XEROX

Diablo Systems Incorporated
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Series 1600 Hyterm Terminal
Model 1660
Parts Catalog

PREFACE

This manual is intended for use with Diablo Series 2300 Matrix Printer Parts Catalog. Publication No. 82414-XX.

The contents of this catalog represents the unit as manufactured at the time of publication. All parts listed are shown in the correct form for ordering, including those assemblies which are supplied as single parts. Items not listed are NOT FIELD REPLACEABLE. Such items are sometimes included for completeness of illustration only.

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400XXX-XXX FINAL ASSEMBLY

SECTION I.1

400XXX-XX FINAL ASSEMBLY
(see notes)

ITEM	PART NO.	DESCRIPTION
1	24500-03	Printer Assembly, Matrix (Note 2)
2	400062-01	Power Supply, 115VAC
	400062-03	Power Supply, 230VAC
3	40696	Rack, Cover
4	70170-08	Retaining Ring
5	24415-01	Skirt, Right, Black
6	24416-01	Skirt, Left, Black
7	23244-04	Cover, Access
8	22932	Scale, Paper
9	20780	Handle
10	40844-02	Clip, Cover Mounting
11	70659-02	Retaining Ring
12	71236-04	Screw, #6-32 x .250 T.F.
13	70029-05	Screw, #4-40 x .312 P.H.
14	400064-01	Nameplate, 1660
15	23553	Paper Guide
16	400009-04	Cover, Top
17	400058-01	Overlay, Control Panel
18	400027-01	Mask, Keyboard
19	400221-01	Plate, Rear Filler
20	23147-05	Label, Warning
21	400XXX-XX	Keyboard (Note 3)
22	23731	Cable Assembly, Keyboard (see Section III.2)
23	10924	Clamp, Cable
24	70829-06	Screw, #8-32 x .375 T.F.
25	400056-01	Control Panel Assembly (see Section I.2)
26	71256-05	Screw, #6-32 x .312 T.F.
27	400011-01	Bracket, Keyboard, Left
28	400010-01	Bracket, Keyboard, Right
29	24474-02	Cover, Left Rear
30	24474-01	Cover, Right Rear
31	24472	Cover Strip, Rear
32	70805-02	Screw, #4-40 x .375 T.F.
33	70829-08	Screw, #8-32 x .500 T.F.
34	10535-18	Cable Clamp
35	10537	"D" Washer
36	400015-01	Cable, AC Power, 115VAC
	400016-01	Cable, AC Power, 230VAC (see Section III.1)
37	400478-01	Screen, Power Supply

ITEM	PART NO.	DESCRIPTION
38	14011-01	Fan, 115VAC
	14012-01	Fan, 230VAC
39	70829-10	Screw, #8-32 x .625 T.F.
40	20460	Spacer
41	70691	Screw, #6-20, Sheet Metal
42	10752-01	Anchor, Cable Tie
43	70702-24	Nut, "U" Clip
44	70737-06	Lockwasher, #6
45	400012-04	Cover, Bottom
46	24392-01	Bottom Pan (Note 4)
47	23147-02	Label, Warning
48	400025-01	Cable Assembly, EIA (see Section III.3)
49	400091-01	Cable Assembly, DC (see Section III.4)
50	23831-17	Wire Assembly
51	23855-02	Cable Assembly, Twisted Pair
52	70413-02	Fastener, Washer
53	10717-05	Fuse, 5A, 115VAC
	10962-10	Fuse, 2.5A, 230VAC
54	400102-33	Label, Serial Number, 115VAC
	400102-19	Label, Serial Number, 230VAC
55	20667	Stop, Latch
56	400206-01	Barrier, Side
57	23965-01	Barrier, Front
58	23976-01	Clip, Screen Mounting
59	26119-01	Screen
60	46042-01	Latch, Right
61	46042-02	Latch, Left
62	400147-01	Actuator, Cover Open Switch
63	10535-12	Cable Clamp
64	10538-01	Cable Tie
65	23846-01	Label, Fuse, 230VAC only
66	14035-05	Label, Voltage, 230VAC only
67	23924-XX	HPR03 PCB Assembly (see Section II.1)
68	23926-XX	XMEM1 PCB Assembly (see Section II.2)
69	23856	Cable, Fan

Notes:

(1) Final Assemblies, Model 1660:
     400050-000 - 115VAC, Standard
     400050-002 - 115VAC, Expanded Buffer
     400510-000 - 230VAC, Standard
     400510-002 - 230VAC, Expanded Buffer
     400675-00 - 115VAC, APL Standard
     400675-03 - 115VAC, APL Expanded Buffer
     400670-00 - 230VAC, APL Standard
     400670-03 - 230VAC, APL Expanded Buffer
     400680-00 - 230VAC, French Azerty

(2) For Printer Parts, see Publication No.
     82414-XX.

(3) Keyboard Assemblies:
     400053-01 - 46 Key Typewriter Paired,
                 10-Key Pad
     400464-01 - 47-Key APL
     400464-05 - 47-Key French Azerty

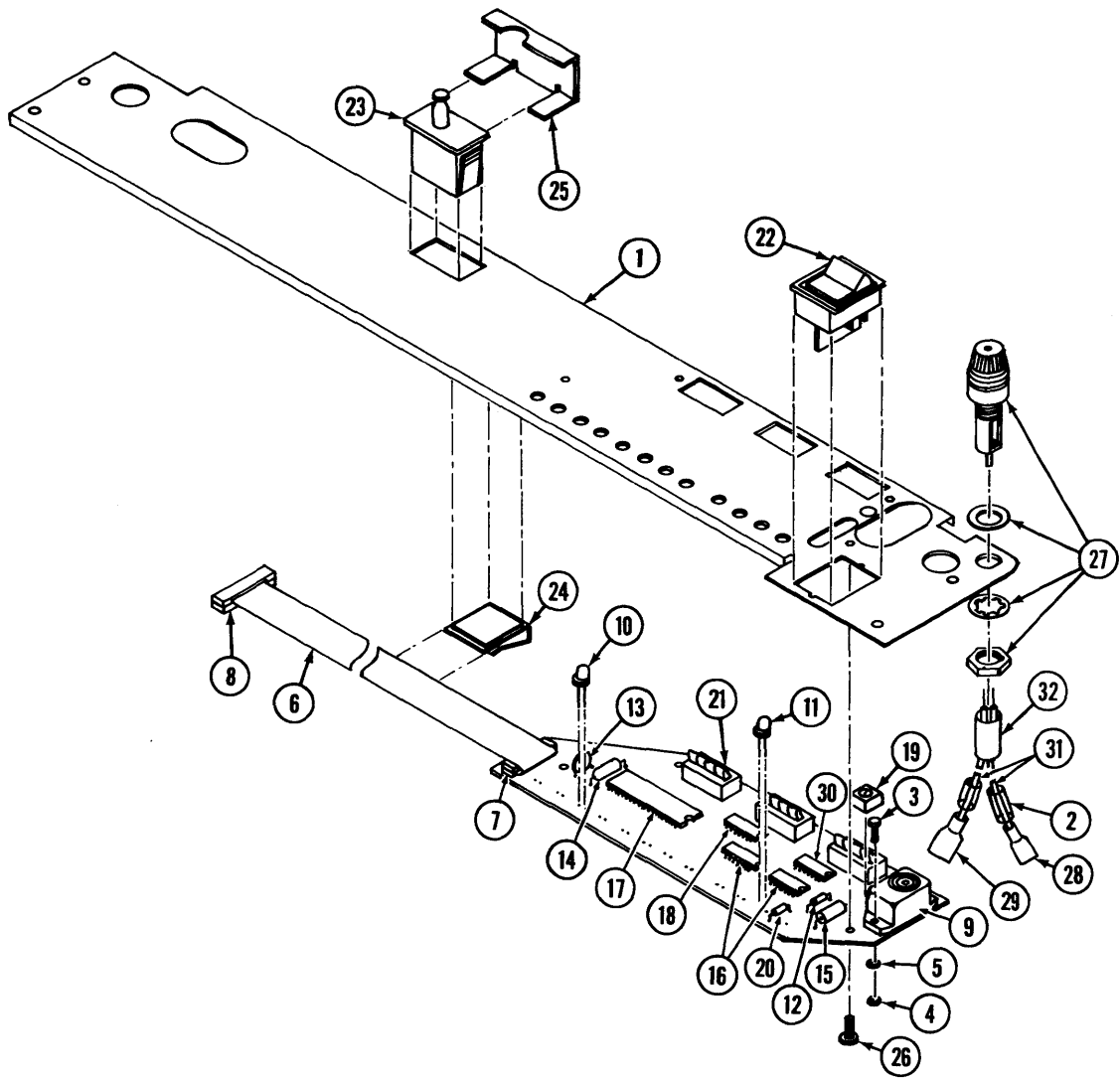(4) For Bottom Feed use 24392-03.

Figure 1-2
400056-01 CONTROL PANEL ASSEMBLY

SECTION I.2

400056-01 CONTROL PANEL ASSEMBLY
(see notes)

ITEM	PART NO.	DESCRIPTION
1	400002-01	Control Panel
2	10973-17	Tubing, Vinyl #6
3	70027-05	Screw, #2-56 x .312 P.H.
4	70166-02	Nut, #2-56 Hex
5	70168-02	Lockwashers, #2
6	10588-11	Cable, Flat, 20-Conductor
7	26061-20	Connector, PWB
8	26062-20	Connector, Header
9	42503-01	Buzzer
10	14005-01	Lamp, LED, Red
11	42222-01	Lamp, LED, Green
12	10160	Diode, 1N4454
13	42077-01	Capacitor, .1uF, 12V Ceramic
14	10410-22	Capacitor, 22uF, 15V Tantalum
15	10077-22	Capacitor, 22uF, 35V Tantalum
16	10390	IC, 7416
17	42407-01	IC, 8255
18	10761	Resistor Network, 1K
19	10224-10	Potentiometer, 1K, 1/2W, 10%
20	10022-15	Resistor, 150 Ohm, 1/4W, 5%
21	100064-01	Switch, DIP
22	100043-01	Switch, Power
23	10961	Switch, Cover Open
24	10924	Clamp, Cable
25	400005-01	Guard, Switch
26	70030-06	Screw, #6-32 x .375 P.H.
27	10705	Holder, Fuse
28	10913-01	Terminal, Quick Disconnect, Female
29	100058-01	Terminal, Quick Disconnect, Male
30	10209-01	IC, 74LS04
31	10957-00	Wire, #18 AWG, Black
32	10567-43	Tubing, Heatshrink

Notes:

(1) For replacement, order 400224-01, Control Panel Replacement Kit, which contains 400056-01, Control Panel Assembly, and necessary labels and instructions.

23924-XX HPR03 PCB ASSEMBLY
(see notes)

PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS	
10023-10	1K 1/4W 5%	A66,A75,B20 B22,B26,D45 D64,F25
10023-82	8.2K 1/4W 5%	D67,D68,D69 D70,D71,E74 F22,F23,F24
10024-68	68K 1/4W 5%	A32
10024-10	10K 1/4W 5%	A36
	CAPACITORS	
42077-01	.1uF 12V	A25,A74, B2 B34,B35,B73 B74, D3,D35 E24,E45,E74 F15,F63,F74
10493-68	6.8uF 35V	A42
10410-22	22uF 15V	A67
10061-10	10pF 500V	A46
10077-22	22uF 35V	F37,F66
10076-10	1uF 35V	F49,F55
10086-10	1uF 50V	A27,A52,B24 B45,F44
10086-47	.47uF 50V	A29
	I.C.'s	
10209-01	74LS04	D37
13082	74LS32	A37
42408-01	74LS54	B27
42311-01	74LS74	D27
42313-01	74LS123	A26
13090	74LS155	D36
13091	74LS161	D26,E26
13096	74LS367	B52
10353	75150P	B16,B21
10354	75154	A16,E15
42338-04	8080A	A53
10215-04	8224	B36
42331-04	8228	D46
42336-04	8251	D5
42407-01	8255	E5, F6
42335-04	8205	E37
42334-11	RAM, 256 x 4 bits (P2111A-4)	B65,D65,E65 F65

PART NO.	DESCRIPTION	LOCATION(S)
42155-05	LM320H-5.0	F58
42155-12	LM320H-12	F53
42154-12	LM341P-12	F41
10239	Resistor Network, 1K	E6
	MISCELLANEOUS	
70515-05	Screw, #4-40 x .312 P.H.	F41
70701-04	Kepnut, #4-40	F41
10899-24	Socket, IC, 24-Pin	XE48, XF32, XF48
10899-40	Socket, IC, 40-Pin	XA53
10910-06	Connector, 12 Position	J1
10915-10	Header, 20 Terminal	J2
10255-03	Crystal, 18MHz	A47
10792	Switch, DIP 4 x SPST	F27
10589-03	Washer, Fiber #4	F41
10564-26	Wire Solid #26 AWG	B4, A28
10568-26	Sleeve, Teflon Clear #26	B4, A28
400524-01	EROM 1660, 4 (Note 2)	F32
400634-01	EROM 1660, 4 (Note 3)	F32
400678-01	EROM 1660, 4 (Note 4)	F32

Notes:

(1) HPR03 PCB Assemblies:
    23924-07 - 1660 Standard
    23924-50 - 1660 APL
    23924-51 - French Azerty

(2) Used on 23924-07 Assembly only

(3) Used on 23924-50 Assembly only

(4) Used on 23924-51 Assembly only

23926-XX XMEM1 PCB ASSEMBLY
(see notes)

PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS	
10023-10	1K 1/4W 5%	F24
	CAPACITORS	
42077-01	.1uF 12V	A9, A13,A26 A31,A44,A49 A62,A67, B5 B17,B29,B41 B53,B65, E6 E15,E23,E29 E39,E49
10086-10	.1uF 50V	B12,B21,B30 B39,B48,B57 B66,B75
10079-10	1uF 35V	B69
10410-22	22uF 15V	F30,F75
10077-22	22uF 35V	E64,F49
	I.C.'s	
13082	74LS32	E34
42335-04	8205	E22,E28
42337-04	8212	E40
10284-03	7812C	F51
42152-05	LM320T-5.0	F64
	MISCELLANEOUS	
70548-05	Screw, #4-40 x .312 P.H.	F51,F64
70701-04	Kepnut, #4-40	F51, F64
10899-24	Socket, IC, 24-Pin	XA5, XA14, XA23,XA32, XA41,XA50, XA59,XA68, XE4, XE14
10898-18	Socket, IC, 18-Pin	D4, D10,D16 D22,D28,D34 D40,D46,D52 D57,D64,D70
400520-01	EROM 1660, Ø	A5
400521-01	EROM 1660, 1	A14
400522-01	EROM 1660, 2	A23
400523-01	EROM 1660, 3	A32
400273-02	EROM, 1.25K Print Buffer 1660 (Note 2)	A68
42334-11	RAM, 256 x 4 bit (Note 2)	D16,D22,D28 D34,D52,D57 D64,D70

Notes:

(1) XMEM1 PCB Assemblies:
     23926-22 - Standard
     23926-24 - 1.25K Print Buffer
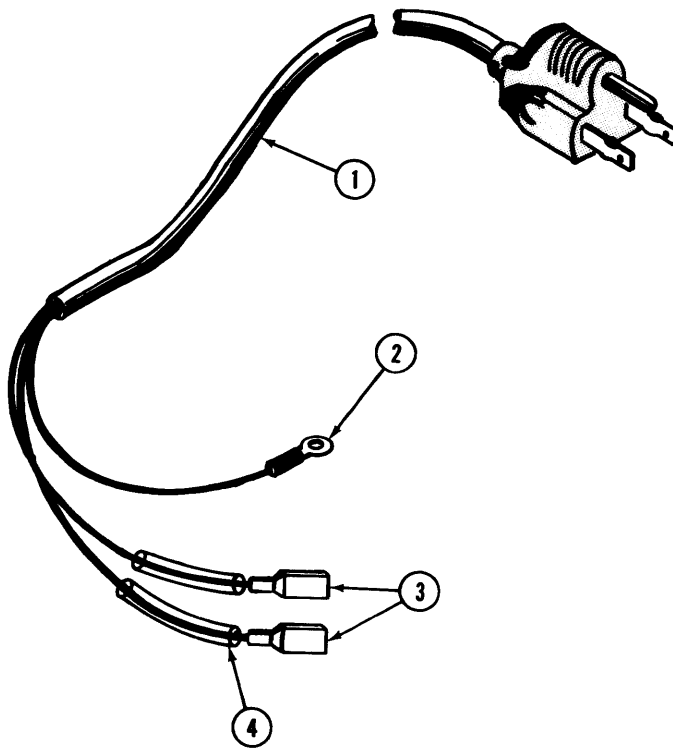
(2) Used on 23926-24 only

Figure 3-1
400015-01 AC POWER CORD 115VAC
400016-01 AC POWER CORD 230VAC

SECTION III.1

400015-01 AC POWER CORD 115VAC
400016-01 AC POWER CORD 230VAC

ITEM	PART NO.	DESCRIPTION
1	14009-12	Cord, 3-Conductor 115VAC only
	10974	Cord, 3-Conductor 230VAC only
2	10616-08	Terminal, Ring
3	10913-01	Terminal, Quick Disconnect, Female
4	10973-17	Tubing, Vinyl #6
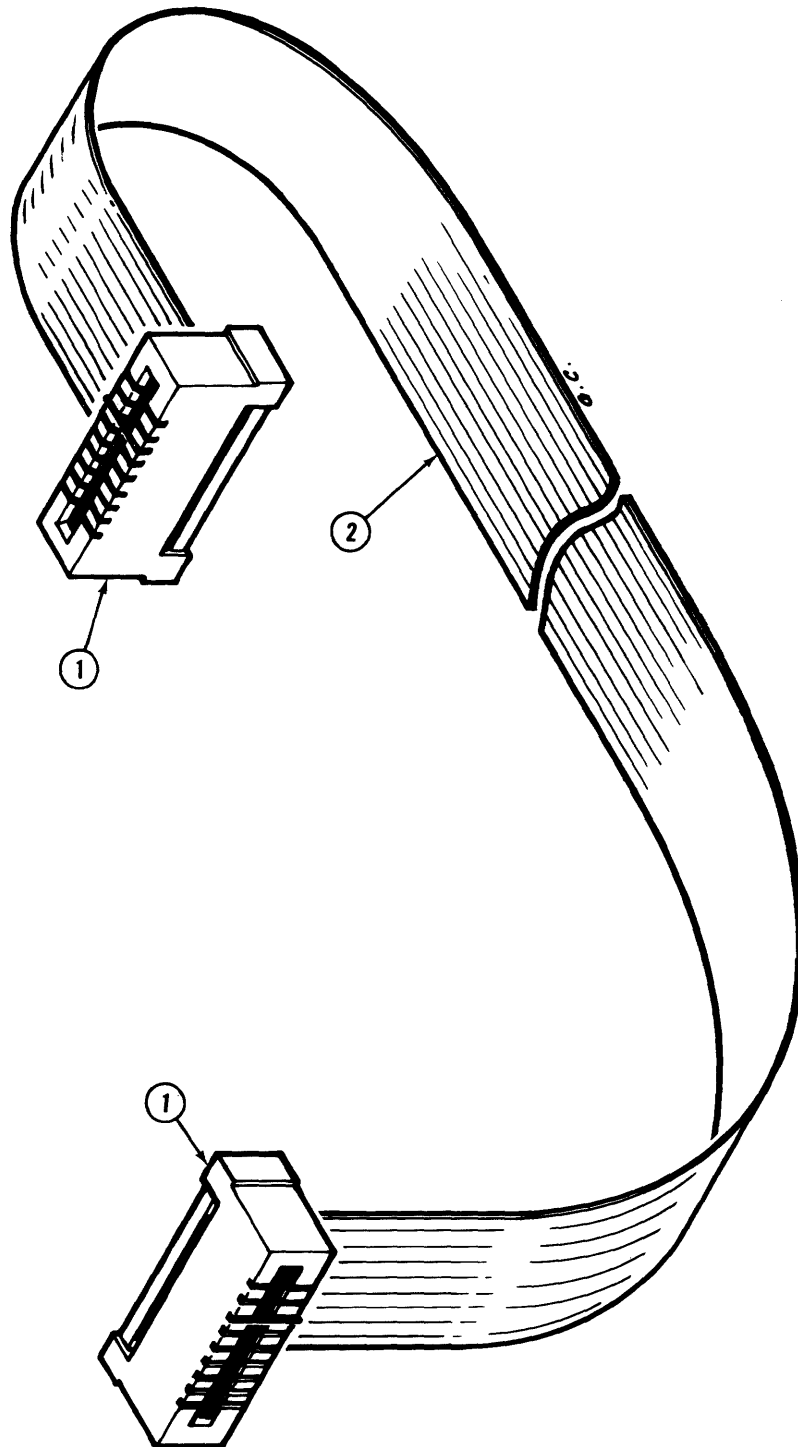
Figure 3-2
23731 KEYBOARD CABLE ASSEMBLY

SECTION III.2

23731 KEYBOARD CABLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION
1	26059-20	Connector, PCB Edge, 20-Pin
2	10588-11	Flat Cable, 20-Conductor
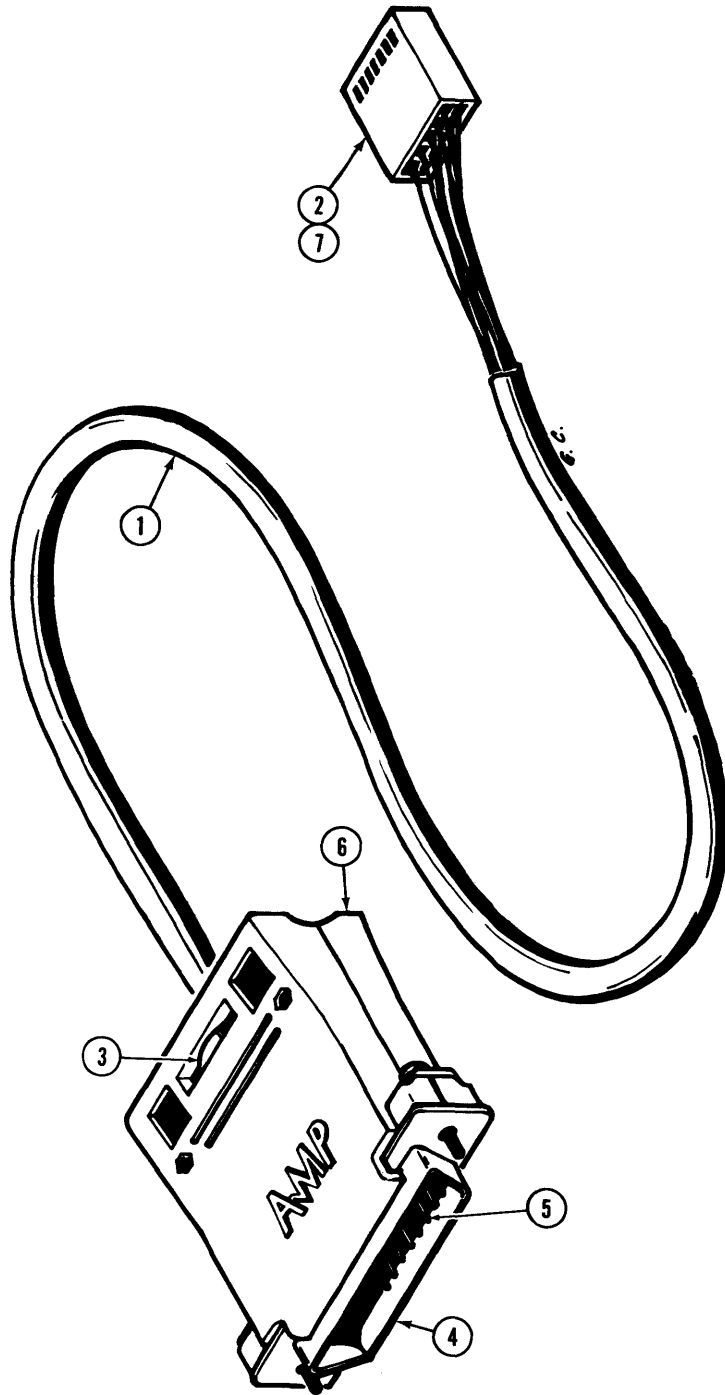
Figure 3-3
400025-01 EIA CABLE ASSEMBLY

SECTION III.3

400025-01 EIA CABLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION
1	10904-15	Cable, #22 15-Conductor
2	10890-04	Housing, Connector 12-Pin
3	10538-01	Cable Tie
4	10936-25	Housing, Connector
5	10939-01	Contact, Pin
6	10947	Hood, Connector
7	10891-02	Contact, Pin
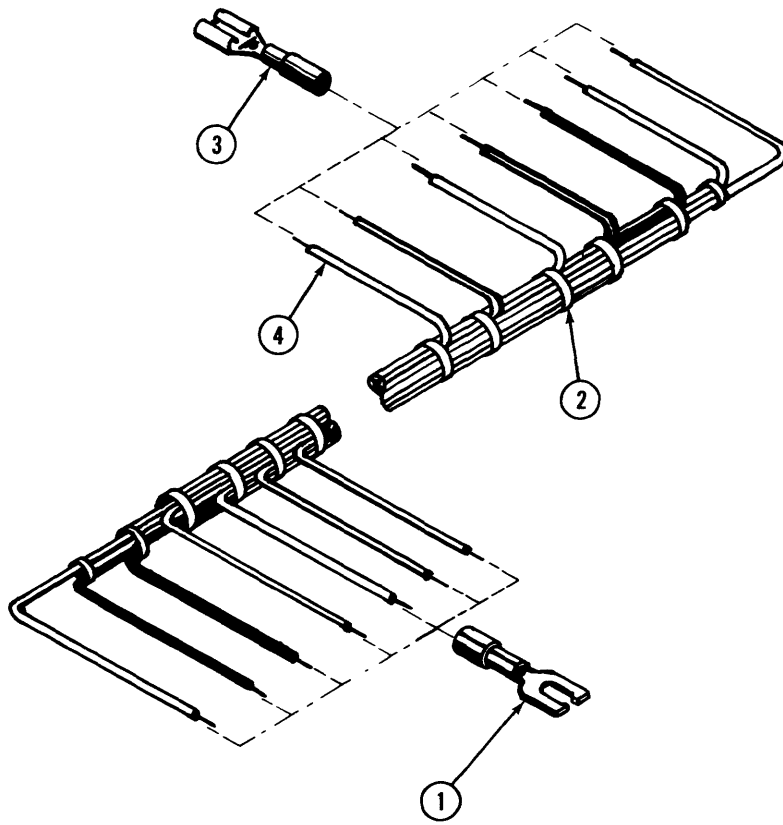
Figure 3-4
400091-01 DC POWER CABLE

400091-01 DC POWER CABLE

ITEM	PART NO.	DESCRIPTION
1	10969-08	Terminal, Snap Spade #6
2	10538-01	Cable Tie
3	10513-11	Terminal, Quick Connect Receptacle
4	10951-00	Wire #18 Black
	10951-01	Wire #18 Brown
	10951-02	Wire #18 Red
	10951-04	Wire #18 Yellow
	10951-09	Wire #18 White

The following accessories items are available for the 1660 Matrix Terninal:

1. Ribbons:

Part No.	Description
24650-01	Black Cloth

2. Platens:

Part No.	Description
24635	Friction Feed (Standard)
24847-09	Pin Feed (Standard Computer Paper) (14.875" Paper Size, 14.375" Pin to Pin)
24847-10	Pin Feed (15.000" Paper Size, 14.500" Pin to Pin)

3. Tractor Feed:

Part No.	Description
24345	Tractor Feed NOTE: Must be used with Friction Platen, 24635. Tractor Feed is required with Bottom Feed.

4. Touch-up Lacquer Kit:

Part No.	Description
400625-04	Warm Black

5. Publications:

Part No.	Description
400082-XX	Product Description
400083-XX	Maintenance Manual
82413-XX	Printer Maintenance Manual
82414-XX	Printer Parts Catalog

6. Miscellaneous:

Part No.	Description
23744	Extension Cable, EIA, 15 ft. (50 ft. maximum length for proper operation)
23742	Extender Board (Maintenance Tool)
24880-02	Bottom Feed (includes Paper Out Sensor) NOTE: Requires Bottom Pan 24392-03. Does not use top Paper Out Sensor. Tractor Feed, 24345 required.

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To make this manual more useful to you, we want your comments: what additional information should be included in the manual; what description or figure could be clarified; what subject requires more explanation; what presentation is particularly helpful to you; and so forth.

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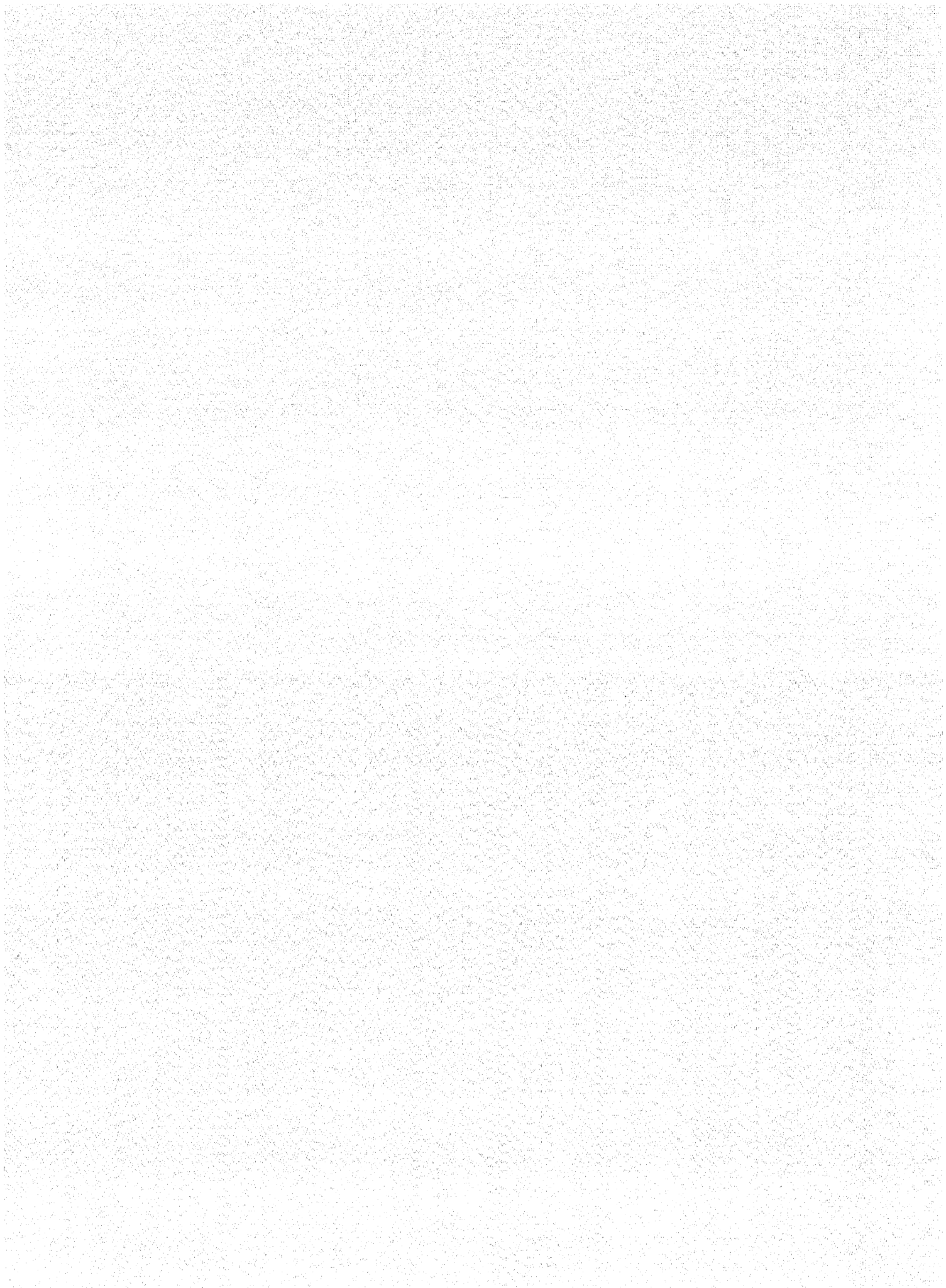NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

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