16K MEM PCB (210-7511A) | PS |
| 7290660 | MRG6 WPS MASTER & W/S MEMCRY TESTS | PS |
| 7290661 | PSN-1 TEMPEST CHARACTERISTICS | PS |
| 7290664 | OIS 140 PRELIM MAINT MNL (03-0083) | PT |
| 72906641 | OIS 140 PRELIM MNL ADD I | PT |
| 72906642 | OIS 140 PRELIM MNL ADDENDUM II | PT |
| 72906643 | OIS 140 PRELIM MNL ADDENDUM III | PT |
| 72906644 | OIS 140 PRELIM MNL ADDENDUM IV | PT |
| 72906645 | OIS 140 PRELIM MNL ADDENDUM V | PT |
| 72906646 | OIS 140 PRELIM MNL ADDENDUM VI | PT |
| 7290674 | WPNL23 SOFTWR RELEASE 2.3/12.3/3.3 | QP |
| 7290675 | PSN-1 SOFTWR HANDLING PROC - DCS | QP |

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| 7290727 | CSNL53 2200VS MF #10 ECN 7396 | OD |
| 7290728 | CSNL54 2200VS MF #11 ECN 7525 | OD |
| 7290729 | CSNL59 2200VS MF #12 ECN 8229 | OD |
| 7290730 | CSNL74 2200VS MF #13 ECN 9241 | OD |
| 7290731 | CSNL82 2200VS MF #14 ECN 9507 | OD |
| 7290732 | CSNL89 2200VS MF #15 PWR RECEPTACLE | OD |
| 7290733 | CSNL92 2200VS MF #16 V06 CVRSN ECNS | OD |
| 7290734 | CSNL94 2200VS #17 ECN 9517 | OD |
| 7290735 | CSNL106 2200VS MF #18 PWR SUPPLY | OD |
| 7290736 | CSNL112 2200VS MF #19 ECN 9890 | OD |
| 7290737 | CSNL113 2200VS MF #20 ECN 11730 | OD |
| 7290738 | CSNL119 GEN TECH #7 IOSW CHARTS | OD |
| 7290739 | CSNL159 2200VS MAINFRAME #21 | OD |
| 7290740 | MRG4A MODEL 2200VS SYSTEM REPAIR | OD |
| 7290741 | PSN-1 ECN 12956/13280 - 7107 CP2 BD | OD |
| 7290742 | PSN-2 ECN 12956/13280 - 7107 CP2 BD | OD |
| 7290744 | CSNL32 GEN IOP #2 ECN 7659 | RP |
| 7290745 | CSNL33 GEN IOP #3 ECN 7976 | RP |
| 7290746 | CSNL42 GEN IOP #4 ECN 8092 | RP |
| 7290747 | CSNL96 GEN IOP #5 ECN 9482 | RP |
| 7290748 | CSNL4A 22V02 #1A CATEGORY INFO | RQ |
| 7290749 | CSNL5 22V03/4 #1 CATEGORY INFO | RQ |
| 7290750 | CSNL27 22V02 IOP/DA #2 ECN 8379 | RQ |
| 7290751 | CSNL30 22V02 IOP/DA #3 ECN 8543 | RQ |
| 7290752 | CSNL43 22V03/4 IOP/DA #2 ECN 8030 | RQ |
| 7290753 | CSNL44 22V03/4 IOP/DA #3 ECN 8066 | RQ |
| 7290754 | CSNL57 22V03/4 IOP/DA #4 ECN 7854 | RQ |
| 7290755 | CSNL58 22V03/4 IOP/DA #5 ECN 8694 | RQ |
| 7290756 | CSNL70 22V02 IOP/DA #4 ECN 8846 | QR |
| 7290757 | CSNL71 22V02 IOP/DA #5 ECN 9154 | RQ |
| 7290758 | CSNL93 22V03/04 IOP/DA #6 ECNS | RQ |
| 7290759 | CSNL95 22V02 IOP/DA #6 ECN 9585 | RQ |
| 7290760 | CSNL116 22V08 #1 CATEGORY INFO | RQ |
| 7290761 | CSNL127 22V08 IOP/DA #2 ECN 10236 | RQ |
| 7290762 | CSNL134 22V02 IOP #7 ECN # 11515 | RQ |
| 7290763 | CSNL135 22V02 #8 ECN #11516/12208 | RQ |
| 7290764 | CSNL3A 22V01 #1A CATEGORY INFO | RR |
| 7290765 | CSNL38 22V01 IOP/DA #2 ECN 7516 | RR |
| 7290766 | CSNL73 22V01 IOP/DA #3 ECN 8300A | RR |
| 7290767 | CSNL115 22V07 #1 CATEGORY INFO | RR |
| 7290768 | CSNL118 22V07 #2 ECN - 7216 BD | RR |
| 7290769 | CSNL132 22V07 #3 IOP INSTALLATION | RR |
| 7290770 | CSNL145 22V07 IOP #4 ECN 11107 | RR |
| 7290771 | CSNL146 22V07 IOP #5 ECN 11233 | RR |
| 7290772 | CSNL158 22V01 IOP #4 ECN 10025 | RR |
| 7290773 | CSNL170 22V07 IOP #6 EC 12117/12959 | RR |
| 7290774 | CSNL6A 22V05 #1A CATEGORY INFO | RS |
| 7290775 | CSNL61 22V05 IOP/DA #2 ECN 8182 | RS |

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| PART NO. | DESCRIPTION | VEN CODE |
|----------|--------------------------------------|----------|
| 7290776 | CSNL151 22V05 IOP #3 ECN 11994 | RS |
| 7290777 | CSNL152 22V05 IOP #4 ECN 12218 | RS |
| 7290778 | PSN-1 7217 DA ECN 12376, E-REV 4 | RS |
| 7290779 | VS 22V06 TC PRELIM MNL (03-0101) | RT |
| 7290780 | CSNL13A 22V06 IOP DA #1A CATEGORIES | RT |
| 7290781 | CSNL128 22V06 IOP #2 - ECNS | RT |
| 7290782 | CSNL129 22V06 IOP #3 - ECN 10998 | RT |
| 7290783 | CSNL136 22V06 IOFS #4 ECNS | RT |
| 7290784 | CSNL137 22V06 TC IOFS #5 ECN 12330 | RT |
| 7290785 | PSN-1 7426 IOP MOTHERBD ECN 13403 | RT |
| 7290786 | PSN-2 7426 IOP MOTHERBD ECN 14158 | RT |
| 7290787 | CSNL108 POWER UP/DOWN & VTOC PRGB | SE |
| 7290788 | CSNL153 LISTVTOC ERROR MESSAGE | SE |
| 7290789 | CSNL171 SOFTWR #14 ALL SERIAL SYS | SE |
| 7290790 | PSN-1 2246C/2246S W/S OPR SYS REQ | SE |
| 7290791 | CSNL15A SOFTWR & DIAGN #1A CATEGCRY | SG |
| 7290792 | CSNL16 SOFTWR & DIAGN #2 2343/2345 | SG |
| 7290793 | CSNL48 SOFTWR & DIAGN #3 PRTEST | SG |
| 7290794 | CSNL50 SOFTWR & DIAGN #4 SYSGEN 2.1 | SG |
| 7290795 | CSNL55 SOFTWR #5 CONT MODE DUMP | SG |
| 7290796 | CSNL56 SOFTWR & DIAGN #6 DKTEST | SG |
| 7290797 | CSNL63 SOFTWR & DIAGN #7 SYSGEN PROC | SG |
| 7290798 | CSNL66 SOFTWR & DIAGN #8 TPTEST | SG |
| 7290799 | CSNL72 SOFTWR & DIAGN #9 BACKUP | SG |
| 7290800 | CSNL77 SOFTWR #10 FTU SIMULATOR | SG |
| 7290801 | CSNL103 SOFTWR & DIAGN #11 TCTEST | SG |
| 7290802 | CSNL149 SOFTWR #12 TPTEST PROB | SG |
| 7290803 | PSN-1 NEW CP INSTRUCTION SET DIAG | SG |
| 7290805 | MANDATORY UPDATE BULLETIN RELEASE 1 | BC |
| 7290806 | MANDATORY UPDATE BULLETIN RELEASE 2 | BC |
| 7290807 | MANDATORY UPDATE BULLETIN RELEASE 3 | BC |
| 7290808 | MANDATORY UPDATE BULLETIN RELEASE 4 | BC |
| 7290809 | MANDATORY UPDATE BULLETIN RELEASE 5 | BC |
| 7290810 | MANDATORY UPDATE BULLETIN RELEASE 6 | BC |
| 7290811 | MANDATORY UPDATE BULLETIN RELEASE 7 | BC |
| 7290812 | MANDATORY UPDATE BULLETIN RELEASE 8 | BC |
| 7290813 | PSN-1 MOD 2236MXD MUX/CONTROLLER | OQ |
| 7290814 | PSN-2 MOD 22C32 TRIPLE CONTROLLER | OQ |
| 7290815 | PSN-2 MOD LVP/SVP CPU PVNT MAINT | AE |
| 7290816 | PSN-1 MVP OPERATING SYS RELEASE 1.9 | PG |
| 7290817 | PSN-3 SETTING DEVICE ADDRESS SW | OQ |
| 7290818 | PSN-2 AMPHENOL CONNECTOR INSTL | BC |
| 7290819 | PSN-4 2200LVP I/O CONTROLLER PNS | OQ |
| 7290820 | MPG2C 7180/7279 REPAIR | EZ |
| 7290821 | 2200VS PRESALE GUIDELINES (PRELIM) | AH |
| 7290822 | VS CENTRAL PROCESSOR PRELIM HOW MNL | RD |
| 7290823 | VS HARD/FLOPPY DISK DA PRELIM MNL | RQ |
| 7290824 | VS INPUT/OUTPUT PROCESSOR MANUAL | RP |

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| PART NO. | DESCRIPTION | VEN CODE |
|----------|-------------------------------------|----------|
| 7290825 | 2200VS IOP TESTER PRELIM MANUAL | EC |
| 7290826 | VS PARALLEL WORKSTATION IOP MANUAL | RR |
| 7290827 | CHAINTRAIN PTR TROUBLESHOOTING EXER | HN |
| 7290828 | MOD 72 PLOTTING OUTPUT WRITER MNL | HU |
| 7290829 | MOD 612/712/2212 X-Y RECORDER MNL | HV |
| 7290830 | TELECOMMUNICATIONS HANDBOOK | BC |
| 7290831 | MOD 928 PRELIM VOL 2 (03-0034-P1) | PS |
| 7290832 | MRG12.8 STANDALONE SMALL DISK TESTS | EC |
| 7290833 | MRG12.9 STANDALONE LARGE DISK TESTS | EC |
| 7290834 | SM159 GEN #31 CORRECTIONS TO TPM | BC |
| 7290835 | CSNL107 22V03/04 #7 ECN 9935 | RQ |
| 7290836 | STDS FOR IC SYMBOLS (REV 5 ONLY) | BC |
| 7290837 | OIS 140 POWER-UP DIAGN MNL REV 2.0 | QQ |
| 7290838 | MOD 429 PWR SPLY PARTS CAT (81609A) | FB |
| 7290839 | PCS-111 MAINTENANCE MANUAL | OE |
| 7290840 | TECH PROCEDURES MANUAL (JANUARY 79) | BC |
| 7290841 | STDS FOR IC SYMBOLS (INCL REV 5) | BC |
| 7290842 | PSN-1 22V07 IOP ECN 1432 - 7216 BD | RR |
| 7290843 | PSN-2 DRIVE CVRSN & JUMPER LOCATION | RR |
| 7290844 | PSN-4 EDITING OIS/OCR DISKETTE | QR |
| 7290845 | PSN-5 BI-DIR FORMS TRACTOR ACCESS | HS |
| 7299001 | RIL LISTINGS | ZB |
| 7299002 | UNSUPPORTED PART NO. | ZB |
| 7299003 | RSL LISTING | AG |
| 7299004 | REPAIR TAGS | ZA |
| 7299005 | TAG RET MAT'L CREDIT | ZA |
| 7299006 | REQUESTS & JUSTIFI F/CAP EQUIP CONS | ZA |
| 7299009 | C.E. MATERIAL TRANSFER (SNAP OUT) | ZA |
| 7299012 | CALL REPORT | ZA |
| 7299013 | MAINT. CONTRACT AMEND. | ZA |
| 7299015 | C.E. COST CONTROL TAG | ZA |
| 7299016 | C.E. COST CONTROL TAG (CANADA) | ZA |
| 7299017 | CE MAINT CONTR & PRICE LIST CANADA | AE |
| 7299018 | C.E. MAINT. CONTRACT & PRICE LIST | AE |
| 7299023 | C.E. REP COST CATALOG | ZB |
| 7299024 | C.E. SUBSIDIARY COST CATALOG | ZB |
| 7299025 | SERIES 100 CALCULATORS INFO PACKAGE | YZ |
| 7299026 | 200/300 SER SVCE MNL (03-00011-0) | YZ |
| 7299027 | SERIES 300 DRAWINGS (03-0007-0) | YZ |
| 7299028 | SERIES 400 CALCULATORS INFO PACKAGE | YZ |
| 7299029 | MODEL 500/520/600 CALC INFO PACKAGE | YZ |
| 7299030 | 700 SERIES CALCULATORS INFO PACKAGE | YZ |
| 7299031 | SB4 MODEL 706/707 I/O SYSTEM | YZ |
| 7299032 | SB8 705 MICRO-FACE | YZ |
| 7299033 | SE10 MARK SENSE CARD READER | YZ |
| 7299034 | SE16 708-1 EXTENDED MEM CONTRLLER | YZ |
| 7299035 | SE23.1 MOD -09/-29 TAPE CASSETTE | YZ |
| 7299036 | SE29 618/718 EXTERNAL MOS MEMORY | YZ |

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|----------|-------------------------------------|----------|
| 7299037 | SE32 622/722 ALPHANUMERIC KEYBOARD | YZ |
| 7299038 | SE35 600 SERIES USER ROMS | YZ |
| 7299039 | SE35.2 600 USER ROM DIAGN TEST | YZ |
| 7299040 | SB38 MODEL -23 BUFFER UNIT | YZ |
| 7299041 | SB39 MODEL -24 MULTIPLEXER | YZ |
| 7299042 | SB41 MODEL 627/727 TELECOM SYSTEM | YZ |
| 7299043 | TPM BINDERS (BLUE, 2 INCH) | YZ |
| 7299044 | SELF STUDY NUMBER SYSTEMS (03-0040) | YZ |
| 7299045 | SELF STUDY DISK DRIVES (03-0044) | YZ |
| 7299046 | CDC HAWK TRAINING GUIDE (03-0059) | YZ |
| 7299047 | TELECOM SELF STUDY WORKBK (03-0078) | YZ |
| 7299048 | SELF STUDY PHOENIX DRIVE (03-0086) | YZ |
| 7299049 | PRODUCT SERVICE NOTICE BLANK FORM | ZA |
| 7299050 | 611/711 PRODUCT SERVICE MANUAL | YZ |
| 7299051 | PROD SERVICE TELEPROCESSING GUIDE | YZ |
| 7299052 | 1222 MAINTENANCE MANUAL | YZ |
| 7299053 | DOC. CHART MAILING TUBE | ZB |
| 7299055 | CALL REPORT (OLD) | ZA |
| 7299057 | C.E. FIELD PRICE CATALOG | AA |
| 7299061 | SITE CHECK LIST | ZA |
| 7299062 | CUSTOMER CONTACT REPORT | ZA |
| 7299063 | NATIONAL ACCOUNT ACCEPTANCE OF SYS | ZA |
| 7299064 | 2" BINDERS WITH WANG LOGO | ZB |
| 7299065 | 1" BINDERS WITH WANG LOGO | ZB |
| 7299067 | FORM T.A.C. WORKSHEET | ZA |
| 7299068 | FORM C.E. EXPENS REPORT | ZA |
| 7299069 | FORM C.E. PART ASSIGNMENT | ZA |

TECHNICAL DOCUMENTATION COMPLETION LIST

1/1/81 - 5/8/81

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|----------------|-------------|---------------------------------------|-------------|--------------|-------------|----------|--------|
| 729-0073 | II.C.1 | CDC FTU TB304/216 Mnl (03-0084-1) | 56 | 2 | | | |
| 729-0372A | III.C.6-M1 | Wang Daisy Prtrs 4lw/wc, 8lw/wc | 194 | 3 | | | |
| 729-0852 | III.C.1-3 | PSN-3 Data Prtr Static Immunity | 6 | 2 | | | |
| 729-0853 | III.C.1-4 | PSN-4 Ser/Par Intfc Prtr Opt | 6 | 2 | | | |
| 729-0854 | III.C.3-2 | PSN-2 Ser/Par Intfc Prtr Opt | 6 | 2 | | | |
| 729-0855 | III.C.4-1 | PSN-1 Ser/Par Intfc Prtr Opt | 6 | 2 | | | |
| 729-0856 | III.C.1-1 | Repl Char Slug D-Prtr | 12 | 1 | | | |
| 729-0857 | III.C.1-2 | Corr Prom VFU Chan Select Chaintrain | 1 | 1 | | | |
| 729-0858 | IV.B.2-M | 2228D TC Controller Mnl | 137 | 2 | | | |
| 729-0859 | III.C.17-M0 | M0 2235/5535 Matrix Prtr PMM | 154 | | | | |
| *729-0860 | IV.C.3-1 | Interact Repl Async On-Line Diag | 5 | 2 | | | |
| *729-0860 | IV.A.3-1 | Chngs/Add to Mod 2200/LVP PMM | 5 | 2 | | | |
| *729-0861 | I.C.1-0 | Mailway Elect Mail/Msg Sys Install | 9 | 2 | | | 5/8 |
| *729-0861 | | See 729-0917 | | | | | |
| *729-0862 | III.A.11-M | SA850/851 Ser Mnl | 95 | 11 | | | |
| *729-0862 | | See 729-0915 | | | | | |
| *729-0863 | V.A.4-M1 | Wangwriter Maint Mnl | 290 | 4 | | | |
| *729-0863 | | See 729-0935 | | | | | |
| 729-0864 | I.B.0-3 | PSN-3 Crimp-On Conn Attach Conn | 14 | 2 | | | |
| 729-0864-1 | I.B.0-4 | PSN-4 Seq No + Part No Change | 1 | 4 | | | |
| 729-0865 | III.D.4-M0 | Archiving WS | | | | | |
| 729-0866 | III.C.6-6 | PSN-6 Def Daisy Prt Wheels Check | 6 | 2 | | | |
| 729-0869 | III.C.6-8 | Erroneous Print Problems | 7 | 2 | | | |
| 729-0870 | VI.C.4-1 | Tele IBM 3270 Emulation | 1 | 2 | | | |
| 729-0871 | VI.A.2-M0 | VS-100 PMM | 236 | 3 | | | |
| 729-0872 | VI.A.2-M | VS-100 Sch Mnl | 78 | 2 | | | |
| 729-0873 | III.H.7-M1 | Envelope Feeder PMM | 91 | 2 | | | |
| 729-0874 | III.C.16-2 | PSN-2 Lens Tur P-Typeset | 1 | 2 | | | |
| +729-0875 | III.C.6-9 | Replaced by 729-0916 | 8 | 2 | | | |
| 729-0876 | III.A.8-2 | PSN-2 Blower Brkt/Clamp Assy | 3 | 3 | | | |
| 729-0877 | III.C.10-3 | PSN-3 DP Band Prtr Par/Ser Con Kit | 1 | 2 | | | 5/6 |
| 729-0878 | III.A.8-1 | PSN-1 Carriage Bearings Clean Caution | 2 | 2 | | | |
| 729-0882 | VI.A.1-3 | PSN-3 VS-50 Computer Re Config | 2 | 2 | | | |
| 729-0883 | VI.B.1-1 | PSN-1 22V18 Disk IOP VS-50 Compu | 2 | 2 | | | |
| 729-0885 | V.A.5-M1 | OIS 125A/130A | 244 | 5 | | | |
| 729-0888 | III.A.8-3 | PSN-3 Repl Brake 75MB SMD | 5 | 3 | | | |
| 729-0889 | III.A.7-1 | PSN-1 Phoenix Silencing Procedure | 4 | | | | 5/8 |

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|----------------|-------------|--|-------------|--------------|----------------|----------|--------|
| 729-0893 | III.C.4-2 | PSN-2 Matrix Ptrr HD Shld Install | 4 | 4 | | | |
| 729-0905 | III.D.5-M1 | ERGO 2 Two Bd WS | 83 | | 4/21 | | |
| 729-0910 | III.C.6-11 | New Fabric Ribbon & Spike Divr | 6 | 3 | | | |
| 729-0915 | III.A.12-1 | 2200 LVP/SVP Apps Ckt Bd Jmpr Config | 1 | 2 | | | |
| 729-0916 | III.H.7-1 | 2200 Tw Sht Feeder | 8 | 4 | | | |
| 729-0917 | III.A.11-3 | PSN-3 2200LVP/SVP/VS AWS Apps PN/Jmprs | 4 | 2 | | | |
| 729-0918-1 | IV.A.3-2 | Corr to Statment D in PSN IV.A.3-1 | 1 | 4 | | | |
| 729-0925 | III.A.6-1 | PSN-1 Reprints of CDC CMD MnIs | 1 | 4 | | | |
| 729-0932 | VI.B.2-1 | PSN-1 | 7 | 5 | | | |
| 729-0933 | III.C.16-2 | PSN-2 PIO Jmpr Intfc Bd 210-7527 | 1 | 4 | | | |
| 729-0935 | IV.A.3.MA-0 | 2200SVP PMM | 144 | 2 | | | |
| 729-0936 | IV.A.3-3 | PSN-3 210-7890 Sw Setting | 1 | | | | |
| 729-0941 | VI.B.0-1 | PSN-1 | 6 | 5 | | | |
| 729-0942 | III.A.6-2 | PSN-2 New PS (CDC Hawk) | 2 | | 4/17 | | |
| 729-0944 | V.C.1-3 | PSN-3 Software Rel Status Wang WP Prod | 60 | | 5/6 | | |

*Error in Reorder No. Assignments. Being corrected by Tech. Doc. & CEIS Groups. Results to be transmitted by 5/29/81 to the field.
 +Error in Class Code.

o Field Implementation (Continued)

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"STARTER" DOCUMENTATION SET

| DOCUMENT NAME | PART # | TYPE | CLASS | SHB # | TITLE |
|-----------------------|-------------|----------|-------|--------|-----------------|
| 1. Phoenix Disk BK4 | 0163-A | PERIPH | 3105 | 1094-2 | Disk Drive SHB |
| 2. Phoenix Disk BK3 | 0198-A | PERIPH | 3105 | " | " |
| 3. 75/288 BK4 & BK5 | 0209-A | PERIPH | 3106 | 1094-1 | " |
| 4. 75/288 BK4 & BK5 | 0210-A | PERIPH | 3106 | " | " |
| 5. 75/288 MB Disk | 0211-A | PERIPH | 3106 | " | " |
| 6. 75/288 BK6 & BK7 | 0221-A | PERIPH | 3106 | " | " |
| 7. 75/288 BK6 & BK7 | 0222-A | PERIPH | 3106 | " | " |
| 8. Hawk Disk Drive | 0181 | PERIPH | 3104 | " | " |
| 9. CDC Cart. Disk | 0884-A | PERIPH | 3104 | " | " |
| ----- | | | | | |
| 1. 72 Matrix Ptr. | 0318-A | PERIPH | 3302 | " | " |
| 2. 61-63 Matrix Ptr. | 0339-A | PERIPH | 3302 | 1095-B | Printer SHB |
| 3. 2233-5535 Ptr. | 0859-B | PERIPH | 3302 | " | " |
| 4. 300 LPM Band Ptr. | 0432 | PERIPH | 3308 | " | " |
| 5. 600 LPM Band Ptr | 0433 | PERIPH | 3308 | " | " |
| 6. B300 Logic Vol.1 | 0434 | PERIPH | 3308 | " | " |
| 7. B300 Logic Vol.2 | 0434-1 | PERIPH | 3308 | " | " |
| 8. Band Ptr. Notes | 0438-A | PERIPH | 3308 | " | " |
| 9. Wang Daisy | 0372-B & -1 | PERIPH | 3305 | " | " |
| 10. Twin Head IPB | 0374-A | PERIPH | 3305 | " | " |
| 11. Envelope Feeder | 0873-A | PERIPH | 3605 | " | " |
| 12. Twin Sheet Feeder | 0549 | PERIPH | 3605 | " | " |
| 13. 44/48 Typesetter | 0465 | PERIPH | 3314 | " | " |
| 14. 44/48 Addendum | 0465-1 | PERIPH | 3314 | " | " |
| 15. LPS-12 Install | 1104-A | PERIPH | 3318 | " | " |
| 16. LPS-12 Parts | 1105-B | PERIPH | 3318 | " | " |
| 17. LPS-12 (A.Q.R.) | 1106 | PERIPH | 3318 | " | " |
| 18. LPS-12 Func Doc | 1107-B | PERIPH | 3318 | " | " |
| 19. LPS-12 Interface | 1155 | PERIPH | 3318 | " | " |
| 20. LPS-12 Electro | 1157 | PERIPH | 3318 | " | " |
| ----- | | | | | |
| 1. 2236 Term. SB | 0482-A | PERIPH | 3401 | 1100 | Workstation SHB |
| 2. 2236 Term. Adden. | 0482-1 | PERIPH | 3401 | " | " |
| 3. 2236DW Term. | 0903-A | PERIPH | 3401 | " | " |
| 4. 2336DW Term. | 1087 | PERIPH | 3401 | " | " |
| 5. 2200DE/DW ERGO 2 | 1025 | PERIPH | 3404 | " | " |
| 6. 5536 WS | 0522 | PERIPH | 3402 | 1100-1 | Workstation SHB |
| 7. Archive WS | 0865 | PERIPH | 3404 | " | " |
| 8. 2246R Remote WS | 0506 | PERIPH | 3403 | " | " |
| ----- | | | | | |
| 1. 2200 | 0550 | 2200 SYS | 4101 | 1097 | 2200 SYS SHB |
| 2. 2200 CPU FLMG | 0551 | 2200 SYS | 4101 | " | " |
| 3. 2200 VP Vol.1 | 0583 | 2200 SYS | 4103 | " | " |
| 4. 2200 VP Vol.2 | 0583-1 | 2200 SYS | 4103 | " | " |
| 5. 2200 MVP | 0584 | 2200 SYS | 4103 | " | " |
| 6. 2200 SVP | 0935 | 2200 SYS | 4103 | " | " |
| 7. 2200 LVP | 0602 | 2200 SYS | 4103 | " | " |
| ----- | | | | | |

o Field Implementation (Continued)

"STARTER" DOCUMENTATION SET (Continued)

| DOCUMENT NAME | PART # | TYPE | CLASS | SHB # | TITLE |
|---------------------|--------|---------|-------|--------|------------|
| 1. OIS-140 | 0664-A | OIS SYS | 5103 | 1096-A | WP/OIS SHB |
| 2. OIS 105/115/125A | 0886-A | | 5105 | " | " |
| 3. Wangwriter | 0863-B | | 5104 | " | " |
| 4. 928 Prelim Vol.2 | 0831 | | 5102 | " | " |
| 5. 928 FLMG | 0653 | | 5102 | " | " |
| 6. WP 10/20/30 | 0652 | | 5102 | " | " |
| ----- | | | | | |
| 1. VS-100 | 0871 | VS SYS | 6102 | 1098 | VS SYS SHB |

KIT NAME

NUMBER OF KITS

BOARDS IN KIT

VS-100
KIT 1

1

210-7911
210-7600-A
210-7601-A
210-7602-A
210-7604-A
210-7605-A

2265-1/2
KIT 2
KIT 3

2

726-5500 35 boards
726-5501
726-5502
726-5503
726-5504
726-5505
726-5506
726-5507
726-5508
726-5509
726-5510
726-5511
726-5512
726-5513
726-5514
726-5515
726-5516
726-5517
726-5518
726-5519
726-5520
726-5521
726-5522
726-5523
726-5524
726-5525
726-5526
726-5527
726-5528
726-5529
726-5530
726-5531
726-5532
726-5533
726-5535

Phoenix
KIT 4
KIT 5

2

726-6724* 19 Boards
726-5784*
726-5785*
726-5786*
726-5778*
726-5779*
726-5782*
726-5783*
726-5780*
726-6723
726-5792*
726-5787*
210-L567*
210-7421-A
210-7422*
210-7423-A*
210-7424*
210-7415*
210-6541-2*

VS-80
KIT 6

1

210-7209 6 Boards
210-7300
210-7301-A
210-7401-3A
210-7413
212-3000

Hawk
KIT 7

1

726-5613 9 Boards
726-5745 (726-5614)
726-5795 (726-5612)
726-5616
726-5617
726-5618
726-5622
726-5693
726-5694

5521W/2221W
KIT 8

1

210-7028-A 7 Boards
210-6577
210-7076
270-0261
210-7079
210-6727-D
210-7076-2

Band Printer
KIT 9

1

726-1101 7 Boards
726-1219
726-1105
726-1106
726-1107
726-1108
726-1205

MVP/LVP
KIT 10

1

210-6797 20 Boards
210-7397
210-6793
210-6793-1
210-6792
210-6791
210-6790*
210-6789-A
210-6788-A
210-6788-1A
210-7588-1A
210-6787-A
210-7587-1A
210-7587-1B
210-7587-3A
210-7587-3B
177-3236-1
210-7796
210-7797
210-6787-1A

2200S,T

210-L567

REGULATOR

210-6311

210-6710A

210-6709

210-6708D

210-6717

8K MEMORY

210-6717-1

16K MEMORY

210-6735A or 210-7025A or 210-7125A S ROM

210-6735D or 210-7025D or 210-7125D T ROM

210-7025E or 210-7125E

T ROM w/ 80x24 OPTION

212-2216 ?

CRT CONTROLLER

210-7042

KYBRD/PRTN/DISK CONTROLLER

2200A, B, C
REGULATOR

210-L567

210-6311

210-6310

210-6308

210-6308A

210-6307 or 210-6707 4K MEM

210-6307-1 or 210-6707-1 8K MEM

210-6325D1 A2 ROM

210-6361D1 A ROM

210-6527-1A or 210-6547-1A A PATCH

210-6325D2 B1 ROM

210-65473B or 210-65473E B SUPERPATCH

210-6325D3 or 210-6325C2 BX2 ROM or CX1 ROM

210-6361D2 B & C ROM

210-6325C1 C1 ROM

210-65475E or 210-65475E C SUPERPATCH

212-2216 ? CRT CONTROLLER

2200VP, MVP

210-6797 REGULATOR
210-7397 REGULATOR
210-6793
210-6793-1
210-6792
210-6791
210-6790
210-6789
2) 210-6788
210-6788-1
210-7588-1
210-6787 16K MEMORY
210-6787-1 32K MEMORY
210-75871A ~~OR~~ ^{AND} 210-75871B 64K ~~OR~~ ^{AND} 32K MEMORY
210-75873A ~~OR~~ ^{AND} 210-75873B 128K ~~OR~~ ^{AND} 96K MEMORY
177-32361 MUX D CONTROLLER
210-7796 EXT. MEM. CONTROLLER
210-7797 EXT. INSTRUCTION COUNTER
210-8794 or 210-8694 }
210-7925 } DPU BOARDS
210-8696 }

2200 E, F, PCS II

| | | | |
|--------------------------|--------|-----------------------|-----|
| 210-7057 | E | REGULATOR | |
| 210-7067-0 or 210-7156-0 | F | REGULATOR | |
| 210-7067-2 or 210-7156-2 | PCS II | REGULATOR | |
| 210-7051 | | CPU BOARD | |
| 210-7052A | | 8K MEMORY | |
| 210-7052B | | 16K MEMORY | |
| 210-7052-1A | | 24K MEMORY | |
| 210-7052-1B | | 32K MEMORY | |
| 210-7053 | E | TAPE DRIVE CONTROLLER | |
| 210-7180 | PCS II | DISK CONTROLLER | |
| 210-7058 | E | I/O BOARD | |
| 210-7054 | F | 16x64 I/O BOARD | O/S |
| 210-7059 | F | 24x80 I/O BOARD | O/S |
| 210-7159 | | I/O BOARD FOR PCS II | |
| 210-7054-2 | F | 16x64 I/O BOARD | N/S |
| 210-7059-2 | F | 24x80 I/O BOARD | N/S |

2260B,C

726-5215 DATA TRANSFER
726-0440 or 726-5343 LOGIC (12141 + 12066) OR LOGIC (12177)
726-0431 or 726-5254 or 726-5342 ADDR. LOGIC (12101) OR (12152) OR (12135)
726-0441 or 726-0432 SERVO (12064) OR (12099)
726-0443 HEAT SINK
210-341 REGULATOR
210-6295
210-6296
210-6297-3
210-6298-1F 10 MEG. PROM. BOARD
210-6398-1 10 MEG. HZ. OSCILLATOR
212-2260C 10 MEG. C DISK CONTROLLER
210-6541 or 210-6541-1 DISK CONTROLLER

2260A

| | |
|------------------------|------------------------|
| 126-0471 | AL1 |
| 126-0472 | AL2 |
| 126-0473 | SO |
| 126-0454 | SR |
| 126-0492 | SL |
| 126-0482 | TC |
| 126-0495 | OR 11414 |
| 126-0497 | OR 11873 |
| 126-0464 | SD |
| 126-0465 | OLD STYLE HEAT SINK |
| 126-0483 | NEW STYLE HEAT SINK |
| 126-0476 | R/W |
| 126-0461 | SC |
| 126-0463 | RDR1 |
| 126-0470 | RDR2 |
| 126-0481 | D/CS |
| 10-341 | REGULATOR |
| 210-6295 | |
| 210-6296 | |
| 210-6297-3 | |
| 210-6298-1F | 10 MEG PROM BOARD |
| 210-6398-1 | 10 MEG. HZ. OSCILLATOR |
| 210-6541 or 210-6541-1 | DISK CONTROLLER |

2230A

| | |
|------------------------|---------------------|
| 726-0451 | AL1 |
| 726-0452 | AL2 |
| 726-0466 | SO |
| 726-0454 | SR |
| 726-0491 | SL |
| 726-0455 | OR 11414 |
| 726-0493 | OR 11873 |
| 726-0464 | SD |
| 726-0465 | OLD STYLE HEAT SINK |
| 726-0483 | NEW STYLE HEAT SINK |
| 726-0463 | R/W |
| 726-0461 | SC |
| 726-0468 | RDR1 |
| 726-0469 | RDRZ |
| 726-0467 | D/CS |
| 210-341 | REGULATOR |
| 210-6295 | |
| 210-6296 | |
| 210-6297-1 | |
| 210-62981C | 5 MEG PROM BOARD |
| 210-6398 | 6.25 HZ OSCILLATOR |
| 210-6541 or 210-6541-1 | DISK CONTROLLER |

PHOENIX 2280

726-5778

726-5779

726-5780

726-5782

726-5783

726-5784

726-5792

726-5785

726-6723

726-5786

726-6724

726-6724A

726-5787

726-8017

210-L567

210-7415

210-7421

210-7422

210-7423

210-7424

210-6541-2

I/O BOARD

CNTRL MUX

SERVO COARSE

SERVO FINE

READ/WRITE

R/W PREAMP

SERVO PREAMP

POWER AMP

BLOCK PT. 4 POWER AMP

RELAY BRD.

BLOCK PT 4 RELAY BRD. 7768 0650

BLOCK PT 4 RELAY BRD. 7771 3900

CONTROL PANEL

TERMINATOR

DPU REGULATOR

DPU BOARDS

DISK CONTROLLER

NOT COMPATIBLE

O/S

N/S

2231W

210-7060 or 210-7160A

10 PITCH ROM PARALLEL

210-6760 or 210-71601A

12 PITCH ROM PARALLEL

210-6761

210-6756

HEAT SINK

210-7079

PRINTER CONTROLLER

210-7160D

10 PITCH SERIAL

210-7160-1D

12 PITCH SERIAL

2221W/5521W

210-7028A

PROM BOARD FOR PARALLEL

210-6577

PRINT CONTROL BRD.

210-7076

I/O CONTROL BRD FOR PARALLEL

270-0261

HEAT SINK

210-7079

CONTROLLER

210-6727D

PROM BOARD FOR SERIAL

210-7076-2

I/O CONTROL BRD. FOR SERIAL

2263

| | |
|----------------------------------|---------------------------|
| 210-7387 or 726-3292 | I/O BOARD |
| 210-7386 or 726-3201 | PAPERFEED CONTROL |
| 210-7381 or 726-3200 | CHARACTER STORAGE CONTROL |
| 210-7384 or 726-3205 | PRINT CONTROL |
| 210-7385 or 726-3204 | PRINT TIMING GENERATOR |
| 210-7383 or 726-3203 | HAMMER DRIVERS |
| 210-7380 or 726-3202 | PAPER RIBBON |
| 210-7382 or 210-7472 or 726-3206 | SEQUENCER |
| 210-7079 | PRINTER CONTROLLER |

2234/2244 CARD READER

34

- ① 726-2001 SYNC PC
- ② 726-2002 ERROR PC
- ④ 726-2006 CLOCK PC
- ⑥ 726-2003 CONTROL PC

44

- ① 726-2005 CLOCK PC
- ② 726-2029 ERROR PC
- ③ 726-2007 SYNC PC
- ④ 726-2010 PUNCH DATA PC
- ⑤ 726-2030 MARK SENSE DATA PC
- ⑥ 726-2004 CONTROL PC

212-2234A

PUNCH ONLY CONTROLLER

212-2244B

PUNCH/MARK SENSE CONTROLLER

210-7336

PUNCH/MS CONTROLLER FOR MVP

220-0119

CARD READER CABLE

2231W6

210-7332

210-7333

210-7379

HEAT SINK

2261W.

210-7131

210-7132

210-7134

210-7137

210-7136

210-7035

REGULATOR

SOLENOID DRIVER BOARDS

BIN NUMBER

PART NUMBER

105
256
492
493
494
495
521
522
523
575
576
577
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732
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740
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7712
7721
7702
7543
7550
7790
75212

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120-2225-1
120-2225-25
120-2225-50
120-4010
177-0063-1
177-0063-1
177-0064-1

BIN NUMBER

PART NUMBER

| | | |
|-----|----|-------------|
| 354 | 1 | 200-0041 |
| 175 | 1 | 210-6762 |
| 765 | 46 | 220-0007 |
| 767 | 2 | 220-0017 |
| 759 | 23 | 220-0066 |
| 776 | 2 | 220-0066-3 |
| 750 | 4 | 220-0103 |
| 775 | 2 | 220-0105 |
| 760 | 4 | 220-0108 |
| 377 | 3 | 220-0108-2 |
| 753 | 0 | 220-0113 |
| 361 | 1 | 220-0129 |
| 774 | 3 | 220-0129 |
| 398 | 1 | 220-0134 |
| 758 | 5 | 220-0135 |
| 768 | 2 | 220-0138 |
| 756 | 6 | 220-0160 |
| 769 | 1 | 220-0182 |
| 757 | 2 | 220-0188 |
| 106 | 2 | 220-1147 |
| 513 | 2 | 220-1173 |
| 761 | 3 | 220-2236-25 |
| 386 | 9 | 220-3011 |
| 324 | 2 | 220-3023 |
| 325 | 1 | 220-3024 |
| 374 | 1 | 220-3033-4 |
| 346 | 4 | 270-0261 |
| 176 | 2 | 271-1132 |
| 321 | 3 | 279-0181 |
| 107 | 9 | 279-0300 |
| 762 | 2 | 279-5050-21 |
| 329 | 2 | 279-5050-22 |
| 383 | 4 | 279-5060-12 |
| 525 | 31 | 279-5060-14 |
| 388 | 1 | 279-5060-15 |
| 339 | 3 | 279-5060-19 |
| 327 | 1 | 279-5060-27 |
| 331 | 4 | 279-5060-29 |
| 371 | 32 | 279-5060-31 |
| 335 | 4 | 279-5060-32 |
| 180 | 5 | 279-5070-14 |
| 744 | 2 | 279-5070-16 |
| 337 | 0 | 279-5070-17 |
| 763 | 0 | 279-5070-19 |
| 380 | 1 | 279-5070-22 |
| 342 | 2 | 279-5070-23 |
| 343 | 2 | 279-5070-24 |
| 332 | 3 | 279-5070-29 |
| 378 | 2 | 279-5070-32 |
| 333 | 2 | 279-5070-38 |

523 → 279-5050-21 ← 279-5050-18

779 → 279-5060-19 ← 279-5060-16

778 → 279-5060-27 ← 279-5060-18

492 → 279-5070-14 ← 279-5060-80

380 → 279-5070-16 ← 279-5070-12

BIN NUMBER

PART NUMBER

| | |
|-------------------|---------------------|
| 334 | 279-5070-39 |
| 341 ⁸ | 279-5070-45 |
| 743 ² | 279-5070-46 |
| 384 ² | 279-5070-64 |
| 379 ⁵⁸ | 279-5077-12 |
| 764 ¹ | 279-5077-19 |
| 395 ² | 279-5077-23 |
| 396 ¹ | 279-5077-24 |
| 0960 | 279-5077-31 |
| 344 ² | 279-5077-32 |
| 349 ³ | 279-5077-45 |
| 702 | 300-1033 |
| 688 | 300-1390 |
| 689 | 300-1470 |
| 711 | 300-1560 |
| 712 | 300-1607 |
| 691 | 300-1820 |
| 692 | 300-1900 |
| 705 | 300-1903 |
| 693 | 300-1905 |
| 727 | 300-1906 |
| 694 | 300-1910 |
| 695 | 300-1911 |
| 704 | 300-1912 |
| 696 | 300-1916 ← 300-1931 |
| 707 | 732 → 300-2015 |
| 697 | 300-2022 |
| 698 | 300-2110 |
| 699 | 300-2115 |
| 700 | 300-2122 |
| 726 | 300-2168 |
| 709 | 300-2210 |
| 710 | 300-2410 |
| 706 | 300-3006 |
| 708 | 300-3015 |
| 746 | 300-3018 |
| 029 | 300-3019 |
| 150 | 300-3044 |
| 060 | 300-3049 |
| 059 | 300-3075 |
| 747 | 300-3305 |
| 550 | 300-4022 |
| 703 | 300-4039 |
| 701 | 300-5004 |
| 664 | 310-0015 |
| 666 | 310-0016 |
| 665 | 310-0017 |
| 145 | 320-0024 |
| 408 | 320-0044 |
| 027 | 320-0300 |

BIN NUMBER

PART NUMBER

463
134
533
534
535
528
529
530
531
532
662
109
017
108
419
416
417
418
415
552
553
554
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566
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607

321-0011
323-2417
325-0006
325-0007
325-0014
325-2300
325-2303
325-2307
325-2308
325-2309
325-2403
325-2405
325-2407
325-2414
325-2450
325-2451
325-2454
325-2455
325-9051
330-0027
330-1011
330-1027
330-1047
330-1068
330-2010
330-2012
330-2016
330-2018
330-2022
330-2027
330-2033
330-2039
330-2047
330-2056
330-2065
330-2068
330-2082
330-3010
330-3012
330-3015
330-3018
330-3022
330-3028
330-3033
330-3039
330-3047
330-3056
330-3068
330-3082
330-4010

735 → 325-2303 ← 325-2305

494 → 325-2451 ← 325-2452

521 → 325-2455 ← 325-2512

BIN NUMBER

PART NUMBER

| | |
|--------|-------------|
| 608 | 330-4012 |
| 609 | 330-4015 |
| 610 | 330-4018 |
| 611 | 330-4022 |
| 612 | 330-4027 |
| 613 | 330-4033 |
| 614 | 330-4047 |
| 615 | 330-4056 |
| 616 | 330-4068 |
| 617 | 330-4082 |
| 619 | 330-5010 |
| 618 | 330-5012 |
| 620 | 330-5015 |
| 621 | 330-5018 |
| 622 | 330-5027 |
| 623 | 330-5033 |
| 624 | 330-6010 |
| 625 | 330-6018 |
| 632 | 331-0022 |
| 638 | 331-0039 |
| 633 | 331-1033 |
| 639 | 331-1047 |
| 643 | 331-2012 |
| 634 | 331-2022 |
| 635 | 331-2033 |
| 640 | 331-2039 |
| 636 | 331-2047 |
| 637 | 331-6010 |
| 642 | 332-1047 |
| 725 | 332-4010 |
| 641 | 332-4027 |
| 627 | 333-0000 |
| 628 | 333-0001 |
| 629 | 333-0004 |
| 630 | 333-0008 |
| 631 | 333-0012 |
| 626 | 333-0100 |
| 111 | 334-0025 |
| 112 | 334-0027 |
| 644 | 336-0000 |
| 645 | 336-0003 |
| 026 15 | 350-0009 |
| 055 2 | 350-2025 |
| 056 1 | 350-2025-R |
| 057 1 | 350-2026 |
| 058 2 | 350-2027 |
| 113 | 360-0000 |
| 014 | 360-0015 |
| 010 | 360-1003-SB |
| 002 | 360-1005 |

736 → 336-1014
737 → 350-0008

BIN NUMBER

PART NUMBER

| | |
|------|---|
| 006 | 360-1006 |
| 001 | 360-1011-SB |
| 009 | 360-1015 |
| 003 | 360-1020-SB |
| 004 | 360-1025-SB |
| 005 | 360-1031-SB |
| 012 | 360-1040 |
| 011 | 360-1040-SB |
| 007 | 360-1051-SB |
| 008 | 360-1070 |
| 509 | 360-1100-SB |
| 013 | 360-1101 |
| 541 | 360-1155 |
| 114 | 370-0004 KEY BOARD LT. |
| 526 | 734 370-0020 370-0015 |
| 023 | 370-0034 |
| 024 | 370-0039 |
| 519 | 370-1006 |
| 464 | 374-0000 |
| 539 | 374-0001 |
| 499 | 375-0001 |
| 424 | 375-0002 |
| 433 | 375-0007 |
| 118 | 375-0017 |
| 515 | 375-0018 |
| 429 | 375-1000 |
| 479 | 375-1000 |
| 498 | 375-1001 |
| 427 | 375-1003 |
| 430 | 375-1005 |
| 431 | 375-1006 |
| 115- | - 375-1008 |
| 426 | 375-1012 |
| 425 | 375-1017 |
| 119 | 375-1021 |
| 440 | 375-1021 |
| 018 | 375-1022 |
| 110 | - 375-1022 |
| 428- | - 375-1023 |
| 437 | 375-1024 |
| 671 | 375-1027 |
| 436. | 375-1028. |
| 146 | 375-1029 |
| 465 | 375-1030 |
| 097 | 375-1032 |
| 432 | 375-1032 |
| 462 | 375-1034 |
| 121 | 375-1035 |
| 466 | 375-1039 |
| 122 | 375-1043 |

BIN NUMBER

123
124
144
421
420
478
125
126
117
128
690
687
654 8
085 6
65530
252 4
65714
6765
6567
2504
12920
130 8
6774
4605
46138
55137
68031
2137
2140
2153
2162
2172
2180
2198
67812
2203
2243
2253
2363
5431
5441
5451
2215
2224
2232
2265
2274
2286
2297
2304

PART NUMBER

375-1044
375-1045
375-1046
375-1047
375-1048
375-1052
375-1053
375-1054
375-2104
375-3002
375-9014
375-9015
376-0002
376-0004
376-0010
376-0023
376-0041
376-0047
376-0055
376-0063
376-0066
376-0134
376-0179
376-9001
376-9002
376-9010
376-9014
377-0000
377-0010
377-0011
377-0012
377-0013
377-0014
377-0015
377-0016
377-0017
377-0018
377-0019
377-0020
377-0023
377-0024
377-0025
377-0030
377-0031
377-0032
377-0033
377-0034
377-0036
377-0037
377-0038

BIN NUMBERPART NUMBER

| | |
|--------|----------|
| 231/0 | 377-0039 |
| 232/0 | 377-0040 |
| 233/9 | 377-0041 |
| 234/9 | 377-0042 |
| 235/9 | 377-0043 |
| 237/6 | 377-0044 |
| 238/9 | 377-0045 |
| 239/9 | 377-0046 |
| 240/4 | 377-0047 |
| 241/6 | 377-0048 |
| 242/6 | 377-0049 |
| 243/6 | 377-0050 |
| 244/5 | 377-0051 |
| 245/6 | 377-0052 |
| 246/2 | 377-0053 |
| 247/4 | 377-0060 |
| 248/4 | 377-0061 |
| 251/4 | 377-0062 |
| 258/4 | 377-0063 |
| 546/1 | 377-0142 |
| 547/1 | 377-0143 |
| 548/1 | 377-0144 |
| 549/1 | 377-0145 |
| 249/2 | 377-0146 |
| 259/4 | 377-0147 |
| 260/4 | 377-0148 |
| 261/4 | 377-0149 |
| 262/4 | 377-0152 |
| 263/1 | 377-0153 |
| 264/4 | 377-0154 |
| 284/4 | 377-0155 |
| 048/25 | 377-0163 |
| 291/5 | 377-0163 |
| 049/4 | 377-0164 |
| 050/3 | 377-0165 |
| 051/3 | 377-0166 |
| 052/3 | 377-0175 |
| 053/2 | 377-0176 |
| 054/5 | 377-0221 |
| 151/4 | 377-0222 |
| 152/5 | 377-0223 |
| 153/4 | 377-0224 |
| 154/9 | 377-0225 |
| 155/6 | 377-0231 |
| 156/2 | 377-0232 |
| 157/3 | 377-0233 |
| 158/3 | 377-0245 |
| 285/93 | 377-0246 |
| 159/4 | 377-0247 |
| 160/3 | 377-0248 |

BIN NUMBERPART NUMBER

| | |
|-------|-------------|
| 1614 | 377-0249 |
| 1624 | 377-0250 |
| 1633 | 377-0251 |
| 1643 | 377-0252 |
| 1653 | 377-0253 |
| 1662 | 377-0254 |
| 16710 | 377-0256 |
| 1693 | 377-0257 |
| 1703 | 377-0258 |
| 1681 | 377-0259 |
| 1723 | 377-0260 |
| 1734 | 377-0265 |
| 1744 | 377-0266 |
| 2657 | 377-0267 |
| 5422 | 377-0268 |
| 6706 | 377-0284 |
| 6726 | 377-0285 |
| 1715 | 377-0291 |
| 2862 | 377-0292 |
| 2872 | 377-0293 |
| 2662 | 377-0294 |
| 6738 | 377-0295 |
| 6746 | 377-0296 |
| 6754 | 377-0297 |
| 2674 | 377-0298 |
| 2685 | 377-0299 |
| 2693 | 377-0300 |
| 2882 | 377-0301 |
| 2892 | 377-0302 |
| 2704 | 377-0303 |
| 2715 | 377-0304 |
| 2902 | 377-0305 |
| 2723 | 377-0306 |
| 2733 | 377-0307 |
| 6813 | 377-0309 |
| 67910 | 377-0310 |
| 2746 | 377-0312 |
| 66312 | 377-0314-T |
| 4815 | 377-0326 |
| 2755 | 377-0327 |
| 2765 | 377-0328 |
| 2774 | 377-0329 |
| 2786 | 377-0330 |
| 2796 | 377-0331 |
| 2806 | 377-0332 |
| 2816 | 377-0333 |
| 2826 | 377-0334 |
| 2836 | 377-0335 |
| 2921 | 378-0164 |
| 293 | 378-0165-R1 |

BIN NUMBERPART NUMBER

| | |
|------|-------------|
| -294 | 378-0166 |
| ✓295 | 378-0167 |
| ✓296 | 378-0168 |
| ✓297 | 378-0169-R1 |
| ✓298 | 378-0170 |
| ✓031 | 378-0171 |
| ✓032 | 378-0172 |
| ✓033 | 378-0173-R1 |
| ✓034 | 378-0174 |
| ✓647 | 378-0196-R1 |
| ✓299 | 378-0197-R1 |
| ✓300 | 378-0199-R1 |
| ✓682 | 378-0202-R1 |
| ✓683 | 378-0203-R1 |
| ✓684 | 378-0204-R1 |
| ✓685 | 378-0205-R1 |
| ✓301 | 378-0206-R1 |
| ✓686 | 378-0207-R1 |
| ✓044 | 378-0211-R1 |
| ✓045 | 378-0213-R1 |
| ✓302 | 378-0221 |
| ✓303 | 378-0225-R2 |
| ✓035 | 378-0230-R1 |
| ✓036 | 378-0233-R2 |
| ✓046 | 378-0240- |
| ✓304 | 378-0284 |
| ✓305 | 378-0286 |
| ✓047 | 378-0292 |
| ✓037 | 378-0356 |
| ✓038 | 378-0357 |
| ✓039 | 378-0358 |
| ✓040 | 378-0359 |
| ✓041 | 378-0360 |
| ✓042 | 378-0361 |
| ✓646 | 378-0378 |
| ✓043 | 378-0527 |
| ✓651 | 378-0546 |
| ✓652 | 378-0548 |
| ✓653 | 378-0549 |
| ✓648 | 378-0550 |
| ✓649 | 378-0551 |
| ✓650 | 378-0552 |
| 501 | 380-0000 |
| 131- | 380-0104 |
| 438 | 380-1000 |
| 434 | 380-1001 |
| 516 | 380-1004-4B |
| 439 | 380-2033 |
| 441 | 380-2039 |
| 442 | 380-2042 |

BIN NUMBER

PART NUMBER

| | |
|-----------------|---------------------|
| 445 | 380-2047 |
| 444 | 380-2051 |
| 448 | 380-2052 |
| 443 | 380-2056 |
| 447 | 380-2062 |
| 517 | 380-2063 |
| 446 | 380-2068 |
| 451 | 380-2075 |
| 452 | 380-2082 |
| 455 | 380-2082-1 |
| 450 | 380-2091 |
| 453 | 380-2100 |
| 454 | 380-2120 |
| 449 | 380-2121 |
| 435 | 380-2125 |
| 132 | 380-2131 |
| 457 | 380-3000 |
| 133 | 380-3002 |
| 456 | 380-3003 |
| 458 | 380-3004 |
| 459 | 380-4000-R |
| 403 | 380-4003 |
| 7513 | 400-0024 |
| 0258 | 400-0028 |
| 3381 | 400-0030 |
| 3404 | 400-0031 |
| 3523 | 400-0042 |
| 7483 | 400-1001 |
| 7704 | 400-1003 |
| 3949 | 400-1007 |
| 7779 | 400-1010 |
| 7493 | 400-9004 |
| 7736 | 410-0064 |
| 512 | 449-0102 |
| 511 | 449-0126 |
| 336 | 449-0137 |
| 728 | 451-4370 |
| 120 | 451-4511 |
| 508 | 458-0361 |
| 471 | 458-0391 |
| 136 | 461-0111 |
| 137 | 461-0112 |
| 781 | 461-0113 |
| 729 | 461-2015 |
| 476 | 462-0285 |
| 475 | 462-0286 |
| 518 | 465-0010 |
| 422 | 465-0238 |
| 255 | 465-0730 |
| 557 | 465-1055 |

400-0041

522 → 451-4511 ← 451-4547

BIN NUMBER

PART NUMBER

| | |
|-----|-------------|
| 139 | 465-1606 |
| 135 | 465-1620 |
| 404 | 465-1627 |
| 506 | 465-1662 |
| 387 | 465-1663 |
| 028 | 600-3004 |
| 537 | 605-0003 |
| 538 | 605-0007 |
| 496 | 605-0110 |
| 536 | 605-1004 |
| 322 | 615-0375 |
| 323 | 615-0376 |
| 497 | 650-2129 |
| 474 | 650-6601 |
| 730 | 650-9013 |
| 659 | 651-1526 |
| 658 | 651-1529 |
| 510 | 651-1531 |
| 507 | 651-1704 |
| 667 | 653-0031 |
| 505 | 653-0040 |
| 468 | 655-1067 |
| 015 | 656-0207 |
| 016 | 656-0208 |
| 366 | 656-0216 |
| 364 | 656-0219 |
| 362 | 656-0220 |
| 365 | 656-0221 |
| 019 | 656-0223 |
| 363 | 656-0225 |
| 020 | 656-0227 |
| 143 | 656-0232 |
| 178 | 656-0233 |
| 540 | 656-0234 |
| 147 | 660-0076 |
| 148 | 660-0077 |
| 328 | 660-0130 |
| 780 | 725-0054-R2 |
| 351 | 725-0156 |
| 353 | 725-0159 |
| 488 | 725-0304 |
| 350 | 725-0384 |
| 372 | 725-0458 |
| 373 | 725-0459 |
| 021 | 726-0012 |
| 091 | 726-0043 |
| 661 | 726-0046 |
| 347 | 726-0055 |
| 722 | 726-0104 |
| 348 | 726-0181 |

739 → 650-2129 ← 650-4400

739 → 653-0040 ← 653-4000
 655-1067 ← 654-1204 ← Bin No. 741
 (GROMMET 31W)

BIN NUMBER

PART NUMBER

4893
 6691
 0833
 0893
 07523
 0883
 6682
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 08226
 0941
 5021
 3453
 5143
 5000
 5271
 4915
 7313
 06945
 0865
 4724
 4233
 48010
 3301
 0664
 06711
 4014 } 10
 4906 } 10
 3812
 57410
 1045
 4148
 3852
 09911
 10014
 17711
 35911
 3604
 35513
 40711
 09317
 1417 } 27
 48220 } 27
 4875
 72022
 1031
 3763
 3974
 4844
 0953
 4835

726-0184
 726-0189
 726-0190
 726-0193
 726-0199
 726-0275
 726-0276
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 726-0284
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 726-0373
 726-0380
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 726-0406
 726-0415
 726-0415 726-5316
 726-0527
 726-0531
 726-0546
 726-0563
 726-0817
 726-0832
 726-1004
 726-1005
 726-1021
 726-1021
 726-1026
 726-1027
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 726-3235
 726-3236

BIN NUMBERPART NUMBER

| | |
|----------|------------------------------|
| 3675 | 726-3237 |
| 3685 | 726-3238 |
| 1428 | 726-3240 |
| 3701 | 726-3241 |
| 3755 | 726-3242 |
| 3915 | 726-3243 |
| 3895 | 726-3244 |
| 3822 | 726-3245 |
| 3583 4 | 726-3246 |
| 3905 4 | 726-3246 |
| 3576 | 726-3247 |
| 03012 | 726-3248 |
| 2542 | 726-3249 |
| 4112 | 726-3250 |
| 4132 | 726-3253 |
| 1492 | 726-3254 |
| 4121 | 726-3255 |
| 4103 | 726-3256 |
| 3564 | 726-3257 |
| 07826 | 726-3259 |
| 3695 | 726-3259 |
| 1271 | 726-3260 |
| 40620 | 726-3264 |
| 1794 | 726-3265 |
| 3260 | 726-3267 |
| 46981 | 726-3268 |
| 4860 | 726-3270 |
| 4852 | 726-3271 |
| 7421 | 726-3274 |
| 3923 | 726-3287 |
| 3933 | 726-3288 |
| 4706 | 726-3289 |
| 7661 | 726-3290 |
| 7216 | 726-3293 |
| 7181 | 726-3295 |
| 4055 | 726-5003 |
| 1016 210 | 726-5004 |
| 40245 10 | 726-5004 |
| 0683 | 726-5005 |
| 1026 | 726-5010 |
| 4006 | 726-5011 |
| 0746 | 726-5012 |
| 0872 | 726-5050 |
| 50410 | 726-5058 |
| 7451 | 726-5062 |
| 0634 | 726-5064 |
| 0646 | 726-5065 |
| 0764 | 726-5066 |
| 0776 | 726-5070 |
| 1381 | 726-5070 726-5072 |

BIN NUMBER

PART NUMBER

| | |
|-------|---------------------------|
| 0714 | 726-5071 |
| 0921 | 726-5073 |
| 0704 | 726-5076 |
| 07310 | 726-5077 |
| 07912 | 726-5078 |
| 0722 | 726-5079 |
| 4731 | 726-5080 |
| 0653 | 726-5084 |
| 0845 | 726-5085 |
| 0904 | 726-5087 |
| 0612 | 726-5088 |
| 0621 | 726-5089 |
| 08024 | 726-5163 |
| 7162 | 733 → 726-5163 ← 726-5212 |
| 7142 | 726-5562 |
| 7132 | 726-5574 |
| 7171 | 726-5575 |
| 7191 | 726-5687 |
| 4091 | 726-5688 |
| 7152 | 726-6021 |
| 7241 | 726-6123 |
| 2531 | 726-6131 |
| 5031 | 726-6141 |
| 7234 | 726-6165 |
| 1402 | 726-6167 |
| 0811 | 726-8006 |
| 0220 | 726-9001 |
| 52417 | 726-9005 |
| 4772 | 726-9012 |
| 2572 | 726-9021 |
| 0981 | 726-9442 |
| 4671 | 726-9605 |
| 5203 | 726-9617 |
| 3990 | 726-9648 |
| 1161 | 726-9660 |
| 493 | 726-9666 |
| 740 | 726-9690 |
| | 726-9691 |

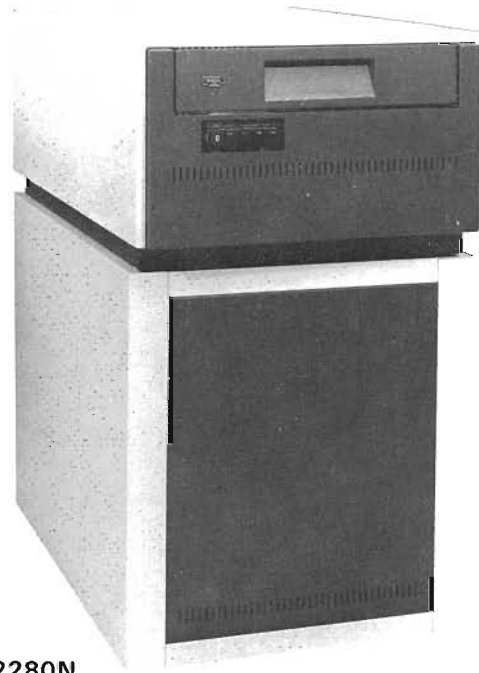
The Model 2260C Fixed/Removable Disk Drive holds one fixed and one removable disk platter. The 2260C is available in four models with different on-line storage capacities: the 2260C-1/4 provides approximately 1.25 Mb of fixed disk storage and 1.25 Mb removable disk storage, the 2260C-1/2 provides 2.5 Mb of fixed disk storage and 2.5 Mb removable disk storage, the 2260C provides 5 Mb of fixed disk storage and 5 Mb removable disk storage, and the 2260C-2 provides 10 Mb of fixed disk storage and 10 Mb removable disk storage. The 2260C-2 consists of two 2260C disk drives daisy chained together, providing four platters (two fixed and two removable). The smaller 2260C disk models can be expanded as processing demands increase.



2260C
Fixed/Removable Disk Drive
 2.5 megabytes (2260C-1/4)
 5. megabytes (2260C-1/2)
 10. megabytes (2260C)
 20. megabytes (2260C-2)

When a 2280 Disk Drive is ordered it comes with a Disk Processing Unit (DPU) capable of controlling up to two 2280 disk drives. After the initial drive is installed, should a second drive be needed, a 2280N can be added. The 2280N is a drive without the DPU. It will be connected to the DPU installed with the initial drive.

The Model 2280 Fixed/Removable Disk Drive is available in three units: Model 2280-1 (26.8 Mb disk storage), 2280-2 (53.6 Mb disk storage), and 2280-3 (80.4 Mb disk storage). Each unit provides a single 13.4 Mb removable platter; the remainder of the storage area is fixed. The 2280-1 and 2280-2 may be upgraded to maximum capacity as processing demands increase.



2280/2280N
Fixed Removable Disk Drive
 26.8 megabytes (2280-1)
 53.6 megabytes (2280-2)
 80.4 megabytes (2280-3)

The Model 2230 MXA-1/MXB-1 disk multiplexer permits up to four 2200 CPUs to share any Wang disk or diskette drive unit, except the 2280 disk drive unit. The disk multiplexer polls all participating systems on an "equal priority" basis until it finds a system attempting to access the disk. Control of the disk drive is given to the calling system to execute a single disk operation. When execution of the disk statement or command is completed, disk control reverts to the multiplexer, which resumes its sequential polling of the systems. A system can also request exclusive use of the disk ("hogging"); when a disk is hogged, polling is not continued until the system releases the disk back to the multiplexer.

The 2280 Disk Multiplexer provides the ability to multiplex a Model 2280 Disk Drive or pair of 2280 disk drives for increased storage capacity. The 2280 Multiplexer is a "star" configuration. In a star configuration, up to three VP, LVP, or MVP CPUs are individually connected directly to the 2280 Disk Processing Unit. This type of configuration provides several benefits. First, optimal access time is provided because each CPU is directly connected to the disk processing unit. Second, increased expansion is possible because the I/O slots in each CPU, which would have been used for additional disk storage, are

now free to support other peripherals. Third, optimal time is also provided since each CPU is independently connected to the disk drive. Fourth, since the 2280 Disk Processing Unit monitors which CPU is requesting disk access and is therefore I/O independent, faster throughput results.

The 2280 MUX multiplexer installs directly into a 2280 Multiplexable Disk Processing Unit (MDPU). Each system to be connected must have a 22C80 disk controller installed in the CPU. The multiplexer controls all communication between CPUs and the disk unit. The multiplexer polls sharing CPUs until it finds one trying to access the disk. That CPU is then allowed to execute a disk command, and polling continues. Multiplexing is transparent to the user and to user software.

It is also possible for one user to have exclusive uninterrupted access to the disk for such operations as MOVE or COPY. This is accomplished via Hog mode. A terminal with the disk in Hog mode can execute any number of disk commands while preventing other users from executing any operation on the hogged drive.

TAPE DRIVES

The 2209A Nine-Track Tape Drive provides the capability to read and record industry-compatible tape. The Model 2209A reads 1600 byte-per-inch (bpi) phase-encoded magnetic tape. It contains a dual-gap read/write head, full-width erase head, tape cleaner, and photoelectric sensors to detect reflective tape markers. It also provides read-after-write verification, automatic correction for single-track errors and detection of multiple-track errors. The 2209A may be used with the 2200T, VP, LVP, and MVP.

CARD READER

The Model 2244B Hopper-Feed Punched/Marked Sense Card Reader provides program and data entry capabilities from punched or marked sense cards to a 2200 VP, LVP, or MVP system. The 2244B can read the following types of cards.

1. Standard 80-column punched cards
2. Standard 80-column cards printed in reflective ink for marking and/or punching
3. Custom cards with fewer than 80 columns
4. BASIC Mark Sense Program Cards which are specially designed for Marking Program text and data

Cards read by the 2244B must conform to ANSI industry standards. The 2244B reads marked or punched cards at a maximum rate of 285 cards per minute.



2209A
Reel-to-Reel Magnetic Tape Drive

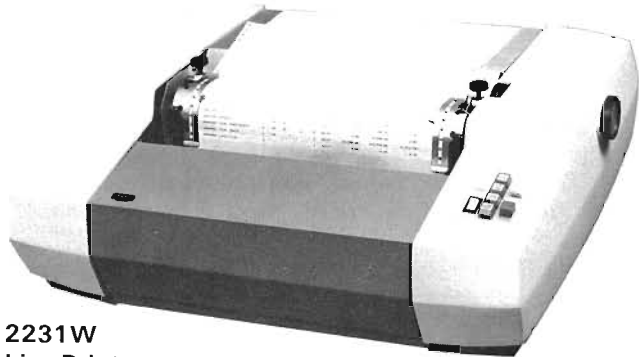
PRINTERS/PLOTTERS

A total of 13 printer models are available for the 2200 product line, ensuring that an appropriate printer can be chosen for virtually any output requirement. All 2200 systems can support one or more printers and/or plotters. The printers range in speed from 30 characters per second (cps) to 600 lines per minute (lpm), and include matrix, chain, wheel impact, band, and page printers. All 2200 printers ensure deselection without loss of text. All but the Models 2281W, 2281WC, and 2263 have a programmable audio alarm. The audio alarm automatically warns the operator when the printer is out of paper. The alarm can be programmed for such purposes as job completion or error conditions. For the image printer and all matrix printers, programmable expanded character size provides highlighted printing.

The Model 2221W Matrix Character Printer prints a full ASCII set of 96 characters at a rate of 200 cps. The 2221W can print up to 132 characters per line using a 7 x 9 dot matrix to form uppercase characters, and a 9 x 9 dot matrix to form lowercase characters. Output varies from 65 to 300 lpm, depending upon line length.

The Models 2231W-1, 2231W-2, 2231W-3 and 2231W-6 Matrix Character Printers print a full ASCII character set of 96 characters. The 2231W-1 prints a 112-character line in 10-pitch; the other models print a

132-character line in 12-pitch. The Model 2231W-6 high quality printer prints a 112-character line in 10-pitch, as well as a 132-character line in 12-pitch. The 2231W-1 produces characters at the rate of 120 cps using a 7 x 9 dot matrix. The Model 2231W-2 utilizes a 7 x 9 dot matrix to produce characters at a rate of 120 cps in 12-pitch. The 2231W-3 is a 10-pitch, 120 cps, 8 x 7 dot matrix printer which, when used with the Model 2282 Graphic CRT, provides a hard copy of the graphic information on the CRT. The Model 2231W-6 utilizes an extremely dense 20 x 12



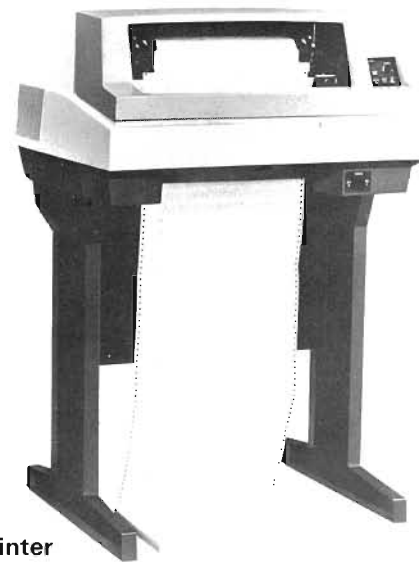
2231W
Line Printer

dot matrix to produce high-quality characters at a rate of 70 cps. The 2231 W-6 offers a variety of special features designed to increase formatting flexibility, including one-quarter line feed spacing for subscripts and superscripts.

The Model 2261W Line Printer prints an ASCII set of 96 characters at the rate of 220 lpm, in 10- and 12-pitch. The 2261W uses four print heads and 11 x 8 and 9 x 8 dot matrices to print bidirectionally.

The 2263-1, 2263-2, and 2263-3 Chain Line Printers are heavy duty, high performance solid character line printers. The 2263-1 and 2263-2 print a 64-character ASCII character set, including uppercase letters, numbers, and special symbols. For the 2263-1 and 2263-2, the standard print font is Gothic. The standard print font for the 2263-3 is a 96-character uppercase/lowercase Courier font. The 2263-1 and 2263-3 print at a rate of 400 lpm, while the 2263-2 prints at 600 lpm. All three models print a 132-character line.

The Models 2273-1 and 2273-2 Band Printers are medium duty, solid character impact printers. The 2273-1 and 2273-2 feature changeable print bands, and Wang offers a complete library of bands designed to meet both domestic and international requirements. Character sets, in different typefaces, containing 48, 64, and 96 characters are available. Bands are available in 10- and 15-pitch for the 2273-1, and in 10-pitch



2273
Band Printer

only for the 2273-2. The Model 2273-1 provides nominal throughput of 250 lpm, and the Model 2273-2 provides nominal throughput of 600 lpm.

The Model 2281W Plotting Output Writer is a daisy character wheel printer, and functions as a digital plotter and an output writer. It bidirectionally prints an 86-character ASCII character set containing uppercase and lowercase letters, numerics, and symbols at a rate of 30 cps.

The Model 2281 WC is a bidirectional, wide carriage, impact printer. It can print either a 180-character (10-pitch) or 216-character (12-pitch) line at an average rate of 40 cps with paper widths up to 20.5 in. (52 cm). It has interchangeable print wheels containing 96 characters. Uppercase and lowercase letters, numerals, and symbols can be printed.

For the 2281W and 2281WC there are two options available: the Twin Sheet Feeder, an electronically controlled device which automatically and continuously feeds single sheets of paper, and the Bidirectional Forms Tractor which allows the continuous forward or reverse feeding of form paper.

The Twin Sheet Feeder can hold up to two hundred sheets of paper in each of two programmable, switch selectable feed bins. Operator intervention is only required to load paper into the bins. As each document is printed, paper automatically feeds, as needed, into the platen. When printing is complete, pages are ejected and stacked in the stacker tray. The Feeder can be easily removed when not needed.

The Bidirectional Forms Tractor provides the capability needed for forms filling, plotting, and

superscript/subscript printing. The tractor accommodates various paper widths and multiform combinations up to six parts.

The Model 2232B Digital Flatbed Plotter performs point and straight-line plotting with extreme accuracy over a plotting surface measuring 31.0 x 48.0 inches (78.7 x 121.9 centimeters). Plotting is ± 0.01 inch (± 0.025 centimeters), with an additional cumulative deviation at the rate of ± 0.001 inch per inch.

The 2232B is a versatile plotter suitable for large-scale plots such as subdivision plans, highway vertical and horizontal plans, and large schematics, as well as for smaller scale plots requiring a high degree of accuracy. Plotting is controlled with the BASIC language PLOT statement. A Plotter Utility Package is available for alphanumeric character generation. It also contains generalized plotter routines and a number of special routines which perform commonly used plots such as straight lines, circles, grids, etc. This package must be ordered separately.

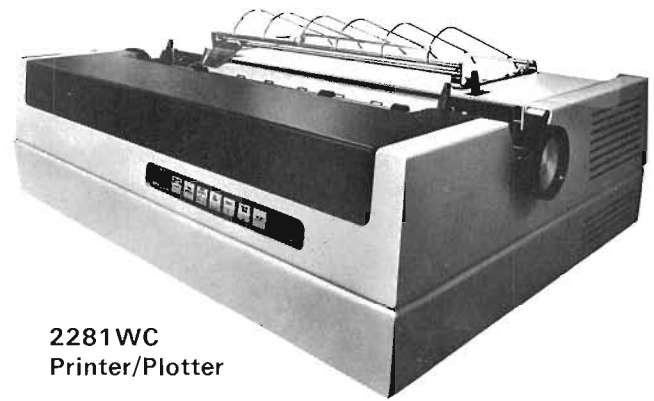
The 2272 Digital Drum Plotter provides point plotting, continuous line plotting and fully automatic alphanumeric lettering capability to the 2200 system. The 2272 provides a combination of features.

1. Digital control accuracy
2. Efficient plotting speeds
3. Plot-vector buffering for overlapped CPU-plotter processing
4. Automatic alphanumeric character generation
5. Virtually unlimited plotting area

The plotter has the extensive capability to prepare bar graphs, pie charts, graphs of standard mathematical functions and business curves, small and large engineering drawings, surveying drawings, machine components, and maps.

The Model 2282 Graphic CRT provides CRT plotting and fully automatic alphanumeric lettering capability for 2200 systems. All plotting output from the 2200 is displayed on the CRT. The 2282 has a 12-inch (30 cm) (diagonal measure) CRT screen. The plotting matrix on the screen consists of 800X by 512Y addressable locations (dots). The graphics image is displayed from graphic memory via standard raster scan techniques, providing a bright clear image under all ambient lighting conditions. In addition to plotting vectors, a 112-character ASCII set can be plotted in 15 different sizes. Selective vector and character erasure is also supported.

The Model 2211M Printer Multiplexer allows a single printer or plotter to be shared by up to four separate 2200 CPUs, thus reducing the per-user cost of hard copy output. All access to the printer is selected via the



**2281WC
Printer/Plotter**

multiplexer select switch. Once the printer is selected, the 2211M permits the printing station to maintain exclusive control of the printer; no other system can use the printer until that system's print channel is selected. The 2211M is compatible with all Wang Series 2200 printers.

COMMUNICATIONS

The Model 2227B Buffered Asynchronous Communications Controller adds data transmission and reception capabilities to the stand-alone computer capabilities of a 2200VP, MVP, or LVP CPU. Two physically different but functionally equivalent versions of this controller, called the 2227B Controller or Option 27B Buffered Asynchronous Communications Controllers, are available. The 2227B is for Wang 2200VP, MVP or LVP systems. The Option 27B offers the same TC function for the SVP. A 2200 system can be user-programmed to emulate a variety of asynchronous terminals, or to communicate with another comparably equipped Wang system. Wang-developed asynchronous communications software is available for emulation of Teletype[®] or IBM Selectric[®] typewriter terminals.

The Model 2228B, or Option 28B Synchronous/Asynchronous Communications Controller, in conjunction with Wang-developed software, can emulate the binary synchronous communications (BSC) protocol of IBM 2780, 3780, or 3741 terminals and HASP multileaving workstations. With one of the BSC protocols, a 2200 system can operate as a remote batch terminal or a workstation in communication with an IBM 360/370 host computer and require no changes in existing IBM 360/370 software. The Wang system can also communicate with any mainframe computer which supports the

2780, 3780, 3741, or HASP multileaving protocols. For asynchronous communications, the Model 2228B or the Option 28B controllers support either user-developed or Wang-developed software.

The Model 2228C Synchronous/Asynchronous Communications Controller has the same capabilities as the Model 2228B controller and supports use of Wang-developed BSC software which emulates an IBM 3275 Display Station (Model 2). It can also emulate the binary synchronous communications protocol of IBM 2780, 3780, and 3741 terminals.

The Model 2228D and Option 28D Data Communications Controllers are designed to support high level data link protocols. The 2228D controller board adds communications capabilities to a Wang 2200 Series LVP or MVP central processor. The Option 28D adds the same functionality to the SVP.

The boards have switch selectable support for either the (EIA) RS-232-C or RS-449 standard. They also support the international CCITT counterpart V.24 to the EIA RS-232-C standard. These boards each have 2K of Erasable Programmable Read Only Memory, and 62K of Random Access Memory. Each controller also has its own microprocessor which allows separate tasks related to data transmission and reception to be performed by the controller and the central processor concurrently.

CONTROLLERS

Most I/O controllers used with 2200 Series peripherals control one device; however, some, such as the 22C11 Dual Controller (Printer and diskette), 22C32 Triple Controller (Disk/Diskette, 2236DE Terminal, Line Printer) and 2236MXD 4-port terminal controller, contain the logic necessary to control more than one peripheral.

On CPU models 2200VP, LVP, and MVP, the I/O controllers are separate boards which plug into the CPU chassis. I/O controllers may be easily added and/or replaced according to the user's needs. The VP and MVP support up to nine I/O controllers.

I/O controllers contain varying degrees of intelligence, depending upon the sophistication of the peripherals which are supported. Some controllers, such as the 2209A Tape Drive Controller, contain an I/O processor and memory buffer as well as controller logic. This allows I/O processing and CPU processing to occur concurrently, thus improving system throughput.

INTERFACES

The 2207A I/O Interface Controller allows direct interface of RS-232-C compatible equipment to a 2200 CPU. This controller supports asynchronous transmission rates up to 1200 baud and two modes of operation called ASCII and Binary. The 2207A interface plugs into any I/O slot in a CPU chassis and has a 25-pin female plug to facilitate direct connection of a Teletype or other equipment having a cable and an RS-232-C compatible male plug.

The 2250 I/O Interface Controller (8-Bit Parallel) allows external equipment to be interfaced directly to the CPU. The controller has a 36-pin female connector to facilitate direct connection of an 8-bit parallel input only, output only, or input/output device.

The Model 2250 implements the sequential transfer of information 1-byte-at-a-time under program control. Although Wang systems use an 8-bit character set consisting of 7-bit ASCII codes with the high-order eighth bit set to 0, individual characters in any single or packed 8-bit codes can be transmitted and received via the 2250 controller. Also, discrete binary information in an 8-bit format and the text of BASIC language programs can be transmitted and received. The 2250 Controller is only available on the 2200VP CPU.

The 2252A Scanning Input Interface Controller [Binary Coded Decimal (BCD) 1-to-10 Digit Parallel] is an input-only interface directly compatible with many digital meters for on-line applications using a 2200VP configuration.

The 2252A can accept, in parallel, a readout consisting of a 1-bit algebraic sign and up to ten decimal digits in BCD 8-4-2-1 notation, i.e., four bits per decimal. Switches on the controller board can be set to indicate the exact number of BCD digits to be processed per readout. By allowing selection of the number of digits to be processed less time is required to transfer each readout to the CPU, and less memory is required when storing multireadouts in alphanumeric arrays.

The 2254 IEEE-488 interface allows a 2200 series system to be compatible with other devices using the IEEE-488-1975 standard. Through this controller, the 2200 system can serve as either the system controller (controlling, talking or listening) or as a noncontroller (talking or listening). The 2254 can be set in the field to operate as a controller or noncontroller. The 2254 controller can only be used with the 2200VP CPU.

CONSOLES AND TERMINALS

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--------------------------------------|---|---|--|--|-------------------------|
| Model 2236DE Interactive Terminal | CRT <ul style="list-style-type: none"> ● 12-inch (30 cm) diagonal display screen ● 24 lines, 80 characters per line ● Manual controls for contrast and brightness ● User-programmable cursor for next-character position ● Programmable audio alarm ● Box graphics ● Character graphics ● Screen Print KEYBOARD <ul style="list-style-type: none"> ● Typewriter-like keyboard ● Modes of operation: A/A, A/a ● 16 user-programmable Special Function Keys/ Edit mode keys ● Multicharacter buffering | <ul style="list-style-type: none"> ● Transmission rate manually selectable for each terminal at 300, 600, 1200, 2400, 9600, or 19,200 bps. PRINTER <ul style="list-style-type: none"> ● Contains a Printer controller equivalent to the 22C02. | <ul style="list-style-type: none"> ● Physical Dimensions <ul style="list-style-type: none"> Height — 13.5 in. (34.3 cm) Depth — 20.5 in. (52.1 cm) Width — 19.75 in. (50.16 cm) ● Weight ● 51 lb (23 kg) ● Cabling <ul style="list-style-type: none"> 8.0 ft (2.4 m) cord to power source 2000.0 ft max (606.1 m) to CPU 50.0 ft max (15.2 m) to Modem | <ul style="list-style-type: none"> ● Power Requirements <ul style="list-style-type: none"> 115 or 230 VAC ± 10% 50 or 60 Hz ± 0.5 Hz 40 watts ● Fuses <ul style="list-style-type: none"> 2.0 amps @ 115 VAC/60 Hz 1.0 amp @ 230 VAC/50 Hz ● Operating Environment <ul style="list-style-type: none"> 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity | VP, MVP, LVP, SVP |
| Model 2236DW Integrated Terminal | CRT <ul style="list-style-type: none"> ● 12-inch (30 cm) diagonal display screen ● 24 lines, 80 characters per line ● Manual controls for contrast and brightness ● User-programmable cursor for next-character position ● Programmable audio alarm ● Box graphics ● Screen Print KEYBOARD <ul style="list-style-type: none"> ● Typewriter-like keyboard ● Modes of operation: A/A, A/a ● 16 user-programmable Special Function Keys/TAB GL, INSERT, DELETE, NEXT SCRIN, and PREV SCRIN keys ● Edit keys and Cursor Control keys ● Multicharacter buffering | <ul style="list-style-type: none"> ● Transmission rate selectable for each terminal at 300, 600, 1200, 2400, 9600, or 19,200 bps. Asynchronous full-duplex communications mode PRINTER <ul style="list-style-type: none"> ● Contains a Printer controller equivalent to the 22C02. | <ul style="list-style-type: none"> ● Physical Dimensions <ul style="list-style-type: none"> Height — 13.5 in. (34.3 cm) Depth — 20.5 in. (52.1 cm) Width — 19.75 in. (50.16 cm) ● Weight ● 41.0 lb (18.6 kg) ● Cabling <ul style="list-style-type: none"> 8.0 ft (2.4 m) cord to power source 25.0 ft (7.6 m) direct connect cable 2000.0 ft max (606.1 m) to CPU 50.0 ft max (15.2 m) to Modem | <ul style="list-style-type: none"> ● Power Requirements <ul style="list-style-type: none"> 115 or 230 VAC ± 10% 50 or 60 Hz ± 0.5 Hz 40 watts ● Fuses <ul style="list-style-type: none"> 2.0 amps @ 115 VAC/60 Hz 1.0 amp @ 230 VAC/50 Hz ● Operating Environment <ul style="list-style-type: none"> 50° F to 90° F (10° C to 32° C) 20% to 65% Recommended Relative Humidity | VP, MVP, LVP, SVP |

DISK AND DISKETTE DRIVES

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--|---|---|---|---|-----------------|
| <p>Model 2270A-1, 2270A-2, 2270A-3 IBM 3740 Compatible Diskette Drives</p> | <ul style="list-style-type: none"> ● On-line storage <ul style="list-style-type: none"> — 2270A-1 Single Diskette Drives: 315,392 bytes (each) — 2270A-2 Dual Diskette Drives: 630,784 bytes (each) — 2270A-3 Triple Diskette Drives: 946,176 bytes (each) ● Allow 2200 CPU to access IBM 3740 type diskettes or Wang diskettes ● Single and dual diskette drives are upgradable ● May be multiplexed ● 16 256-byte sectors/track | <ul style="list-style-type: none"> ● Rotation Speed: 360 rpm ● Average Access Time: 343 ms ● Average Latency Time: 83.3 ms ● COPY Time (entire platter): 2 minutes (approx.) | <ul style="list-style-type: none"> ● Physical Dimensions <ul style="list-style-type: none"> Height — 19.0 in. (48.3 cm) Width — 17.5 in. (44.5 cm) Depth — 16.3 in. (41.4 cm) ● Weight <ul style="list-style-type: none"> 2270A-1 74.0 lb (33.3 kg) 2270A-2 82.0 lb (36.9 kg) 2270A-3 94.0 lb (42.3 kg) ● Cabling <ul style="list-style-type: none"> 12.0 ft (3.7 m) cable to CPU 8.0 ft (2.4 m) cord to power source | <ul style="list-style-type: none"> ● Power Requirements <ul style="list-style-type: none"> 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 Hz ● 210 watts ● Heat Output <ul style="list-style-type: none"> 716 Btu/hr ● Fuses <ul style="list-style-type: none"> 1.75 amps @ 115 VAC/60 Hz 8.0 amp @ 230 VAC/50 Hz ● Operating Environment <ul style="list-style-type: none"> 60° F to 90° F (16° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity | <p>VP, MVP</p> |
| <p>Model 2260C-1/4, 2260C-1/2, 2260C, 2260C-2, Fixed/Removable Disk Drives</p> | <ul style="list-style-type: none"> ● On-line storage <ul style="list-style-type: none"> — 2260A-1/4: 1.25 Mb fixed disk storage — 1.25 Mb removable disk storage — 2260C-1/2: 2.5 Mb fixed disk storage, and 2.5 Mb removable disk storage — 2260C: 5 Mb fixed disk storage and 5 Mb removable disk storage — 2260C-2: 10 Mb fixed disk storage and 10 Mb removable disk storage ● Can be expanded ● 2260BC models may be multiplexed. | <ul style="list-style-type: none"> ● Rotation Speed: 2400 rpm ● Average Access Time: <ul style="list-style-type: none"> — 2260C-1/4: 20 ms — 2260C-1/2: 28 ms — 2260C: 40 ms — 2260C: 40 ms ● Average Latency Time: 12.5 ms ● COPY Time (entire platter) <ul style="list-style-type: none"> — 2260C-1/4: 2 1/2 min — 2260C-1/2: 5 min — 2260BC: 2260C: 10 min — 2260BC-2, 2260C-2: 10 min | <ul style="list-style-type: none"> ● Physical Dimensions <ul style="list-style-type: none"> Height — 28.0 in. (71.1 cm) Width — 18.94 in. (48.11 cm) Depth — 30.7 in. (78.0 cm) ● Weight <ul style="list-style-type: none"> 130.0 lb (58.5 kg) ● Cabling <ul style="list-style-type: none"> 8.0 ft (2.4 m) power cable 10 ft (3 m) to CPU 5.0 ft (1.5 m) to previous drive | <ul style="list-style-type: none"> ● Power Requirements <ul style="list-style-type: none"> 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 Hz ● 500 watts ● Fuses <ul style="list-style-type: none"> 7 amps @ 115 VAC 3.5 amps @ 230 VAC ● Heat Output <ul style="list-style-type: none"> 1050 Btu/hr ● Operating Environment <ul style="list-style-type: none"> 50° F to 95° F (10° C to 35° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity | <p>VP, MVP</p> |

DISK AND DISKETTE DRIVES (continued)

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--|---|--|---|---|---------------------|
| <p>Model 2280-1, 2280-2, 2280N-1,2,3, 2280-3 Fixed/Removable Disk Drives</p> | <ul style="list-style-type: none"> On-line storage <ul style="list-style-type: none"> 2280-1: 13.4 Mb removable disk storage, and 13.4 Mb fixed disk storage 2280-2: 13.4 Mb removable disk storage, and 40.4 Mb fixed disk storage 2280-3: 13.4 Mb removable disk storage, and 67.3 Mb fixed disk storage The 2280-1 and 2280-2 may be expanded 64 256-byte sectors/track | <ul style="list-style-type: none"> Rotation Speed: 3600 rpm Average Access Time: 38.3 ms Average Latency Time: 8.33 ms Average Seek Time: 30 ms COPY Time (entire platter): 2 min | <ul style="list-style-type: none"> Physical Dimensions <ul style="list-style-type: none"> Height (with stand) 36.0 in. (91.4 cm) Width — 20.4 in. (51.8 cm) Depth — 32.6 in. (82.8 cm) Weight <ul style="list-style-type: none"> 175.0 lb (78.8 kg) Cabling <ul style="list-style-type: none"> 5.0 ft (1.5 m) cable to disk controller board in CPU 15.0 ft (4.6 m) to previous 2280 24.0 ft (7.3 m) to last drive 8.0 ft (2.4 m) to power source | <ul style="list-style-type: none"> Power Requirements <ul style="list-style-type: none"> 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 Hz 1900 watts - start-up 950 watts - running 250 watts - stand by 120 VAC 50/60 15 amps Fuses <ul style="list-style-type: none"> 8 amps @ 120 VAC 4 amps @ 230 VAC Heat Output <ul style="list-style-type: none"> 2150 Btu/hr (running) 1050 Btu/hr (stand-up) Operating Environment <ul style="list-style-type: none"> 50° F to 95° F (10° C to 35° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity | <p>VP, MVP, LVP</p> |

DISK AND MULTIPLEXERS

| | | | | | |
|--|--|--|---|---|---------------------|
| <p>Model 2230MXA-1/ MXB-1 Disk Multiplexer</p> | <ul style="list-style-type: none"> Allows up to four independent 2200 CPUs to share a disk or diskette drive Consists of one MXA-1 master controller board and up to 3 MXB-1 slave controller boards. | | <ul style="list-style-type: none"> Cabling <ul style="list-style-type: none"> 12.0 ft (3.7 m) connector cable with each MXB-1 board. Optional 50.0 ft (15.2 m), 100.0 ft (30.4 m), 200 ft (61 m) extension cables. Total length of cable cannot exceed 536.0 ft (163.4 m) | <ul style="list-style-type: none"> Fuses <ul style="list-style-type: none"> 7 amps @ 115 VAC/60 Hz 3 amps @ 230 VAC/50 Hz | <p>VP, MVP</p> |
| <p>Model 2280 Disk Multiplexer</p> | <ul style="list-style-type: none"> Allows any combination of one, two, or three CPUs to share a Model 2280 Disk Drive or pair of disk drives "Star-type" multiplexer consisting of multiplexer board, individual connector cables, and a controller board for each CPU | | <ul style="list-style-type: none"> Cabling <ul style="list-style-type: none"> 12.0 ft (3.7 cm) connector cable Optional 25.0 ft (7.6 m), 50.0 ft (15.2 m), 100.0 ft (30.4 m), 250.0 ft (76.2 m), 500.0 ft (152.4 m), 750.0 ft (228.6 m), and 1000.0 ft (304.8 m) extension cables. Maximum acceptable distance between the DPU and CPU is 1012.0 feet (308.5 m). | | <p>VP, MVP, LVP</p> |

CARD READER AND TAPE DRIVES

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--|---|---|--|---|-------------------------|
| <p>Model 2209A Nine-Track Tape Drive</p> | <ul style="list-style-type: none"> ● On-line storage — 35 Mb ● Reads and writes at 1600 bytes per inch in the phase Encoded Mode ● Can hold up to 2400 ft (732 m) of 1/2 in. (1.27 cm) tape ● Holds a standard 10.5 in. (26.7 cm) reel ● Dual-gap, read-after-write head ● Uses a 4K (4096 byte) buffer to read and write | <ul style="list-style-type: none"> ● Tape Speed 75 inches per second bidirectional, 200 inches per second nominal during rewind ● Data Transfer Rate 120 K bytes/sec (head to buffer), 20 K bytes/sec (buffer to 2200T), 100 K bytes/sec (buffer to 2200VP/MVP) | <ul style="list-style-type: none"> ● Physical Dimensions Height — 34.5 in. (87.6 cm) Width — 24 in. (61 cm) Depth — 26 in. (66 cm) ● Weight 170.0 lb (76.5 kg) ● Cabling 12.0 ft (3.7 m) to controller 8.0 ft (2.4 m) to power source | <ul style="list-style-type: none"> ● Power Requirements 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 Hz 475 watts ● Fuses 15 amps @ 115 VAC 8 amps @ 230 VAC 3 amps @ 115 VAC 1.5 amps @ 230 VAC 8 amps @ 115 VAC 4 amps @ 230 VAC ● Operating Environment 60° F to 90° F (16° C to 32° C) 40% to 60% Relative Humidity, noncondensing ● Heat Output 1623 Btu/hr | <p>VP, MVP, LVP</p> |
| <p>Model 2244B Hopper-Feed/ Marked Sense Card Reader</p> | <ul style="list-style-type: none"> ● Can read the following types of cards <ul style="list-style-type: none"> — Standard 80-column cards printed in reflective ink for marking and/or punching — Custom cards with fewer than 80 columns — BASIC Mark Sense Program cards ● Hopper can hold approximately 550 cards of 7 mm thickness ● Stacker can hold approximately 550 cards of 7 mm thickness | <ul style="list-style-type: none"> ● Reads marked or punched cards at the rate of 300 cards per minute | <ul style="list-style-type: none"> ● Physical Dimensions Height — 11.0 in. (27.9 cm) Width — 19.0 in. (48.3 cm) Depth — 14.0 in. (35.6 cm) ● Weight 60 lb (27 kg) | <ul style="list-style-type: none"> ● Power Requirements 115 or 230 VAC \pm 10% 60 Hz \pm 1 cps 230 VAC \pm 10% 50 Hz \pm cps 1650 watts (max) starting load for 3 seconds 570 watts (max) running load ● Fuses 14.3A amps @ 115 VAC (7.15A @ 230 V) Start-up 4.9 amp @ 115 VAC (2.45A @ 230 V) Running ● Operating Environment 50° F to 90° F (10° C to 32° C) 40% to 68% Relative Humidity (noncondensing) ● Heat Output 1938 Btu/hr | <p>VP, MVP, LVP</p> |

PRINTERS/PLOTTERS

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|---|---|--|--|---|----------------------------------|
| <p>Model 2221W Matrix Line Printer</p> | <ul style="list-style-type: none"> High quality 9 x 9 and 9 x 7 dot matrix impact printer Expanded print capability 132 characters per line Full ASCII set of 96 characters Full line buffering Programmable audio alarm | <ul style="list-style-type: none"> Print Speed 200 cps, 65 to 300 lpm depending upon line length | <ul style="list-style-type: none"> Physical Dimensions Height — 12.0 in. (30.5 cm) Width — 29.0 in. (73.7 cm) Depth — 25.0 in. (63.5 cm) Weight 85.0 lb (38.2 kg) Cabling 6.0 ft (1.8 m) to power source 12.0 ft (3.7 m) to controller Paper Width 14.9 in. (37.8 cm) maximum 3.5 in. (8.9 cm) minimum | <ul style="list-style-type: none"> Power Requirements 115 or 230 VAC ± 10% 50 or 60 Hz ± 1 Hz 300 watts Fuses 4.0 amps (SB) @ 115 VAC 2.0 amps (SB) @ 230 VAC Operating Environment 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity Heat Output 1200 Btu/hr | <p>VP, MVP, LVP, SVP</p> |
| <p>Model 22231W-1, 2231W-2, 2231W-3, 2231W-6 Matrix Line Printers</p> | <ul style="list-style-type: none"> 2231W-1: 112 characters per line, 10-pitch 2231W-2: 132 characters per line, 12-pitch 2231W-3: 112 characters per line, 2282 graphic CRT accessory printer 2231W-6: 132 lines per inch, 10-pitch and 12-pitch fonts Full ASCII set of 96 characters | <ul style="list-style-type: none"> Print Speed — 2231W-1: 120 cps — 2231W-2: 120 cps — 2231W-3: 120 cps — 2231W-6: 70 cps | <ul style="list-style-type: none"> Physical Dimensions Height — 10.0 in. (25.4 cm) Depth — 18.0 in. (45.7 cm) Width — 24 in. (61 cm) Weight 2231W-1, -2: 60 lb (27 kg) 2231W-3: 82.0 lb (36.9 kg) 2231W-6: 70.0 lb (31.5 kg) Cabling 12 ft (3.7 m) to CPU (when the 2231W-3 is used with the graphic CRT, the graphic CRT plugs into the printer controller board in the CPU and the printer cable plugs into the output connector of the graphic CRT.) 6 ft (1.8 m) to power source Paper width 13.5 in. (34.3 cm) maximum 3.5 in. (8.9 cm) minimum | <ul style="list-style-type: none"> Power Requirements 115 or 230 VAC ± 10% 50 or 60 Hz ± 1 cps 150 watts Fuses 1.5 amps (SB) @ 115 VAC .8 amps (SB) @ 230 VAC Operating Environment 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity Heat Output 600 Btu/hr | <p>VP, MVP, LVP, SVP</p> |

PRINTERS/PLOTTERS (continued)

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--|---|---|---|---|-------------------|
| Model 2261W Matrix Line Printer | <ul style="list-style-type: none"> High quality 11 x 8 and 9 x 8 dot matrix impact printer Expanded print capability 132 characters per line (10-pitch format), or 160 characters per line (12-pitch format) Full ASCII set of 96 characters Switch selectable variable line density — 6 or 8 lines per inch Full line buffering 4 matrix impacter heads, bidirectional printing Programmable audio alarm | <ul style="list-style-type: none"> Print Speed 220 lpm independent of characters per line and pitch | <ul style="list-style-type: none"> Physical Dimensions Height — 36.0 in. (91.4 cm) Depth — 26 in. (66 cm) Width — 27.0 in. (68.6 cm) Weight 210.0 lb (94.5 kg) Cabling 6.0 ft (1.8 m) to power source 12.0 ft (3.7 m) to controller Paper Width 14.9 in. (37.8 cm) maximum 5.0 in. (12.7 cm) minimum | <ul style="list-style-type: none"> Power Requirements 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 Hz 840 watts Fuses 5.0 amps (SB) @ 115 VAC 2.5 amps (SB) @ 230 VAC Operating Environment 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity Heat Output 2864 Btu/hr | VP, MVP, LVP, SVP |
| Model 2263-1, 2263-2, 2263-3 Line Printers | <ul style="list-style-type: none"> Chain Printer 132 characters per line Alarm Lamp ASCII 64-character set Accepts up to 6-part forms Gothic print font for 2263-1 and 2263-2, Courier print font for 2263-3 | <ul style="list-style-type: none"> Print Speed 400 lpm for the 2263-1, and 2263W-3, 600 lpm for the 2263-2 | <ul style="list-style-type: none"> Physical Dimensions Height — 42.0 in. (106.7 cm) Width — 36.5 in. (92.7 cm) Depth — 32.0 in. (81.3 cm) Weight 570 lb (256.5 kg) Cabling 12 ft (3.7 in.) to power source, 50 ft (15.2 m) to controller Paper width 19.5 in. (49.5 cm) maximum 3.5 in. (8.9 cm) minimum | <ul style="list-style-type: none"> Power Requirements 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 cps 790 watts Fuses 5.5 amps @ 115 VAC 3.0 amps @ 230 VAC Operating Environment 40° F to 94° F (4° C to 34° C) 40% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity Heat Output 2700 Btu/hr | VP, MVP, LVP, SVP |
| Model 2273-1, 2273-2 Band | <ul style="list-style-type: none"> Band Printer Operator-changeable Solid-character impact printing technique Accepts up to six-part forms 132 characters per line | <ul style="list-style-type: none"> Print Speed 250 lpm and 600 lpm (nominal) for the 2273-2 | <ul style="list-style-type: none"> Physical Dimensions Height — 43.75 in. (111.13 cm)* Depth — 25.1 in. (63.8 cm) Weight 198.0 lb (89.1 kg) Cabling 12.0 ft (3.7 m) cable with connector to CPU 6.0 ft (1.8 m) to power supply Paper Width 16.0 in. (40.6 cm) maximum 3.0 in. (7.6 cm) minimum | <ul style="list-style-type: none"> Power Requirements 115 or 230 VAC \pm 10% 350 watts Fuses 3.0 amps @ 115 VAC 1.5 amps @ 230 VAC Operating Environment 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity Heat Output 1200 Btu/hr | VP, MVP, LVP, SVP |

- Height with stand, cover closed.
Height without stand
14.5 in. (36.8 cm) cover closed
29.5 in. (74.9 cm) cover open

PRINTERS/PLOTTERS (continued)

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--|--|---|--|---|-------------------------|
| Model 2281W Printer/Plotter | <ul style="list-style-type: none"> ● Daisy character wheel printer/digital plotter ● ASCII character set of 86 characters ● 132 characters per line (10-pitch), 157 characters per line (12-pitch) ● Full line buffering ● Prints bidirectionally | <ul style="list-style-type: none"> ● Print Speed 30 cps, bidirectional ● Plotting Increments — Horizontal — 1/60 in. (0.0423 cm) per step — Vertical — 1/48 in. (0.0529 cm) per step | <ul style="list-style-type: none"> ● Physical Dimensions Height — 9.0 in. (22.9 cm) Depth — 19.5 in. (49.5 cm) Width — 25.0 in. (63.5 cm) ● Weight 70.0 lb (31.5 kg) ● Cabling 12.0 ft (3.7 m) to controller 6.0 ft (1.8 m) to power supply ● Paper Width 15.0 in. (38.1 cm) maximum | <ul style="list-style-type: none"> ● Power Requirements 115 or 230 VAC ± 10% 50 or 60 Hz ± 1 Hz 250 watts ● Fuses 3 amps (SB) @ 115 VAC 1.5 amps (SB) @ 230 VAC ● Operating Environment 45° F to 95° F (7° C to 35° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity ● Heat Output 1000 Btu/hr | VP, MVP, LVP, SVP |
| Model 2281WC Wide Carriage Printer | <ul style="list-style-type: none"> ● Wide platen with forms tractor ● Bidirectional print capabilities ● 180-character line in 10-pitch, 216 character line in 12-pitch ● Interchangeable 96-character print wheels | <ul style="list-style-type: none"> ● Print Speed 40 characters per second, average | <ul style="list-style-type: none"> ● Physical Dimensions Height — 9.0 in. (22.9 cm) Depth — 19.5 in. (49.5 cm) Width — 28.75 in. (73.03 cm) ● Weight 70.0 lb (31.5 kg) ● Cabling 12.0 ft (3.7 m) to controller 6.0 ft (1.8 m) to power supply | <ul style="list-style-type: none"> ● Power Requirements 115 or 230 VAC ± 10% 50 or 60 Hz ± 1 Hz 250 watts ● Fuses 3.0 amps (SB) @ 115 VAC 1.5 amps (SB) @ 230 VAC ● Operating Environment 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity ● Heat Output 1000 Btu/hr | VP, MVP, LVP, SVP |

PRINTERS/PLOTTERS (continued)

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|--------------------------------|---|--|--|--|-------------------------|
| Model 2232B Flatbed Plotter | <ul style="list-style-type: none"> ● Point and straight line plotting ● Plotting area: 48.0 in. (121.9 cm) x 31.0 in. (78.7 cm) | <ul style="list-style-type: none"> ● Plotting Speed 60 in./min ● Plotting Accuracy ± 0.01 in. plus 0.001 in. | <ul style="list-style-type: none"> ● Physical Dimensions Table Height — 9.50 in. (24.13 cm) Width — 60.25 in. (153.04 cm) Depth — 46.0 in. (116.8 cm) Weight — 112.0 lb (50.4 kg) ● Physical Dimensions Control Unit Height — 19.0 in. (48.3 cm) Width — 18.0 in. (45.7 cm) Depth — 10.0 in. (25.4 cm) Weight — 30.0 lb (13.6 kg) ● Cabling 10 ft (3 m) cable from control unit to CPU 10 ft (3 m) cable from control unit to plotter arm 8 ft (2.4 m) power supply | <ul style="list-style-type: none"> ● Power Requirements 115 or 230 VAC ± 10% 50 or 60 Hz ± 1 Hz 175 watts ● Fuses 2 amps @ 115 VAC 2 amps @ 230 VAC ● Operating Environment 50° F to 104° F (10° C to 40° C) ● 30% to 80% Relative Humidity ● Heat Output 595 Btu/hr | VP, MVP, LVP |
| Model 2282 Graphic CRT | <ul style="list-style-type: none"> ● High contrast CRT plotting ● Fully automatic lettering capability ● Interfaces with the 2200 via the line printer controller board ● 12-inch diagonal CRT screen with P39 phosphor | <ul style="list-style-type: none"> ● 800X by 512Y addressable locations (dots) ● Plotting time 0.048 sec (full screen horizontal vector) | <ul style="list-style-type: none"> ● Physical Dimensions Height — 13.5 in. (34.3 cm) Depth — 20.5 in. (52.1 cm) Width — 19.75 in. (50.16 cm) ● Weight 38.5 lb (17.3 kg) ● Cabling 8.0 ft (2.4 m) to power source 12.0 ft (3.7 m) to CPU | <ul style="list-style-type: none"> ● Power Requirements 115 or 230 VAC ± 10% 50 or 60 Hz ± 1 Hz 65 watts ● Fuses 3.0 amps (SB) @ 115 VAC 1.5 amps (SB) @ 230 VAC ● Operating Environment 45° F to 95° F (7° C to 35° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity ● Heat Output 614 Btu/hr | VP, MVP, LVP, SVP |

PRINTERS/PLOTTERS (continued)

| DEVICE | GENERAL SPECIFICATIONS | PERFORMANCE SPECIFICATIONS | PHYSICAL SPECIFICATIONS | ENVIRONMENTAL REQUIREMENTS | COMPATIBLE WITH |
|---|---|---|--|--|-------------------------|
| Model 2272 Digital Drum Plotter | <ul style="list-style-type: none"> Allows continuous line plotting with automatic alphanumeric lettering capability Switches to set axes 400 byte buffer | <ul style="list-style-type: none"> Plotting Area — 16.0 in. (40.6 cm) wide by any length Plotting Accuracy — .01 in. plus 1% Speed — 3 in./sec | <ul style="list-style-type: none"> Physical Dimensions Height — 10.2 in. (25.9 cm) Width — 33.0 in. (83.8 cm) Depth — 14.0 in. (35.6 cm) Weight — 68.0 lb (30.6 kg) Cabling 8.0 ft (2.4 m) cable to CPU 8.0 ft (2.4 m) power cord | <ul style="list-style-type: none"> Power Requirements 169 watts 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 Hz Fuses 3.5 amps @ 115 VAC 1.5 amps @ 230 VAC Operating Environment 50° F to 90° F (10° C to 32° C) 20% to 80% Relative Humidity 35% to 65% Recommended Relative Humidity Heat Output 577 Btu/hr | VP, MVP, LVP, SVP |
| Model 2211M Printer/Plotter Multiplexer | <ul style="list-style-type: none"> Allows up to four 2200 CPUs to share any Wang printer. Select switch Four channel indicator lamps | | <ul style="list-style-type: none"> Dimensions of chassis Height — 5.5 in. (14.0 cm) Width — 8.0 in. (20.3 cm) Length — 11.5 in. (29.2 cm) Weight of chassis — 15.0 lb (6.8 kg) | <ul style="list-style-type: none"> Power Requirements 115 or 230 VAC \pm 10% 50 or 60 Hz \pm 1 cps 25 watts Operating Environment 50° F to 90° F (10° C to 32° C) 40% to 60% Relative Humidity | VP, MVP, LVP, SVP |

PRINTER OPTIONS

| | | | | | |
|--|---|--|---|--|-------------------------|
| Bidirectional Forms Tractor Option | <ul style="list-style-type: none"> Allows the continuous forward or reverse feeding of form paper. Handles multipart forms up to 6 parts. | <ul style="list-style-type: none"> Printing/Plotting registration is accurate to 0.010 in. (0.025 cm) | <ul style="list-style-type: none"> Physical Dimensions Height — 6.75 in. (17.15 cm) Depth — 8.40 in. (21.34 cm) 2281W Weight — 6.0 lb (2.7 kg) Width — 21.50 in. (54.61 cm) 2281WC Weight — 6.50 lb (2.93 kg) Width — 26.40 in. (67.06 cm) | | LVP, MVP, SVP, VP |
| Twin Sheet Feeder | <ul style="list-style-type: none"> Easy to use Automatic Twin Sheet Feeder 200 sheet-per-bin capacity Programmable and switch selectable bin control Sequential stacking of printed documents | | <ul style="list-style-type: none"> Physical Dimensions Height — 15.0 in. (38.1 cm) Depth — 14.00 in. (36.56 cm) 2281W Weight — 6.0 lb (2.7 kg) Width — 21.50 in. (54.61 cm) 2281WC Weight — 6.50 lb (2.93 kg) Width — 26.40 in. (67.06 cm) | | VP, LVP, MVP, SVP |

TELECOMMUNICATIONS

| CONTROLLER | CHARACTERISTICS | RESTRICTIONS | COMPATIBLE WITH |
|--|--|---|---|
| <p>Model 2227B, Option 27B Buffered Asynchronous Communications Controller</p> | <ul style="list-style-type: none"> ● Protocols supported include: <ul style="list-style-type: none"> — Teletype terminal emulation — IBM 2741 emulation — Communication with another comparably equipped Wang system (a Wang Null Modem is available for direct communication to another Wang system) ● Available line speeds: 50, 75, 100, 110, 134.5, 150, 200, 300, 600, 1200, 1800, 2400, 3600, 4800, 7200, 9600 bps ● Character formatting options: <ul style="list-style-type: none"> — Parity (odd, even or no) — number of data bits (5, 6, 7, or 8) — number of stop bits (1, 1.5, or 2) | <p>Modems not included 12.0 ft (3.7 m) cable included</p> | <p>Model 2227B: VP, MVP, LVP Option 27B: SVP</p> |
| <p>Model 2228B, Option 28B Synchronous/ Asynchronous Communications Controller</p> | <ul style="list-style-type: none"> ● Protocols supported include: <ul style="list-style-type: none"> — IBM 2780, 3780, 3741, or HASP multileaving protocols — Teletype and IBM 2741 terminal emulation — Burroughs poll/select ● RS-232-C compatible ● Controller contains a microprocessor, memory, buffers ● A Wang Null Modem is available for direct communication to another Wang system | <p>Modems not included 12.0 ft (3.7 m) cable included</p> | <p>Model 2228B: VP, MVP, LVP Option 28B: SVP</p> |
| <p>Model 2228C, Option 28C Synchronous/ Asynchronous Communications Controller</p> | <ul style="list-style-type: none"> ● Protocols supported include: <ul style="list-style-type: none"> — IBM 3275, 2780, 3780, 3741, or HASP multileaving protocols — Teletype and IBM 2741 terminal emulation — Burroughs poll/select ● Controller contains a microprocessor, memory, and buffers | <p>Modems not included 12.0 ft (3.7 m) cable included</p> | <p>Model 2228C: VP, MVP, LVP Option 28C: SVP</p> |
| <p>Model 2228D, Option 28D Data Communications Controller</p> | <ul style="list-style-type: none"> ● Power-up diagnostic allows immediate recognition of board status via rail-mounted LED ● Switch Selectable compatibility with EIA RS-232-C or the EIS RS-449 ● Four independent Direct Memory Access channels ● Supports Wang Communications software | <p>12.0 ft (3.7 m) cable included</p> | <p>Model 2228D: MVP, LVP Option 28D: SVP</p> |

CONTROLLERS

| CONTROLLER | DEVICES CONTROLLED | CONTROLLER | DEVICES CONTROLLED | COMPATIBLE WITH |
|---|--|---|--|-----------------|
| 22C02 Printer/ Drum Plotter Controller | <ul style="list-style-type: none"> ● Model 2221W Line Printer ● Model 2231W-1 Line Printer ● Model 2231W-2 Line Printer ● Model 2231W-3 Line Printer (Graphic CRT Accessory Printer) ● Model 2231W-6 Matrix Line Printer ● Model 2261W Line Printer ● Model 2263-1 Line Printer ● Model 2263-2 Line Printer ● Model 2273-1 Band Printer ● Model 2273-2 Band Printer ● Model 2281W Daisy Printer ● Model 2281WC Wide Carriage Printer ● Model 2282 Graphic CRT ● Model IP41L Image Printer | 22C12 Processing Unit and Controller | <ul style="list-style-type: none"> ● Model 2260C Disk Drive | VP, MVP |
| 22C03 Disk/ Diskette Controller | <ul style="list-style-type: none"> ● Model 2270A Diskette Drive | 22C32 Triple Controller (Disk/Diskette, 2236DE Terminal Line Printer) | <ul style="list-style-type: none"> ● Model 2221W Line Printer ● Model 2231W-1 Line Printer ● Model 2231W-2 Line Printer ● Model 2231W-3 Line Printer (Graphic CRT Accessory Printer) ● Model 2231W-6 Matrix Line Printer ● Model 2261W Line Printer ● Model 2263-1 Line Printer ● Model 2263-2 Line Printer ● Model 2281W Plotting Daisy Output Writer ● Model 2281WC Wide Carriage Printer ● Model 2282 Graphic CRT ● Model 2270A Diskette Drive ● Model 2236DE Interactive Terminal | VP, MVP, LVP |
| 22C11 Dual Controller (Printer and diskette) | <ul style="list-style-type: none"> ● Model 2221W Line Printer ● Model 2231W-1 Line Printer ● Model 2231W-2 Line Printer ● Model 2231W-3 Line Printer (Graphic CRT Accessory Printer) ● Model 2231W-6 Matrix Line Printer ● Model 2261W Line Printer ● Model 2263-1 Line Printer ● Model 2263-2 Line Printer ● Model 2273-1 Band Printer ● Model 2273-2 Band Printer ● Model 2281W Daisy Printer ● Model 2281WC Wide Carriage Printer ● Model 2282 Graphic CRT ● Model 2270A Diskette Drive | 2236MXD Four-port Terminal Controller | <ul style="list-style-type: none"> ● Controls up to four 2236DE terminals (only one on VP) | VP, MVP, LVP |
| 22C80 Disk Controller | <ul style="list-style-type: none"> ● Model 2282 Graphic CRT ● Model 2270A Diskette Drive | 22C80 Disk Controller | <ul style="list-style-type: none"> ● Needed to multiplex CPU to 2280 multiplexer ● Installed in CPU and connected to multiplexer board in MDPU. | VP, MVP, LVP |

INTERFACES

| INTERFACE | CHARACTERISTICS | COMPATIBLE WITH |
|--|---|-----------------|
| Model 2207A I/O Interface Controller | <ul style="list-style-type: none"> ● Allows direct interface of the following non-Wang equipment to a 2200 CPU <ul style="list-style-type: none"> — RS-232-C compatible teletype® — teletype equivalent terminal — RS-232-C compatible, asynchronous transmission laboratory equipment ● Transmission Rate 110, 150, 300, 600, and 1,200 band ● Modes <ul style="list-style-type: none"> — ASCII — Binary | VP |
| Model 2250 I/O Interface Controller | <ul style="list-style-type: none"> ● Allows interface of external equipment that is 8-bit Parallel ● Capable of sequential transfer of information at transfer rates up to 10,000 (8-bit) cps, asynchronously | VP |
| Model 2252A Scanning Input Interface Controller | <ul style="list-style-type: none"> ● An input-only interface directly compatible with many digital meters for on-line data input | VP |
| Model 2254 IEEE-488 Interface | <ul style="list-style-type: none"> ● Allows compatibility with other devices using IEEE-488-1975 standard ● The 2200 can serve as either a controller or noncontroller | VP |

International Representatives

Argentina
Bahamas
Bahrain
Bolivia
Botswana
Brazil
Canary Islands
Chile
Colombia
Costa Rica
Cyprus
Denmark
Dominican Republic
Ecuador
Egypt
El Salvador
Finland
Ghana
Greece
Guam
Guatemala
Haiti
Honduras
Iceland
India
Indonesia
Ireland
Israel
Italy
Ivory Coast
Japan
Jordan
Kenya
Korea
Kuwait
Lebanon
Liberia
Malaysia
Malta
Mexico
Morocco
New Guinea
Nicaragua
Nigeria
Norway
Paraguay
Peru
Philippines
Portugal
Qatar
Saudi Arabia
Scotland
Senegal
South Africa
Spain
Sri Lanka
Sudan
Tasmania
Thailand
Turkey
United Arab Emirates
Uruguay
Venezuela
Zimbabwe

United States

| | | | | | |
|--|---|--|---|---|---|
| Alabama Birmingham Mobile | Florida Coral Gables Hialeah Hollywood Jacksonville Miami Orlando Sarasota Tampa | Iowa Ankeny Kansas Overland Park Wichita Kentucky Louisville Louisiana Baton Rouge Metairie Maine Portland Maryland Baltimore Bethesda Gaithersburg Rockville Massachusetts Boston Burlington Chelmsford Lawrence Littleton Lowell Methuen Tewksbury Worcester Michigan Grand Rapids Kalamazoo Lansing | Southfield Minnesota Eden Prairie Minneapolis Mississippi Jackson Missouri Creve Coeur St. Louis Nebraska Omaha Nevada Las Vegas New Hampshire Manchester New Jersey Bloomfield Clifton Edison Mountainside Toms River New Mexico Albuquerque Santa Fe New York Albany Jericho Lake Success New York City Rochester | Syosset Syracuse Tonawanda North Carolina Charlotte Greensboro Raleigh Ohio Akron Cincinnati Cleveland Independence Toledo Worthington Oklahoma Oklahoma City Tulsa Oregon Eugene Portland Salem Pennsylvania Allentown Erie Harrisburg Philadelphia Pittsburgh State College Wayne Rhode Island Providence | South Carolina Charleston Columbia Tennessee Chattanooga Knoxville Memphis Nashville Texas Austin Dallas El Paso Houston San Antonio Utah Salt Lake City Virginia Newport News Norfolk Richmond Rosslyn Springfield Washington Richland Seattle Spokane Wisconsin Appleton Brookfield Green Bay Madison Wauwatosa |
|--|---|--|---|---|---|

International Offices

| | | | | | | |
|--|---|--|---|---|--|--|
| Australia Wang Computer Pty., Ltd. Adelaide, S.A. Brisbane, Qld. Canberra, A.C.T. Perth, W.A. South Melbourne, Vic 3 Sydney, NSW | Austria Wang Gesellschaft, m.b.H. Vienna | Belgium Wang Europe, S.A. Brussels Erpe-Mere | Canada Wang Canada Ltd. Burlington, Ontario Burnaby, B.C. Calgary, Alberta Don Mills, Ontario Edmonton, Alberta Halifax, Nova Scotia Hamilton, Ontario Montreal, Quebec Ottawa, Ontario Quebec City, Quebec Toronto, Ontario | Victoria, B.C. Winnipeg, Manitoba China Wang Industrial Co., Ltd. Taipei Wang Laboratories, Ltd. Taipei France Wang France S.A.R.L. Paris Bordeaux Lille Lyon Marseilles Nantes Nice Rouen Strasbourg Great Britain Wang (U.K.) Ltd. Richmond Birmingham London Manchester Hong Kong Wang Pacific Ltd. Hong Kong | Japan Wang Computer Ltd. Tokyo Netherlands Wang Nederland B.V. IJsselstein Groningen New Zealand Wang Computer Ltd. Auckland Christchurch Wellington Panama Wang de Panama (CPEC) S.A. Panama City Puerto Rico Wang Computadoras, Inc. Hato Rey Singapore Wang Computer (Pte) Ltd. Singapore Sweden Wang Skandinaviska AB Stockholm Gothenburg | Malmö Switzerland Wang A.G. Zurich Basel Bern Geneva Lausanne St. Gallen Wang Trading A.G. Zug West Germany Wang Deutschland, GmbH Frankfurt Berlin Cologne Düsseldorf Essen Freiburg Hamburg Hannover Kassel Mannheim Munich Nürnberg Saarbrücken Stuttgart |
|--|---|--|---|---|--|--|

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Package Subject: Obsolescence List

Item Title: Speak now or forever

George,

Do not have a list to indicate what products are already obsoleted so many of the following model #s may be obsoleted already. This list indicates model numbers that should probably no longer be covered under maintenance but repaired on a time & materials basis only.

2201 Output Writer (modified IBM Selectric Typewriter)
2201L Output Writer (modified IBM Selectric II Typewriter)
2202 Plotting Output Writer (modified IBM Selectric II with plotting)
2203 Paper Tape Reader (reads punched tape)
2212 Analog Plotter (flatbed plotter)
2216A CRT (CRT for 2200A/B/C/S/T CPUs)
2216A/2217 CRT/Cassette (CRT w/ built tape cassette drive)
2217 Cassette (cassette tape drive for 2200A/B/C/S/T)
2218 Cassette (dual cassette unit for 2200A/B/C/S/T)
2219 Extension Chassis (I/O extension chassis for 2200A/B/C)
2220 CRT/Keybrd/Cassette (dumb terminal w/ tape cassette for 2200A/B/C/S/T)
2221W Printer
2222 Keyboard
2224 Disk Multiplexer (allows up to 4 2200C/T CPUs to share a disk)
2226A Terminal (16*64 dumb terminal)
2226B Terminal (24*80 dumb terminal)
2230 Disk (Diablo 1500RPM Fixed/Rem Disk Unit)
2230MKA/2230MKB Disk Multiplexer Boards (allows up to 4 CPUs to share disk)
2232A Plotter (31"*48" Flatbed Plotter)
2232B Plotter (newer version of 2232A)
2234A Card Reader
2241 Printer (thermal matrix printer)
2242 Diskette Drive (dual 8 1/2" Memorex Floppy Unit)
2243 Diskette Drive (triple 8 1/2" Memorex Floppy Unit)
2244A Card Reader
2244B Card Reader
2251 Printer (compact printer using 3 3/4" width roll paper)
2260 Disk Drive (Diablo 2400RPM Fixed/Rem Disk Drive)
2260B Disk Drive (newer Diablo 2400RPM Fixed/Rem Disk Drive)
2260BC Disk Drive (Diablo 2400RPM F/R Disk Drive w/ single board interface)
2261 Printer (2 headed bi-directional printer)
2261W Printer (4 headed bi-directional matrix printer)
2262 Digitizer
2271 Printer (modified bi-directional IBM Selectric Typewriter)
2271P Printer (same as 2271 with plotting capabilities)
2272-1 Plotter (single pen drum plotter)
2272-2 Plotter (triple pen drum plotter)
2281 Printer (Diablo daisy wheel printer)
2281P Printer (Diablo daisy wheel printer w/ plotting form feed capabilities)

If there are any questions please let me know.

Regards, Mike

The Current Status

SOFTWARE RELEASE LEVELS

Following is a list of currently released Wang software. Release levels which have changed since last month's Current Status listing are indicated by an asterisk.

VS PRODUCT LINE

| Product | Release | System | Comments |
|----------------------------|---------|----------------------|-----------------------|
| VS Operating System | | | |
| Nucleus | 500 13 | VS 50, VS 80 | Requires ECO 13280 |
| Nucleus | 500 13 | VS-100 | Requires ECO 18812 |
| CP Microcode | 302 | VS-50, VS 80 | Provided by ECO 13280 |
| CP Microcode | 451 | VS 100 | Provided by ECO 20191 |
| VS Languages | | | |
| ASSEMBLE | 108 00 | VS 50, VS 80, VS 100 | |
| BASIC | 303 01 | VS 50, VS 80, VS 100 | |
| COBOL | 302 02 | VS 50, VS 80, VS 100 | |
| FORTRAN 66 | 205 00 | VS 50, VS 80 | Model # 196-0001 |
| FORTRAN 66 | 205 00 | VS 100 | Model # 195-2122-3 |
| RPGII | 303 01 | VS 50, VS-80, VS-100 | |
| VS Utilities | | | |
| BACKUP | 314 00 | VS 50, VS 80, VS 100 | |
| CMDLMP | 500 00 | VS 50, VS 80 | |
| COMPRESS | 103 00 | VS 50, VS 80, VS 100 | |
| CONDENSE | 200 00 | VS 50, VS-80, VS-100 | |
| CONTROL | 400 01 | VS-50, VS-80, VS-100 | |
| COPY | 215 00 | VS 50, VS-80, VS-100 | |
| COPYWP | 200 04 | VS-50, VS-80, VS-100 | |
| COPY2200 | 500 00 | VS 50, VS-80, VS-100 | |
| DATEENTRY | 401 01 | VS 50, VS-80, VS-100 | |
| DISKINIT | 500 00 | VS 50, VS-80, VS-100 | |
| DISPLAY | 305 01 | VS 50, VS-80, VS 100 | |
| EDITOR | 601 00 | VS 50, VS-80, VS 100 | |
| EZFORMAT | 111 06 | VS 50, VS 80, VS 100 | |
| FLOPPYUP | 102 00 | VS 50, VS-80, VS-100 | |
| FORMCNTL | 103 00 | VS 50, VS 80, VS-100 | |
| INQUIRY | 200 02 | VS 50, VS-80, VS 100 | |
| LINKER | 109 03 | VS 50, VS-80, VS-100 | |
| LISTVTOC | 404 00 | VS-50, VS-80, VS-100 | |
| PATCH | 107 00 | VS 50, VS 80, VS 100 | |
| PRINT | 203 00 | VS-50, VS-80, VS-100 | |
| REPORT | 400 02 | VS 50, VS 80, VS 100 | |
| SECURITY | 303 01 | VS 50, VS 80, VS 100 | |
| RT | 504 00 | VS-50, VS 80, VS 100 | |
| APECOPY | 204 00 | VS 50, VS 80, VS-100 | |
| TAPEINIT | 202 00 | VS 50, VS-80, VS-100 | |
| TRANSL | 200 00 | VS 50, VS 80, VS-100 | |
| VERIFY | 105 00 | VS 50, VS 80, VS-100 | |
| VS Word Processing | | | |
| WP | 102 02 | VS 50, VS 80 | Requires ECO 18222 |
| WP | 102 02 | VS-100 | |

2200 PRODUCT LINE

The following lists current release levels of all the supported software packages for the 2200 product line. For brief software explanations and ordering details, refer to the 2200 Software Catalog, part #700 6517.

| Product | Release | System | Comments |
|---|---------|----------------------|----------------------------------|
| 2200 Operating Systems | | | |
| VP, SVP Operating System | 2.4 | VP, SVP | |
| MVP, LVP Operating System | 2.2 | MVP, LVP | |
| 2200 Applications Software | | | |
| General Business System (GBS) | 2.3 | SVP, VPL, VLP, MVP | 2.4 is in O.A. |
| Inventory Management System | 1.1 | SVP, VP, LVP, MVP | |
| School Admin Dept Sys (SARS) | 1.0 | T, SVP, VP, LVP, MVP | |
| 2200 Word Processing (2200/WP) | 1.06 | SVP, VP, LVP, MVP | Controlled release status |
| 2200 Plotter Utilities | | | |
| Graphic Utility System | 3.1 | T, SVP, VP, LVP, MVP | |
| Plotter Utilities | 1.0 | T, SVP, VP, LVP, MVP | |
| 2200 Application, Disk, and Datafile Tools | | | |
| 11/AS, 1M | 1.3 | T, SVP, VP, LVP, MVP | Inquiry Data Entry Access System |
| 3.1/0 Diskette Compnt. Software | 1.0 | T, VP, LVP, MVP | |
| 2200 and 2200A Tape Utilities | 1.0 | T, VP, LVP, MVP | Provides 9-Track Tape Support |
| Integrated Support System (ISS) | 2.1 | T | |
| Integrated Support System (ISS) | 3.2 | T, SVP, VP, LVP | |
| Integrated Support System (ISS) | 5.2* | SVP, VP, LVP, MVP | New Release |

WORD PROCESSING SYSTEMS PRODUCT LINE

| Product | Release | System |
|-----------------------|-----------|---------------------|
| 5 Utility Diskette | 3.2 | WPS 5 |
| 5 Software Diskette | 3.2 | WPS 5 |
| WPS Utility Diskette | 18.8, 8.8 | WPS 10A, 20, 25, 30 |
| WPS Software Diskette | 8.8 | WPS 25, 30 |
| WPS Software Diskette | 18.8 | WPS 10A, 20 |

WANGWRITER PRODUCT LINE

| Product | Release | System |
|----------------------------|---------|-----------------|
| Wangwriter System Diskette | 3.0 | All Wangwriters |

OFFICE INFORMATION SYSTEMS PRODUCT LINE

The following software releases should be used as a set. Do not mix the release levels listed below with any other release levels.

| Product | Release | System |
|---------------------------------|---------|--------------------------------|
| OIS Standard Software | | |
| STARTER | F5 3 | 105, 115, 125A, 130A, 140, 145 |
| STARTER | T4 6 | 125 and 130 |
| Word Processing | 2 n | All OIS Systems |
| Word Processing Utilities | 2 J | All OIS Systems |
| Supervisory Functions | 3 4 | All OIS Systems |
| Control Functions | 1 2 | All OIS Systems |
| File Utilities | 3 4 | All OIS Systems |
| Peripherals | 5 E | All OIS Systems |
| | (5 F) | (For Twin Head Printers) |
| Peripheral Utilities | 2 1 | All OIS Systems |
| Volume Utilities | F6 1 | 105, 115, 125A, 130A, 140, 145 |
| Volume Utilities | T5 4 | 125 and 130 |
| PIO/Typesetter/Mag Card | 2 2 | All OIS Systems |
| WISE | 1 0 | 105, 115, 125A, 130A, 140, 145 |
| WP 2 n & Sup Funct 3 4 Addendum | 1 0 | All OIS Systems |
| OIS Optional Software | | |
| BASIC | 3 8 | All OIS Systems |
| Management Statistics | 1 C | 140 and 145 |
| Advanced Functions | 2 8 | All OIS Systems |
| List Processing | 2 8 | All OIS Systems but 105 |

VS TELECOMMUNICATIONS

The following TC software is available with VS Operating System 500 13:

| Product | Release | System | Comments |
|---|---------|----------------------|------------------------|
| Batch Telecommunications - Product Release 5.01.00 | | | |
| @MC2780@ | 308 00 | VS-50, VS-80, VS-100 | 2780 Emulation M code |
| @MC3780@ | 308 00 | VS-50, VS-80, VS-100 | 3780 Emulation M code |
| TCCOPY | 406 00 | VS-50, VS-80, VS-100 | 2780/3780 Batch Util |
| VSCOPY | 404 00 | VS-50, VS-80, VS-100 | VS File Transfer Util |
| 3271 Emulator Package - Product Release 5.01.00* | | | |
| @MC3271@ | 121 00 | VS-50, VS-80, VS-100 | 3271 Emulation M code |
| @MC3277C | 401 12 | VS-50, VS-80, VS-100 | 3277C Emulation M code |
| @MC3277S | 401 12 | VS-50, VS-80, VS-100 | 3277S Emulation M code |
| ATTACH | 105 00 | VS-50, VS-80, VS-100 | 3271 Attach/Detach WS |
| MASTER | 103 00 | VS-50, VS-80, VS-100 | Master Console Program |
| MCP | 501 00 | VS-50, VS-80, VS-100 | Master Control Program |
| COBINT | 107 00 | VS-50, VS-80, VS-100 | COBOL Interface |
| TRANSTABL | 100 00 | VS-50, VS-80, VS-100 | Translate Table |
| Asynchronous Telecommunications | | | |
| TTY | 104 00 | VS-50, VS-80, VS-100 | Teletype Emulation |
| ACP | 500 00 | VS-50, VS-80, VS-100 | TTY Asynch Microcode |
| Remote Workstations - Product Release 3.03.00 (Requires ECO 16626) | | | |
| @MC2246R | 401 10 | VS-50, VS-80, VS-100 | 2246R RWS Microcode |
| @MCREMWWS | 303 00 | VS-50, VS-80, VS-100 | Remote DLP Microcode |

WPS TELECOMMUNICATIONS

| Product | Release | System | Comments |
|---------|---------|---------------------|--------------------------------|
| WPS TC | T9 6 | WPS 5 | Requires Software Release 3 2 |
| WPS TC | T9 6 | WPS 10A, 20, 25, 30 | Requires Software Rel 18 8/8 8 |

OIS TELECOMMUNICATIONS

Note: Release 18 Telecommunications Software will not install properly unless the appropriate STARTER and Operating System software is installed. Also, the TC Software and the Operating System must be installed on the same volume.

| Product | Release | System | Comments |
|---------|---------|------------------------------------|--------------------------------|
| OIS TC | 1 8 | OIS 125, 130 | Requires Software Release 14 6 |
| OIS TC | 1 8 | OIS 105, 115, 125A, 130A, 140, 145 | Requires Software Release F5 3 |

2200 TELECOMMUNICATIONS

| Product | Release | System | Minimum System Software Release | Minimum TC Software Release |
|--------------------------------|---------|---|---------------------------------|-----------------------------|
| TC Support Utilities | 2 0 | T, SVP, VP, LVP, MVP | | |
| Asynchronous 1 TC | 5 0 | T, SVP, VP, LVP, MVP | | |
| Bisynchronous 1 TC | 5 0 | T, SVP, VP, LVP, MVP | | |
| Burroughs Emulation Software | 2 2 | T, SVP, VP, LVP, MVP | | |
| 3275 BSC Emulator | 1 6 | T, SVP, VP, LVP, MVP | | |
| 3271 Emulation Software | 1 8 | LVP, MVP | | |
| Remote Control and Maint (RCM) | 1 1 0 | SVP, VP, LVP, MVP as central system (VP has limitations as remote site) | | |

MAILWAY

| Product | Release | System | Minimum System Software Release | Minimum TC Software Release |
|-------------------|---------|------------------------------------|---------------------------------|-----------------------------|
| MAILWAY Level I | 1.0 | All OIS Systems | 4.2 | 1.5 |
| | 1.0 | WPS 10A, 20, 25, 30 | 18.6/8.6 | 9.2 |
| | 1.0 | WPS 5-III | 3.2 | 9.6 |
| MAILWAY Level III | 2.1* | VS-80, VS-100 | 5.00.13 | BATCH TC 501.00 |
| Glossary Version | 2.1* | All OIS Systems | 4.2 | 1.5 |
| BASIC Version** | 2.1* | OIS 125, 130 | 4.3 | 1.7 |
| BASIC Version** | 2.1* | OIS 105, 115, 125A, 130A, 140, 145 | 5.1 | 1.7 |
| Glossary Version | 2.1* | WPS 10A, 20, 25, 30 | 18.6/8.6 | 9.2 |
| Glossary Version | 2.1* | WPS 5-III | 3.2 | 9.6 |

VP/MVP CPU

| BOARD NO. | E-REV | E.C.N. | | | | | |
|-----------|-------|--------|-------|------|-------|------|---|
| 6787 | 1 | 6461 | | | | | |
| 6787-1 | 1 | 6461 | | | | | |
| 6788 | 2 | 6462 | 7434 | | | | |
| 6788-1 | 0 | | | | | | |
| 6789 | 0 | | | | | | (R1 proms did not increment the E-REV.) |
| 6790 | 6 | 6045 | 6950 | 7285 | 9460A | 9661 | 10054 |
| 6791 | 3 | 6369 | 9460A | 9661 | | | |
| 6792 | 4 | 6044 | 7306 | 7444 | 7658 | | |
| 6793 | 2 | 6062 | 6949 | | | | |
| 6793-1 | 2 | 9460A | 9661 | | | | |
| 6797 | 2 | 6533 | 7521 | | | | |
| 6798 | 3 | 6046 | 9460A | 9661 | | | |
| 7397 | 1 | 7529 | 10796 | | | | |
| 7498 | 0 | | | | | | |
| 7587 | 0 | | | | | | |

MVP MXD CONTROLLER

| | | | | | | | |
|--------|---|-------|-------|--|--|--|---|
| 7290-1 | 1 | 8057A | | | | | |
| 7291D | 2 | 8036A | 10288 | | | | (R5 proms did not increment the E-REV.) |

2236D TERMINAL

| | | | | | | | |
|--------|---|-------|-------|------|------|------|------|
| 7067 | 6 | 5876 | 6381 | 7112 | 7297 | 7280 | 7524 |
| 7156 | 1 | 8975 | | | | | |
| 7158 | 5 | 7115 | 7318 | 7426 | 7498 | 7819 | |
| 7292-1 | 5 | 8056A | 8056B | 8232 | 9210 | 9934 | |

2260 C/BC CONTROLLER

| | | | | | | | |
|------|---|------|------|-------|-------|--|--|
| 7486 | 4 | 9392 | 9462 | 9628 | 10263 | | |
| 7487 | 0 | | | | | | |
| 7488 | 3 | 9500 | 9700 | 10263 | | | |

2260B

| | | | | | | | |
|--------|---|------|-------|------|------|-------|---|
| 0341 | 5 | 2625 | 2835 | 3161 | 3563 | 4271 | |
| 6295 | 3 | 5860 | 6378 | 6605 | | | |
| 6295-1 | 5 | 5860 | 6378 | 6605 | 7168 | 7176A | |
| 6296 | 1 | 4536 | 10600 | | | | |
| 6297-3 | 1 | 6629 | | | | | |
| 6298 | 2 | 4464 | 5287 | | | | (R1 proms did not increment the E-REV.) |
| 6349 | 2 | 6604 | 6856 | | | | |
| 6349-1 | 1 | 6856 | | | | | |
| 6398-1 | 2 | 4808 | 5692 | | | | |

2270A

| | | | | | | | |
|------|---|------|------|------|------|-------|------|
| 7218 | 6 | 7319 | 7655 | 7821 | 8114 | 8517A | 8733 |
|------|---|------|------|------|------|-------|------|

(Must have 378-2256, 378-2257 proms.)

CONTROLLERS AND MUX BOARDS

| | | | | | | | | |
|--------|---|------|------|-------|-------|------|-------|-------|
| 6541-2 | 1 | 8051 | | | | | | |
| 6786-1 | 4 | 8450 | 9256 | 9650 | 9998 | | | |
| 7042-2 | 0 | | | | | | | |
| 7054-2 | 6 | 6859 | 7190 | 7190A | 7456A | 8454 | 10224 | |
| 7059-2 | 7 | 6860 | 7189 | 7457 | 7758 | 8449 | 9075 | 10225 |
| 7079 | 0 | | | | | | | |
| 7287 | 7 | 8401 | 8666 | 9010 | 9515 | 9651 | 9997 | 10518 |

2200 PERIPHERAL COMPATABILITY CHART

The following chart shows peripheral compatibility across the 2200 product line. The first column lists all 2200 peripherals by model number. Their sales status is given in the second column ('AVL' indicates a currently-available model number, 'N/A' flags peripherals which are no longer actively marketed, and 'OBS' denotes peripherals which are obsolete). A description of the peripheral appears in the next column, followed by an indication of all systems on which that peripheral can be used. Under each 2200 system heading, a 'Y' indicates that the peripheral is compatible; a blank space indicates incompatibility. An 'Opt' entry indicates that the specified option is required for use of that peripheral. This chart is an update of a similar chart which appeared in the Customer Engineering TAC Newsletter dated June 23, 1981.

| PERIPHERAL MODEL NUMBER | SALES STATUS | DESCRIPTION | 2200A | 2200B | 2200C | 2200S | 2200T | PCS | PCS2 | VP | MVP | LVP | SVP |
|--------------------------------------|-----------------|--|-------|-------|-------|----------------|-------|-----|------|----|-----|-----|-----|
| 2200WS Workstation | N/A | Independent 2200 processor which uses 2200 extended BASIC. Up to three 2200WS can be multiplexed to a fourth with a 2230MXA to share a disk. | | Y | Y | Opt.22 | Y | | | Y | Y | Y | |
| 2201 Output Writer | N/A | Modified IBM Selectric typewriter. | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| 2201L Output Writer | N/A | Modified IBM Selectric II typewriter capable of printout at 15 cps (characters per second). | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2202 Plotting Output Writer | N/A | Modified IBM Selectric II typewriter capable of plotting and printing at 15 cps. | | Y | Y | Y | Y | | | | | | |
| 2203 Paper Tape Reader | N/A | Reads punched paper tape at 30 cps. | | Y | Y | Opt.22 | Y | | | Y | | | |
| 2207 Interface Controller | OBS | Obsolete RS232C Controller (use 2207A). | | | | | | | | | | | |
| 2207A Interface Controller | N/A | Interface 2200 Series CPU with RS232C compatible device. Not a buffered controller. | Y | Y | Y | Y | Y | | | Y | | | |
| 2209 Tape Drive | N/A | Nine track tape drive capable of reading or writing 800 bpi (bits per inch) tapes. | | | Y | | Y | | | Y | | | |
| 2209A Tape Drive | AVL | Nine track tape drive capable of reading or writing 1600 bpi tapes. | | | Y | Opt.23 & 24 | Y | | | Y | Y | Y | |
| 2210A CRT/Keyboard/ Mini-diskette | N/A | A 2200 Series console which combines a 64x16 screen with a BASIC keyword keyboard and either one or two SSSD mini-diskette drives. | | Y | Y | Y | Y | | | Y | | | |
| 2210B CRT/Keyboard/ Mini-diskette | N/A | A 2200 Series console which combines a 80x24 screen with a BASIC keyword keyboard and either one or two SSSD mini-diskette drive. | | Y | Y | Y | Y | | | Y | | | |
| 2211M Printer Multiplexer | AVL | Allows one 2200 Series printer or plotter (except the 2232 flatbed plotter) to be shared by up to four 2200 Series CPU's. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2212 Analog Plotter | N/A | A Flatbed Plotter for point or continuous line plotting. | | Y | Y | Opt.22 | Y | | | Y | | | |
| 2216A CRT | N/A | CRT console used commonly with 2212 or 2223 keyboards. | Y | Y | Y | Y | Y | | | Y | | | |
| 2216A/2217 CRT/ Cassette | N/A | Combined 2216A CRT with a single cassette drive. | Y | Y | Y | Y | Y | | | | | | |
| 2217 Cassette | N/A | Single cassette drive to store BASIC programs and sequential data. | Y | Y | Y | Y | Y | | | | | | |
| 2218 Cassette | N/A | Dual cassette drive to store BASIC programs and sequential data. | Y | Y | Y | Y | Y | | | | | | |

(continued)

| PERIPHERAL MODEL NUMBER | SALES STATUS | DESCRIPTION | 2200A | 2200B | 2200C | 2200S | 2200T | PCS | PCS2 | VP | MVP | LVP | SVP |
|---|-----------------|--|-------|-------|-------|--------|-------|---------|---------|----|-----|-----|------------------|
| 2219 Extension Chassis | N/A | CPU option to allow for five additional I/O slots. Adds 6 inches to length of CPU. | Y | Y | Y | | | | | | | | |
| 2220 CRT/Keyboard/ Cassette | N/A | A combined CRT/BASIC keyboard and single cassette drive. | Y | Y | Y | Y | Y | | | | | | |
| 2221M Printer Multiplexer | OBS | Obsolete printer multiplexer. Same capabilities as 2211M, but mechanical. | | | | | | | | | | | |
| 2221W Printer | N/A | High-quality full ASCII set printer; upper and lower case characters; 132 characters per line. 200 cps output. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2222 Keyboard | N/A | Combined keyboard with both standard or BASIC keywords. Also has editing keys. | Y | Y | Y | Y | Y | | | Y | | | |
| 2224 Disk Multiplexer | N/A | Disk multiplexer to allow up to four CPUs to share a disk. | | Y | Y | Y | Y | | | | | | |
| 2226A Terminal | N/A | Combines a 64x16 CRT with a BASIC keyboard. | Y | Y | Y | Y | Y | | | Y | | | |
| 2226B Terminal | N/A | Combines a 80x24 CRT with a BASIC keyboard. | Y | Y | Y | Y | Y | | | Y | | | |
| 2227 Interface Controller | OBS | Obsolete controller. Should be upgraded to 2227B controller. | | | | | | | | | | | |
| 2227B Interface Controller | AVL | Allows either Asynchronous telecommunications or interface to an RS232C device. Needs \$GIO instruction set. | | Y | Y | Y | Y | Opt.62 | Opt.62 | Y | Y | Y | Opt.27B |
| 2228 Interface Controller | OBS | Obsolete controller, should be upgraded to 2228B controller. | | | | | | | | | | | |
| 2228B/2228C Interface Controller | AVL | Allows all the capabilities of 2227B plus synchronous telecommunications, using 2780, 3780, Hasp, Burroughs and 2200-2200 protocols. | | | | Opt.24 | Y | Opt.62B | Opt.62B | Y | Y | Y | Opt.28B & 28C |
| 2228C - 28B + 19M 3279 EMULATION | | | | | | | | | | | | | |
| 2230 Disk | N/A | Fixed removable disk providing storage of 1.25, 2.5 and 5 megabytes. | | Y | Y | | Y | | | Y | Y | Y | Y |
| 2230MXA/2230MXB Disk Multiplexer | N/A | Permits a disk to be shared by a maximum of four separate 2200 Series CPUs. | | Y | Y | Opt.23 | Y | | | Y | Y | Y | |
| 2231 Printer | N/A | Full ASCII character set matrix printer. Prints 80 columns maximum at 100 cps. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2231W-1 Printer | N/A | Full ASCII character set matrix printer at 120 cps, 10 pitch, 110 column. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2231W-2 Printer | N/A | Full ASCII character set matrix printer at 120 cps, 12 pitch, 132 columns per line. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2231W-3 Printer | AVL | Full ASCII character set matrix printer at 120 cps, 14.4 pitch, 132 column. May be used to plot output of 2282 graphic CRT. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2231W-6 Printer | AVL | Full ASCII character set matrix printer at 70 cps. Letter quality, print quality, 10 or 12 pitch, 132 column. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2232A Plotter | N/A | Flatbed Plotter with bed size of 31x48". Stepping increment of .0025m. | | Y | Y | Opt.22 | Y | | | Y | Y | Y | |
| 2232B Plotter | AVL | Flatbed Plotter with bed size of 31x48". More accurate than 2232A. Special product. | | Y | Y | Opt.22 | Y | | | Y | Y | Y | |

(continued)

| PERIPHERAL MODEL NUMBER | SALES STATUS | DESCRIPTION | 2200A | 2200B | 2200C | 2200S | 2200T | PCS | PCS2 | VP | MVP | LVP | SVP |
|----------------------------|-----------------|---|-------|-------|-------|---------|-------|--------|--------|----|-----|-----|-----|
| 2233 Matrix Printer | AVL | 10 pitch and 12.2 pitch. Special control sequence pitch selection. 120 12.2-pitch characters per second. 100 10-pitch characters per second. | | | | | | | Y | Y | Y | Y | |
| 2234A Card Reader | OBS | Hopper feed card reader, able to read punched cards at a rate of 300 cards per minute. | | | | | | | | | | | |
| 2235 Matrix Printer | AVL | 132 character line at 10 pitch and 158 character line at 12.2 pitch. 181 10-pitch characters per second and 222 12.2-pitch characters per second. | | | | | | | | Y | Y | Y | Y |
| 2236 Terminal | OBS | Obsolete, use either 2236D or 2236DE terminal. | | | | | | | | | | | |
| 2236MXC Terminal Processor | OBS | Obsolete, use 2236 MXD terminal | | | | | | | | | | | |
| 2236D Terminal | N/A | Interactive terminal. Connects to either 2236MXD, 22C32 controller or directly to SVP. | | | | | Y | | | Y | Y | Y | Y |
| 2236DE Terminal | AVL | Interactive terminal. All features of 2236D plus repeating keys, multiple field attributes and business graphics. | | | | | Y | | | Y | Y | Y | Y |
| 2236DW Terminal | AVL | Interactive terminal. Supports WP. All features of 2236D plus repeating keys, multiple field attributes and business graphics. | | | | | Y | | | Y | Y | Y | Y |
| 2241 Printer | N/A | Thermal printer using matrix characters. Printing speed of 30 characters per second using 8 1/2 inch roll of heat sensitive paper. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2242 Diskette Drive | N/A | Double removable diskette drive using .25 megabyte 'Memorex' diskettes. | | Y | Y | Opt.23 | Y | | | Y | | | |
| 2243 Diskette Drive | N/A | Triple removable diskette drive using .25 megabyte 'Memorex' diskettes. | | Y | Y | Opt. 23 | Y | | | Y | | | |
| 2244A Card Reader | N/A | Hopper feed card reader able to read mark sense or punched cards at a speed of 300 cards per minute. | | Y | Y | Y | Y | | | Y | | | |
| 2244B Card Reader | AVL LATER | Same specifications as 2244A but compatible with LVP and MVP. | | Y | Y | Y | Y | | | Y | Y | Y | |
| 2245 Matrix Printer | AVL | Reproduces the character sets of the 2236DE and 2236DW terminals in 10 and 16.5 pitch. | | | | | | | | Y | Y | Y | Y |
| 2250 Interface Controller | AVL | 8-bit parallel input/output controller. Not a buffered controller. Needs \$GIO commands. | | Y | Y | Y | Y | Y | Y | Y | | | |
| 2251 Printer | N/A | Compact matrix printer, has 40 character line. Uses only 3 3/4 inch paper. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2252 Interface Controller | OBS | Obsolete, use 2252A Interface Controller. | | | | | | | | | | | |
| 2252A Interface Controller | AVL | Scanning input (10 digit BCD) controller. Input only; not a buffered controller. Needs \$GIO commands. | Y | Y | Y | Y | Y | | | Y | | | |
| 2254 Interface Controller | AVL | I-EEE compatible I/O interface controller, not a buffered controller. Needs \$GIO commands. | | Y | Y | Y | Y | Opt.65 | Opt.65 | Y | | | |
| 2260 Disk Drive | N/A | Fixed/removable disk drive providing storage capacity of 2.5, 5, 10, 20 megabytes divided evenly between two platters. | Y | Y | Y | Opt.23 | Y | | | Y | | | |

(continued)

| PERIPHERAL MODEL NUMBER | SALES STATUS | DESCRIPTION | 2200A | 2200B | 2200C | 2200S | 2200T | PCS | PCS2 | VP | MVP | LVP | SVP |
|---|-----------------|---|-------|-------|--------|--------|-------|-----|------|----|-----|-----|-----|
| 2260B Disk Drive | N/A | Fixed/removable disk drive providing storage capacity of 2.5, 5, 10, 20 megabytes divided evenly between two platters. | Y | Y | Y | Opt.23 | Y | | | Y | Y | Y | |
| 2260BC Disk Drive | AVL | Fixed/removable disk drive providing storage capacity of 2.5, 5, 10, 20 megabytes divided evenly between two platters. Uses 22C13 controller and needs 2230MXA-1. | | | | | Y | | | Y | Y | Y | |
| 2260C Disk Drive | AVL | Fixed/removable disk drive providing storage capacity of 2.5, 5, 10, 20 megabytes. Multiplexible 22C13. Uses 22C12 controller. | | | | | Y | | | Y | Y | Y | |
| 2261 Printer | N/A | Matrix printer using two bi-directional printing heads. Prints at 330 cps with maximum of 132 characters per line. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2261W Printer | N/A | Matrix printer using four bi-directional matrix print heads. Prints maximum of 136 or 160 character line at 10 or 12 pitch at a speed of 240 lines per minute. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2262 Digitizer | N/A | X-Y Digitizer input device. | Y | Y | Opt.22 | Y | | | | | | | |
| 2263-1 Printer | N/A | Chain printer printing 400 LPM at a 10 pitch, up to 132 columns with 64 character set. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2263-2 Printer | N/A | Same capabilities as 2263-1, but prints at 600 LPM. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2263-3 Printer | N/A | Chain printer printing 430 LPM, Y at 10 pitch. Up to 132 columns with a 96 character set. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2270 Diskette Drive 2270-1 one drive 2270-2 two drives 2270-3 three drives | N/A | Diskette drive able to read Wang SSSD .25 megabyte diskette. | Y | Y | Opt.23 | Y | | | Y | | | | |
| 2270A Diskette Drive 2270A-1 one drive 2270A-2 two drives 2270A-3 three drives | AVL | Diskette drive capable of reading SSSD Wang diskette or IBM '3741' format diskettes. | | Y | Y | Opt.23 | Y | | | Y | | | |
| 2271 Printer | N/A | Modified IBM Selectric typewriter that prints bi-directional at a rate of 15 cps in either 10 or 12 pitch. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2271P Printer | N/A | Same capabilities of 2271 but also has the capability to plot or perform form filling applications. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2272-1 Plotter | N/A | Single pen drum plotter with a built-in alphanumeric character set. Accuracy of .01 inch. Paper width of 16 inches is mandatory. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2272-2 Plotter | AVL | Same capabilities as 2272-1 but has three pens. | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2273 Printer 2273-1 prints 250 LPM 2273-2 prints 600 LPM | AVL | Microprocessor controlled band printer. Has both programmable VFU or form selector switch. Prints 132 columns at 10 pitch. Print fonts bands easily changeable. | Y | Y | Y | Opt.22 | Y | Y | Y | Y | Y | Y | Y |
| 2280/2280N Disk Drive | AVL | High speed fixed/removable disk drive, using disk cache technology. 2280N comes without 22C14 DPU. 2280 includes 22C14 disk DPU. | | | | | | | | | | | |
| 2280-1/2280N-1 has 13.4 MB removable, 13.4 MB fixed. | | | | | | | | Y | Y | Y | | | |
| 2280-2/2280N-2 has 13.4 MB removable, 40.2 MB fixed. | | | | | | | | Y | Y | Y | | | |
| 2280-3/2280N-3 has 13.4 MB removable, 67 MB fixed. | | | | | | | | Y | Y | Y | | | |

(continued)

CUSTOMER ENGINEERING
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NEWSLETTER

#10623

IV.A.1

2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART

PLEASE NOTE!! This applies to the complete 2200 Product Line.

M E M O R A N D U M

TO: Distribution
FROM: Frank Andreano
DATE: June 12, 1981
SUBJ: 2200 PRODUCT COMPATIBILITY

Attached is a chart supplied by marketing, showing what units and sub-units are compatible across the 2200 product line. This chart was recently put together by the 2200 Home Office Marketing staff to clarify many problems dealing with upgrades and configurations.

This should answer the major field questions passed to me concerning the 2250 and 2230 controllers. This is the official marketing position. Any deviations should be flagged as unsupported. Any questions from customers should be referred to their local sales office. Questions that cannot be handled at that level should be escalated through proper channels to Home Office Marketing.

There are special products that are in the Special Products Price List that have been developed to fill in some unsupported areas. They are specially adapted hardware using special, customer supplied software (GIO) to operate properly. These designs meet specific needs and are not necessarily 100% functional beyond the specific use they were developed for.

Frank Andreano, Supervisor
VS/MVP Product Support

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IV.A.1
2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | A | B | C | S | T | P | V | N | L | S | P |
|--------------------------------------|--------|--|---|---|---|---|---|---|---|---|---|---|---|
| 2200WS Work Station | Av1 | Independent 2200 processor which uses 2200 extended Basic. Up to 3 2200WS' can be multiplexed to a fourth 2200 with a 2230MXA to share a disk. | Y | Y | Q | Y | | | Y | Y | Y | | |
| 2201 Output Writer | N/A | Modified IBM Selectric Typewriter | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| 2201L Output Writer | N/A | Modified IBM Selectric II type-writer capable of printout at 15 cps. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2202 Plotting Output Writer | N/A | Modified IBM Selectric II type-writer capable of plotting and printing at 15 cps. | Y | Y | Y | Y | | | | | | | |
| 2207 Interface Controller | N/A | Obsolete RS232C Controller (use 2207A) | | | | | | | | | | | |
| 2207A Interface Controller | N/A | Interface 2200 Series CPU with RS232C compatible device. Not a buffered controller. | Y | Y | Y | Y | Y | | Y | | | | |

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IV.A.1
 2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | A | B | C | S | T | P | P | V | M | L | S | P |
|---------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2209 | N/A | Nine track tape drive capable of reading or writing 800 BPI tapes | | | | | | Y | Y | | | | | |
| 2203 | N/A | Reads punched paper tape at 30 character per second. | | | | | | Y | Y | 0 | Y | | Y | |
| 2209A | Avl. | Nine track tape drive capable of reading or writing 1600 BPI tapes. | | | | | | Y | 0 | Y | | | Y | Y |
| 2210A | Avl. | A 2200 Series console which combines a 64x16 screen with a BASIC keyword keyboard and either one or two SSSD minidiskette drives. | | | | | | Y | Y | Y | Y | | Y | |

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IV.A.1

2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | A | B | C | S | T | P | V | M | L | S | P |
|---------|--------|--|---|---|---|---|---|---|---|---|---|---|---|
| 2210B | Avl. | A 2200 Series console which combines a 80x24 screen with a BASIC keyword keyboard and either one or two SSSD minidiskette drive. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2211M | Avl. | Allows one 2200 Series printer or plotter except the 2232 Flatbed Plotter, to be shared by up to four 2200 Series CPU's. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2212 | N/A | A Flatbed Plotter for point or continuous line plotting. | Y | Y | 0 | Y | Y | Y | Y | Y | Y | Y | Y |
| 2214 | N/A | A mark sense card reader that will manually input marked sense cards. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2215 | N/A | Keyboard with ability to input both standard characters or BASIC keywords. | Y | Y | Y | 0 | Y | Y | Y | Y | Y | Y | Y |

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IV.A.1
 2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | A | B | C | S | T | P | V | H | L | S | P |
|---------|--------|---|---|---|---|---|---|---|---|---|---|---|---|
| 2231W-3 | Avl. | Full ASCII character set matrix printer at 120 cps, 14.4 pitch, 132 column. May be used to plot output of a 2282 graphic CRT. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2231W-6 | Avl. | Full ASCII character set matrix printer at 70 cps. Letter quality print quality, 10 or 12 pitch, 132 column. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2232A | N/A | Flatbed plotter with bed size of 31x48". Stepping increment of .0025m. | Y | Y | 0 | Y | | Y | | Y | Y | Y | |
| 2232B | N/A | Flatbed plotter with bed size of 31x48". More accurate than 2232A.. | Y | Y | 0 | Y | | Y | | Y | Y | Y | |
| 2234A | Obs. | Hopper feed card reader, able to read punched cards at a rate of 300 cards per minute. | Y | Y | Y | Y | | Y | | Y | Y | | |

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IV.A.1

2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | A | B | C | S | T | P | V | H | L | S | P |
|----------------|--------|--|---|---|---|---|---|---|---|---|---|---|---|
| 2242 | N/A | Double removable diskette drive using .25 megabyte "memorex" diskettes. | Y | Y | 0 | Y | | Y | | | | | |
| 2243 | N/A | Triple removable diskette drive using .25 megabyte "memorex" diskettes. | Y | Y | 0 | Y | | Y | | | | | |
| 2244A | N/A | Hopper feed card reader able to read mark sense or punched cards at a speed of 300 cards per minute. | Y | Y | Y | Y | | Y | | | | | |
| 2244B | Avl. | Same specifications as 2244A but compatible with LVP and MVP. | Y | Y | Y | Y | | Y | Y | Y | | | |
| 2250 OPT 67 | Avl. | 8 bit parallel input/output controller. Not a buffered controller - needs ;GIO commands. | Y | Y | Y | Y | Y | Y | Y | | | | Y |

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**IV.A.1
2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.**

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | A | B | C | S | T | P | P | V | M | L | S | P |
|---|--------|--|---|---|---|---|---|---|---|---|---|---|---|---|
| 2251 Printer | Avl. | Compact matrix printer, has 40 character line uses only 3 3/4" paper. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 2252 Interface Controller | N/A | Obsolete, use 2252A interface controller. | | | | | | | | | | | | |
| 2252A Interface Controller | Avl. | Scanning input (10 digit BCD) controller. Input only and not a buffered controller. Needs ;GIO commands. | Y | Y | Y | Y | Y | | | Y | | | | |
| 2254 OPT 65 Interface Controller | Avl. | I-EEE compatible I/O interface controller, not a buffered controller - needs ;GIO commands. | Y | Y | Y | Y | 0 | 0 | Y | | | | 0 | |
| 2260 Disk Drive | N/A | Fixed/removable disk drive providing storage capacity of 2.5, 5, 10, 20 megabytes divided evenly between two platters. | Y | Y | Y | 0 | Y | | | Y | | | | |

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2200 SYSTEMS-MAINFRAMES-A/B/C/S/T CPU'S.

TOPIC: 2200 PRODUCT COMPATIBILITY MEMO & CHART (continued)

| MODEL # | STATUS | DESCRIPTION | 1 | 2 | 3 |
|---------|---------|--------------------------------|---|---|---|
| 2291 | Avl. | For 2232 Flatbed plotter. | | | |
| | Plotter | | | | |
| | Stand | | | | |
| 2292 | | Auxillary CRT for multi-viewer | Y | Y | Y |
| CRT | | capabilities. | | | |

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IV.A.3

2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES

PREFACE

The 2200 systems continue to grow in size and complexity. At one time these systems could be installed almost anywhere with no problems. This is no longer true. Because of the addition of large disks, multiple users, and other sophisticated peripherals, more care must be taken in site preparation.

All power grounds should be isolated back to the main distribution panel. Power should be noise free. I/O cables shields must be tightened down with a screw driver. Humidity should be kept at a reasonable level. If these steps are taken and proper updates and preventative maintenance are done, you should alleviate many system problems.

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

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| CHAPTER 2. | 2200 I/O CONTROLLER LISTING | 5 |
| CHAPTER 3. | 2200 STATIC PROBLEMS (CABLES) | 15 |
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RELATED DOCUMENTATION

| | |
|--|-----------|
| REPRINT FOR LINE DISTURBANCE ANALYZERS | 729-0894 |
| MODEL 4048A ESD/HYPOT TESTER | 729-1002A |
| SYSTEMS INSTALLATION GUIDE | 729-0907 |

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TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
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2200 I/O PERIPHERAL LISTING

| PERIPHERAL | DESCRIPTION |
|--------------|---|
| 2201 | !OUTPUT WRITER |
| 2201L | !CHARACTER PRINTER |
| 2202 | !PLOTTING OUTPUT WRITER |
| 2203 | !PUNCHED TAPE READER |
| 2207 | !RS-232-C INPUT/OUTPUT INTEREACE WITH FIXED BAUD RATE |
| 2207A | !RS-232-C I/O INTEREACE WITH SELECTABLE BAUD RATE |
| 2209 | !NINE TRACK MAG. TAPE DRIVE |
| 2209A | !NINE TRACK TAPE DRIVE (1600 BPI-PE) |
| 2212 | !ANALOG FLATBED PLOTTER |
| 2214 | !MARK SENSE CARD READER |
| 2215 | !BASIC KEYWORD KEYBOARD |
| 2217 | !SINGLE CASSETTE DRIVE |
| 2218 | !DUAL CASSETTE DRIVE |
| 2220 | !INTEGRATED CONSOLE |
| 2221 | !LINE PRINTER |
| 2221W | !MATRIX LINE PRINTER |
| 2222 | !ALPHANUMERIC TYPEWRITER KEYBOARD |
| 2223 | !ALPHANUMERIC BASIC KEYWORD KEYBOARD |
| 2226 | !COMBINATION VIDEO DISPLAY/U/L CASE KEYWORD KEYBOARD |
| 2227 | !TELECOMMUNICATIONS CONTROLLER |
| 2227B | !BUFFERED ASYNCHRONOUS COMMUNICATIONS CONTROLLER |
| 2228/28B/28C | !BINARY SYNCHRONOUS COMMUNICATIONS CONTROLLER |
| 2228D | !BINARY SYNCHRONOUS COMMUNICATIONS CONTROLLER |
| 2230-1,2,3 | !FIXED/REMOVABLE DISK DRIVE |
| 2230MXA | !MASTER DAISY-CHAIN DISK MUX CONTROLLER |
| 2230MXB | !SLAVE DAISY-CHAIN DISK MUX CONTROLLER |
| 2231 | !LINE PRINTER |
| 2231W-1,2,6 | !MATRIX LINE PRINTERS |
| 2231W-3 | !AUX. PRINTER FOR THE 2232 GRAPHICS TERMINAL |
| 2232A/B | !DIGITAL FLATBED PLOTTER |
| 2233 | !MATRIX LINE PRINTER |
| 2234/34A | !HOPPER FEED PUNCHED CARD READER |
| 2235 | !MATRIX LINE PRINTER |
| 2236D/DE/DW | !INTERACTIVE TERMINAL |
| 2236DE/DW | !LOW COST INTERACTIVE TERMINAL |
| 2240-1,2 | !DUAL REMOVABLE FLEXIBLE DISK DRIVE |

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TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
 (CONTINUED)

| PERIPHERAL | DESCRIPTION |
|----------------|--|
| 2241 | !THERMAL PRINTER |
| 2242 | !SINGLE REMOVABLE FLEXIBLE DISK DRIVE |
| 2243 | !TRIPLE REMOVABLE FLEXIBLE DISK DRIVE |
| 2244/44A | !HOPPER FEED, MARK SENSE/PUNCHED CARD READER |
| 2245 | !MATRIX LINE PRINTER |
| 2250A | !8 BIT PARALLEL I/O INTEREACE |
| 2251 | !MATRIX LINE PRINTER |
| 2252/52A | !SCANNING INPUT INTEREACE |
| 2254 | !IEEE 488 INTEREACE |
| 2260/60BC/60C | !FIXED/REMOVABLE DISK DRIVES |
| 2261/61W | !MATRIX LINE PRINTER |
| 2262-1,2,3 | !DIGITIZER |
| 2263 | !CHAIN TRAIN PRINTER |
| 2270 | !REMOVABLE DISKETTE DISK DRIVE |
| 2270A-1D,2D,3D | !IBM 3740 COMPATIBLE DISKETTE DRIVE |
| 2271 | !BIDIRECTIONAL OUTPUT WRITER |
| 2272-2 | !TRIPLE PEN DRUM PLOTTER |
| 2273 | !BAND PRINTER |
| 2280-1,2,3 | !FIXED REMOVABLE DISK DRIVE (PHOENIX) |
| 2281 | !DAISY OUTPUT WRITER |
| 2281P | !DAISY PLOTTING OUTPUT WRITER |
| 2281W | !WANG DAISY OUTPUT WRITER |
| 2282 | !GRAPHICS CRT PLOTTER |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

2200 I/O CONTROLLER LISTING

| TYPE OF CONTROLLER | TYPE OF SYSTEM | | | TYPE OF SYSTEM | | | MVP | LVP |
|--------------------|----------------|---|---|----------------|---|----|-----|-----|
| | A | B | C | S | T | VP | | |
| 2201 | | | | | | | | |
| 210-6741 | - | - | - | x | x | x | - | - |
| 210-7042 | - | - | - | x | x | x | - | - |
| was 6742 | | | | | | | | |
| 210-6368 | x | x | x | x | x | - | - | - |
| 2201L | | | | | | | | |
| 212-3012 | - | - | - | - | - | x | x | - |
| 210-7042 | - | - | - | x | x | x | - | - |
| was 6742 | | | | | | | | |
| 210-7342 | - | - | - | - | - | x | x | x |
| 2202 | | | | | | | | |
| 210-6741 | - | - | - | OP-22 | x | x | - | - |
| 210-7042 | - | - | - | min. | x | x | - | - |
| was 6742 | | | | req. | | | | |
| 210-6368 | - | x | x | | x | - | - | - |
| was 6318 | | | | | | | | |
| 2203 | | | | | | | | |
| 210-6374 | | | | OP-22 | x | x | - | - |
| | | | | min. | | | | |
| | | | | req. | | | | |
| 2207 | | | | | | | | |
| 210-6362-1 | x | x | x | x | x | - | - | - |
| 2207A | | | | | | | | |
| 210-2209A | x | x | x | x | x | - | - | - |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

| TYPE OF CONTROLLER | TYPE OF SYSTEM | | | S | T | VP | MVP | LVP |
|--|----------------------|-----------------------|-----------------------|--------------------------------|---|----|-----|-----|
| | A | B | C | | | | | |
| 2209 210-6394 | - | OP-2 & 12K req. | OP-2 & 12K req. | OP-23 & 12K min. req. | | x | - | - |
| 2209AV 212-2209A | - | - | - | - | - | x | x | x |
| 2212 210-7042 was 6742 210-6741 210-6561 was 6368 | - | - | - | OP-23 min. req. | x | x | - | - |
| | - | x | x | | x | - | - | - |
| 2214 210-6541- 14 was 6375-14 | x | x | x | Op-22 min. req. | x | - | - | - |
| 2215 210-6367 was 6317 | OP-3 min. req. | OP-3 min. req. | x | x | x | - | - | - |
| 2216 210-6312 50HZ 6350 | x | x | x | x | x | - | - | - |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

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| TYPE OF CONTROLLER | | | | TYPE OF SYSTEM | | | | |
|----------------------|------------------------|------------------------|---------------|----------------|---------------|----|-----|-----|
| | A | B | C | S | T | VP | MVP | LVP |
| 2217 | | | | | | | | |
| 210-6741 | - | - | - | x | x | - | - | - |
| 210-6316 | x | x | x | x | x | - | - | - |
| 2218 | | | | | | | | |
| 210-6741 | - | - | - | x | x | - | - | - |
| 210-6388 was 6316 | x | x | x | x | x | - | - | - |
| 2220 | | | | | | | | |
| 210-6562 | OP-3& OP-30 req. | OP-3& OP-30 req. | OP-30 req. | OP-30 req. | OP-30 req. | - | - | - |
| 2221 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 2221 cont. | | | | | | | | |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
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| TYPE OF CONTROLLER | | | | TYPE OF SYSTEM | | | MVP | LVP |
|------------------------|---|---------------|---------------|----------------|---|----|-----|-----|
| | A | B | C | S | T | VP | | |
| 2227 210-6362 | | OP-2 recom | OP-2 recom | OP-23 recom | x | - | - | - |
| 2227B 212-2227-B | - | - | - | - | x | x | x | x |
| 2228 210-6723 | - | OP-2 recom | OP-2 recom | OP-23 recom | x | - | - | - |
| 2228B 177-2228B | - | - | - | - | x | x | x | x |
| 2228C 177-2228-C | - | - | - | - | x | x | x | x |
| 2228D 212-2228-D | - | - | - | - | x | x | x | x |
| 2230-1,2,3 210-6375 | x | x | x | x | x | x | - | - |
| 210-6541 | x | x | x | x | x | x | - | - |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | - | - |
| 210-7342 | x | x | x | x | x | x | - | - |
| 212-3012 | - | - | - | - | - | x | - | - |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
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| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | | MVP | LVP |
|-----------------------|---|---|---|----------------|---|----|-----|-----|
| | | | | S | T | VP | | |
| 2230MXA 187-2225-A | - | x | x | OP-24 req. | x | x | x | x |
| 2230MXB 187-2225-B | - | x | x | OP-24 req. | x | x | x | x |
| 2231 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2231W1,2,6 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
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| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | | MVP | LVP |
|--------------------|---|---|---|----------------|---|----|-----|-----|
| | | | | S | T | VP | | |
| 2231W-3 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2232A,B | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 210-6961 | x | x | x | x | x | x | x | x |
| 2233 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
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| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | | MVP | LVP |
|----------------------------------|---|---|---|-----------------------|---|----|-----|-----|
| | | | | S | T | VP | | |
| 2234/34A 210-6534 was 6225 | x | x | x | OP-22 min. req. | x | x | - | - |
| 2235 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2236D/DE/W | | | | | | | | |
| 167-3236-1 | - | - | - | - | - | - | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2336DE/DW | | | | | | | | |
| 167-3236-1 | - | - | - | - | - | - | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2240-2 | | | | | | | | |
| 210-6375 | x | x | x | x | x | x | x | x |
| 210-6541 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
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| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | | MVP | LVP |
|--------------------|---|---|---|----------------|---|----|-----|-----|
| | | | | S | T | VP | | |
| 2241 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2242 | | | | OP-24 | | | | |
| 210-6375 | x | x | x | x | x | x | x | x |
| 210-6541 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2243 | | | | | | | | |
| 210-6741 | - | - | - | OP-24 | x | x | - | - |
| 210-7042 | - | - | - | min. | x | x | - | - |
| was 6742 | | | | req. | | | | |
| 210-6541-1 | - | x | x | | x | x | - | - |
| 210-6541-2 | - | - | - | | - | x | x | x |
| 2244/44A | | | | OP-22 | | | | |
| 210-6534 | x | x | x | min. | x | x | - | - |
| was 6522 | | | | req. | | | | |

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| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | | MVP | LVP |
|------------------------|---|---|---|----------------|---|----|-----|-----|
| | | | | S | T | VP | | |
| 2252A 210-6533 | x | x | x | x | x | x | - | - |
| 2254 ???-???? | - | - | - | x | x | x | - | - |
| 2260 210-6375 | x | x | x | x | x | x | x | x |
| 210-6541 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2260BC/C 212-2260C2 | - | - | - | - | x | x | x | x |
| 212-2260C5 | - | - | - | - | x | x | x | x |
| 212-2260C1 | - | - | - | - | x | x | x | x |
| 212-2260C4 | - | - | - | - | x | x | x | x |
| 212-2260C | - | - | - | - | x | x | x | x |
| 212-2260C3 | - | - | - | - | x | x | x | x |

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TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | | MVP | LVP |
|--------------------|---|---|---|----------------|---|----|-----|-----|
| | | | | S | T | VP | | |
| 2261/61W | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2262-1,2,3 | | | | | | | | |
| 210-6533 | x | x | x | OP-22 | x | x | - | - |
| 210-6592 | x | x | x | req. | x | x | - | - |
| 2270 | | | | | | | | |
| 210-6375 | x | x | x | x | x | x | x | x |
| 210-6541 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2270A1,2,3 | | | | | | | | |
| 210-6375 | x | x | x | x | x | x | x | x |
| 210-6541 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

| TYPE OF CONTROLLER | | | | TYPE OF SYSTEM | | | MVP | LVP |
|--------------------|---|---|---|----------------|---|----|-----|-----|
| | A | B | C | S | T | VP | | |
| 2271 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2272-2 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2273 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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IV.A.3

2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

| TYPE OF CONTROLLER | A | B | C | TYPE OF SYSTEM | | VP | MVP | LVP |
|--------------------|---|---|---|----------------|---|----|-----|-----|
| | | | | S | T | | | |
| 2280-1,2,3 | | | | | | | | |
| 210-6375 | - | - | - | - | - | x | x | x |
| 210-6541 | - | - | - | - | - | x | x | x |
| 210-6741 | - | - | - | - | - | x | - | - |
| 210-6742 | - | - | - | - | - | x | - | - |
| 210-7042-A | - | - | - | - | - | x | - | - |
| 210-7042-2 | - | - | - | - | - | x | x | x |
| 210-7342 | - | - | - | - | - | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2281 | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |
| 2281P | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x |
| 210-6741 | x | x | x | x | x | x | - | - |
| 210-6742 | x | x | x | x | x | x | - | - |
| 210-7042-A | x | x | x | x | x | x | - | - |
| 210-7042-2 | x | x | x | x | x | x | x | x |
| 210-7079 | x | x | x | x | x | x | x | x |
| 210-7342 | x | x | x | x | x | x | x | x |
| 212-3012 | - | - | - | - | - | x | x | x |

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IV.A.3

2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

| TYPE OF CONTROLLER | | | | TYPE OF SYSTEM | | | | | |
|--------------------|---|---|---|----------------|---|----|-----|-----|--|
| | A | B | C | S | T | VP | MVP | LVP | |
| 2281W | | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x | |
| 210-6741 | x | x | x | x | x | x | - | - | |
| 210-6742 | x | x | x | x | x | x | - | - | |
| 210-7042-A | x | x | x | x | x | x | - | - | |
| 210-7042-2 | x | x | x | x | x | x | x | x | |
| 210-7079 | x | x | x | x | x | x | x | x | |
| 210-7342 | x | x | x | x | x | x | x | x | |
| 212-3012 | - | - | - | - | - | x | x | x | |
| 2282 | | | | | | | | | |
| 210-6379 | x | x | x | x | x | x | x | x | |
| 210-6741 | x | x | x | x | x | x | - | - | |
| 210-6742 | x | x | x | x | x | x | - | - | |
| 210-7042-A | x | x | x | x | x | x | - | - | |
| 210-7042-2 | x | x | x | x | x | x | x | x | |
| 210-7079 | x | x | x | x | x | x | x | x | |
| 210-7342 | x | x | x | x | x | x | x | x | |
| 212-3012 | - | - | - | - | - | x | x | x | |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
 (CONTINUED)

| TYPE OF CONTROLLER | E | TYPE OF SYSTEM F | PCS II | PCS III |
|--|---|---------------------|--------|---------|
| OP-61 210-7061 KIT # 177-22EF-61 | x | x | x | - |
| OP-62 210-7153 KIT # 177-22EA-62 | x | x | x | x |
| OP62B 210-7153-1 KIT # 177-22EA-62 | x | x | x | x |
| OP-65 210-7154 KIT # 177-22EE-65 | x | x | x | x |
| OP-67 210-7155 KIT # 177-22EE-67 | x | x | x | x |

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IV.A.3

2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

2200 STATIC PROBLEMS (CABLES)

Ninety percent of the static problems on 2200 systems are caused by defective or nonshielded cables. At this time, all parallel cables have been, or are in the process of being updated with braided shields for better static prevention. Below is a list of new or updated cables for the 2200 peripherals. If static and cables are not shielded properly, replace them with new cables.

| Peripheral | Old Cable | New Cable | |
|------------|-------------|--------------|--------------------------------|
| Model No. | Part No. | Part No. | Comments |
| 2201/01L | !220-0017 | !220-0181 | !Attach ground lug to chassis. |
| 2202 | !220-0017 | !220-0181 | !Attach ground lug to chassis. |
| 2203 | !220-2614-9 | !220-2614-12 | |
| 2207 | !220-0113 | !220-0143 | ! |
| 2207A | !220-0113 | !220-0143 | ! |
| 2209 | !220-0066-2 | !220-0066-2 | ! |
| 2209A | !220-0168 | !220-0168-1 | !Clamp cables to tape drive. |
| 2212 | !220-0105 | !220-0105-1 | ! |
| 2215 | !220-2650-9 | !220-0101 | ! |
| 2216 | !220-0103 | !220-0103 | ! |
| 2217 | !220-0102 | !220-0102 | ! |
| 2220 | !220-0103* | !220-0103* | !*Video. Keyboard 220-0101. |
| 2221 | !220-0105 | !220-0105-1 | ! |
| 2221W | !220-0105 | !220-0105-1 | ! |
| 2222 | !220-2650-9 | !220-0101 | ! |
| 2223 | !220-2650-9 | !220-0101 | ! |
| 2226 | !220-0103* | !220-0103* | !*Video. Keyboard 220-0101. |
| 2227 | !220-0113 | !220-0143 | ! |
| 2228B/C/D | !220-0113 | !220-0143 | ! |
| 2230-1,2,3 | !220-0066 | !220-0066 | !Attach ground lug. |
| 2230MXA | !No cable | !No Cable | !Cables shipped with MXB. |
| 2230MXB | !220-0135 | !220-0135 | ! |
| 31 | !220-0105 | !220-0105-1 | ! |
| 2231W | !220-0105 | !220-0105-1 | ! |
| 2232B | !220-0178 | !220-0178 | ! |
| 2233 | !220-0105-1 | !220-0105-1 | ! |
| 2234/34A | !220-0119 | !220-0119 | ! |
| 2235 | !220-0105-1 | !220-0105-1 | ! |

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2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
 (CONTINUED)

2200 STATIC PROBLEMS (CABLES)

| Peripheral | !Old Cable | !New Cable | ! | Comments |
|------------|---------------------------|--------------|---|------------------------------------|
| Model No. | !Part No. | !Part No. | ! | |
| 2236D/E/W | !120-2236-XX | !120-2236-XX | ! | !XX=Distance. Ground at both ends. |
| 2236DE/DW | !120-2236-XX | !120-2236-XX | ! | !XX=Distance. Ground at both ends. |
| 2240-1,2 | !220-0066 | !220-0066 | ! | !Attach ground lug. |
| 2241 | !220-2636 | !220-2636 | ! | |
| 2242 | !220-0066 | !220-0066 | ! | !Attach ground lug. |
| 2243 | !220-0066 | !220-0066 | ! | !Attach ground lug. |
| 2244/44A | !220-0119 | !220-0119 | ! | |
| 2245 | !220-0105-1 | !220-0105-1 | ! | |
| 2250A | !220-0155 | !220-0155 | ! | |
| 2251 | !220-0156 | !220-0156 | ! | |
| 2252/52A | !customer supplied cable! | | | |
| 2254 | !No Cable | !No Cable | ! | !Customer supplies cable. |
| 2260B | !220-0066 | !220-0066 | ! | !Ground lug. Daisy chain 220-0151. |
| 2260BC/C | !220-0188 | !220-0188 | ! | !Daisy Chain 220-0187-1. |
| 2261/61W | !220-0105 | !220-0105-1 | ! | |
| 2262-1,2,3 | !220-0125 | !220-0125 | ! | |
| 2263 | !220-0105 | !220-0105-1 | ! | |
| 2270/70A | !220-0066-4 | !220-0066-4 | ! | !Attach ground lug. |
| 2271 | !220-0156 | !220-0156 | ! | |
| 2272-2 | !220-0105 | !220-0105-1 | ! | |
| 2273 | !220-0105 | !220-0105-1 | ! | |
| 2280-1,2,3 | !220-0138 | !220-0105-2 | ! | !See note 1. |
| 2281 | !220-0161 | !220-0161 | ! | !See note 2. |
| 2281W | !220-0161 | !220-0161 | ! | !Attach ground lug. |
| 2282 | !220-0105-2 | !220-0105-2 | ! | |

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IV.A.3

2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

2200 STATIC PROBLEMS (CABLES)

Notes:

1. 'A' cable was 220-3032, now is 220-3041-22.
'B' cable was 220-3033-5, now is 220-3033-36.
Clamp kit should be installed on 2280DPU.
ECO Kit 728-0004 includes 220-3041-22, 220-3033-36, and cable
clamps. Clamp cables at both DPU and disk. Make sure good
contact is made between cables and chassis.
2. Cable 220-0161 should be stripped of one inch of insulation
before entering cabinet. Solder wire with lug onto cable
shield. Attach ground lug to chassis.

2200 STATIC PROBLEMS (SPECIAL)

Below is a list of the special static problems that exist in the
2200 systems.

DISKS: - On the Wang disk cabinets there are braided ground
connectors and spring clips. Make sure these are all
making good contact. The bases used for the 2280 disk
drives sometimes have nonconductive paint on them.
Check for continuity, and if there is no continuity,
carefully remove some of the paint under the shielded
'A' and 'B' cables and replace the cables. Measure
again to ensure continuity.

W/S - Check all covers for foil or conductive paint inside.
If none exists, replace cover.

MODEMS - If a remote terminal is set up with a WA3451 modem, and
a static problem exists, tie the internal power ground
(green wire) of the modem to the metal casing of the
RS232 connector. If vendor modem is used, have the
customer ensure the case is well grounded.

MISC. - All covers on 'ALL' equipment should be tied down
securely.

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IV.A.3

2200 SYSTEMS-MAINFRAMES-VP/MVP/LVP CPU'S.

TOPIC: 2200 SYSTEM UPDATING YOUR OLDER SYSTEMS & CABLES
(CONTINUED)

PREVENTING AND CHECKING FOR STATIC PROBLEMS

Before installing system, power should be checked for proper grounding as described in the Systems Installation Guide (729-0907). You should also check for line disturbances as described in CE manual 729-0894.

After properly installing system, you should check for possible static problems using the 4048A ESD/Hypot as described in CE manual 729-1002-A. A 2200 system should withstand between 2000-2500 volts without a system hang of any kind.

2200

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New Diagnostic Package

A new diagnostic package is available consisting of:

- 1 8" DSDD disk usable with the LVP/SVP
- 4 8" SSSD disks usable with the 2270/2270A
- 4 5 1/4" DSDD disks usable with the 2275

Order through the Software/Literature Control Center.

Diagnostic Package including all 9 disks 195-2956-0

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#40717

4301

2200 SYSTEMS-SOFTWARE-DIAGNOSTICS

TOPIC: CURRENTLY AVAILABLE DIAGNOSTICS

The following information pertains to diagnostics available to Customer Engineering personnel for Wang products. Please note that these diagnostics are for Customer Engineers only. Orders will only be accepted from Customer Engineering offices. Should Non-CE personnel require information relating to diagnostics, they should contact their local CE office.

Any questions or problems regarding diagnostics should be sent to the following address:

Wang Customer Engineering
Diagnostic Software Support
M/S 8239(1)
437 South Union St.
Lawrence, MA 01843

All diagnostic problems should be reported using a Diagnostic Software Problem Report form (part number 760-1236). This form should be available at your office. However, if this form is not available you can report any problem by simply sending a memo to the above address. Include in the memo your name, address, RDB, date, diagnostic name, revision, part number, an explanation of the problem, and how to recreate it.

Diagnostics listed in this article have already been distributed to the field and should be available (in some cases, a package may be in distribution, in which case copies should be received in the near future). If necessary, additional copies can be ordered by sending a Software Order Form (Part Number 700-9908) to:

Wang Laboratories
Software/Literature Control Center
M/S 8080
100 Glenn Street
Lawrence, MA. 01843

The 2200 Field Service diagnostics have been consolidated into one package (195-2956-0) which contains 9 diskettes. This reduces the number of diskettes needed to support 2200 and gives the user the diagnostics on all available media types. This package is in distribution and should be received by all field offices in the near future. If additional copies are required, follow the above ordering process.

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2200 SYSTEMS-SOFTWARE-DIAGNOSTICS

TOPIC: CURRENTLY AVAILABLE DIAGNOSTICS (continued)

| <u>PACKAGE PART #</u> | <u>SOFTWARE PART #</u> | <u>DOCUMENT PART #</u> | <u>TITLE</u> | <u>REV. SOFT DOC.#</u> |
|---------------------------|----------------------------|----------------------------|--|----------------------------|
| 195-2513-3 | | 760-1102 | <u>2200 KENNEDY TAPE POWER UP</u> | 9320 |
| | 702-0094B | | 2228D CONT. POWER UP | 2.2 |
| | 702-0186 | | 2228E CONT. POWER UP | 51C0 |
| 195-2609-3 | | 760-1123A | <u>2228F CONT. POWER UP SELF TEST</u> | 9370 |
| 195-2468-3 | | 760-1075 | <u>SVP MPPC CONT. POWER UP</u> | 5250 9250 |
| 195-2956-0 | 732-0002D | | <u>2200 DIAGNOSTIC PACKAGE</u> (contains all of the following) 8" DSDD | 6436 |
| | 702-0295 | | <u>PRINTERS/PLOTTERS/TERMINALS</u> 8" SSSD | 6436 |
| | 732-0052 | | 5 1/4" DSDD | 6436 |
| | 760-1259 | | 2201L PRINTER EXER. | 1.0 9434 |
| | 760-1258 | | 2232 PRINTER EXER. | 61B0 9434 |
| | 760-1276 | | 2282 GRAPHIC CRT EXER. | 414A 9434 |
| | 760-1257 | | GENERAL PRINTER EXER. | 6441 9434 |
| | | | for the following printers: | |
| | | | 2221W 2231W-1 2231W-2 2231W-3 | |
| | | | 2231W-6 2235 2245 2251 | |
| | | | 2261W 2263-1 2263-2 2263-3 | |
| | | | 2273-1 2273-2 2281W | |
| | 760-1265 | | 2200 UNIVERSAL KEYBD TEST | 1294 9434 |
| | 760-1270 | | 2236DE/DW F S DIAG | 11B1 9434 |

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2200 SYSTEMS-SOFTWARE-DIAGNOSTICS

TOPIC: CURRENTLY AVAILABLE DIAGNOSTICS (continued)

| <u>PACKAGE</u> <u>PART #</u> | <u>SOFTWARE</u> <u>PART #</u> | <u>DOCUMENT</u> <u>PART #</u> | <u>TITLE</u> | <u>REV.</u> <u>SOFT DOC.#</u> |
|---------------------------------|----------------------------------|----------------------------------|--|----------------------------------|
| 195-2956-0 | (cont.) | | <u>2200 DIAGNOSTIC PACKAGE</u> | |
| | | | <u>MAGNETIC MEDIA</u> | |
| | 702-0292 | | 8" SSSD | 6436 |
| | 732-0049 | | 5 1/4" DSDD | 6436 |
| | | 760-1263 | VCO ADJUSTMENT | 81B4 9434 |
| | | 760-1250A | PLL ADJUSTMENT | 83C2 9434 |
| | | 760-1223A | 850/851 ALIGNMENT ROUTINE | 8441 9434 |
| | | 760-1264 | PHOENIX ALIGNMENT ROUTINE | 8434 9434 |
| | | 760-1260 | VOLUME ZAP | 8434 9434 |
| | | 760-1209A | MULTIDISK EXER. | 6441 9434 |
| | | 760-1261 | GENERAL DISK EXER. | 61B4 9434 |
| | | 760-1262 | LVP DPU BURN IN | 41B4 9434 |
| | | 760-1269 | 2209A TAPE DIAG. | 2.0 9434 |
| | | 760-1103A | KENNEDY ARCHIVING TAPE | 7320 9434 |
| | | | <u>TELECOMMUNICATIONS</u> | |
| | 702-0294 | | 8" SSSD | 6436 |
| | 732-0051 | | 5 1/4" DSDD | 6434 |
| | | 760-1121A | 2228D/E/F POWER UP ERROR CODE INTERPRETER | 3370 9434 |
| | | 760-1124B | 2228D/E/F 7 BD BURN IN | 4370 9434 |
| | | 760-1122A | 2228E/F F S DIAG. | 1370 9434 |
| | | 760-1267 | 2228D F S DIAG. REV.2 | 1158 9434 |
| | | 760-1268 | 2228D F S DIAG. REV.1 | 1121 9434 |
| | | 760-1275 | 2227B/2228B F S DIAG. | 13B1 9434 |
| | | | <u>CPU/MEMORY</u> | |
| | 702-0293 | | 8" SSSD | 6434 |
| | 732-0050 | | 5 1/4" DSDD | 6434 |
| | | 760-1266 | CPU INSTRUCTION EXER. | 1.0 9434 |
| | | 760-1271 | CPU/MEMORY DIAG. | 11B4 9434 |
| | | 760-1272 | MEM ERROR CHIP IDENTIFIER | 8434 9434 |



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M-E-M-O-R-A-N-D-U-M

TO: Distribution

FROM: Dan Horne

DEPARTMENT: Diagnostic/Software Support

DATE: December 30, 1981

SUBJECT: Currently Available Field Level Diagnostics

CHET KASPRZAK

*XC AT'S
BM's
Keith Tester
Bud Kimball
Mark McCauley
FYE
g/k*

The following pages contain a list of all currently available Field Level Diagnostics. Diagnostic ordering information is also provided on the last page of this document. This list only includes Field Level Diagnostics, no board repair aids or diagnostics are included.

The lists of diagnostics that are in the "Distribution Cycle" are included for informational purposes only. No attempt to order these diagnostics should be made at the present time. They will be sent out through the normal distribution channels in the very near future.

If you have any questions please send them to the following address:

DIAGNOSTIC/SOFTWARE SUPPORT GROUP
M/S 8239(1)
437 SOUTH UNION STREET
LAWRENCE, MA 01843

DISTRIBUTION:

- Antonio Bejarno
- Dick Boynton
- Hendrik DeGrande
- Elda DiLorenzo
- Earl Emerick
- Bill Farias
- Scott Johnson
- Chet Kasprzak ✓
- Dick Klaxton
- Rich Lascelles
- Gary McMann
- Mike Morrow
- Dick Nichols
- Erv Nork
- John Proulx
- Dick Sample
- Tom Sharkey
- Walter Sullivan
- Cliff Wallum
- Chuck Yelton

CURRENTLY AVAILABLE OIS/WP FIELD LEVEL DIAGNOSTICS

| <u>DIAG PART #</u> | <u>TITLE</u> | <u>SOFT REV</u> | <u>DATE</u> |
|--|---|---------------------|-------------|
| 702-0001A | System 5 diagnostic | 2.0 | 2/23/79 |
| 702-0032D | OIS 130 Single Channel Monitor | 2127 | 4/24/81 |
| 702-0038C | WPS Single Channel Monitor | 2127 | 4/24/81 |
| 378-2266R5 378-2267R5 702-0042D | OIS 140 Class Power Up <u>(See NOTE 1)</u> | 5161 | 8/11/81 |
| 702-0043 | 5544/5548 Typesetter System Test | | 6/22/81 |
| 702-0047 702-0106 | System 5 Burn-In | 1.0 | 10/12/79 |
| 702-0057B | OIS 140 Master Monitor | 1.A | 9/8/80 |
| 702-0058 | OIS 130 Master Monitor | 1.1 | 11/7/79 |
| 702-0059 | WPS Master Monitor | 1.1 | 11/7/79 |
| 702-0074 | OIS Online Monitor | 2.1 | 1/15/81 |
| 378-5000 702-0111 | Wangwriter Power Up <u>(See NOTE 1)</u> | 5134 | 2/13/81 |
| 378-3019 378-0020 378-0021 378-0022 702-0113 | WISE Power Up <u>(See NOTE 1)</u> | 50C0 | 3/20/81 |
| 702-0117 | SYSEX40 | 6120 | 6/11/81 |
| 378-5002R2 378-5003R2 702-0123B | OIS 140 Extended Memory Power Up <u>(See NOTE 1)</u> | 5161 | 8/11/81 |
| 702-0127 | SYSEX15 | 6135 | 6/11/81 |
| 702-0130 | WISE Online Exerciser | 6144 | 5/21/81 |
| 378-6004 702-0133A | TCB1 Power Up <u>(See NOTE 1)</u> | 5175 | 8/11/81 |
| 702-0135 | SYSEX40X | 6150 | 8/11/81 |
| 702-0136 | 5548Z Typesetter System Test | | 6/22/81 |

CURRENTLY AVAILABLE OIS/WP FIELD LEVEL DIAGNOSTICS

| <u>DIAG PART #</u> | <u>TITLE</u> | <u>SOFT REV</u> | <u>DATE</u> |
|------------------------|---|---------------------|-------------|
| 702-0147 | TCB1 Online Monitor (See NOTE 2) | 2180 | 9/21/81 |
| 702-0148 | 9 Track Tape Online Monitor (See NOTE 2) | 2190 | 9/21/81 |

NOTE 1

If ordering a power up diagnostic, the actual PROM sets will not be sent. The PROMs will have to be ordered in the normal manner. Only the documentation for the power up diagnostic will be sent.

NOTE 2

The TCB1 and 9 Track Tape Online Monitors will be made part of the next release of the OIS 140 Online Monitor. These were distributed in order to get the diagnostics to the field to assist in repair of units already shipped to customer sites. When you receive the next release of the OIS Online Monitor, these two packages can be discarded.

NEW OIS/WP FIELD LEVEL DIAGNOSTICS CURRENTLY IN THE DISTRIBUTION CYCLE

The following diagnostics may not as yet be ordered but will be distributed to the field in the very near future.

| <u>DIAG PART #</u> | <u>TITLE</u> | <u>SOFT REV</u> | <u>DATE</u> |
|------------------------|--|---------------------|-------------|
| 702-0057C | 140-CLASS Master Resident Monitor Pkg. | 21A7 | In Dstrb. |
| 702-0144 | OIS Online Device Monitor | 21A0 | In Dstrb. |
| 702-0149 | Online Printer Monitor Part II | 21A0 | In Dstrb. |
| 732-8001 | Wangwriter In-System Monitor | 2195 | In Dstrb. |

CURRENTLY AVAILABLE VS/VS100 FIELD LEVEL DIAGNOSTICS

| <u>DIAG PART #</u> | <u>TITLE</u> | <u>SOFT REV</u> | <u>DATE</u> |
|-------------------------|---|---------------------|-------------|
| 378-4212R2 702-0039B | 2246R Power-Up Diagnostic (See NOTE 1) | 5111 | 5/13/81 |
| 702-0052 | CPNEW1 | 1.3 | 1/28/80 |
| 702-0053 | CPNEW2 | 1.3 | 1/28/80 |
| 702-0054 | CPNEW3 | 1.3 | 1/28/81 |
| 702-0064C | VS80MEM | 1144 | 5/28/81 |
| 702-0065B | Stand-Alone Boot Loader | 8154 | 5/28/81 |
| 702-0069A | TPTEST42 | 1161 | 8/27/81 |
| 702-0070 | ELOGDISP | 1.0 | 8/14/80 |
| 702-0090 | Systest - VS60/80 only. | 1.0 | 10/30/80 |
| 702-0092 | PRTEST1 | 2.0.1 | 12/15/80 |
| 702-0098 | FTU Stand-Alone | 6111 | 2/13/81 |
| 702-0099 | FTU On-Line | 3.8 | 12/15/80 |
| 702-0107 | SYSNAME | 8110 | 2/13/81 |
| 702-0108A | VS100MEM | 1144 | 5/28/81 |
| 702-0122A | VOLCOPY | 8181 | 10/19/81 |
| 702-0132 | 22V06 Local Loopback | 1130 | 5/21/81 |
| 378-4251 702-0134 | Ideographic/Latin WS Power-Up (See NOTE 1) | 5140 | 6/11/81 |
| 705-0167 | FORT 1 - CPNEW1 VS60/80 FORTRAN PROMS | N/A | 12/21/81 |
| 705-0168 | FORT 2 - CPNEW2 VS60/80 FORTRAN PROMS | N/A | 12/21/81 |
| 705-0169 | FORT 3 - CPNEW3 VS60/80 FORTRAN PROMS | N/A | 12/21/81 |

NOTE 1

If ordering a power up diagnostic, the actual PROM sets will not be sent. The PROMs will have to be ordered in the normal manner. Only the documentation for the power up diagnostic will be sent.

CURRENTLY AVAILABLE VS/VS100 FIELD LEVEL DIAGNOSTICS

| <u>DIAG</u> <u>PART #</u> | | <u>TITLE</u> | <u>SOFT</u> <u>REV</u> | <u>DATE</u> |
|------------------------------|---|---------------------------------------|---------------------------|-------------|
| 702-8001A | * | T0010 Microsequencer | 7130 | 6/22/81 |
| 702-8002A | * | T1010 Instruction Counter | 7130 | 6/22/81 |
| 702-8003A | * | T2010 Branch Conditional | 7130 | 6/22/81 |
| 702-8004A | * | T3010 CP4 Stack Data Integrity | 7130 | 6/22/81 |
| 702-8005A | * | T4010 Routine Stack Address | 7130 | 6/22/81 |
| 702-8006A | * | T4110 Register Data Integrity | 7130 | 6/22/81 |
| 702-8007A | * | T5000 Visual Verification | 7130 | 6/22/81 |
| 702-8008A | * | T6010 Control Mem 1000-1FFF | 7130 | 6/22/81 |
| 702-8009A | * | T7010 Control Mem 0000-0FFF | 7130 | 6/22/81 |
| 702-8010A | * | T8010 Register Data Integrity | 7130 | 6/22/81 |
| 702-8011A | * | T9010 Data Stack & T-RAM | 7130 | 6/22/81 |
| 702-8012A | * | TA010 Add & Subtract Instr. | 7130 | 6/22/81 |
| 702-8013A | * | TB010 Logical Instructions | 7130 | 6/22/81 |
| 702-8014A | * | TB110 Move Instruction Group | 7130 | 6/22/81 |
| 702-8015A | * | TC010 Shift Instr. & Decimal | 7130 | 6/22/81 |
| 702-8016A | * | TD010 Condition & Arithmetic | 7130 | 6/22/81 |
| 702-8017A | * | TAA10 Memory Opcodes & Multiply | 7140 | 8/28/81 |
| 702-8018A | * | TAF10 Branch Next Macro Instr. | 7140 | 8/28/81 |
| 702-8022A | * | TDD10 Main Memory Board Diagnostic | 7140 | 9/01/81 |
| 702-8023A | * | TDF10 Extended Main Memory Diagnostic | 7140 | 9/02/81 |

* NOTE: These are Micro-diagnostics for use on the VS-100 only.

NEW VS/VS100 FIELD LEVEL DIAGNOSTICS CURRENTLY IN THE DISTRIBUTION CYCLE

The following diagnostics may not as yet be ordered but will be distributed to the field in the very near future.

| <u>DIAG PART #</u> | <u>TITLE</u> | <u>SOFT REV</u> | <u>DATE</u> |
|------------------------|----------------------------------|---------------------|-------------|
| 702-099A | FTU On-Line | 61C4 | In Dstrb. |
| 702-0145 | VS Online Device Monitor | 21A0 | In Dstrb. |
| 702-8019A | TBB10 SBC Error Correction | 71C1 | In Dstrb. |
| 702-8020A | TBB40 SBC Error Correction & BTL | 7140 | In Dstrb. |

CURRENTLY AVAILABLE 2200 FIELD LEVEL DIAGNOSTICS

| DIAG PART # | | TITLE | SOFT REV | DATE |
|----------------|-------------|---|-------------|----------|
| <u>SSSD</u> | <u>DSDD</u> | | | |
| 702-0078* | | <u>Mass Storage Diagnostics</u> VP, MVP | N/A | 10/21/80 |
| 702-0079* | | <u>Peripheral Diagnostics</u> MVP | N/A | 10/21/80 |
| 702-0080* | 732-0001* | <u>Basic 2 Diagnostics</u> VP, MVP, LVP or SVP | N/A | 10/21/80 |
| 702-0138 | 732-0010 | <u>2200 CPU Diagnostics</u> VP, MVP, LVP or SVP | 1170 | 8/31/81 |
| 702-0118 | 732-0012 | <u>2236 DE/DW Diagnostic</u> VP, MVP, LVP or SVP Basic 2 | 11B1 | 11/10/81 |
| 702-0110 | 732-0004 | <u>850/851 DSDD Alignment</u> LVP Basic 2 Rev 1.9 (or higher) Rev 5 (or higher) DPU PROMs | 8120 | 2/12/81 |
| 702-0128 | 732-0008 | <u>General 2200 Disk Exerciser</u> MVP Basic 2 Rev 1.8 (or higher) VP Basic 2 Rev 2.1 (or higher) | 6134 | 5/04/81 |
| | 732-0009 | <u>SVP/LVP Phase Lock Loop Adj.</u> Reference: Manual 729-0954 | N/A | 6/22/81 |
| 702-0119 | | <u>2221W Printer Diagnostic</u> MVP, LVP, SVP, VP or T | 10C0 | 3/26/81 |
| 702-0145 | | <u>2235 Printer Diagnostic</u> MVP, LVP, SVP, VP or T Rev 8 Printer Microcode | 1192 | 9/23/81 |
| 702-0097C | | <u>2228D Rev 2 Diagnostic & Monitor</u> 7659 Board MVP Basic 2 Rev 2.1 VP Basic 2 Rev 2.3 378-4379 (32 K) 378-4380 (48 K) 378-4381 (64 K) | 1158 | 10/30/81 |

*NOTE: No documentation for these diagnostics are available, therefore only limited support can be provided. Please contact Diagnostic/Software Support in Lawrence for information on these diagnostics. M/S 8239(1), EXT. 6562.

N/A = Software Rev level not available.

NEW 2200 FIELD LEVEL DIAGNOSTICS CURRENTLY IN THE DISTRIBUTION CYCLE

| <u>DIAG PART #</u> | | <u>TITLE</u> | <u>SOFT REV</u> | <u>DATE</u> |
|------------------------|-------------|--------------------------|---------------------|-------------|
| <u>SSSD</u> | <u>DSDD</u> | | | |
| 702-0138A | 732-0010A | 2200 CPU Diagnostics | 11B4 | In Dstrb. |
| | 732-0002B | LVP/SVP System Exerciser | 61B4 | In Dstrb. |
| 702-0146 | 732-0013 | Multi-Disk Exerciser | 61B4 | In Dstrb. |
| 702-0109A | 732-0003A | 850/Winchester VCO Adj. | 81B4 | In Dstrb. |
| 702-0128A | 732-0008A | General Disk Exerciser | 61B4 | In Dstrb. |
| 702-0173 | | 2245 Printer Diagnostic | 11B4 | In Dstrb. |

DIAGNOSTIC ORDERING INFORMATION

With the exception of those noted as being "In Distribution", all diagnostics listed in this document have already been distributed to the field. Five copies are sent to every Branch, as well as copies to the District and Area levels, and should be available. If necessary, additional copies can be ordered by sending a letter to:

SOFTWARE/LITERATURE CONTROL CENTER
M/S 5222C
11 ELIZABETH DRIVE
CHELMSFORD, MA. 01824

Supply in the letter your name, address, RDB number, and the part number (the 702/732 number) of the diagnostic you are ordering. Unless the diagnostic is a power up (reference NOTE 1), a copy of the diagnostic diskette & documentation will be sent.

WANG

LABORATORIES, INC.

M E M O R A N D U M

TO: Distribution
FROM: Gail Stanwyck
DATE: September 1, 1981
SUBJECT: Recent Diagnostic Release

The 2200 CPU Diagnostics have been released.

The part numbers for these diagnostics are 702-0138, Single Density, Rev. 1170; and 732-0010, Double Density, Rev. 1170. If you require the double density diskette, it may be obtained by requesting a copy through the Software/Literature Control Center, M/S 5222, Attn: Bill Farias.

These diagnostics will run on all VP series systems old and new, therefore any older versions of this diagnostic are obsolete. The old diagnostics on early versions of BASIC-2 will not run properly on a new expanded system (512K of Data Memory and 64K on Control Memory).

This package uses four menus (2200 System Menu, Customer Diagnostic Menu, User Menu and Field Service Menu) from which the user may select an appropriate BASIC interpreter or diagnostic programs.

If you have any questions or problems concerning this diagnostic, please contact Lynda Derby at Wang Corporate Headquarters, extension 2314.

1.0 TITLE

2200 CPU Diagnostics

2.0 REVISION/DATE

| |
|----------------------------------|
| Date: August 31, 1981 |
| Documentation Release: Rev. 9170 |
| Software Release: Rev. 1170 |
| Part Number: 702-0138 |
| 732-0010 |

3.0 REFERENCE DOCUMENTS

Any 2200 VP, MVP, LVP or SVP Maintenance Manual.

4.0 CONFIGURATION REQUIREMENTS

4.1 Hardware

Minimum required configuration

The VP, MVP, LVP or SVP must have the following boards: 210-6793-1, 210-6792, 210-6791, 210-6790, 210-6789A, 210-6788 or 210-7588, 210-6787 or 210-7587. The system also must have a disk controller, and any type of terminal with controller.

Disks:

2270A for single density media.
SA850 for double density media.

4.2 Software

Floppy diskette:

702-0138 for single density
732-0010 for double density

5.0 PROGRAM DESCRIPTION

These diagnostics will run on all VP series systems old and new, therefore any old versions are obsolete. The old diagnostics on early versions of BASIC-2 will not run properly on a new expanded system (512K of Data Memory and 64K on Control Memory).

This package uses four menus (2200 System Menu, Customer Diagnostic Menu, User Menu and Field Service Menu) from which the user may select an appropriate BASIC interpreter or diagnostic programs.

The System Menu allows the Customer to load either VP BASIC-2, MWP BASIC-2 or the Customer Diagnostic Menu into Control Memory. This diagnostic menu allows the customer to select various tests using the 'SPACE BAR' to position the cursor, and pressing 'RUN'. The User and Field Service menus allow the CE to select the same diagnostics via the 'SF' Key sequence.

The diagnostics are CPU Instructions, Control Memory, Data Memory and CPU Registers. These diagnostics can be used as exercisers, burn-in diagnostics, or as an aid for repairing VP type CPU and Memory boards.

The CPU Instructions diagnostic, tests the instruction set of the VP series Central Processor. Because of the complexity and size of the Instructions diagnostic no features are allowed other than Chain Mode.

The Data and Control Memory diagnostics will verify the functionality of the user (data) memory and system (control) memory. These diagnostics utilize an Auto-sizing routine to identify the amount of memory (Data or Control) the system actually has. If a dead bank failure occurs, the Auto-sizing routine will not function properly, resulting in an erroneous memory size indication. Provisions have been made within the diagnostic which allow the operator to enter the actual amount of memory the system has. The Memory diagnostics also allow selection of the RAM board type that is to be tested. The RAM board type must be entered for correct error reporting in the Address tests only, though it is not totally necessary for a functional test of the RAM chips. The Data Bus Stuck, Data Bus Shorts, Bank/Page Addressing, Parity Generator, Address Line Shorts, Address Line/Pin Open and Address Multiplexer of the Memory Diagnostics each execute 15 times for screening purposes only.

The CPU Registers diagnostic checks the functionality of the CPU Registers.

The CPU Registers, Data Memory and Control Memory Diagnostics allow errors to be displayed on the screen or printed on the printer.

All of the diagnostics may be run sequentially in Chain Mode with a pass count incremented after each completion. When in Chain Mode, the CPU Instructions diagnostic has a Chain Mode pass count and a diagnostic pass count. The diagnostic pass count will increment to '004F' before loading the Control Memory diagnostic. The Control Memory Moving Inversions test executes twice on each pass when in Chain Mode. This is done, because in multiple passes of the Moving Inversions test, RAM is not reflooded with the flood pattern, but relies on memory having the flood pattern left over from the first pass of Moving Inversions test. The Data Memory diagnostic always executes two passes while in the Moving Inversions test before incrementing the program pass count. The second pass of the Moving Inversions test will complement the parity bit from the first pass. While in Chain Mode the memory size feature, the Ram board type feature and the capability of sending errors to the printer are disabled. If an error occurs while in Chain Mode, the diagnostic running at the time will not load the next diagnostic in line, but loop continuously in the failing diagnostic. This will keep the errors displayed on the screen until operator intervention. To disable Chain Mode, depress 'RESET' and SF'15.

6.0 LOAD PROCEDURE

Insert the module(s) under test into the mother board. If a known bad memory module exists, place it in the second memory slot and a known good, fully loaded board in the first slot. Insert the diagnostic diskette into the floppy drive.

Power on the system and press 'RESET' as instructed. Depress the following special function key dependent on the disk address to load the System Menu. Continue as instructed by the menu:

SF'00 loads '@@' (System Menu Program) from address 310 (D11).
SF'01 loads '@@' (System Menu Program) from address B10 (D10).
SF'02 loads '@@' (System Menu Program) from address 320 (D21).
SF'03 loads '@@' (System Menu Program) from address B20 (D20).
SF'04 loads '@@' (System Menu Program) from address 330 (D31).
SF'05 loads '@@' (System Menu Program) from address B30 (D30).

Note: Loading '@@' loads the System Menu Program, from which the customer can then load MVP BASIC-2, VP BASIC-2 or the Customer Diagnostic Menu. See Appendix B for all test selection menus.

If an error is encountered while trying to load the System Menu, try to load the User Menu. The User Menu doesn't use Control Memory and loads much easier than the System Menu. If a Data or Control Memory error is encountered while loading the User Menu, try installing a known good Data or Control Memory board (dependent on the error) in the first slot. With a good memory board the menu should load.

If the User Menu will not load, the PROM diagnostics must be used (Module Repair Guides 4.0 - 4.5 or the Control Memory Repair Aid Part # 702-0131).

Depress the following special function key (dependent on the disk address) for the User Menu. Continue as instructed by the menu:

- SF'16 loads '@P' (User Menu Program) from address 310 (D11).
- SF'17 loads '@P' (User Menu Program) from address B10 (D10).
- SF'18 loads '@P' (User Menu Program) from address 320 (D21).
- SF'19 loads '@P' (User Menu Program) from address B20 (D20).

For more specific testing use the Field Service Menu. The Field Service Menu selects the diagnostics with the board repair features enabled (described in Operating Instructions). Individual tests within a diagnostic can be executed without continuing on to the following tests. For example, the Addressing tests could be continuously cycled through without going to the Simple Marching 1's/0's or Moving Inversions Tests. After the program is loaded, depressing 'RESET' and SF'15 disables the individual test feature. The Field Service Menu can be loaded by depressing the following special function key (dependent on the disk address). Continue as instructed by the menu:

- SF'28 loads Field Service Menu from 310 (D11).
- SF'29 loads Field Service Menu from B10 (D10).
- SF'30 loads Field Service Menu from 320 (D21).
- SF'31 loads Field Service Menu from B20 (D20).

After the menu loads depress the Special Function Key (SF) corresponding to the diagnostic desired. At this point, if an error occurs while loading the diagnostic, depress 'RESET' then SF'15. The Menu associated with the diagnostic should be displayed.

7.0 OPERATING INSTRUCTIONS

The user is given the option of selecting the display console or a printer to report any errors in the CPU Registers, Data Memory and Control Memory Diagnostics.

If using the Field Service Menu with the Memory Diagnostics, check the memory size as found by the auto-size routine. If the amount shown is incorrect, follow the screen instructions to enter the correct memory size. Memory sizes are only given for the board in the second slot, therefore, the suspect module must be moved from the first, third or fourth slot (third and fourth for Data Memory in a 512K machine) to the second slot. Enter the board type (67xx or 75xx series) of the module(s) under test as instructed by the menu. The RAM board type must be entered for correct error reporting in the Addressing Tests. The RAM board type is not necessary for correct error reporting in the Simple Marching 1's/0's or Moving Inversions tests as an error in these tests point to only a bad RAM chip. The memory size and RAM board type features are needed only for board repair purposes.

After option selection, pressing 'CONTINUE' will start execution.

If an error is encountered, the test and error information will be displayed on the screen or printed on a printer (the CPU Instruction Diagnostic halts). If an error occurs when the printer is selected for error reporting and is 'READY', the message: "Errors are on Printer" (in reverse video format) will be displayed on the console screen. If the printer is 'BUSY', the error reporting will default back to the console screen and the message: "Printer wasn't Ready" (in reverse video format) will be displayed.

If printer address '204' is selected, the diagnostics will always see the printer as 'READY'. If the printer is 'BUSY', the diagnostic will hang.

All tests in the CPU Registers, Control Memory and Data Memory Diagnostics will restart at the beginning after the error is displayed with the exception of Moving Inversions in the Memory Diagnostics. Moving Inversions restarts at the failing location. Moving Inversions will restart from the beginning after an error only when scope loop is selected.

Errors will be displayed on the screen until the screen is full. At this point, depressing 'CONTINUE' clears the screen of errors and continues from the point where it stopped until the screen is full again.

Depressing 'RUN' will cause repeated clearing and filling of the console screen with error reports.

While in 'RUN' mode, depressing 'CONTINUE' will disable 'RUN' mode.

If in the Field Service mode, depressing 'L' puts the program into a scope loop. After 'L' is pressed, the last line is cleared from the screen, the test name and "TEST SHOWN IN SCOPE LOOP" is displayed. The test shown will loop continuously whether it passes or fails. From this point, nothing more will be displayed on the screen until 'CONTINUE' is depressed, at which time the screen is cleared of errors and normal error reporting is resumed.

The CPU Instructions Diagnostics only halts on error.

To restart the programs from the beginning, depress 'RESET' then SF'15.

8.0 REVISION HISTORY

None.

9.0 MISCELLANEOUS

These Diagnostics will be on the VP (Rel. 2.5 and above) and MVP (Rel. 2.3 and above) system platters. This diskette is for demonstration only and will not be available after the updated system platters are released.

The new expanded memory systems will have the capability of 64K (two boards) of Control Memory and 512K (four boards) of Data Memory. To test the board and page select logic, the Data and Control Memory boards must be tested in their first* and second* positions. The 7587 boards should be burned-in in the first* slot. If burned-in in the second* slot, the first 8K is not tested.

The Memory Diagnostics report the actual amount of memory they see.

In Data Memory, each additional 64K after the first 64K bank has the first 8K of that bank overlaid to point back to the first 64K. Therefore, each 64K of physical memory added results in only 56K of additional memory to be tested.

In Control Memory, 1K (address 8000-83FF) is actually taken up by PROM. The next 3K (address 8400-8FFF) is reserved for future PROM expansion. If a system has two fully loaded and jumpered as such Control Memory boards, the memory size would be reported as 60K.

Addressing problems (short and opens) on the 7588 and 7587 PC's may cause erroneous errors. To alleviate most of the problems, place an IC clip on the address driver of the failing bank. The IC clip must have 470 ohm pull-ups connected to the address lines going to the RAMs. If the erroneous errors still occur, the technician will have to scope out the problem using the scope loop function.

* The first slot is the one closest to the CPU PCBs.

APPENDIX A
MODULE DESCRIPTIONS

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| 5.0 All of the Above (Chain Mode) | explained in Program Description |

1.0 CPU Instructions Diagnostics

SYSTEM DIAGNOSTIC DISPLAYS

CPU DIAGNOSTIC

This diagnostic is designed to test the instruction set of the MVP Central Processor. The test sequence is as follows:

- a) Test Immediate Register instructions.
- b) Test Register instructions.
- c) Test Extended Register instructions.
- d) Test Branch instructions.
- e) Test Immediate Register instructions with Read/Write.
- f) Test Register instructions with Read/Write.
- g) Test Mini Instructions with Read/Write.
- h) Return to step a).

If RESET is keyed during this program, the KEY SF? message should be displayed.

Normal Display:

```
*** CPU DIAGNOSTIC *** Rev. 1170
Pass 0001
IMMED REG XX
REG INSTR XX
X-REG INSTR XX
MASK BR XX           where: LLLL = Number of completed loops
REG BR XX             XX = Microinstruction currently
IMMED R/W XX         being tested (in HEX).
REG R/W XX
AUX/STACK R/W XX
```

Should the system be unable to execute a particular instruction, the CRT cursor will stop at XX of the failing instruction. Should the title fail to appear, any of the following could be at fault: ORI, AC, SB, SR, B, BT, BF, BNE, BLER, or BNR.

MVP CENTRAL PROCESSOR INSTRUCTION SET

| Instruction Code: | Instr. Tested: | Instr. Class: | Instruction Code: | Instr. Tested: | Instr. Class: |
|-------------------|----------------|---------------|-------------------|--------------------|---------------|
| 00 | ORI | | 4B | OR(R/W) | |
| 01 | XORI | | 4C | XOR(R/W) | |
| 02 | ANDI | | 4D | AND(R/W) | |
| 03 | A | IMMEDIATE | 4E | SC(R/W) | |
| 04 | DACI | REGISTER | 4F | DAC(R/W) | |
| 05 | DSCI | | 50 | DSC(R/W) | REGISTER |
| 06 | ACI | | 51 | AC(R/W) | R/W |
| 07 | MI | | 52 | M??(R/W) | |
| 08 | OR | | 53 | SHIFT(R/W) | |
| 09 | XOR | | 54 | LPI(R/W) | |
| 0A | AND | | 55 | SR(R/W) | |
| 0B | SC | REGISTER | 56 | TAP, TPA, XPA(R/W) | -00 |
| 0C | DAC | | 57 | | -01 |
| 0D | DSC | | 58 | | -02 |
| 0E | AC | | 59 | | -03 |
| 0F | M | | 5A | | -04 |
| 10 | SHIFT | | 5B | | -05 |
| 12 | ORX | | 5C | | -06 |
| 13 | XORX | | 5D | | -07 |
| 14 | ANDX | | 5E | | -08 |
| 15 | SCX | EXTENDED | 5F | | -09 |
| 16 | DACX | REGISTER | 60 | | -0A |
| 17 | DSCX | | 61 | | -0B |
| 18 | ACX | | 62 | | -0C |
| 19 | MX | | 63 | | -0D |
| 1A | SHIFT X | | 64 | | -0E |
| 1B | BF/BT | MASK BRANCH | 65 | | -0F |
| 1C | BNE/BEQ | | 66 | | -10 |
| 1D | BNR/BER | | 67 | | -11 |
| 1E | BLR | REGISTER | 68 | | -12 |
| 1F | BLRX | BRANCH | 69 | | -13 |
| 20 | BLER | | 6A | | -14 |
| 21 | BLERX | | 6B | | -15 |
| 43 | ORI(R/W) | | 6C | | -16 |
| 44 | XORI(R/W) | | 6D | | -17 |
| 45 | ANDI(R/W) | | 6E | | -18 |
| 46 | AI(R/W) | IMMEDIATE | 6F | | -19 |
| 47 | DACI(R/W) | R/W | 70 | | -1A |
| 48 | DSCI(R/W) | | 71 | | -1B |
| 49 | ACI(R/W) | | 72 | | -1C |
| 4A | MI(R/W) | | 73 | | -1D |
| | | | 74 | | -1E |
| | | | 75 | | -1F |
| | | | 76 | | |
| | | | | STACK (R/W) | |

2.0 Control Memory Diagnostics

2.1 ERROR CODE DESCRIPTIONS AND BOARD LAYOUT CHARTS

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CONTROL MEMORY ERROR CODES

Bit Error Control Memory (BECM)

FORMAT: * BECM aaaa xxxxxx PASS pppp*

WHERE:

aaaa = address (PC's)
xxxxx = XOR of read & expected data
pppp = that current pass number at error time

Address Error Control Memory (AECM)

FORMAT: * AECM aaaa aaaa xxxxxx PASS pppp*

WHERE:

aaaa = address (two conflicting addresses)
xxxxx = XOR of read & expected data (see test error examples)
pppp = that current pass number at error time

HOW TO INTERPRET MEMORY ERRORS USING THE LAYOUT CHARTS

The following is a specific example of locating a possibly defective RAM chip on the 6788 Control Memory PCB. However the concepts in the steps below are applicable to the other layout charts.

Suppose the following error message occurs:

BECM 1000 040010

The diagnostics has flagged a Bit Error in Control Memory, at address 1000 (hex) with an error code (XOR of the expected and actual bits) of 040010.

- Step 1. Open to the page in the documentation that has the 6788 Control Memory PCB layout chart.
- Step 2. Observe that the PCB is divided into addressing sections. For example, address 0000-0FFF is located on the upper section of the first PCB, address 5000-5FFF is located on the bottom section of the second PCB, etc..
The address in the above error message calls out the middle section of the first 6788 PCB.
- Step 3. Now observe the Chip Identification Table at the bottom of the layout chart. This table divides the 24-bit Control Memory word into 6 groups of 4 bits each.
The top row represents bit positions, the next row represents hex values.

The key to error interpretation is that each grouping, maps directly to one of the digits in the actual error code .

Observe the error code. A "4" digit occupies the second position in from the left. This represents hex '04' and indicates that bit 18 has been flagged .

The "1" digit represents hex '10' and indicates that bit 4 has also been flagged.

This means the diagnostics has detected that RAM chips K '04' and PL '10', situated in the middle addressing section, are possibly faulty.

3807E

***** Rows and board associated with error codes (7588 only) *****

The 7588 boards in the CPU will be numbered with respect to the proximity of the CPU Boards. A maximum of 2 boards (64K System) may be installed. Board # 1 is the board closest to the CPU boards.

| | | | | | | | | | | | | |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 181 * | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | 01 | 02 | 04 | 08 |
| 184 * | PL | PL | PL | PL | PL | PL | PL | PL | PH | PH | PH | PH |
| 185 * | 10 | 20 | 40 | 80 | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 |
| 186 * | PH | PH | PH | PH | K | K | K | K | K | K | K | K |
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Chip Identifier Table

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|-------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 226 * | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 227 * | | | | | | | | | | | | | | | | | | | | | | | | |
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***** Insert 6 digit error code from BECM between arrows. For example, BECM 1000 040010 indicates K '04' bit and PL '10' bit are at fault. *****

***** Rows and board associated with error codes (6788 only) *****

The 6788 boards in the CPU will be numbered with respect to the proximity of the CPU Boards. A maximum of 2 boards (24K System) may be installed. Board # 1 is the board closest to the CPU boards.

| | | | | | | | | | | | | |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 242 * | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | 01 | 02 | 04 | 08 |
| 243 * | PL | PL | PL | PL | PL | PL | PL | PL | PH | PH | PH | PH |
| 244 * | | | | | | | | | | | | |
| 245 * | 10 | 20 | 40 | 80 | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 |
| 246 * | PH | PH | PH | PH | K | K | K | K | K | K | K | K |
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Chip Identifier Table

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|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 287 * | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 288 * | PL | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH | PH |
| 289 * | | | | | | | | | | | | | | | | | | | | | | |
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| 297 * | | | | | | | | | | | | | | | | | | | | | | |

***** Insert 6 digit error code from BECM between arrows. For example, BECM 1000 040010 indicates K '04' bit and PL '10' bit are at fault. *****

2.2 ADDRESSING TESTS

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41 *****

```

Data Bus Stuck Test

This test is designed to insure the basic interconnections (Voltages, Chip enables, read/write logic, data lines) are existent within the module under test.

Procedure:

1. Start pattern at '000000'
2. Write/Read/Verify pattern to one location in each 4K bank except bank '0000'.
3. Done if pattern = 'FFFFFF' else set pattern to 'FFFFFF' and goto 2.

Error Example:
Screen displays "BECM 1000 020000. The error indicates that K bit '02' in bank '1000' of the board cannot have a one or a zero written to and/or read from.

NOTE : The banks tested start at bank '1000' and go in 4K increments to the end of memory.

```
63 *****
64 *                                     Data Bus Shorts Test
65 *
66 *                                     This test is designed to insure the data lines are not shorted to each other.
67 *
68 * Procedure:
69 *   1. Start pattern at '000001'
70 *   2. Write/Read/Verify pattern to one location in each 4K bank except bank '0000'.
71 *   3. Done if rotated be to all positions else rotate bit to the left and goto 2
72 *
73 * Error Example:
74 *   Screen displays "BECM 1000 000040. The error indicates that PL bit '40' in bank '1000'
75 *   of the board is shorted to another data line.
76 *
77 * NOTE : The banks tested start at bank '1000' and go in 4K increments to the end of memory.
78 *
79 *****
```

```
107 *****
108 *
109 * Bank/Page Addressing
110 *
111 * This test is designed to insure that all 4K banks on all boards can be
112 * addressed separately from each other.
113 *
114 * Procedure:
115 * 1. Start pattern at 'FFFFFF'
116 * 2. Write/Read/Verify pattern to one location in bank
117 * 3. Increment bank, decrement pattern (high 8 bits), goto 2 until last bank in memory
118 * 4. Read/Verify all patterns starting at first bank. (error here bank decoder fault)
119 *
120 * Error Example:
121 * 1. Screen displays "AECM 1000 5000 FFFFFFFF". The error indicates bank '1000' and
122 * '5000' access the same bank.
123 * NOTE : 1. The banks tested start at bank '0000' and go in 4K increments to the end of memory.
124 * 2. Address '0F00' will be displayed and used instead of address '0000'.
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126 *
127 *****
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191 *****

Address Line Shorts Test :

Write/read/verify the patterns at addresses shown checking for data faults. Read/verify the patterns starting at first address shown and check for the correct data. Any error at this point will be flagged as an addressing fault. This test is run on all 4K banks of memory.

DATA AND ADDRESS LINE ASSOCIATED.

| | | | |
|---------------|---------------|---------------|---------------|
| A0 | A1 | A2 | A3 |
| X001 = 010000 | X002 = 020000 | X004 = 040000 | X008 = 080000 |
| A4 | A5 | A6 | A7 |
| X010 = 100000 | X020 = 200000 | X040 = 400000 | X080 = 800000 |
| A8 | A9 | A10 | A11 |
| X100 = 030000 | X200 = 060000 | X400 = 0C0000 | X800 = 180000 |

Error Example:

Screen displays "AECM 1080 1010 FFFFFFFF. The error indicates bank 1000 has A4 and A7 shorted together.

- NOTE: 1. The banks tested start at bank '1000' and go in 4K increments to the end of memory. Bank '0000' is tested after the program is relocated to '1000'.
2. The 'X' in the addresses displayed will be 'O'-'F'.
3. Location '0001' (A0 in the first bank) is not checked in this test.
4. Testing A7-A11 on the 7588 actually tests the address lines at the multiplexer.

Address lines or Open Pins test :

218 * This test finds address line problems such as an address stuck at one state to the
219 * ram(s). Write/read/verify an 'FF' to the first bank address (address lines to RAM pins low).
220 * A high (one) is then shifted down the address lines. After each shift a '00' pattern is written
221 * to that address. The first bank address is then checked for the 'FF' written originally. An
222 * address error is flagged if the 'FF' has changed. The bits dropped indicate an open address
223 * line or open pin at that address. The test runs on all banks in memory.

ADDRESS LINE ASSOCIATED WITH ADDRESS

| | | | |
|-----------|-----------|------------|------------|
| X001 > A0 | X002 > A1 | X004 > A2 | X008 > A3 |
| X010 > A4 | X020 > A5 | X040 > A6 | X080 > A7 |
| X100 > A8 | X200 > A9 | X400 > A10 | X800 > A11 |

Error Example:

1. Screen displays "AECM 4080 4000 FFFFFFFF". The error indicates bank '4000' has A7 open or stuck low for the entire bank.
2. Screen displays "AECM 4008 4000 0000004". The error indicates bank '4000' has A3 open on PL '04' bit ram.

NOTE: 1. The banks tested start at bank '1000' and go in 4K increments to the end of memory. Bank '0000' is tested after the program is relocated to '1000'.

2. The 'X' in the addresses displayed will be '0'-'F'.
3. Location '0001' (A0 in the first bank) is not checked in this test.
4. Testing A7-A11 on the 7588 actually tests the address lines at the multiplexer.

 302 * Address Multiplexer Test for 16K RAM Chip Boards (7588 only) *****
 303 *

304 *
 305 * This test checks the high order address lines and the multiplexer that sends them to the
 306 * rams. Write/read/verify the patterns at addresses shown checking for data faults. Read/verify
 307 * the patterns starting at first address shown and check for the correct data. Any error at this
 308 * point will be flagged as an address fault. This test checks the address lines not tested in the
 309 * previous tests (A12 + A13).

--- DATA AND ADDRESS LINE ASSOCIATED FOR 7588 BD. (16 RAMS) ---

| | | | |
|---------------|---------------|---------------|---------------|
| A0 | A1 | A2 | A3 |
| X001 = 010000 | X002 = 020000 | X004 = 040000 | X008 = 080000 |
| A4 | A5 | A6 | A7 |
| X010 = 100000 | X020 = 200000 | X040 = 400000 | X080 = 800000 |
| A8 | A9 | A10 | A11 |
| X100 = 030000 | X200 = 060000 | X400 = 0C0000 | X800 = 180000 |
| A12 | A13 | A12 + A13 | |
| 1000 = 300000 | 2000 = 600000 | 3000 = C00000 | |

----- WRITING TO 3000 TESTS FOR A12 OPEN -----

Error Example:

1. Screen displays "AECM 00.9000 00.9200 FF. The error indicates bank '9000' has A9 open or stuck low on the address multiplexer.

NOTE: 1. In the address displayed the 'X' will be '1' or '9' only.

2. This test is not run when the bank address = 'OXXX'. Bank 0 (0000-3FFF) is tested with an 'X' value of 1.

3. For A12 or A12+A13, the values given for 'X' are, for purpose of explanation, '0R'ed over the '1', or '3', shown (will be '1', '3', '9', or 'E'). For A13 alone the value will be '2' or 'A'.

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 341 *

2.3 RAM CHIP TESTS

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 Simple Marching 1's/0's

This test is used only to remove the solid RAM failures before Moving Inversions.

Procedure:

1. Flood memory. Flood patt. = 'AAAAAA'. Complement patt. = '555555'. Address = '0000'
2. Set address to beginning of test area.
3. Read/Verify flooded pattern at address.
4. Complement flood pattern. Write/Read/Verify complement of flood pattern at address.
5. Check for last address. If last goto 6 else increment to next address and goto 3.
6. Goto moving inversion or restart address-data line tests

Error Example:
 Screen displays "BECM 2344 000002. The error indicates that the PL '02' bit RAM is bad.

NOTE: Locations '0000', '0001' and '000E' of the first bank are not checked in this test.

```
1 *****
2 #
3 #
4 #
5 #
6 # Procedure:
7 #   Not needed.
8 #
9 # Error Example:
10 #   Screen displays "BECM 2344 000002. The error indicates that PL bit '02'
11 #   at address '2344' is bad.
12 #
13 # NOTE:   Locations '0000', '0001' and '000E' of the first bank are not checked in this test.
14 #
15 *****
```

24 Bit Moving Inversions

This test is designed to exercise and test the functionality of the RAM chips.

3.0 Data Memory Diagnostics

3.1 ERROR CODE DESCRIPTIONS AND BOARD LAYOUT CHARTS

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DATA MEMORY ERROR CODES

Bit Error Data Memory (BEDM)

FORMAT: . BEDM bb.aaa Even -> xx Odd => xx PASS pppp"

WHERE: bb = bank address (code)
aaa = address (PC's)
xx = XOR of read & expected data for even and odd
pppp = that current pass number at error time

Address Error Data Memory (AEDM)

FORMAT: . AEDM bb.aaa bb.aaa xx PASS pppp"

WHERE: bb = bank address (code)
aaa = address (two conflicting addresses)
xx = XOR of read & expected data (See test error examples)
pppp = that current pass number at error time

Rows and board associated with error codes (7587 only)

The 7587 boards in the CPU will be numbered with respect to the proximity of the Control Memory Board(s). A maximum of 4 boards (512K System) may be installed. Board # 1 is the board closest to the Control Memory board(s).

Bank code = '00' means Board # 1 bottom two rows. Bank code = '40' means Board # 1 top two rows.
 Bank code = '80' means Board # 2 bottom two rows. Bank code = 'C0' means Board # 2 top two rows.
 Bank code = '20' means Board # 3 bottom two rows. Bank code = '60' means Board # 3 top two rows.
 Bank code = 'A0' means Board # 4 bottom two rows. Bank code = 'E0' means Board # 4 top two rows.

(EVEN)

(ODD)

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|

(8000-FFFF)

Bank code = '40', 'C0', '60' or 'E0' for Board # 1,2,3 or 4

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|

(2000-7FFF)

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|

(8000-FFFF)

Bank code = '00', '80', '20' or 'A0' for Board # 1,2,3 or 4

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|

(0000-7FFF)

↑
 ↑
 ↑<= 2 on boards 2,3,4

Rows and board associated with error codes (6787 only)

The 6787 boards in the CPU will be numbered with respect to the proximity of the Control Memory boards. A total of two boards (64K System) may be installed. Board # 1 is the board closest to the Control Memory boards. The bank code will always be '00' for all tests with one exception, if a 6787 bd. is in the first slot and a 7587 bd. is in the second, the Quick RAM and Moving Inversions will test all the RAM they see (Including 7587). When the 6787 board type is selected the Data-Address line tests are executed on 64K max.

(EVEN)

(ODD)

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------------------|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
| | | | | | | | | Board #1 = (4000-5FFF) | | | | | | | | | |
| | | | | | | | | Board #2 = (C000-DFFF) | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------------------|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
| | | | | | | | | Board #1 = (6000-7FFF) | | | | | | | | | |
| | | | | | | | | Board #2 = (E000-FFFF) | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------------------|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
| | | | | | | | | Board #1 = (0000-1FFF) | | | | | | | | | |
| | | | | | | | | Board #2 = (8000-9FFF) | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------------------|----|----|----|----|----|----|----|----|---|
| 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P | 01 | 02 | 04 | 08 | 10 | 20 | 40 | 80 | P |
| | | | | | | | | Board #1 = (2000-3FFF) | | | | | | | | | |
| | | | | | | | | Board #2 = (A000-BFFF) | | | | | | | | | |

Bank Code is always '00'

!!! IMPORTANT !!! AB and A12 are reversed on this board as shown in the test headers for the Address Shorts and Address Line or Open Pins tests.



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3.2 ADDRESSING TESTS

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33 *****
34 *
35 *
36 *           Data Bus Stuck Test
37 *
38 *           This test is designed to insure the basic interconnections (Voltages, Chip enables,
39 *           read/write logic, data lines) are existent within the module under test.
40 *
41 *           Procedure:
42 *           1. Start pattern at '00'
43 *           2. Write/Read/Verify pattern to one location in each page (row of chips) of all banks.
44 *           3. Done if pattern = 'FF' else set pattern to 'FF' and goto 2.
45 *
46 *           Error Example:
47 *           Screen displays "BEDM 80.2000 Even => 00 Odd => 20". The error indicates that
48 *           the '20' bit on the odd side of the board in bank '80' cannot have a one or a zero
49 *           written to and/or read from.
50 *
51 *           NOTE :   When the 6787 type is selected, the address used for each page will be the first
52 *           address in that 8K page (row of chips). When the 7587 type is selected, the address
53 *           used will be '2000' or 'A000' for the two 32K pages in each 64K bank.
54 *****

```

```

70 *****
71 *                                     Data Bus Shorts Test
72 *
73 *                                     This test is designed to insure the data lines are not shorted to each other.
74 *
75 * Procedure:
76 *   1. Start pattern at '01'
77 *   2. Write/Read/Verify pattern to one location in each page (row of chips) of all banks.
78 *   3. Done if rotated be to all positions else rotate bit to the left and goto 2
79 *
80 * Error Example:
81 *   Screen displays "BEDM 80.2000 Even => 00 Odd => 20". The error indicates that the
82 *   '20' bit on the odd side of the board in bank '80' is shorted to another data line.
83 *
84 * NOTE :   When the 6787 type is selected, the address used for each page will be the first
85 *           address in that 8K page (row of chips). When the 7587 type is selected, the address
86 *           used will be '2000' or 'A000' for the two 32K pages in each 64K bank.
87 *
88 *****

```

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104 *****
105 #
106 #
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131 #
132 #
133 *****

```

Bank/Page Addressing

This test is designed to insure that all banks (64K = bank) and pages can be addressed separately from each other. All banks after the first 64K bank have the first 8K physically mapped back to the first 64K bank. This overlay of memory is also tested.

Procedure:

Part 1.

1. Start pattern at 'FF'
2. Write/Read/Verify pattern to one location in page (8K for 6787 or 32K for 7587)
3. Increment to next page, decrement pattern, and goto 2 until done all pages in memory
4. Read/Verify all patterns starting at first page. (error here bank/page decoder fault)

Part 2. (Part 2 runs only on 7587 bd.)

1. Write/Read/Verify 'FF' to '0000' in bank 0. (error here data error)
2. Increment bank pointer and write '00' to address '0000' in next bank.
3. Read bank 0 and expect 'FF' to be over written with '00'. (error here address fault)
4. Goto 1 until '00' written to '0000' in all banks after 'FF' written same in bank 0.

Error Example:

1. Screen displays "AEDM 80.2000 80.A000 FF. The error indicates page '2000' and 'A000' in bank '80' access the same page.
2. Screen displays "AEDM 80.2000 00.2000 FF. The error indicates bank '00' and '80' the same bank.

NOTE : When the 6787 type is selected, the address used for each page will be the first address in that 8K page (row of chips). When the 7587 type is selected, the address used will be '2000' or 'A000' for the two 32K pages in each 64K bank.

```

186 * *****
187 * Parity Generator Test
188 *
189 * This test is designed to insure the parity generator on the 6789 board is working.
190 *
191 * Procedure:
192 * 1. Start pattern at '00'
193 * 2. Write/Read/Verify pattern to one location in each page (row of chips) of all banks.
194 * 3. Done if incremented to 'FF' else increment pattern goto 2.
195 *
196 * Error Example:
197 * Screen displays "BEDM 80.2000 Even => 00 Odd => 00". The error indicates that the
198 * parity ram on the even or odd side of the board in bank '80' is bad or the
199 * parity generator on the 6789 board is not working.
200 *
201 * NOTE : When the 6787 type is selected, the address used for each page will be the first
202 * address in that 8K page (row of chips). When the 7587 type is selected, the address
203 * used will be '2000' or 'A000' for the two 32K pages in each 64K bank.
204 * *****

```

Address Line Shorts Test :

Write/read/verify the patterns at addresses shown checking for data faults. Read/verify
the patterns starting at first address shown and check for the correct data. Any error at this
point will be flagged as an addressing fault. The tests are run on all pages of all banks.

DATA AND ADDRESS LINE ASSOCIATED FOR 7587 BD. (16k RAMS)

AB0 AB1 AB2
X002 = 01 X004 = 02 X008 = 04

AB3 AB4 AB5 AB6
X010 = 08 X020 = 10 X040 = 20 X080 = 40

DATA AND ADDRESS LINE ASSOCIATED FOR 6787 BD. (4 RAMS)

A0 A1 A2 A3
X002 = 01 X004 = 02 X008 = 04 X010 = 08

A4 A5 A6 A7 A10
X020 = 10 X040 = 20 X080 = 40 X100 = 80 X200 = 03

A9 AB A11
X400 = 06 X800 = 0C 1000 = 18

IMPORTANT !!! : Take notice that AB and A10 were wired wrong on the 6787 board.
The errors will be reported as shown in the preceding chart.

Error Example:
Screen displays "AEDM 40.2080 40.2010 FF. The error indicates page 2000 in bank '40'
has AB3 and AB6 (A3 and A6 for 6787) shorted together.

NOTE:
The addresses shown above are for the even RAMS (left side). Add one for odd address.
The address displayed when in bank zero (00.) the 'X' will be '0', '2', '4', '6', '8',
'A', 'C' or 'E', for 6787 bd. The 7587 board will have either '2' or 'A' for all banks.
If testing the 7587 and varying errors occur during this test, place an IC clip on the
address driver of the failing page. The address driver will be either L10, L29, L48
or L67. The IC clip must have 470 ohm pull-ups connected to the address lines.

For A11 when testing 6787 bds. the values given for 'X' are ,for purpose of
explanation, 'DR'ed over the '1' shown.

288 *****
289 * Address lines or Open Pins test :
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329 *****

This test finds address line problems such as an address stuck at one state to the ram(s). Write/read/verify an 'FF' to location zero (all address lines to the RAM pins low). A high (one) is then shifted down the address lines. After each shift a '00' pattern is written to that address. Location zero is then checked for the 'FF' written originally. An address error is flagged if the 'FF' has changed. The bits dropped indicate an open address line or open pin at that address. The test runs on all pages of all banks.

ADDRESS LINE ASSOCIATED FOR 7587 BD. (16k RAMS)

X002 > AB0 X004 > AB1 X008 > AB2

X010 > AB3 X020 > AB4 X040 > AB5 X080 > AB6

DATA AND ADDRESS LINE ASSOCIATED FOR 6787 BD. (4 RAMS)

X002 > A0 X004 > A1 X008 > A2 X010 > A3

X020 > A4 X040 > A5 X080 > A6 X100 > A7 X200 > A10

X400 > A9 X800 > AB

1000 > A11

IMPORTANT !!! : Take notice that AB and A10 were wired wrong on the 6787 board. The errors will be reported as shown in the preceding chart.

Error Example:

1. Screen displays "AEDM 40.2080 40.2000 FF. The error indicates page '2000' of bank '40' has AB6 (A6 for 6787) open or stuck low for the entire page.
2. Screen displays "AEDM 40.2009 40.2001 04. The error indicates page '2000' of bank '40' has AB2 (A2 for 6787) open on the '04' bit ram on the odd side of the board (Odd address odd side of board)

NOTE: The addresses shown above are for the even RAMS (left side). Add one for odd address. The address displayed when in bank zero (00.) the 'X' will be '0', '2', '4', '6', '8', 'A', 'C' or 'E' for 6787 bd. The 7587 board will have either '2' or 'A' for all banks. For A11 when testing 6787 bds. the values given for 'X' are, for purpose of explanation, 'OR'ed over the '1' shown.

374 *****
375 * Address Multiplexer Test for 16K RAM Chip Boards (7587 only)
376 *

377 * This test checks the high order address lines and the multiplexer that sends them to the
378 * rams. Write/read/verify the patterns at addresses shown checking for data faults. Read/verify
379 * the patterns starting at first address shown and check for the correct data. Any error at this
380 * point will be flagged as an address fault.
381 *

382 * --- DATA AND ADDRESS LINE ASSOCIATED FOR 7587 BD. (16 RAMS) ---
383 *

384 * A0 A1 A2 A3
385 * X002 = 01 X004 = 02 X008 = 04 X010 = 08

386 * A4 A5 A6 A7 A8
387 * X020 = 10 X040 = 20 X080 = 40 X100 = 80 X200 = 03

388 * A9 A10 A11 A12 A13 A12 + A13
389 * X400 = 06 X800 = 0C 1000 = 18 2000 = 30 4000 = 60 6000 = 00
390 *

391 * ----- WRITING TO 6000 TESTS FOR A12 OPEN -----
392 *
393 *
394 *

395 * Error Example:

396 * 1. Screen displays "AEDM 00.3000 00.2000 FF. The error indicates page '2000' of
397 * bank '00' has A11 open or stuck low on the address multiplexer.

398 * NOTE:

399 * The addresses shown above are for the even rams (left side). Add one for odd address.
400 * The address displayed the 'X' will be '2' or 'A'.

401 *
402 * For A11, A12 and A12+A13, the values given for 'X' are, for purpose of explanation,
403 * 'OR'ed over the '1', '2', or '6' shown (will be '3', '2', '6', 'B', 'A' or 'E'). The
404 * values for A13 alone will be '4' or 'C'.
405 *

406 *****

3.3 RAM CHIP TESTS

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```

Simple Marching 1's/0's

This test is used only to remove th solid RAM failures before Moving Inversions.

Procedure:

1. Flood memory with 'AA'. Flood patt. = 'AA'. Complement patt. = '55'. Addr. + bank = 0
2. Set bank to zero
3. Set address to zero
4. Read/Verify flooded pattern at address.
5. Complement flood pattern. Write/Read/Verify complement of flood pattern at address.
6. Check for last address in bank. If last goto 7 else inc. to next address and goto 4.
7. Check if done all banks. If done goto 8 else increment to next bank and goto 3.
8. Check if done with memory flooded with '55'. If done '55' goto 9 else 2 (First = '55')
9. Check if done when flooded 'AA' and complement = '54' to test parity ram. Goto 10
10. If not done parity pass set complement pattern to '54' and goto 2 else goto 11.
11. Goto moving inversion or restart address-data line tests

Error Example:
Screen displays "BEDM 80.2344 Even => 00 Odd => 20". The error indicates that
the '20' bit on the odd side of the board in bank '80' at address '2345' is bad.

```
1 *****
2 *
3 *
4 *
5 *
6 * Procedure:
7 *   Not needed.
8 *
9 * Error Example:
10 *   Screen displays "BEDM 80.2344 Even => 00 Odd => 20". The error indicates that
11 *   the '20' bit on the odd side of the board in bank '80' at address '2345' is bad.
12 *
13 *****
```

4.0 CPU Registers Diagnostics

4.1 ERROR CODE DESCRIPTIONS

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8 Bit Registers Test
Error Type 1: Register TT Xor = (XX) Pass = pppp
Error Type 2: Register TT and CC Xor = (XX) Pass = pppp
WHERE:
TT = Register under test
CC = Conflict register
XX = XOR of expected and actual patterns
pppp = that current pass number at error time

ERROR DISCUSSION:

An ERROR TYPE 1 is caused when
register TT fails to hold the test pattern.

An ERROR TYPE 2 is caused when while
testing register TT, register CC was found
not to contain the expected.

D

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421 *****
422 Auxiliary Memory Test
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475 *****

```

Error Type 1: Aux #TT Xor = (XXXX) Pass = pppp
Error Type 2: Aux #TT and Aux #CC Xor = (XXXX) Pass = pppp
Error Type 3: Stack and Aux #TT Xor = (XXXX) Pass = pppp

WHERE:
TT = Auxiliary Register under test
CC = Conflict auxiliary register
XXXX = XOR of expected and actual patterns
pppp = that current pass number at error time

ERROR DISCUSSION:
An ERROR TYPE 1 is caused when auxiliary register TT fails to hold the test pattern.
An ERROR TYPE 2 is caused when while testing register TT, register CC was found not to contain the expected.
An ERROR TYPE 3 is caused when while testing register TT, the Stack was found not to contain the expected.

Stack Memory Test

Error Type 1: Aux #TT Failure Xor = (XXXX) Pass = pppp
Error Type 2: Stack Failure Xor = (XXXX) Pass = pppp

WHERE:
TT = Auxiliary Register under test
XXXX = XOR of expected and actual patterns
pppp = that current pass number at error time

ERROR DISCUSSION:
An ERROR TYPE 1 is caused when auxiliary register TT fails to hold the test pattern.
An ERROR TYPE 2 is caused when the Stack fails to hold the test pattern.

4.2 REGISTER DIAGNOSTICS

GENERAL PURPOSE REGISTERS

This diagnostic is designed to test the F0-F7, CH, CL, PH, PL, SL and K registers in such a manner that it may be determined whether or not bits have gone bad, or whether a conflict in addressing (of registers) exists. It is accomplished in the following manner:

- a) Flood all registers with all zeroes.
- b) For each register:
 1. Set the test pattern to 00.
 2. Set the test register to the test pattern value.
 3. Verify that the test register holds the test pattern value.
 4. Verify that the other registers have not been changed.
 5. Add 01 to the test pattern value.
 6. Repeat steps 2 through 5 until test pattern equals 00.
 7. Repeat steps 1 through 6 until all registers have been tested. Note that the SH register is not tested, due to the ability of system hardware to change its bit status.

A check on register K is made prior to the occurrence of any test displays. Should REGISTER TEST fail to appear on the CRT, then register K may be failing.

When RESET is keyed during this program, the KEY SF'? message should be displayed.

4.3 AUXILIARY

This diagnostic is designed to check the Auxiliary registers to determine whether each Auxiliary register will:

- a) Hold a particular pattern.
- b) Have any effect on any other auxiliary register.
- c) Have any effect on any stack level.

Two separate patterns are used by the routine:

- a) Test pattern - One of 8 patterns (below) which is expected to be in the Auxiliary register under test.

1. 0000 0001 0000 0001
2. 0000 0010 0000 0010
3. 0000 0100 0000 0100
4. 0000 1000 0000 1000
5. 0001 0000 0001 0000
6. 0010 0000 0010 0000
7. 0100 0000 0100 0000
8. 1000 0000 1000 0000

- b) Conflict pattern - Either all 0's or all 1's, depending on what pass the program is executing.

The tests are executed as follows:

- a) All Auxiliary registers and the Stack are initialized with the conflict pattern.
- b) The current test Auxiliary register is written with the current test pattern.
- c) The test Auxiliary register is read as follows:
 1. TPA - writes the test pattern.
 2. PC's are complemented.
 3. XPA - reads the test pattern.
 4. PC's are checked against the expected pattern.

5. TAP - reads the complemented test pattern.
 6. PC's are complemented again.
 7. PC's are checked against the expected pattern.
-
- d) The remaining Auxiliary registers and the stack are checked to determine whether or not they still contain the conflict pattern.
 - e) Steps b) through d) are repeated until all test patterns have been tested.
 - f) Steps b) through e) are repeated until all 32 Auxiliary registers have been tested.
 - g) The conflict pattern is complemented and steps a) through f) are repeated.

When RESET is keyed during this program, the KEY SF'? message should be displayed.

4.4 STACK

This diagnostic is designed to check the Stack, to determine whether each Stack level will:

- a) Hold a particular pattern.
- b) Have an effect on any other Stack level.
- c) Have an effect on any Auxiliary register.

When RESET is keyed during this program, the KEY SF'? message should be displayed.

APPENDIX B
RUN TIME SCREENS

***** SYSTEM 2200 *****

Select item with SPACE & BACKSPACE.
Key RUN to execute, CLEAR or PREV SCRN for previous screen.

MEMORY 0120 K
TERMINAL 1

- # VP BASIC-2
- . MVP BASIC-2
- . Diagnostics

***** CUSTOMER DIAGNOSTIC MENU *****

Select item with SPACE & BACKSPACE.
Key RUN to execute, CLEAR or PREV SCRN for previous screen.

MEMORY 0120 K
TERMINAL 1

- # CPU Instructions
- . Control Memory
- . Data Memory
- . CPU Registers
- . All of the Above

KEY SF'?

*** USER MENU ***

SF'00 - CPU Instructions
SF'01 - Control Memory
SF'02 - Data Memory
SF'03 - CPU Registers
SF'04 - All of the Above

KEY SF'?

*** FIELD SERVICE MENU ***

SF'00 - CPU Instructions Diagnostic
SF'01 - Control Memory Addressing
SF'02 - Control Memory Moving Inversions
SF'03 - Control Memory Addr. and Movi. Inv.
SF'04 - Data Memory Addressing
SF'05 - Data Memory Moving Inversions
SF'06 - Data Memory Addr. and Movi. Inv.
SF'07 - 8 Bit Registers
SF'08 - Auxiliary Registers
SF'09 - Stack Registers
SF'10 - 8 Bit, Auxiliary and Stack

*** CPU DIAGNOSTIC *** Rev. 1170
Pass 0011

IMMED REG 07
REG INSTR 10
X-REG INSTR 1A
MASK BR 1C
REG BR 21
IMMED R/W 4A
REG R/W 55
AUX/STACK R/W 76

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0028K No Err's

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'CONTINUE' to Start

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K No Err's

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'CONTINUE' to Start

*** CPU REGISTERS DIAGNOSTICS *** Rev. 1170

No Err's Press 'P' to Print Errors at /215 ('T' for /204).

Press 'CONTINUE' to Start

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Press 'CONTINUE' to Start

*** Enter Actual Memory Size ***

(Suspect Module Should be in Second Slot)

For 7588, Press '1' - 44K, '2' - 60K.

For 6788, Press '5' - 20K, '6' - 24K.

BOARD REPAIR USE ONLY !!!

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Data Bus Stuck Test (Pass 0001)

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Data Bus Shorts Test (Pass 0001) --

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Bank/Page Addressing (Pass 0001)

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Address Line Short Test (Pass 0001)

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Address Line/Pin Open (Pass 0001)

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Address Multiplexer (Pass 0001) --

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Simple Marching 1's/0's (Pass 0001) --

*** CONTROL MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0032K Ramboard Selected = 7588 No Err's
Press '6' for 6788 or '7' for 7588.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
24 Bit Moving Inversion (Pass 0001) --

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's
7 or '7' for 7587.

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'R' to Select Memory Size if Other Than Specified.

Press 'CONTINUE' to Start

*** Enter Actual Memory Size ***

(Suspect Module Should be in Second Slot)

For 7587, Press '1' - 144K, '2' - 176K, '3' - 200K, '4' - 232K.

For 6787, Press '5' - 048K, '6' - 064K.

BOARD REPAIR USE ONLY !!!

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's

Press '6' for 6787 or '7' for 7587.

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'R' to Select Memory Size if Other Than Specified.

Data Bus Stuck Test (Pass 0001)

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's

Press '6' for 6787 or '7' for 7587.

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'R' to Select Memory Size if Other Than Specified.

Data Bus Shorts Test (Pass 0001) --

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's

Press '6' for 6787 or '7' for 7587.

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'R' to Select Memory Size if Other Than Specified.

Bank/Page Addressing (Pass 0001) --

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's

Press '6' for 6787 or '7' for 7587.

Press 'P' to Print Errors at /215 ('T' for /204).

Press 'R' to Select Memory Size if Other Than Specified.

Parity Generator Test (Pass 0001)

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's
Press 'E' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Address Line Short Test (Pass 0001) --

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's
Press 'E' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Address Line/Pin Open (Pass 0001)

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's
Press 'E' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Address Multiplexer (Pass 0001)

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's
Press 'E' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
Simple Marching 1's/0's (Pass 0001)

*** DATA MEMORY DIAGNOSTIC *** Rev. 1170

Memory Size = 0120K Ramboard Selected = 7587 No Err's
Press 'E' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.
9 Bit Moving Inversions (Pass 0001) --

*** CPU REGISTERS DIAGNOSTICS *** Rev. 1170

No Err's Press 'P' to Print Errors at /215 ('T' for /204).

Press 'CONTINUE' to Start

*** CPU REGISTERS DIAGNOSTICS *** Rev. 1170

No Err's Press 'P' to Print Errors at /215 ('T' for /204).

8 Bit Registers Test (Pass 0001) --

*** CPU REGISTERS DIAGNOSTICS *** Rev. 1170

No Err's Press 'P' to Print Errors at /215 ('T' for /204).

Auxiliary Memory Test (Pass 0001) --

*** CPU REGISTERS DIAGNOSTICS *** Rev. 1170

No Err's Press 'P' to Print Errors at /215 ('T' for /204).

Stack Memory Test (Pass 0001) --

*** CPU DIAGNOSTIC *** Rev. 1170
Pass 0000

Chain Mode Pass = 0000

IMMED REG 07
REG INSTR 10
X-REG INSTR 1A
MASK BR 1C
REG BR 21
IMMED R/W 4A
REG R/W 55
AUX/STACK R/W 7E

*** CONTROL MEMORY DIAGNOSTIC ***

Rev. 1170

Memory Size = 0032K

No Err's

DIAGNOSTIC IS IN CHAIN MODE

Address Line/Pin Open (Pass 0001) --

*** DATA MEMORY DIAGNOSTIC ***

Rev. 1170

Memory Size = 0120K

No Err's

DIAGNOSTIC IS IN CHAIN MODE

9 Bit Moving Inversions (Pass 0001) --

*** CPU REGISTERS DIAGNOSTICS ***

Rev. 1170

No Err's

DIAGNOSTIC IS IN CHAIN MODE

Auxiliary Memory Test (Pass 0001)

Error screen example.

***** DATA MEMORY DIAGNOSTIC ***** Rev. 1170

Memory Size = 0144K Ramboard Selected = 7587 0016 Err's
Press '6' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.

Data Bus Stuck Test (Pass 0001) --
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001

Screen Full Press 'CONTINUE' or 'RUN' or 'L'

Scope loop error screen example

***** DATA MEMORY DIAGNOSTIC ***** Rev. 1170

Memory Size = 0144K Ramboard Selected = 7587 0016 Err's
Press '6' for 6787 or '7' for 7587.
Press 'P' to Print Errors at /215 ('T' for /204).
Press 'R' to Select Memory Size if Other Than Specified.

Data Bus Stuck Test (Pass 0001) --
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001
BEDM 80.2000 Even => FF Odd => FF Pass = 0001

Data Bus Stuck Test (Pass 0001) -- TEST SHOWN IN SCOPE LOOP

MAINTENANCE SCHEDULE

CPU's (MVP, VP, T, S, A, B, C)

ANNUALLY

~~CHECK OFF ANNUALLY WITH~~ DATE AND INITIALS

- ✓ FANS
- ✓ VOLTAGES & RIPPLE
- CLEANED
- RUN DIAGNOSTICS

LVP/SVP

ANNUALLY

~~CHECK OFF ANNUALLY WITH~~ DATE AND INITIALS

- ✓ FANS
- ✓ VOLTAGES & RIPPLE
- CLEANED
- DSDD HEADS CLEANED
- DSDD DOOR ADJUSTMENT
- PLL
- RUN DIAGNOSTICS

TERMINALS

ANNUALLY

~~CHECK OFF ANNUALLY WITH~~ DATE AND INITIALS

- ✓ FAN (IF APPLICABLE)
- ✓ VOLTAGES & RIPPLE
- CLEANED
- SCREEN (SIZE, LINEARITY, FOCUS)

MAINTENANCE SCHEDULE

10 MEG DRIVES (44B, 44A, 43A, HAWK)

SEMI-ANNUALLY OR AS NECESSARY

DATE AND INITIAL

CLEAN HEADS

CLEAN BOWL

CHECK BRUSHES

REPLACE FILTER

CHECK TRACK & ADJ.

AS NECESSARY

CHECK ALIGNMENT

ANNUALLY

CHECK DRIVE BELT (HAWK ONLY)

DATE AND INITIAL

FLOPPY DISK DRIVES

~~SEMI~~ ANNUALLY

CLEANED

HEADS CLEANED

REPLACE HEAD LOAD PAD

DOOR ADJUSTMENT

CHECK DRIVE BELT

AS NECESSARY

CHECK ALIGNMENT

MAINTENANCE SCHEDULE

PHOENIX

QUARTERLY

DATE AND INITIAL

PREFILTER CHECK + CLEAN

ABSOLUTE FILTER CHECK (REPLACE AS NECESSARY)

SEMI-ANNUALLY

INSPECT ACTUATOR

CLEAN RAILS AND BEARINGS

VELOCITY GAIN

AS NECESSARY

ALIGNMENT CHECKED

PREFILTER CHANGED

ABSOLUTE FILTER CHANGED

ANNUALLY

CHECK INTERLOCK SWITCHES

CHECK DRIVE BELT

MAINTENANCE SCHEDULE

2231W-1,-2,-3,-6

QUARTERLY

DATE AND INITIAL

VACUUM PRINT AREA

CLEAN AND LUBE HEAD

CLEAN CARRIAGE BEARINGS AND RAILS

CLEAN TIMING FENCE (DRY CLOTH)

CHECK PRINT QUALITY

CHECK VFU AND PAPER TAPE
ANNUALLY

CLEAN ~~PRINTERS~~ PRINTER

CHECK BELTS

CHECK ~~V~~ TAGS

~~AS REQUIRED~~

MAINTENANCE SCHEDULE

2221W

QUARTERLY

DATE AND INITIAL

VACUUM PRINT AREA

CLEAN AND LUBE HEAD

CLEAN CARRIAGE BEARINGS AND RAILS

CLEAN TIMING FENCE (DRY CLOTH)

CHECK PRINT QUALITY

CHECK VFU AND PAPERTAPE

SEMI-ANNUALLY

DATE AND INITIAL

CHECK ALL BELTS (ESP. TACH)

CHECK STRIKER BAR

CHECK PAPER GUIDES

CHECK FANS

CHECK VOLTAGES

SLOPE CHECK WS

MAINTENANCE SCHEDULE

BAND PRINTER

SEMI-ANNUALLY

DATE AND INITIAL

CLEAN ENTIRE PRINTER

CHECK BAND (OPERATOR-CLEANED REGULARLY)

CLEAN RIBBON PATH, ROLLERS, SENSOR

CHECK FAN

CHECK PRINT QUALITY

CHECK RIBBON MOVEMENT

CHECK BAND MOVEMENT

CHECK BELTS

AS NECESSARY

DATE AND INITIAL

HAMMOL FLIGHT TIME ~~CHECKED~~ ADJUSTED

MAINTENANCE SCHEDULE

CHAINTRAIN

QUARTERLY

DATE AND INITIAL

CLEAN TYPE FACE

VACUUM PRINTER

CHECK CHAIN LUBRICANT

CLEAN RIBBON SENSORS

CHECK PRINT QUALITY

CHECK VFU AND PAPER TAPES

CHECK ALL BELTS

ANNUALLY

DATE AND INITIAL

CLEAN FILTER UNDER CARTRIDGE

CHECK FANS

GREASE CLUTCH RELEASE LEVER / THRUST WASHER

LIGHT OIL VFU PIVOT PIN

LIGHT OIL IMPRESSION CONTROL LINKAGE

GREASE YOKE LATCH LINKAGE AND PINS

LIGHT OIL YOKE LATCH PIVOT PIN AND SPRING

M-E-M-O-R-A-N-D-U-M

TO: R. DONAHUE
FROM: W. KUHN
DATE: FEBRUARY 27, 1984
SUBJECT: VOLTAGE/HERTZ CONVERSION OF WANG EQUIPMENT

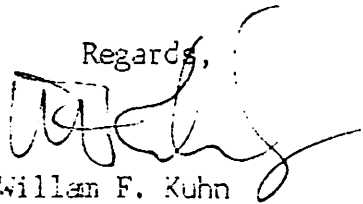
Bill Fenter
FPI
W. Kuhn
2/25/85

Roy: For some time I've been attempting to provide you with a Matrix that identifies what equipment can or can not be converted for voltage and Hertz.

The attached list indicates the mix and complexity of this apparent simple request. There are several reasons for this phenomenon but I don't think they are worth going into.

Most of the parts pricing is available but I have not attempted to price out the labor. If you have a further interest in doing these conversions that require parts and labor please let me know and I'll pursue the additional pricing.

Regards,



William F. Kuhn
DCS Federal National Accounts
Customer Engineering

cc: P. McCauley
D. Macurdy
S. Turner

CONFIDENTIAL

doc. #0164k

| | | |
|---------|---|------------------|
| VS/101 | Yes | Yes |
| VS/4250 | Yes | Yes |
| VS/100 | Yes | No |
| | Change Linear Power Supply 270-0450 for 60Hz 270-0450-1 for 50Hz | 208/230 VAC +10% |
| VS/90 | Yes | No |
| | Change Linear Power Supply 270-0450 for 60Hz 270-0451-1 for 50Hz | 208/230 VAC +10% |
| VS/80 | Yes | Yes |
| | Use the following for 60Hz: 270-0440 Power Supply with reg PCB 279-0303 Power Box assembly 725-0053 8" Floppy Disk Drive | |
| | Use the following for 50Hz: 270-0440-1 Power Supply with reg PCB 279-0303-1 Power Box assembly 725-0053-1 8" Floppy Disk Drive | |

NOTE: The cost of a 725-0053, 8" Floppy Disk Drive assembly is approximately \$1,100.00. An alternative to replacing the Disk Drive, would be to change the drive motor pulley and belt.

726-1027 Belt 60Hz
726-1089 Pulley 60Hz

726-0224 Belt 50Hz
726-1088 Pulley 50Hz

| | | |
|----------------------------|--|--------|
| VS25/45 | Yes | Yes |
| | For 50Hz operation change: Transformer 410-0136 Fuse 360-1040SV Transformer Cable 220-0312 Transformer Cable 220-0313 Power Supply DIP switches | |
| VS25/45 SA851 8" Floppy | Yes | Yes |
| | For 60Hz use the following: Belt 726-1027 Pulley 726-1089 | 115VAC |
| | For 50Hz use the following: Belt 726-0224 Pulley 726-1088 | 220VAC |

8008 AB Quantum 1100
(20 or 40 MS)

Yes

Yes
115VAC

For 50Hz use the following:
Belt 726-2512
Pulley 726-2501
Motor 726-2503

For 50Hz use the following:
Belt 726-2506
Pulley 726-2505
Motor 726-2507

230VAC

VS:85

No Switch necessary operates
47-53Hz

Use Power Eilter Box
279-0554 for 90-130VAC

Use Power Filter Box
279-0554-1 for
180-260VAC

Domestic & International

2256 Archiver Master
8 Floppy Drive SA850/851

Yes

For 50Hz use the following:
Belt 726-1027
Pulley 726-1089

For 50Hz use the following:
Belt 756-0224
Pulley 726-1088

For 60Hz XFMR HARNESS
270-3180

For 50Hz XFMR HARNESS
270-3179

| Part | Rating | Voltage | Method of Change | Parts |
|-----------|--------------|------------|-----------------------------|-----------------------------|
| 2235 | 50/60 | 110 or 220 | Reverse Plug inside unit | none |
| 5577 | 50/60 | 110 or 220 | Power Supply Switch | none |
| DK20 | 50/60 | 110 or 220 | Power Supply Switch | none |
| PC-PM011 | 50/60 | 110 or 220 | Power Supply Switch | none |
| 41W/81W | <u>50 HZ</u> | 110 or 220 | Chassis Switch | 60 HZ Chassis 270-0559 |
| 41W/81W | <u>50 HZ</u> | 110 or 220 | Chassis Switch | 50 HZ Chassis 270-0559-1 |
| 41WC/81WC | <u>60 HZ</u> | 110 or 220 | Chassis Switch | 60 HZ Chassis 270-0560 |
| 41WC/81WC | <u>50 HZ</u> | 110 or 220 | Chassis Switch | 50 HZ Chassis 270-0560-1 |

Note: This list contains the correction to Steve Eskenazi's list. The correction to the 81W shows a different chassis for 50 and 60 HZ on both the 81W and the 81WC. All chassis are switchable between 110 and 220.

We do not advise changing the 225V-1 and 6560 units because of the time element. The 2273 and 2274 printers can be converted if they have the proper universal power supplies. The Telex and Kennedy Drives can be converted more easily than disks.

| <u>Model</u> | <u>60HZ</u> | <u>50HZ</u> |
|--------------------------|-------------|---|
| 2219 Telex Tape Drive | | Kit for conversion from 60 to 50 (725-0117) contains fans, blowers, pulley, and belts. |
| 2209 Kennedy | | |
| Fan | 400-1013 | 400-1016 |
| Blower Assy. | 726-6175 | 726-6190 220V 50HZ 726-6198 240V 50HZ 726-6189 |
| Fuse Label 220V 50HZ | | 726-6189 |
| Fuse F-4 | 350-1080 SB | 726-3228 |
| Fuse F-1 | 726-1369 | 198-0067-080, Euro local |
| 2265V-1 | | |
| Varistor | N/A | 726-6517 |
| Transformer 2 PCB PS | 726-5828 | 726-5829 |
| Transformer 3 PCB PS | 726-5545 | 726-5740 |
| Triac Start | 726-5569 | 726-5738 |
| Capacitor Start | 726-5564 | 726-6679 |
| Spindle MTR Assy. | 726-5557 | 726-6515 |
| Blower Assy. | 726-5552 | 726-5741 |
| Belt Drive | 726-5559 | 726-5736 |
| Hour Meter | 726-6626 | 726-5742 |
| AC CKT BKR | 726-5560 | 726-5743 |
| DC CKT BKR | 726-5563 | 726-5744 |
| Fan (Scan 2) | 400-1013 | 400-1017 |
| 2265V-2 | | |
| Power Supply | 726-5591 | 726-6518 |
| Spindle MTR | 726-5590 | 726-6721 |
| Belt | 726-5592 | 726-5731 |
| 6560 Hawk 60/50 | | Kit for conversion from 60 to 50 (726-5818) contains pulleys, belts, and power plug. |

| | | |
|-----------------|----------|----------|
| Power Supply | 726-5777 | 726-5797 |
| Spindle MTR BP3 | 726-6666 | 726-5798 |
| Power | 726-5776 | 726-5801 |
| Left | 726-5559 | 726-5799 |
| Spindle MTR BP4 | 726-6726 | 726-6753 |
| Cap B/WR Start | 726-6622 | 726-5802 |
| AC Line Filter | 726-6582 | 726-6583 |

Model 5574/2273 voltage frequency conversions

All models 5574 and 2273 which contain the domestic type power supply will operate only at 115V 60HZ.

In order to convert a printer with domestic power supply to any other frequency or voltage combination the universal power supply (CEM # 251102-003) and regulator card (726-1109, CEM 251985-001) must be installed. Estimated installation time 35 minutes.

The following chart reflects the harness plug connections for the universal power supply.

UNIVERSAL TRANSFORMER HARNESS PLUG CONNECTIONS

| Input Voltage/ Frequency | A9P4 Connects to Rectifier CCA Connector | A9P5 Connects to Rectifier CCA Connector | A9P9 Connects to Resonant Transformer Harness Connector |
|-----------------------------|---|---|--|
| 115 VAC/60 HZ | J4A/115V | J5B/60 HZ | J9B/60 HZ |
| 230 VAC/50 HZ | J4B/230V | J5A/50 HZ | J9A/50 HZ |

100-240V AC, 50-100 Hertz, 100-240V Power, 48/60, 24
Defectable.

| <u>MODEL</u> | <u>FERTZ</u> | <u>POWER</u> | <u>METHOD OF CHANGE</u> | <u>PARTS</u> |
|--------------|--------------|--------------|----------------------------|----------------|
| PTP-3 | 50-100 | 100-240V | Change S1 to desired value | None |
| | D.C. | 48/60, 24 | None | Special supply |

RANGE STEPS

100V
115V
220V
240V

AC variant

| | NO CHANGE | YES SWITCH |
|-------|--|--|
| 5340 | YES NO CHANGE | YES SWITCH |
| 5503 | YES NO CHANGE | YES SWITCH |
| 5504 | YES CHANGE P.S. 270-0838 60HZ 270-0838-1 50HZ | YES CHANGE WIRING IN P.S. IN MANUAL 729-0863-B |
| 5505 | NO | NO |
| 5506 | NO | YES SWITCH |
| 5520 | NO | NO |
| 5525 | NO | NO |
| 5530 | NO | NO |
| 5536 | YES SWITCH | YES SWITCH |
| 6505 | NO | YES SWITCH |
| 6515 | NO | YES SWITCH |
| 6530A | NO | YES SWITCH |
| 6540 | NO | YES SWITCH |
| 6550 | NO | YES SWITCH |

NOTE:

Hardware Support products are:

- o TC-B
- o 224GR
- o 2247V-4

All are Field retrofittable by an internal switch. No parts required.

WANG COMMUNICATIONS MATRIX

| | VS 152545458 | VS 80780 | VS 8180780 | VS 300 | OS 101, 115, 121A, 121B | OS 140, 145 | OS 140, 250 | Wang PIC | 3200 VP | 2200 MPT/LLP | 2200 SVP | Wang Office Assistant | 75007/ OS | 75007/ Alliance | 75007/ PC | 75007/ 5.0 |
|---------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---|--|--|---|---|--|------------------------------|-----------------------------------|--------------------|--|----------------------------|
| TTY | 23V78 5.3 195-2785 | 22V08 5.0 195-2785 | 22V78 5.0 195-2785 | 23V78 5.0 195-2785 | TC workstation (OS 50 and OS 60) Included | TC workstation 6.3 Included | N/A | N/A | N/A | 2278D.4 4E of 2.4 195-2701 | OP 28D.4 4E of 2.4 195-2701 | N/A | TC workstation 6.3 Included | N/A | N/A | 75V04T 5.0 195-2785 |
| Asynch/ITE | N/A | N/A | N/A | N/A | OS/TC 6.0 OS/ITE Included | OS/TC 7.8 OS/ITE Included | OS/TC 3.0 AL/ITE Included | Inboard DLP of PC-PM442 MS-DOS 2.0 PC-SS087 | 2277B, 2278B of C 2.2 195-2056 | 2277B, 2278B of C 2.2 195-2056 | OP 27B, OP 28B OP 28C 195-2056 2278 MATE 2.5 195-2056 | Inboard DLP 195-4066.9 | TC SC 21 7.8 OS/ITE | TC SC 21 AL/ITE | Inboard DLP of 75PC-PM427 MS-DOS 2.0 PC-SS087 | N/A |
| FBI | N/A | N/A | N/A | N/A | TC workstation (OS 50 and OS 60) Included | TC workstation 6.3 Included | N/A | N/A | Included with 2200 Asynch | Included with 2200 Asynch | Included with 2200 Asynch | N/A | TC workstation 6.3 Included | N/A | N/A | N/A |
| General Purpose Asynch (ACP) | 23V78 5.3 195-2772 | 22V08 5.1 195-2772 | 22V78 5.1 195-2772 | 23V78 5.0 195-2772 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 75V04T 5.1 195-2772 |
| Remote Expansion 2448 | N/A | 22V08 5.0 195-2091 | 22V78 5.0 195-2091 | 23V78 5.0 195-2091 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 75V04T 5.0 195-2091 |
| DVE/Clone | N/A | N/A | N/A | N/A | N/A | OS 140.3 of 145 with Ext Memory and DX/EP | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Audio Modem/Station | N/A | N/A | N/A | N/A | N/A | N/A | Telephone Complete 2.6 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PC Voice Attachment | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Inboard DLP PC-SS070 PC-SS070 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Telewrite 21 | N/A | N/A | N/A | N/A | OS 121* 8.2 195-2916 | OS 121* 8.2 195-2916 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Seamless MQV Emulation (8008) | N/A | 22V08 5.0 195-2275 | 22V78 5.0 195-2275 | 23V78 5.0 195-2275 | N/A | N/A | N/A | Inboard DLP PC-SS070 | 2277B, 2278B 2.2 195-2100 | 2277B, 2278B 2.2 195-2100 | OP 27B, OP 28B OP 28C 195-2100 | N/A | N/A | N/A | N/A | 75V04T 5.0 195-2275 |
| Remote Control Emulation (RCM) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Biographic Emulation | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| CBC UT-200 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2277B, 2278B 2.2 195-2100 | 2277B, 2278B 2.2 195-2100 | OP 27B, OP 28B OP 28C 195-2100 | N/A | N/A | N/A | N/A | N/A |
| Universal Universal 100 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2277B, 2278B 2.2 195-2100 | 2277B, 2278B 2.2 195-2100 | OP 27B, OP 28B OP 28C 195-2100 | N/A | N/A | N/A | N/A | N/A |
| VTEC | 23V78 6.20 195-2975 | 22V08 6.20 195-2975 | 22V78 6.20 195-2975 | 23V78 6.20 195-2975 | N/A | N/A | N/A | Inboard DLP MS-DOS 2.0 195-2781 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 75V04T 6.20 195-2975 |
| PC 2278 Emulation Board | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PC-PM448 MS-DOS 2.0 PC-SS085 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Biographic TO 2804180 Emulation | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Inboard DLP PC-PM442 MS-DOS 2.0 PC-SS087 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Universal 7760 Emulation | VS-TC 23V78 6.20 195-2982 | VS-TC 22V78 6.20 195-2982 | VS-TC 22V78 6.20 195-2982 | VS-TC 23V78 6.20 195-2982 | N/A | N/A | N/A | Inboard DLP of PC-PM442 MS-DOS 2.0 PC-SS087 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TC 1517 QLS Emulation | N/A | 22V08 5.0 195-2348 | 22V78 5.0 195-2348 | 23V78 5.0 195-2348 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 75V04T 5.0 195-2348 |

* Also requires either OS-715336 or OS-716330 date time board
 Line 1 = Communications Hardware Required
 Line 2 = Minimum Operating System Required
 Line 3 = Communications Software Required
 N/A = Not Available

NOTES: 1. In OS/TC, with 128K OS, be used in place of OS/TC with 64K. Similarly, a 128K OS/TC can be used in place of a 64K OS/TC.
 2. When ordering an OS/TC, OS/TC, VS-TC, or VS-TC, a front panel assembly, network interface connector, and chassis must also be ordered or specified.

MISCELLANEOUS

WANG COMMUNICATIONS MATRIX

| | VS 1542544/ES | VS 161800 | VS 861900 | VS 360 | OS 401010 | OS 105, 115, 120, 124, 126A | OS 105, 115, 120, 124, 126 | Wang PC | 2200 VP | 2200 BIF/PLP | 2200 SYP | Wang Office Assistant | 7500T/OS | 7500T/ Alliance | 7500T-1 | 7500T-1T | |
|--|---|---|---|---|---|---|---|--------------------------|---------|--------------|----------|-----------------------|----------|-----------------|---------|----------|-----|
| Wang Wang Band | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | Used as Wang PC with LCO | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang Personal Band | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | Used as Wang PC with LCO | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang Main-Point Primary | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang Main-Point Secondary | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang Point-Point | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang Local Network Option | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang PC Service | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang Inter-system Exchange (WISE) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| OS-3270 BSC | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| OS-3270 SNA | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wang X 25* | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2780/3780/WFS** | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2780/3780/WFS (Enhanced) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2800 Data-Stream 3780/WFS, HALP & 3741 | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3071 (BSC) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3071 (BSC) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| VS HALP | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3071 (SMA/SCL) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3071 (SMA/SCL) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3071 (SMA/SCL) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3071 (SMA/SCL) | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | VS-WSNT-WB 22V78 6.30 Included | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

* WSN X 25 Transport software must be ordered for the specific X 25 packet network, i.e. Telenet, Tymnet
 ** Includes 2716 (BSC) leased line capability
 *** Includes 3741 (SMA/SCL) leased line capability
 **** Est. 1985-4-40

Line 1 - Communications Hardware Required
 Line 2 - Minimum Operating System Required
 Line 3 - Communications Software Required
 N/A - Not Needed

WANG COMMUNICATIONS MATRIX

| Wing | VS 15/28/35/53 | VS 18/20 | VS 26/28 | VS 32/33 | OS 46/50/54 | OS 19L, 115, 124A, 130A | OS 140, 145 | Alliance 250 | Wing PC | 2200 VP | 2200 INVT/VP | 2200 SWP | Wing Office Assistant | 7500/7507/OS | 7500/7507/Alliance | 7500/7507 | F300/7507 |
|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|--------------------|--------------------|--------------------|---------|--------------|----------|-----------------------|--------------|--------------------|-----------|-----------|
| Wingman Wing Band | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | CUA B of VS-WST/MS | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Wingman Wing Band | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP | 2200 VP |
| Wingman Wing Band | VS 15/28/35/53 | VS 18/20 | VS 26/28 | VS 32/33 | OS 46/50/54 | OS 19L, 115, 124A, 130A | OS 140, 145 | Alliance 250 | Wing PC | 2200 VP | 2200 INVT/VP | 2200 SWP | Wing Office Assistant | 7500/7507/OS | 7500/7507/Alliance | 7500/7507 | F300/7507 |

WMS X 25 Transmission software must be ordered for the specific X 25 packet network. i.e. Telexnet, Tymnet
 **includes 3278 (BSC) teletype capability
 *** includes 3278 (BSC) teletype capability on 15
 **** Etc. (MSB, 40)

3.4 PREVENTIVE MAINTENANCE GUIDELINES

This section provides a recommended schedule of preventive maintenance (PM) tasks which should be considered as a flexible guide subject to modification to accommodate the conditions of each installation. Unless a PM operation reduces downtime, it is unnecessary. When the printer is operated under extreme environmental conditions, dusty or chemical atmospheres, and/or in excess of forty (40) hours per weekly interval, the frequency of performing PM operations should be increased accordingly.

The basic steps of PM for the printer are cleaning, lubricating and checking as indicated in Table 3-6. Lubrication should be applied only in the quantity necessary to supply the immediate area involved. Always wipe off any excess lubricant. On the CHAINTRAIN Line Printer, keep lubricants away from:

| | |
|-----------------------|----------------------------|
| The ribbon, | all drive belts, |
| the paper path, | timing and ribbon sensors, |
| grommets, | wiring, and |
| the hammer actuators, | all electrical components. |
| the print hammers, | |

Be visually alert for trouble indications whenever the printer is being serviced. Look for loose wires and pins, need for lubrication, badly worn parts, overheated components, loose hardware, chafed cables, dirt and corrosion. Do only the scheduled PM on a unit that is operating satisfactorily.

Pulse checking is the basic tool in the maintenance of electronic circuits. Do not adjust pulses unless the condition of the machine warrants it.

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Ranta

TABLE 3-6. RECOMMENDED PREVENTIVE MAINTENANCE ROUTINE

| FREQUENCY | LOCATION | CLEAN | LUBRICATE | CHECK |
|--------------------|--------------------------------|---|---|--|
| Each ribbon change | Printer Yoke | Using soft, lint-free cloth, or hand cloths (2), clean both upper & lower ribbon sensors. | | |
| Weekly | Print Area | Vacuum paper dust from platens and paper tractors. | | |
| | Static Eliminator | Use a soft brush and clean foreign matter from static bar (1). | | Check the operation of each needle point on the static eliminator. |
| Monthly | Chaintrain | Clean the type faces with a soft wire brush and vacuum cleaner. | | |
| | Lower Rear Panel | Inspect air filter and clean as required. | | |
| Quarterly | Printer Yoke | | Check and replace chaintrain lubricant with DPC B 15020 as required | <ul style="list-style-type: none"> - Check the chain drive belt for proper tension. - Check the Index Strobe and Character Strobe generators for proper output. - Check the paper drag fingers for 260 ± 20 grams paper tension. |
| | Logic Electronics | | | - Check the hammer "Fire" pulses for 1.4 Volt amplitude and 1.35 MS duration at TP 1 of each Hammer Driver PCB. |
| | Print Hammer and Actuator bank | | | Print full line of M's and check phasing adjustment and phase scan timing. Check for proper flight timing of each hammer. |

Quarterly?

2263 RMT

TABLE 3-6. RECOMMENDED PREVENTIVE MAINTENANCE ROUTINE (Continued)

| FREQUENCY | LOCATION | CLEAN | LUBRICATE | CHECK |
|---------------|--------------------------------------|-------------------------------------|--|---|
| | Paperfeed Strobe Gen's | Clean the line feed strobe sensors. | | Check for proper output from the 6-LPI or 1/2-Inch Strobe Generator. |
| | Logic Electronics and Stepping Motor | | | Check stepping motor drive for 0.8 V amplitude and 1.0 MS stepping interval at TP 2 of the Paper / Ribbon PCB. Check that delayed step timing pulses occur in successive intervals of 1.5, 2.0 and 3.0 MS when stopping paperfeed. Check paperfeed operation by making a "pencil scope" and readjust as required. |
| Semi-Annually | Vertical Format Unit | | | With a properly prepared format tape-loop check the output from VFU Channel 1 for proper alignment with "Gated 1/2-Inch Strobe" at 6-LPI, and at 8-LPI if provided. |
| | Sequencer | | | Check the crowbar circuit for proper operation while simulating a Hammer Drive over-current condition. |
| | Enclosure | | | Check that all fans are operating. |
| | Tractor drive | | Grease Infinite Form Position control clutch release lever/thrust washer (3). | Check paperfeed drive belt for proper tension. |
| | Vertical Format Unit | | Light oil VFU holddown pivot pin. | |
| Annually | Printer Mechanism | Vacuum clean area as required | Light oil Impression Control slide and linkage. Grease yoke latch linkage and pins (3). Light oil yoke latch compression spring and lever pivot. | Check for loose fasteners, frayed wire insulation, worn sleeving and excessively worn parts. Check chaintrain for damaged type slugs and type faces. |

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Printer

TABLE 3-6: RECOMMENDED PREVENTIVE MAINTENANCE ROUTINE (Concluded)

| FREQUENCY | LOCATION | CLEAN | LUBRICATE | CHECK |
|-----------|-------------------|--------------------------------|---|---|
| Annually | Printer Mechanism | | Light oil spring-loaded ribbon roll idler rods. Lightly grease formscale pivot pins and spring anchor pins (3). Light oil ribbon cover hinges; wipe off excess. | Check chaintrain for proper fit in guides. |
| | Enclosure | Clean all exterior surfaces. | Lubriplate canopy stop link/nylon washers. Light oil canopy hinges. | Check canopy stop linkage for proper, safe operation. |
| | Enclosure | Clean paper supply compartment | Light oil front door hinges and front yoke skirt hinges | |

NOTES: (1) Built-up deposits can be removed by pressing a soft pencil eraser on each needle point in turn and slightly twisting. Ink and resistant coating, if any, can be removed by wiping the needle points with Renuzit (CAUTION - Other commercial cleaning solutions might damage the plastic parts of the static eliminator).
 (2) Provided with DPC ribbons.
 (3) Use general purpose Auto-Moly grease only.

Periodic PM operations are to be repeated in each successive PM interval. Hence, weekly operations are to be repeated during the monthly PM operation; monthly operations are to be repeated during the quarterly PM operation; etc.

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Printer.

TABLE 5-1. CLEANING AND MAINTENANCE SCHEDULE

| Interval | Item | Reference Section |
|----------|---|-------------------|
| 7 Days | Clean (vacuum) printer mechanical assy* <i>customer</i> | 5.4.1 |
| 30 Days | Clean character band and ribbon drive rollers * | 5.4.1 |
| 30 Days | Clean the band platen | 5.4.1 |
| 30 Days | Check ribbon mask for wear or breaks * | 5.2 |
| 30 Days | Check cooling fan for unrestricted air flow* | 5.2 |
| 180 Days | Check/adjust hammer flight time | 6.2.5 |
| 180 Days | Check/adjust band tracking | 6.2.2 |
| 180 Days | Replace ribbon drive rollers, if necessary | 6.2.11 |
| 180 Days | Check/replace ribbon drive belt | 6.4.16 |
| 180 Days | Check/replace edge guide rollers | 6.4.14/ 6.4.16 |
| 180 Days | Clean band pulleys | 5.4.1 |
| 180 Days | Check/adjust transducer gap | 6.2.8 |
| 180 Days | Check/adjust paper feed belt | 6.2.3 |
| 180 Days | Check interlock switches | 6.2.6 |
| 180 Days | Blow out printer interior. (Do not remove PCBs). | --- |
| 180 Days | Check operator controls and fault indicators | 5.2 |

Bi-Annually

*More frequent servicing may be required if operating in an abnormally dirty environment or beyond the normal duty cycle.

NOTE

Normal printer usage is based on 40 hrs per week at a 30% duty cycle (print time divided by power on) printing 30,000 sheets per month. Increased usage may require additional servicing.

SECTION V
PREVENTIVE MAINTENANCE

5.1 INTRODUCTION

This section contains information on preventive maintenance performed via visual inspection and as required, subsequent cleaning.

5.2 VISUAL INSPECTION

It is necessary to make a visual check of the printer at regular intervals for worn, loose, or broken parts. The following inspections must be periodically made:

- a. Check character band and path for cleanliness.
- b. Check ribbon mask for breaks or tears.
- c. Check ribbon drive belt and rollers for wear and cracks.
- d. Check band edge guide rollers for grooves or bearing noise.
- e. Check interlock switches for damage, adjustment, or non-operation.
- f. Check for inoperative or damaged items and loose hardware.

5.3 CLEANING/PREVENTIVE MAINTENANCE SCHEDULE

The printer is designed for the maximum amount of usage with the minimum amount of maintenance and adjustments. Table 5-1 is a cleaning and maintenance schedule to be followed to ensure good print quality and printer reliability.

5.4 OPERATOR CLEANING PROCEDURES

The recommended cleaning solution for all subassemblies is 91% isopropyl alcohol.

NOTE

DO NOT use trichloroethylene, methylethyl-ketone, or acetone.

WARNING

ISOPROPYL ALCOHOL IS A COMBUSTIBLE LIQUID, AND MUST BE KEPT AWAY FROM HEAT AND OPEN FLAME.

5.4.1 Character Band, Band Area and Ribbon Drive Roller/Area Cleaning

CAUTION

When handling the character band, be careful not to bend the band to a radius less than that of the band pulleys.

- a. Disconnect the AC power plug.
- b. Remove the ribbon.
- c. Remove the character band and place it in a shallow pan.
- d. Vacuum the printer interior. Do not remove the PCBs.
- e. Place the cleaning solution in a bottle equipped with a spray nozzle and saturate the character band.
- f. Using a small, stiff bristled brush, clean the type faces thoroughly, adding more solution as required.
- g. Clean both sides of the entire character band and allow to drip dry.
- h. To clean the band area, moisten a soft cloth with the cleaning solution and clean both band pulleys, the ribbon mask, the platen (the area facing the hammers), and along the path traveled by the character band.

- i. To clean the ribbon drive rollers, moisten a soft cloth with the cleaning solution and clean the pivot arm roller, the ribbon drive roller, the ribbon guides, and along the path traveled by the ribbon. (See figure 5-1 for an illustration of some of the ribbon drive roller problems requiring replacement.)
- j. Reinstall the character band and ribbon.

5.4.2 Ribbon Drive Roller Check

Check the Ribbon Drive Rollers for wear, splitting, or loss of edge (see figure 5-1). Replacement, if necessary, should be performed by a technician.

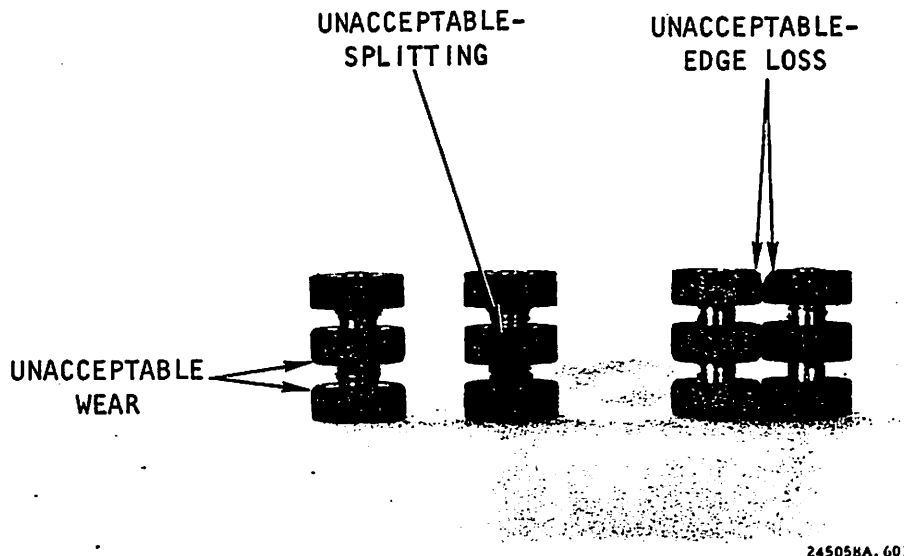


Figure 5-1. Ribbon Drive Rollers