

“DATASPEED*” MAGNETIC TAPE TERMINAL
FOR “DATAPHONE**” SERVICE
STATION ARRANGEMENT IDENTIFICATION

1. GENERAL

1.01 This section provides the code information and reference sections for the DATASPEED Magnetic Tape Terminals for DATAPHONE Service (see figures). This reissue is designed to add the code information on DATASPEED Magnetic Tape Terminals adjunct to DATASPEED 40 Sets. Added information is indicated by marginal arrows. This section was formerly 578-300-101.

operation at the baud rate of the teletypewriter (110 baud for 33 and 35, and 150 baud for 37) is provided by the interface between the tape set and the teletypewriter. The tape set can also be operated on the low speed line, if the teletypewriter is equipped for low speed on-line operation.

1.02 Operating on half-duplex, the DATASPEED Magnetic Tape Terminal has the capabilities of sending and receiving data at speeds up to 2400 words per minute, depending upon the station arrangement. The data medium is half-inch wide computer grade magnetic tape having eight data levels. The tape cartridge contains 100-foot rolls of tape with the capacity of storing 150,000 characters.

2.03 In a tape set used as an adjunct to a DATASPEED 40 Terminal, “on-line” operation at 1200 or 1050 baud is possible by interfacing the 40 to the magnetic tape terminal by the use of a TP344374 modification kit. This modification kit provides a station arrangement which allows a DATASPEED 40 KD or KDP to “off-line” batch messages into a magnetic tape terminal for subsequent “on-line” transmission. The modification kit provides the magnetic tape terminal with a local interface that emulates a 202-type modem at 1200 baud. The magnetic tape terminal still retains all of its normal “on-line” functions through its associated 200-series data set.

2. STATION ARRANGEMENTS

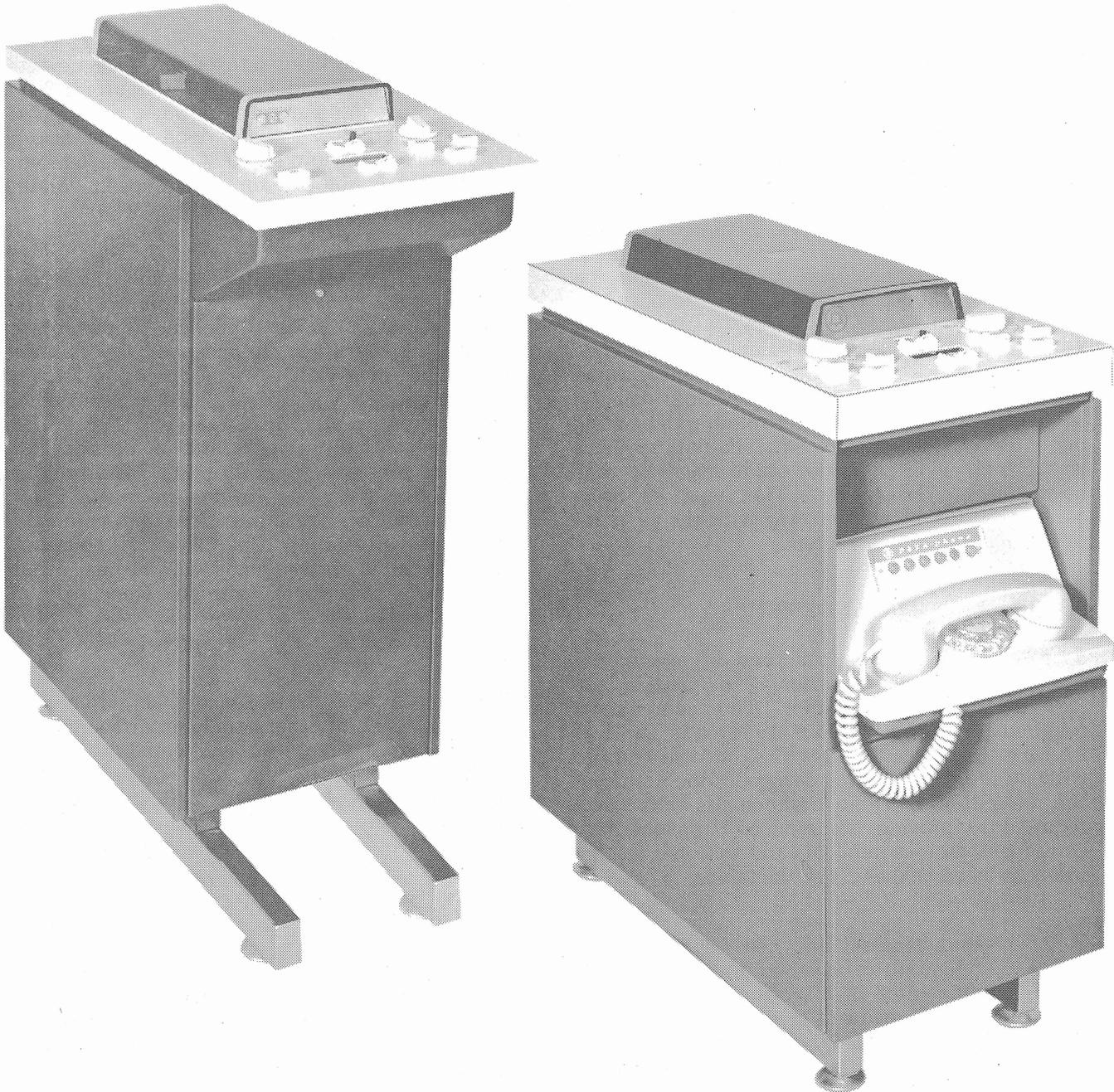
2.01 A station is composed of a group of components selected to provide the desired type of operation. The components required for various stations are listed in Table A. Primary listing is by USOC (Uniform Service Order Code). Each listing designates the nature of the operation and the components which are required to provide the service. Supplementary equipment such as data sets and optional mechanisms, is listed at the end of the table.

2.04 A tape set designed as an adjunct to a CDT or other parallel interface terminal does not have direct “on-line” capability. Data is exchanged between the tape set and related terminal at speeds up to 240 characters per second. If the adjunct terminal is equipped for “on-line” operation, the data can be received from or transmitted to the high speed line by the adjunct terminal.

2.02 In a tape set designed for stand-alone operation or as an adjunct to a 33, 35, or 37 teletypewriter, high speed on-line operation at 1200 or 1050 baud is made possible through the use of a 200-series data set. If the tape set is an adjunct to a 33, 35, or 37 teletypewriter, local

2.05 For detailed information on the components that comprise a station, refer to Table B. This table identifies the sectionalized literature pertaining to the magnetic tape set, adjunct terminals, and associated data sets.

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Adjunct to CDT or Other Parallel Interface Device (Left) and Stand-Alone or 33/35/37 and DATASPEED 40 Adjunct Magnetic Tape Terminal With 202C Data Set for On-Line Operation (Right)

TABLE A
COMPONENTS

DESCRIPTION	CODE	QTY
<u>Stand-Alone Operation</u> — Magnetic tape terminal operates on-line at 1200 or 1050 baud through 200-series data set. See supplementary listing at end of table for data set and other optional arrangements.		
<u>1200 Baud Operation — 33/35 Cabinet Styling</u>	MTTAA	
Cabinet (DMAC800/AA/MR)		1
Control Panel Assembly (TP337428HJ)		1
Transport W/Cartridge (DMT800)		1
Basic Electronics Module W/Cables (DME800)		1
Variable Circuit Cards (one each)		
Receive-Transmit Distributor (TP322471)		1
Data Set Interface (TP322473)		1
Stand-Alone Strapping (TP322479)		1
Crystal, 1200 Baud (TP335504)		1
Cable Assembly, Data Set Interface (TP337380)		1
Bracket (KS19266 L65)		1
Envelope (P423959)		1
<u>1200 Baud Operation — 37 Cabinet Styling</u>	MTTAC	
Same as listed for MTTAA except:		
Omit:		
Cabinet (DMAC800/AA/MR)		1
Add:		
Cabinet (DMAC800/AA/MK)		1
<u>1050 Baud Operation — 33/35 Cabinet Styling</u>	MTTBA	
Same as listed for MTTAA except:		
Omit:		
Crystal, 1200 Baud (TP335504)		1
Add:		
Crystal, 1050 Baud (TP335503)		1
<u>1050 Baud Operation — 37 Cabinet Styling</u>	MTTBC	
Same as listed for MTTAC except:		
Omit:		
Crystal, 1200 Baud (TP335504)		1
Add:		
Crystal, 1050 Baud (TP335503)		1

TABLE A
COMPONENTS (Continued)

DESCRIPTION	CODE	QTY
<p><u>1200 Baud Operation (continued)</u></p> <p>Add: Teletypewriter Interface (TP322474) 1 Cable Assembly, Teletypewriter Interface (TP337368) 1</p> <p><u>1050 Baud Operation</u></p> <p>Same as listed for MTTAE except:</p> <p>Omit: Teletypewriter Interface (TP322480) 1 Crystal, 1200 Baud (TP335504) 1 Cable Assembly, Teletypewriter Interface (TP337376) 1</p> <p>Add: Teletypewriter Interface (TP322474) 1 Crystal, 1050 Baud (TP335503) 1 Cable Assembly, Teletypewriter Interface (TP337368) 1</p>	MTTBK	
<p><u>Adjunct to a 37 KSR Teletypewriter for ASR Operation</u> — Magnetic tape terminal operates on-line at 1200 or 1050 baud through 200-series data set. Local operation at 150 baud between tape terminal and 37 teletypewriter. Teletypewriter capable of operation on 150 baud line. See supplementary listing at end of table for data set and other optional components.</p> <p><u>1200 Baud Operation</u></p> <p>Cabinet (DMAC800/AA/MK) 1 Control Panel Assembly (TP337428HJ) 1 Transport W/Cartridge (DMT800) 1 Basic Electronics Module W/Cables (DME800) 1 Variable Circuit Cards (one each) Receive-Transmit Distributor (TP322471) 1 Data Set Interface (TP322473) 1 Teletypewriter Interface (TP322476) 1 Crystal, 150 Baud (TP335501) 1 Crystal, 1200 Baud (TP335504) 1 Cable Assembly, Teletypewriter Interface (TP337374) 1 Cable Assembly, Data Set Interface (TP337380) 1 Bracket (KS19266 L65) 1 Envelope (P423959) 1</p>	MTTAG	

TABLE A
COMPONENTS (Continued)

DESCRIPTION	CODE	QTY
<p><u>Adjunct to a DATASPEED 40 Teletypewriter (KD or KDP) Equipped With a 200-Series Data Set for 1200 or 1050 Baud Operation</u> — Magnetic tape terminal operates on-line at 1200 or 1050 baud through 200-series data set. Local operation at 1200 or 1050 between tape terminal and 40 teletypewriter. See supplementary listing at end of table for optional components.</p> <p><u>1200 Baud Operation (line and local)</u></p> <p>Cabinet (DMAC800/AA/MW) 1 Control Panel Assembly (TP337428HN) 1 Transport W/Cartridge (DMT800) 1 Basic Electronics Module W/Cables (DME800) 1 Variable Circuit Cards (one each) Receive-Transmit Distributor (TP322471) 1 Data Set Interface (TP322473) 1 *Serial Interface Modification Kit (TP344374) 1 Crystal, 1200 Baud (TP335504) 1 Cable Assembly, Data Set Interface (TP337380) 1 Bracket (KS19266 L65) 1 Envelope (P423959) 1</p> <p>*TP344374 Modification Kit includes: TP322484 Circuit Card (1200 Baud Local Crystal included) 1 TP344375 Interface Cable 1 TP344373 Jumper Straps 7 TP197464 Diode 1</p> <p><u>1050 Baud Operation (line and local)</u></p> <p>Same as listed for MTTAN except:</p> <p>Omit: Crystal, 1200 Baud (TP335504) 1</p> <p>Add: Crystal, 1050 Baud (TP335503) 2</p> <p><u>Note:</u> Local operation of 1050 baud also uses the TP335503 crystal on TP322484 card, in place of the TP335504 crystal.</p>	<p>MTTAN</p> <p>MTTBN</p>	
<p><u>Adjunct to a Parallel Device (voltage-sensitive) — Operation (up to 2400 baud) between magnetic tape terminal and a device with a voltage-sensitive parallel interface.</u></p> <p>Cabinet (DMAC801/BA/MQ) 1 Control Subpanel Assembly (TP337393) 1 Transport W/Cartridge (DMT800) 1</p>	No Code Assigned	

TABLE A
COMPONENTS (Continued)

DESCRIPTION	CODE	QTY
<p>One of the following should also be provided with DRE++ and DRM++:</p> <p>804A5 Data Auxiliary Set with Rotary Dial 804A7 Data Auxiliary Set with TOUCH-TONE Dial</p> <p>Schematic drawings for the above data and data auxiliary sets are:</p> <p>Schematic Drawing SD-1D048-01 for 202C Data Sets Schematic Drawing SD-1D049-01 for 202D Data Sets Schematic Drawing SD-1D041-01 for 804A Data Auxiliary Sets</p>	<p>WES43 WES44</p>	<p>1 1</p>
<p><u>Supplementary Equipment — Front Panels</u> — A front panel must be supplied to match the cabinet finish and data set arrangement. Select one of the following panels:</p> <p><u>33/35 Finish</u></p> <p>Solid (TP337236HF) For 804A Data Auxiliary Set (TP337237HF) For 202C Data Set (TP337238HF)</p> <p><u>37 Finish</u></p> <p>Solid (TP337236GF) For 804A Data Auxiliary Set (TP337237GF) For 202C Data Set (TP337238GF)</p> <p><u>40 Finish</u></p> <p>Solid (TP337236KB) For 804A Data Auxiliary Set (TP337237KB) For 202C Data Set (TP337238KB)</p>	<p>WES4G WES4J WES4L WES4F WES4H WES4K WES4R WES4S WES4T</p>	<p>1 1 1 1 1 1 1 1 1</p>
<p><u>Optional Equipment — Character Recognition Expander</u> — Circuit card installs in position XZ5 of the basic electronics module to provide up to three additional search characters, programmable by the user, with the option of a parity error function.</p> <p>Character Recognition Expander Card (TP322465)</p>	<p>MT3*</p>	<p>1</p>
<p><u>Optional Equipment — Auto Rewind for Local Print-Out</u> — Circuit card installs in position XZ5 of the basic electronics module to provide auto rewind and special character recognition.</p> <p>Auto Rewind for Local Print-Out (TP322485) Card</p>	<p>MT4*</p>	<p>1</p>

*MT3 and MT4 are not compatible. Both cards are designed for installation in connector XZ5 of the module, and only one can be selected per tape set.

TABLE A
COMPONENTS (Continued)

DESCRIPTION	CODE	QTY
Optional Equipment — Running Time Meter — Electromechanical digital indicator gives a cumulative indication of the on-time of the transport, based on the rotations of the transport motor.		
Running Time Meter (TP337425) W/Mounting Hardware	WES4M	1

TABLE B
REFERENCE SECTIONS

Explanation of abbreviations used in table:		
A — Adjustments A & L — Adjustments and Lubrication D — Description D & O — Description and Operation D & PO — Description and Principles of Operation D & R — Disassembly and Reassembly FIMP — Field Installation and Maintenance Practice FMP — Field Maintenance Practice I — Installation	I & CO — Installation and Checkout L — Lubrication P — Parts PO — Principles of Operation R & R of C — Removal and Replacement of Components T — Testing TP — Test Procedures TS — Troubleshooting WD & CD — Wiring Diagrams and Circuit Description	
SECTION	EQUIPMENT COVERED	CONTENTS
570-005-800	Tools	P
570-220-100 -700 -701	Motor Units	D & PO A L
574-100-101 -201 -401 -702	33 Teletypewriter Sets (KSR, ASR, & RO)	D & O I SWD & AWD R & R of C
574-121-100 -700 -701 -702 -800	33 Keyboard (UK)	D A L D & R P

TABLE B
REFERENCE SECTIONS (Continued)

SECTION	EQUIPMENT COVERED	CONTENTS
574-122-100 -700 -701 -702 -800	33 Typing Unit (UP)	D & PO A L D & R P
574-123-100 -102 -800	33 Call Control Unit (UCC) Call Control Unit (UCC29) 33 Call Control Unit (UCC)	D & PO D & PO P
574-126-100 -700 -701 -800	33 Cover 33 Cover & Table	GEN DESC A L P
574-201-100 -200 -300	35 Teletypewriter Sets (KSR & RO) 35 Teletypewriter Set (KSR)	D & O I TS
574-220-100 -700 -701 -702 -800	35 Typing Unit	D & PO A L D & R P
574-221-100 -400 -700 -701 -702 -800	35 Keyboard & Bases for KSR & RO Teletypewriter Sets	D & O AWD A L D & R P
574-226-100 -800	35 Electrical Service Unit 35 Electrical Service Unit for KSR & RO Sets	D & PO P
574-227-100 -400 -800	35 Call Control Unit	D & PO AWD P
574-229-100 -700 -701 -800	35 Cabinets for KSR & RO Sets 35 Console and Table Model Cabinet — KSR/RO	D A L P
574-301-100 -200 -300 -400 -702	37 KSR Set	D & O I TS WD & CD R & R of C

TABLE B
REFERENCE SECTIONS (Continued)

SECTION	EQUIPMENT COVERED	CONTENTS
574-320-100 -700 -701 -800	37 Typing Unit	D & PO A L P
574-321-101 -703 -704 -705 -801	37 Keyboard Unit 37 Keyboard and Base	D & PO A L D & R P
574-322-101 -801	37 Electrical Service Unit	D & PO P
574-326-101 -703 -704 -801	37 Typing Unit Cover and Pan	D & O A L P
578-100-100 -102 -103 -200 -300 -700 -701 -702 -703 -704 -705 -800 -801 -802	2510 CDT 2510/2511 CDT Enclosures 2510/2511 CDT Keyboard 2510 CDT 2510/2511 CDT Enclosures 2510/2511 CDT 2510/2511 CDT Keyboard 2510/2511 CDT Cabinet 2510/2511 CDT Keyboard and Control Panel 2510/2511 CDT Modules and Power Supplies	D & O D & O D & PO I & CO TS A (Electronic) A & L R & R of C A L D & R P P P
578-101-100 -200 -300 -700	2511 CDT	D & O I & CO TS A (Electronic)
578-110-100 -200 -302	2510/2511 CDT Interface Module	D & O I & CO TS
578-150-100 -200 -300 -350 -800	Cluster Controller	D & PO I & Pow. Supp. Adj. TS FMP P

TABLE B
REFERENCE SECTIONS (Continued)

SECTION	EQUIPMENT COVERED	CONTENTS
579-504-350	DATASPEED Magnetic Tape Terminal	FIMP ←
582-900-100	DATASPEED Magnetic Tape Set	GEN DESC
-101	DATASPEED Magnetic Tape Terminal	Sta. Arrngt. I.D.
-110	DATASPEED Magnetic Tape Set	D & PO
-200	DATASPEED Magnetic Tape Terminal	I
-300		CO & TS ←
-500		T
-700	DATASPEED Magnetic Tape Set — Tape Transport	A & L
-701	DATASPEED Magnetic Tape Set — Cabinets	A
-702	DATASPEED Magnetic Tape Set	R & R of C
-703		D & R
-800		P
591-810-110	33/35 Teletypewriter Stations (Data Line Concentrator Service)	D & O
-210		I & CO
591-815-100	33/35 Teletypewriter Stations (for DATAPHONE Service)	GEN DESC
-101	33/35 Teletypewriter Stations (for General Purpose Point-to-Point Private Line Service)	D & O
-200	33/35 Teletypewriter Stations (for DATAPHONE Service)	I & CO
-201	33/35 Teletypewriter Stations (for General Purpose Point-to-Point Private Line Service)	I & CO
592-015-100	202C Data Set	D & O
-200		I
-300		Maintenance
-400		Connections
-500		TP
592-016-100	202D Data Set	D & O
-200		I
-300		Maintenance
-400		Connections
-500		TP
598-030-100	804A Data Auxiliary Set	I.D. & Connections