SERIES 1640/1650 PRINTERS AND TERMINALS PARTS CATALOG

90414-02 Rev A

November, 1980

DIABLO SYSTEMS, INC.
A XEROX Company

PREFACE

2112

The contents of this catalog represent 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.

Diablo Systems, Inc. reserves the right to make changes in its products without incurring obligations to incorporate such changes in previously manufactured units.

Parts orders should be addressed to your Diablo Sales Representative.

Comments on this catalog, or its use, are invited. Please address all comments to:

Manager, Customer Service Publications Diablo Systems, Incorporated 26250 Industrial Boulevard Hayward, CA 94545

HyType®, Diablo®, and XEROX® are trademarks of Xerox Corporation.

©Copyright 1980 by Diablo Systems, Inc., Hayward, Ca., USA

Publication No. 90414-02—Second Edition

Previous Editions: First—June, 1979

REVISION CONTROL RECORD

SERIES 1640/1650 PRINTERS AND TERMINALS PARTS CATALOG PUBLICATION NO. 90414-02

NOTE: On revised pages of text, each area of new revision is marked by a heavy vertical bar in the margin.

PAGE	/ REV	PAGE / REV	PAGE / REV	PAGE SEREV
——i	A	4-2 A		
ii	A	4-3 A		
iii	A	4-4 A		
1-0	A	4-5 A		
1-1	A	4-6 A		
1-2	A	4-7 A		
1-3	A	4-8 A		
1-4	A	4-9 A		
1-5	A	4-10 A		
1-6	A	4-11 A		
1-7	A	4-12 A		
1-8	A	4-13 A		
1-9	A	4-14 A		
1-10	A	4-15 A		
1-11	A	5-0 A		
2-0	A	5-1 A		
2-1	A	5-2 A		
2-2	A	5-3 A		
2-3	A	5-4 A		
2-4	A	5-5 A		
2-5	A	5-6 A		
2-6	A	5-7 A		
2-7	A	5-8 A		
2-8	A	5-9 A		
2-9	A	5-10 A		
2-10 2-11	A	5-11 A		
2-11	A A	A-1 A A-2 A		
2-12	A	A-2 A A-3 A		
2-13	A	A-4 A		
2-15	A	A-5 A		
2-16	A	.		
2-17	A			
2-18	A			
2-19	A			
2-20	A			
2-21	A			
3-0	A			
3-1	A			
3-2	A			
3-3	A			
3-4	A			
3-5	A			
3-6	A			•
3 - 7	A	·		
3-8	A			
3-9	A			
4-0	A	•		
4-1	A			

TABLE OF CONTENTS

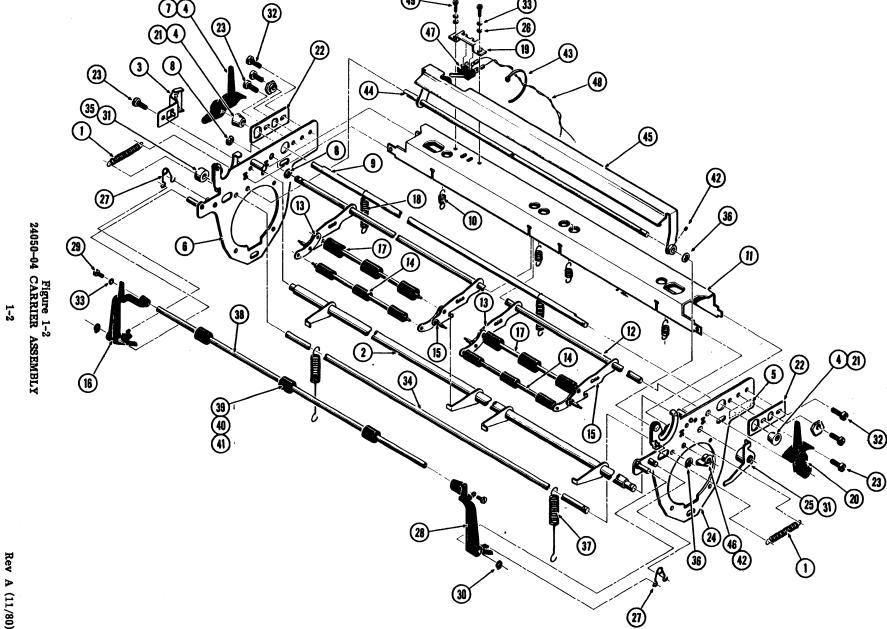
	\cdot	Page
Section I	Mechanical Assemblies	
I.1	301600-XX/301650-XX Final Assembly	1-1
1.2	24050-04 Carrier Assembly	1-3
1.3	40750-24 Carriage AssemblyModel 1640 Printers	1-5
I.4	40750-32 Carriage AssemblyModel 1650 Printers	1-7
1.5	40695-XX Ribbon Base Plate Assembly	1-9
I.6	24410-03 Carriage Subassembly	1-11
Contin TT	-PCB Assemblies	
II.1		2-1
II.1 II.2a	301390-XX Motherboard Assembly	2-1
11.2a II.2b	301410-XX HPR04 PCB Assembly, RO	2-2 2-4
	302510-XX HPR04 PCB Assembly, KSR	
II.3a	400664-98 XMEM2 PCB Assembly Without Firmware Options	2-5
II.3b	301730-XX XMEM2 PCB Assembly With Firmware Options	2-7
II.4	40520-04 Servo PCB Assembly, Standard	2-8
II.5	40525-10 Carriage Power Amp PCB Assembly, Standard	2-10
II.6	40515-04 Transducer PCB Assembly, Standard	2-12
II.7	40730-10 Print Wheel Power Amp PCB Assembly, 1650	2-14
II.8	40530-10 Print Wheel Power Amp PCB Assembly, 1640	2-16
II.9	400568-01 H4CPN PCB Assembly	2-18
II.10	301153-05/-06 Universal Power Supply PCB Assembly	2-19
Section III	Paper Handling Assemblies	
III.1	24075-00 Friction Platen Assembly, Standard	3-1
III.2	320160-XX Pin Feed Platen Assembly	3-3
III.3	24313-XX Pin Feed Platen Assembly, Reversible	3-5
III.4	24345-03 Tractor Feed Assembly	3-7
III.5	301180-03/-09 Bidirectional Tractor	3-9
Section IV-	-Options	
IV.la	312230-XX/400774-XX Power Supply Assembly	4-1
IV.1b	301885-XX Universal Power Supply Assembly	4-3
IV.1c	301151-XX Line Filter Assembly, Power Supply	4-5
IV.2	400763-XX Control Panel Assembly	4-7
IV.3	301608-XX Current Loop Cable Kit	4-9
IV.4	400775-01 RS-232-3C Cable Kit	-
IV.5a	301603-01 HyFeed Interface KitUnits with XMEM2 PCB	
	Assemblies	4-11
IV.5b	301603-02 HyFeed Interface KitUnits without XMEM2 PCB	
	Assemblies	4-11
IV.6	40565-01 Paper Chute Assembly	4-13
IV.7	40504-03 Cover Open Interlock Switch Assembly	4-15
Section V	Cover Assemblies	
V.1	400761-XX Cover Set Assembly, RO, Metal	5-1
V.2	320015-XX Cover Set Assembly, RO, Plastic	5-3
v.3	400762-XX Cover Set Assembly, KSR, Metal	5-5
V.4	320010-XX Cover Set Assembly, KSR, Plastic	5-7
v.5	301582-XX Bottom Pan AssemblyShort	5-9
V7 6	301584-YY Rottom Dan AssemblyLong	5-11

		Page
Appendices		
Appendix	"A"Options and Accessories	A-1
Appendix	"B"Final Assembly Configurations	A-3
Appendix	"C"1640/1650 Terminals Guide Chart	A-4
Appendix	"D"Pin Feed Platen Assemblies	A-5

Figure-1-1 301600-XX/301650-XX FINAL ASSEMBLY

301600-XX/301650-XX FINAL ASSEMBLY (see notes)

TOTAL .	DADE NO	DESCRIBITION.			
ITEM	PART NO.	DESCRIPTION			
1	70029-18	Screw, 4-40 X 1.125 P.H.	Notes:		
2	70179-04	Washer, #4 Flat	4.5		·
3	24304-02	Harness Assembly,	(1)	Final Assemb	lies:
	F01 C0 00	Carriage Home		G	****
4	70168-08	Lockwasher, #8		See Appendix	"В"
5 6	70169-08 24322	Washer, #8 Flat	(2)	Por 1640/165	A Torminal Configurations and
7	70852-05	Leaf Spring Locknut, 5-40	(4)		Terminal Configurations only, "C" Guide Chart.
8	70425-06	Lockwasher, #6		see uppendix	C Guide Chart.
9	24145-01	Hub, Cable	(3)	Used on Mode	el 1640 only.
10	70829-04	Screw, 8-32 X .250 T.F. P.H.	(0)	0000 011 11100	or rolls omy.
11	40715-02	Motor Assembly, Carriage	(4)	Used on Mode	el 1650 only.
		(Note 5)	•		
12	40750-24	Carriage Assembly (Note 3)	(5)	The only repl	aceable parts of the Carriage
		(see Section L3)		Motor Assemi	
	40750-32	Carriage Assembly (Note 4)			
		(see Section L4)		70802	Brush/Spring Assembly
13	24144	End Stop		70801-03	Cap, Motor Brush
14	24225-01	Main Frame		305020-01	Damping Disk
15 16	70829-06	Screw, 8-32 X .375 T.F. P.H.			
16 17	24464-00 24143-01	Switch and Harness Assembly Cable			
18	24056-01	Paper Cradle			
19	24140	Shaft, Carriage			
20	70316-04	Screw, 8-32 X .625 T.F. H. Hex Hd.			
21	301685-01	Label, Serial Number, UL and CSA			
22	20755	Label, Warning			
23	301085-02	Clamp, PCB			
24	70166-04	Nut, 4-40			
25	301338-01	Spacer, Sensor			
26	24141	Clamp, Shaft			
27	10538-01	Cable Tie			
28 29	24045	Eccentric, Platen Position			
30	70316-03 24055	Screw, 8-32 X .500 T.F. H. Hex Hd. Screw, Shoulder			
31	301001-01	Spacer, Shoulder			
32	24260	Spacer			
33	24283	Motor, Paper Feed			
34	24262	Spacer			
35	70829-12	Screw, 8-32 X .750 T.F. P.H.			
36	24499-00	Strap, Ground			
37	40630-04	Plate Assembly, Wire Harness			
38	70170-10	Retaining Ring			
39 40	20452	Gear, 85 Tooth Spur			
40 41	20599 70166-08	Oil Washer Nut, 8-32 Hex			
42	24058-01	Stud, Eccentric			
43	40877	Pulley			
44	24050-04	Carrier Assembly, TPO			
- •		(see Section L2)			
45	40693-01	Nut, Pulley			
46	70349-03	"O" Ring			•
47	40661	Guide, PCB Side			
48	40660-01	Bracket, PCB Center			
49	301390-01	Motherboard (Note 4)			
	301390-02	Motherboard (Note 3)			
50		(see Section II) PCB Assemblies			
JU	<u> </u>	(see Section II)			



24050-04 CARRIER ASSEMBLY

<u>ITEM</u>	PART NO.	DESCRIPTION
1	20424	Spring, Platen Latch
2	24030-01	Shaft Assembly, Actuator
3	24052-01	Plate, Detent
4	100358-02	Setscrew, 6-32 X .187 Cup Point
5	301585-02	Label, Identification
6	24027-02	Plate Assembly, Left
7	24053-01	Lever, Manifold
8	70172-05	Retaining Ring
9	24049	Shaft, Manifold
10	24047	Spring, Comb
11	301372-02	Comb, Carrier
12	24043	Shaft, Support
13	24042	Lever, Pressure Roller, Rear
14	24080-01	Roller Assembly, Front Pressure
15	24038	Lever, Pressure Roller, Front
16	24076-01	Bail Arm, Left
17	24081-01	Roller Assembly, Rear Pressure
18	301343-01	Spring
19	301038-02	Bracket, Switch
20	24046-01	Lever, Pressure Release
21	24051	Eccentric, Manifold
22	24044-02	Plate, Horizontal Adjust
23	70829-04	Screw, 8-32 X .250 P.H.
24	24034-02	Plate Assembly, Right
25	24099-02	Lever, Actuator
26	70179-04	Washer, #4 Flat
27	24088-01	Spring, Bail Arm
28	24074-01	Bail Arm, Right
29	70029-05	Screw, 4-40 X .312 P.H.
30	70170-05	Retaining Ring
31	100356-01	Setscrew, 8-32 X .190 Cup Point
32	70829-06	Screw, 8-32 X .375 T.F. P.H.
33	70168-04	Lockwasher, #4
34	24373	Shaft, Bias
35	24374	Collar, Bias Shaft
36	70170-14	Retaining Ring
37	24375	Spring, Bias
38	24087	Rod, Bail
39	24289	Roller, Bail
40	20332	Spring, Bail Roller
41	302918-01	Bearing, Bail Roller
42	100355-01	Setscrew, 5-40 X .187
43	10538-01	Cable Tie
44	24398	Shaft, Paper Out
45 46	301897-01	Bail Assembly
46	24404-02	Lever Assembly
47 48	24436-04	Switch
48 49	24429 70827-06	Harness Assembly Screw, 4-40 X .375 P.H.
70	10021-00	DUIEW, TTU A .313 P.D.

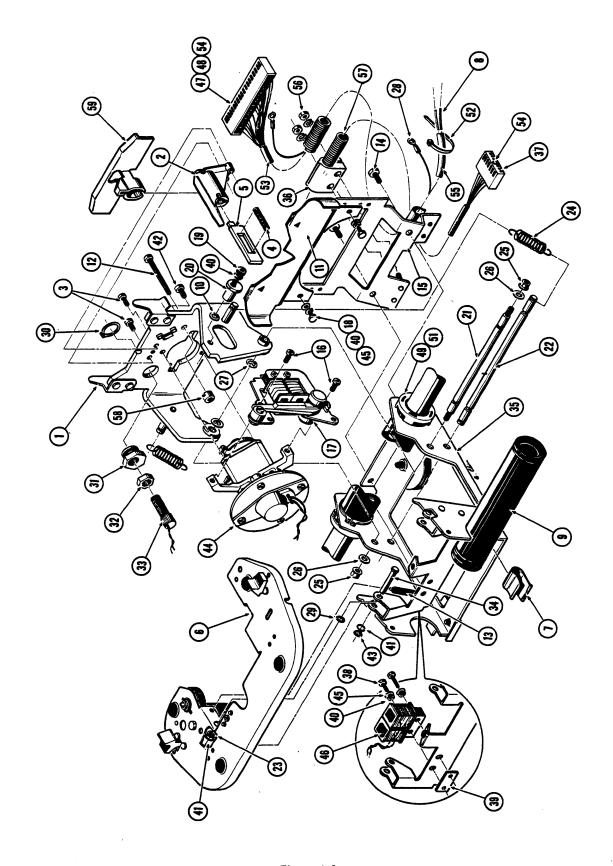


Figure 1-3
40750-24 CARRIAGE ASSEMBLY-MODEL 1640 PRINTERS

40750-24 CARRIAGE ASSEMBLY-MODEL 1640 PRINTERS (see notes)

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	24213-01	Bracket Assembly	60	301977-01	Pivot Frame Subassembly
2	24211-04	Guide, Hammer		***	(Note 2) (Not Shown Separately)
3	70805-02	Screw, 4-20 X .375 T.F. P.H.	61	301976-01	Hammer Guide Subassembly
4	20353	Spring, Hammer			(Note 3) (Not Shown Separately)
5 6	22900-02	Hammer Ribbon Base Plate Assembly			
0	40695-02	(see Section L5)			
` 7	40684-01	Spring	Notes	20	
8	10567-13	Shrink, Tubing	11000	•	
9	320241-01	Case Assembly, Bearing	(1)	The only ren	placeable parts of the
10	70179-05	Washer, #5 Flat			Motor Assembly are:
11	40550-02	Card Guide Assembly			•
12	70806-18	Screw, 4-40 X 1.125 P.H.		40682-01	Brush/Spring Assembly
13	40953	Spring		40894	Brush Retaining Screw
14	70828-04	Screw, 6-32 X .250 T.F. P.H.	(0)		
15	40694-03	Bracket Assembly, Card Guide	(2)		mbly includes items 1,3,10,19,20,
16	70827-04	Screw, 4-40 X .250 T.F. P.H.		30,31,32,33,4	U, and 61.
17 18	24205-04 100447-02	Armature Assembly, Hammer	(3)	This subsess	mbly includes items 0.4 and 5
19	70075-10	Screw, 4-40 X .187 Hex Hd. Screw, 4-40 X .625 Skt Hd. Cap.	(0)	THE SUDSESSE	mbly includes items 2,4, and 5.
20	46054	Eccentric			
21	24377	Shaft, Motor Pivot			
22	24105	Shaft, Spring			
23	40773	Oil Washer			
24	40562	Spring			
25	70166-06	Nut, 6-32 Hex			
26	301126-01	Locknut, #6		•	
27	70170-04	Retaining Ring			
28	40529-02	Strap, Ground			
29 30	46004	Washer, Nylon			
30 31	70816-09 24092	Retaining Ring, Bowed Eccentric			•
32	20597	Nut, Hex			
33	24426-02	Pick-up, Magnetic			
34	40724	Pin, Pivot			
35	24410-03	Carriage Subassembly			
		(see Section L6)			
36	20348	Clamp, Cable	•		
37	13019-25	Housing, Connector			
38	100447-03	Screw, 4-40 X .437 Hex Hd.		•	
39	40713	Nut Plate			
40 41	70168-04 70349-01	Lockwasher, #4			
41 42	70349-01 70827-05	"O" Ring Screw, 4-40 X .312 P.H.			
43	70227-01	Grip Ring			
44	40700-11	Motor, Print Wheel (Note 1)			
45	70179-04	Washer, #4 Flat			
46	301211-01	Coil Assembly, Ribbon Lift			
47	13019-41	Connector Contact			
48	13019-29	Connector Housing			
49	24128	Felt Washer			•
50 51	04100	Not Used			
51 52	24129 10538-01	Shaft Wiper			
52 53	301973-02	Cable Tie Sleeve, Clear Vinyl			
53 54	13019-42	Key, Polarizing			
55	3019 -42 301973-03	Sleeve, Clear Vinyl			
56	70166-66	Nut, 6-32 Hex			•
57	40677	Spring, Carriage Cable			
58	24216	Nut, Frame			
59	301416-01	Print Wheel Shield			

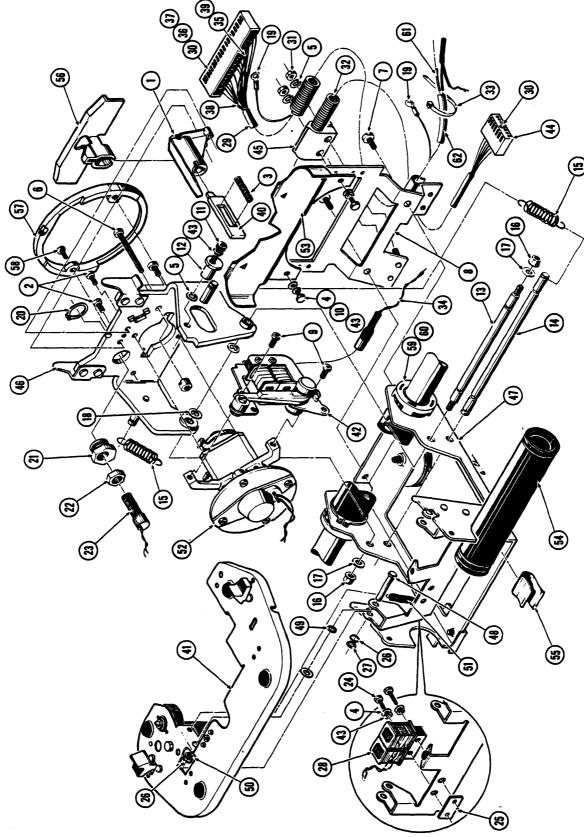


Figure 1-4 40750-32 CARRIAGE ASSEMBLY—MODEL 1650 PRINTERS

40750-32 CARRIAGE ASSEMBLY-MODEL 1650 PRINTERS (see notes)

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	24211-04	Guide, Hammer	57	302511-02	Damping Ring
2	70805-02	Screw, 4-20 X .375 T.F. P.H.	58	100391-01	Screw, 4-40 X .250 T.F. F.H.
3	20353	Spring, Hammer	59	24128	Felt Washer
4	70179-04	Washer, #4 Flat	60	24129	Shaft Wiper
5	70179-05	Washer, #5 Flat	61	10567-13	Shrink, Tubing
6	70806-26	Screw, 4-40 X .1.625 P.H.	62	301973-02	Sleeve, Clear Vinyl
7	70828-04	Screw, 6-32 X .250 T.F. P.H.	63	301977-03	Pivot Frame Subassembly
8	40694-03	Bracket Assembly, Card Guide			(Note 2) (Not Shown Separately
9	70827-04	Screw, 4-40 X .250 T.F. P.H.	64	301976-03	Hammer Guide Subassembly
10	100447-02	Screw, 4-40 X .187 Hex Hd.			(Note 3) (Not Shown Separately
11	70075-10	Screw, 4-40 X .625 Skt Hd. Cap.			
12	46054	Eccentric			
13	24377	Shaft, Motor Pivot			
14	24105	Shaft, Spring	Notes	•	
15	40562	. Spring			
16	70166–06	Nut, 6-32 Hex	(1)		placeable parts of the
17	301126-01	Locknut, #6		Print Wheel	Motor Assembly are:
18	70170-04	Retaining Ring			
19	40529-02	Strap, Ground		40682-01	Brush/Spring Assembly
20	70816-09	Retaining Ring, Bowed		40894	Brush Retaining Screw
21	24092	Eccentric	a-s		
22	20597	Nut, Hex	(2)		mbly includes items 2,5,11,12,20,
23	24426-02	Pick-up, Magnetic		21,22,23,43,4	6,57,58, and 64.
24	100447-03	Screw, 4-40 X .4375 Hex Hd.	(2)		
25	40713	Nut Plate	(3)	This subasse	mbly includes items 1,3, and 40.
26	70349-01	"O" Ring			
27	70227-01	Grip Ring			•
28	301211-01	Coil Assembly, Ribbon Lift			
29	301973-03	Sleeve, Clear Vinyl			
30 31	13019-42	Key, Polarizing			
31 32	70166-66 40677	Nut, 6-32 Hex			
33	10538-01	Spring, Carriage Cable Cable Tie			
34	301275-02	Harness, Hammer Solenoid			
35	10561-08	Hookup Wire, #24 Orn			
36	13019-29	Housing, Connector			
37 ·	13019-41	Contact, Connector			
38	100386-04	Splice, Sleeve Solder			
39	10561-07	Hookup Wire, #24 Brn			•
40	40787-02	Hammer			
41	40695-04	Ribbon Base Plate Assembly			•
		(see Section L5)			•
42	40770-06	Hammer Armature Assembly			
43	70168-04	Lockwasher, #4			
44	13019-25	Housing, Connector			
45	20348	Cable Clamp			
46	24213-01	Bracket Assembly			
47	24410-03	Carriage Subassembly			
		(see Section L6)			
48	40724	Pin, Pivot			
49	46004	Washer, Nylon			
50	40773	Oil Washer			
51	40953	Spring			
52	40700-16	Motor, Print Wheel (Note 1)			
53	40550-02	Card Guide Assembly			
54	320241-01	Case Assembly, Bearing			
55	40684-01	Spring			
56	301416-01	Print Wheel Shield			

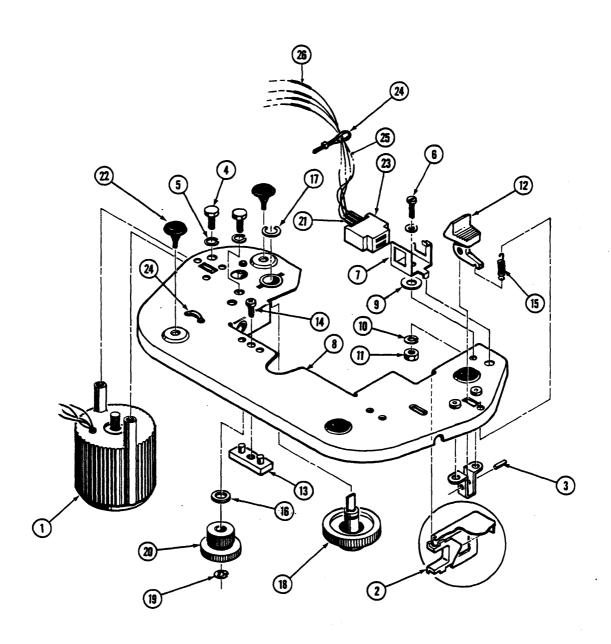


Figure 1-5 40695-XX RIBBON BASE PLATE ASSEMBLY

40695-XX RIBBON BASE PLATE ASSEMBLY (see notes)

ITEM	PART NO.	DESCRIPTION
1	24427-01	Motor, Ribbon Advance (Note 2)
	40687-01	Motor, Ribbon Advance (Note 3)
2	40722	Grommet
3	24147	Pin, Latch
4	100447-01	Screw, 4-40 X .250 Hex Hd.
5 6	70168-04	Lockwasher, #4
	70027-03	Screw, 2-56 X .250 P.H.
7 8	24335	Clip, Limit Switch
8	24111-03	Base Plate Assembly
9	70169-04	Washer, #4 Flat
10	70168-02	Lockwasher, #2
11	70166-02	Nut, 2-56 Hex
12	24120	Latch, Ribbon
13	20368	Pole, Armature
14	70027-02	Screw, 2-56 X .125 P.H.
15	24146	Spring
16	40773	Washer, Felt
17	70172-04	Retaining Ring
18	46184-02	Drive Gear Assembly
19	70170-03	Retaining Ring
20	24118-01	Gear, Dual Idler
21	301973-01	Sleeve, Clear Vinyl
22	24115	Pad, Rubber
23	13018-02	Sensor, End of Ribbon
24	10538-01	Cable Tie
25	301974-01	Wire, #28 Vio/Orn
26	100386-03	Splice, Sleeve Solder

Notes:

(1)	Dibbon	Dage	Diata	Assemblies:
(1)	UDOOU	Dase	riate	ASSEINULES

40695-02 Used on Model 1640 40695-04 Used on Model 1650

- (2) Used on 40695-02 only.
- (3) Used on 40695-04 only.

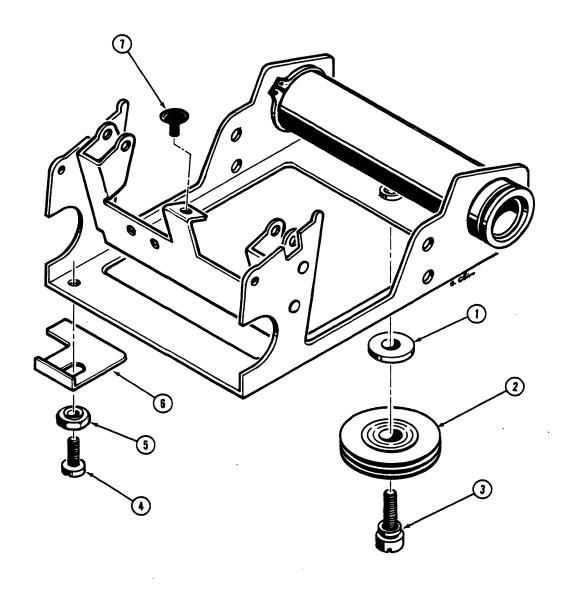


Figure 1-6 24410-03 CARRIAGE SUBASSEMBLY

24410-03 CARRIAGE SUBASSEMBLY (see notes)

PART NO.	DESCRIPTION
04064	S
	Spacer
40876	Pulley
24055	Shoulder Screw
70828-06	Screw, 6-32 X .375 P.H.
24411	Eccentric
24319	Plate, Home Position
24115	Pad, Rubber
	24264 40876 24055 70828-06 24411 24319

Notes:

(1) Parts not numbered are NOT available separately; order complete 24410-03 assembly.

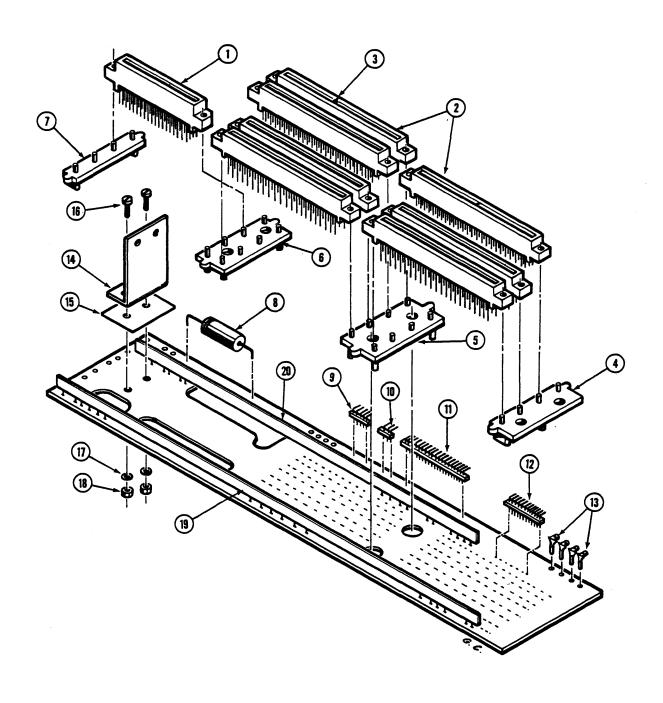


Figure 2-1 301390-XX MOTHERBOARD ASSEMBLY

301390-XX MOTHERBOARD ASSEMBLY (see notes)

ITEM	PART NO.	DESCRIPTION
•	201020 00	Compater 26 pin BCB
1	301032-02	Connector, 36-pin PCB
2	13015-03	Connector, PCB, Female
3	13015-02	Key, Polarizing
4	40708	Support, Connector
5	40707	Support, Connector
6	46139-01	Support, Connector
7	46138-01	Support, Connector
8	100077-01	Capacitor, 470uF 10V
9	13019-04	Wafer, 6 Circuit
10	13019-02	Wafer, 4 Circuit
11	13019-09	Wafer, 20 Circuit
12	10910-05	Header, 20 Circuit
13	22819	Tab, 187 Series
14	46082-01	Bracket
15	46166-01	Insulator
16	70030-06	Screw, 6-32 X .375 P.H.
17	70168-06	Lockwasher, #6
18	70166-06	Nut, #6-32 Hex
19	13056	Bus Strip
20	13055	Bus Strip

Notes:

(1) Motherboard Assemblies:

301390-01 Used on Model 1650 301390-02 Used on Model 1640

SECTION IL2a

301410-XX HPRO4 PCB ASSEMBLY, RO (see notes)

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			LC.'s	
10429-25	100 Ohm 1/4W 2%	B9,D3	100237-03	ROM, Print Wheel Program (Note 4)	B19
10429-41 10429-49	470 Ohm 1/4W 2% 1K 1/4W 2%	D5,D6 A18,A24,B17 E3,E10,F15 F16	100311-02	MASK ROM, Print Wheel Program (Note 3,4)	B19
10429-63	3.9K 1/4W 2%	A2,A11	100234-02	EROM-1 Basic Program (Note 4)	E52
10429-69	6.8K 1/4W 2%	A7,A13	100319-02	MOS ROM 32K Basic Program (Note 3,4)	E52
10429-65	4.7K 1/4W 2%	A34,A65,B1 B44,B59,B66 B67,D7,E11 E50	100235-02	EROM-2 Basic Program (Note 4)	E67
10400 00	4 077 4 /477 00/		100178-02	8155	B28,B45
10429-68	6.2K 1/4W 2%	A40,B61,B62 D9,D69,D70 E65,E74,F74	100180-02	8243	E4,E25
10429-81	22K 1/4W 2%	E47	10136	7404	A8
10423-01	22R 1/4W 2%	E41	42351-01	74LS05	D4
	CAPACITORS		13082	74LS32	A14
10062-20	200pF 500V	A12	100228-01	74LS139	E40
10094-10	.01uF 25V	B2,D1	100230-01	74LS257	E13,E19,E46
42077-01	.1uF 12V	B30	100229-01	74LS373	E62
10086-10	.1uF 50V (Note 6)	B75,D68	10198	8837	B4
10038-01	.1uF 50V	A6,A20,A45 B3,B12,B21	13235-03	SWAP-0015	A19
		B41,B63,B69	100227-01	7417	A41,A47
		D2,D45,D71 E7,E18,E28 E45,E54,E61 E68	10239	Resistor Pack, 1K 2%	A30
10076-10	1uF 35V (Note 6)	F33,F42	10761	Resistor Pack, 1K 2%	A36
10076-68	6.8uF 35V (Note 6)	E33,E36	100189-02	8251A (Note 6)	D55
10410-22	22uF 15V	F1,F68	10353	75150P (Note 6)	B70,B71
	TO b		10354	75154 (Note 6)	B64,D64
	LC.'s		42391-12	78M12C (Note 6)	F48
100176-02	8085A	B37	10213-12	79M05AHC (Note 6)	F41
100236-02	ROM, Carriage Program (Note 4)	B10			
100310-01	MASK ROM, Carraige Program (Notes 3,4)	B10			•

PART NO.	DESCRIPTION	LOCATION(S)
	MISCELLANEOUS	
10592	Jack, Closed Entry	B46,B48
10255-06	Crystal, 5MHz	A3
10792-02	Switch, 8 pos SPST	A25
10899-24	Socket, 24-pin	E4,E25,E52 E67
10899-28	Socket, 28-pin	D55
10899-40	Socket, 40-pin	B10,B19,B28 B37,B45
10910-01	Header, 34-pin	л
10910-06	Header, 12-pin (Note 6)	J2
10634-02	Plug, Shorting (Note 5)	B47

Notes:

(1) HPRO4 PCB Assemblies:

301410-03 Used on Model 1640 Serial/Parallel 301410-04 Used on Model 1640 Parallel 301410-05 Used on Model 1650 Serial/Parallel 301410-06 Used on Model 1650 Parallel 301410-97 Mask ROM's (see Section IL2b)

- (2) 301410-97 replaces 301410-03 and -05. Remove Shorting Plug (B47) for 301410-03.
- (3) Used on 301410-97 only.
- (4) 100310-01 replaces 100236-02; 100311-02 replaces 100237-03; 100319-02 replaces 100234-02 and 100235-02.
- (5) Used on 301410-05, -06 and -97 only; remove for plastic Print Wheels.
- (6) Used on 301410-03, -05 and -97 only.

SECTION IL26 99/8/084

302510-XX HPRO4 PCB ASSEMBLY, KSR (see notes)

PART NO.	DESCRIPTION	LOCATION(S)
301410-97	HPRO4 PCB Assembly (see Section IL2a)	
100318-02	Mask ROM, Typewriter Paired (Note 2)	E67
100464-01	MASK ROM, English, Scandinavian, Norsk, APL (Note 3)	E67
320003-01	EROM-3 (Alternate) English, Scandinavian, Norsk, APL (Note 3)	
100463-01	MASK ROM, English French, German, APL (Note 4)	E67
320006-01	EROM-3 (Alternate) English, French German, APL (Note 4)	

Notes:

- (1) HPRO4 PCB Assemblies with Keyboard ROM:
 - 302510-01 Typewriter Paired 302510-07 English, Scandinavian, Norsk APL 302510-08 English, French, German, APL
- (2) Used on 302510-01 only. Interchangeable with 400598-01 EROM used on earlier versions.
- (3) Used on 302510-07 only.
- (4) Used on 302510-08 only.

SECTION IL3a
400664-98 XMEM2 PCB ASSEMBLY WITHOUT FIRMWARE OPTIONS (see notes)

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DECRIPTION	LOCATION(S)
	RESISTORS			INDUCTORS	
10021-82	82 Ohm 1/4W 5%	B3,B4	10097-05	8200uH	F24
10429-33	220 Ohm 1/4W 2%	F17		DIODES	
10022-39	390 Ohm 1/4W 5%	E23	10160	DIODES	E00 E21
10429-43	560 Ohm 1/4W 2%	F6	10160	1N4454	F29,F31
10022-82	820 Ohm 1/4W 5%	F18	10102-13	30V Zener 1N5256	F34
10023-10	1K 1/4W 5%	B14,E17		TRANSISTORS	
10429-49	1K 1/4W 2%	F16	42220-01	2N2219A	D4,F23
42001-06	2K 1/4W 1%	F33	10105	2N3644	F11
42005-08	7.5K 1/4W 1%	F5		I O h	
10024-10	10K 1/4W 5%	B38,B45,B46	13145	<u>LC.'s</u> 7405	Daa roe
4000E 10	1077 1/ATM 104	E24 F15		74LS14	B33,E26 E13
42005-12	10K 1/4W 1%		42358-01		
10025-10	100K 1/4W 5%	B6	100196-01	74LS138	F49,F63
10026-10	1M 1/4W 5%	D3,D18	100228-01	74LS139	E33
	CAPACITORS		10353	75150P	E18
42081-01	.0022uF 50V	F8	10354	75154	E5
10094-10	.01uF 12V	F22	10213-12	79M05AHC	F38
10086-10	.1uF 50V	D24,E20,E21	42391-12	78M12C	F39
10038-01	.1uF 50V	A30,A39,A48 A57,A66,A75	10348-01	Timer (555)	F10
·	B31,B55,B68 D48,E12,E31 E55,E68,F55		42168-01	Optocoupler (TIL 117)	B5,D5,D12
		F68	42407-03	8255A	B40
10086-22	.22uF 50V	F28	10239	Resistor Network 1K	B18
10087-39	.39uF 50V	F27			
10086-47	.47uF 50V	D23		MISCELLANEOUS	
10079-10	1uF 35V	F36,F37	10792	Switch 4 pos SPST	B12
10076-68	6.8uF 35V	F3,F20	10898-18	Socket, IC, 18-pin	XB49,XB56 XB63,XB70
10410-22	22uF 15V	F1,F69			XE49,XE56 XE63,XE70
10077-22	22uF 35V	F43,F47			22200,2221

PART NO.	DESCRIPTION	LOCATION(S)
	MISCELLANEOUS	
42577-06	Socket, IC, 22-pin	XB25
10899-24	Socket, IC, 24-pin	XA22,XA31 XA40,XA49 XA58,XA67
10592	Jack	A5,A7
10910-02	Connector, 14 Position	u
10910-05	Connector, 20 Position	J2

Notes:

(1) See Section IL3b for XMEM2 PCB Assembly with firmware options.

SECTION IL3b

301730-XX XMEM2 PCB ASSEMBLY WITH FIRMWARE OPTIONS (see notes)

PART NO.	DESCRIPTION	LOCATION(S)						
400664-98	XMEM2 PCB Assembly (see Section IL3a)		· ·			s		
	2741 OPTION					STIC		
100429-01 301660-03	Mask ROM 4 EROM 4 (Alternate)	A31			9	DIAGNO		84
100430-01 301661-03	Mask ROM 5 EROM 5 (Alternate)	A40		Z	CESSIN	EDER 1	SSAGE	BUFFE
400196-80	Keytop, "Attention" Legend	(Position #92 on keyboard)		2741 OPTION	WORD PROCESSING	HYPLOT FEEDER DIAGNOSTICS	HERE IS MESSAGE	EXPANDED BUFFER
	WORD PROCESSING EN	HANCEMENTS		22)M	λн	HE	EX
100431-01 301664-01	Mask ROM 6 EROM 6 (Alternate)	A49	301730-01 301730-02 301730-03	X X	X X			
100432-01 301665-01	Mask ROM 7 EROM 7 (Alternate)	A58	301730-04 301730-05 301730-06	x	x	X X X		
100249-01	RAM, 1K X 4 Pos	E63	301730-07 301730-08	х	X	X	X	
	HYPLOT, FEEDER CONT	TROL, DIAGNOSTIC	301730-09 301730-10 301730-11	X X	X X		X X X	
100410-01	Mask ROM 8	A67	301730-12		Λ.	X	X	
400710-01	EROM 8 (Alternate)		301730-13 301730-14	X	x	X X	X	
	HERE IS MESSAGE		301730-15 301730-16	X X	X	X	X	X X
100248-01	EAROM	B25	301730-17 301730-18		X	:		X
10634-02	Plug, Shorting	A6	301730-19 301730-20	Х	X	x		X X
		•	301730-21 301730-22	X	X	X X		X X
	EXPANDED BUFFER		301730-23	X	X	X	x	X
100249-01	RAM, 1K X 4 Pos	B49,B56,E49	301730-24 301730-25	X			X	X
	(Note 2)	E56	301730-26 301730-27	X	X X		X X	X X
			301730-28	x		X X	X X	X X
			301730-29 301730-30		X	X	X	X
Notes:			301730-31	Х	X	X	X	X

⁽¹⁾ XMEM2 PCB Assemblies:

(See Table)

⁽²⁾ Also used at locations B63 and E63 on 301730-22, -23, -26 -27, -30, -31.

SECTION IL4
40520-04 SERVO PCB ASSEMBLY, STANDARD

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			RESISTORS	
10002-69	511 Ohm 1/8W 1%	A24,B10,D9 F23	10429-73	10K 1/4W 2%	A16,B35,D8 D19,D31,D32 D42,D44,D45
10003-01	1K 1/8W 1%	A64,B47,D14 D64,F60,F73			D57,D58,D67 D68,F35,F36 F67,F70,F72
10003-69	5.11K 1/8W 1%	F10	10429-78	16K 1/4W 2%	D34,D55,D70
10005-39	249K 1/8W 1%	B4	10423-10	10R 1/4W 270	F34
10004-01	10K 1/8W 1%	A20,A26,A34 B15,B23,B40	10429-79	18K 1/4W 2%	D46,F68
	•	F11	10429-80	20K 1/4W 2%	B11,B31,B57 B59,D6,F19
10005-15	140K 1/8W 1%	A45		•	F20
10004-30	20K 1/8W 1%	A48,A49,A51 A63,B13,B14	10429-82	24K 1/4W 2%	D43,F71
		B29,B30,B43 B45,B68,B70	10429-90	51K 1/4W 2%	D21,D23,F21
		B72,B74,D48 D49	10430-01	100K 1/4W 2%	B8,B24,F18
10005-12	130K 1/8W 1%	B64	10005-74	576K 1/8W 1%	B19
10005-12	162K 1/8W 1%	B36	10003-30	2K 1/8W 1%	B48,D40,D41 F43
10005-03	105K 1/8W 1%	B56			
				CAPACITORS	
10429-25	100 Ohm 1/4W 2%	A15,A22,D5 F9	10087-39	.39uF 50V	D24
10429-41	470 Ohm 1/4W 2%	H27	10062-12	120pF 500V	B20
10429-56	2K 1/4W 2%	A47,B65,D13 D17,D20,D22	10062-91	910pF 500V	B60
		D33,D54,D59	10061-75	75pF 500V	G16
		D69,F16,F22 F24,F28,F31	10070-15	.0015uF 200V	B54
		F32,F44,F47 F50,F55,F69 H23,H32,H38	13061	.01uF 80V 2%	B50,B62,D38 D62,F38,F41
		H41,H42,H44 H63,H67,H70			F62,F63
		H71,H74	10086-10	.1uF 50V	C16,C28,C40 C50,E14,E28
10429-66	5.1K 1/4W 2%	H11			E39,E50,F6 G15,G26,G38
10429-68	6.2K 1/4W 2%	A14,A25,A66 A72,B34,B42			G50,G63,H16 H28
		D11,D15,D27 D71,F15,F46	10076-68	6.8uF 35V	F7,H5,H22
		F49,F54,F57 H40,H69,H73			H29

PART NO.	DESCRIPTION	LOCATION(S)
	CAPACITORS	
10071-10	.01uF 80V	B5,B27
10061-39	39pF 500V	F12
	DIODES	
10160	1 N4454	A21,A40,A41 A67,A71,B6 B9,B26,B33 B41,D10,D12 D16,D25,D72 F14,F27,F45 F48,F51,F56 H20,H39,H68 H72
13009-34	6.2V Zener, 1N5234B	B21,B22,B37 B38
	TRANSISTORS	
13013	2N4401	E6
13070	PN3644	A18,A28
	LC.'s	
10136	7404	E60,G60
10460	7406	G24,G36
10120	7426	G48,G72
10167	1741	E12
13072	747C	C60
10190	8041	A12,A32,A60 C72
13060	1408	G12
10168	319	E24,E36,E48 E72
10165	747C	C12,C24,C36 C48

SECTION IL5
40525-10 CARRIAGE POWER AMP. PCB ASSEMBLY, STANDARD (see notes)

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			RESISTORS	
10042-20	200 Ohm 1W 5%	G54,G67	10429-89	47K 1/4W 2%	A18,A29,B30
13033	.1 Ohm 2W 5%,	G37,G39	10429-92	62K 1/4W 2%	F32,G16
10050 01	Fusible	ass.	10430-01	100K 1/4W 2%	B10 ·
10059-01	.1 Ohm 3W 1%	C53	10429-90	51K 1/4W 2%	A55
10059-10	1 Ohm 1W 1%	G24,G26	10002-01	100 Ohm 1/8W 1%	B74
10042-30	300 Ohm 1W 5%	F59,G44	10004-01	10K 1/8W 1%	B51,F27,G20
10432-33	220 Ohm 1/2W 2%	D4,D33	10005-58	392K 1/8W 1%	G18,G19
10432-49	1K 1/2W 2%	A9,A11	10005-69	511K 1/8W 1%	B54
10432-29	150 Ohm 1/2W 2%	D12,D27	10002-93	909 Ohm 1/8W 1%	B73
10432-58	2.4K 1/2W 2%	A35,B32	10026-10	1M 1/4W 5%	F26,G15
10429-25	100 Ohm 1/4W 2%	A56,B53,D10 D11,E47,E62 F52,F68	10429-84	30K 1/4W 2%	В33
10429-41	470 Ohm 1/4W 2%	B 6		CAPACITORS	
10429-42	510 Ohm 1/4W 2%	C14,C18,E14	10062-12	120pF 500V	D43,G55
		E19	10062-82	820pF 300V	A44
10429-49	1K 1/4W 2%	A62,B27,B28 B34,B44,C59	10070-15	.0015uF 200V	G75
10400 50	1 577 1 /4717 007	D46,G10,G35	10070-47	.0047uF 80V	A63
10429-53	1.5K 1/4W 2%	E72	13059-01	.1uF 50V	A15,B2,B71
10429-56	2K 1/4W 2%	A26,A27,A34 A45,C41,C58	13059-03	.22uF 50V	F35,G12
		D9,D44,D72 D76,E54,E73	13036	3uF 100V	E37
		E74,F4,F6 F7,F56,F70	10076-68	6.8uF 35V	A22,G6
		G56,G57,G69 G70,G71	10205-22	22uF 35V	G22,G32
10429-60	3K 1/4W 2%	B14	10071-10	.01uF 80V	C15
10429-65	4.7K 1/4W 2%	A28,B18,B29	10061-10	10pF 500V	A51,B59
10429-66	5.1K 1/4W 2%	B47,D75,F75			
		F76		DIODES	
10429-67	5.6K 1/4W 2%	A14,A17,B35 B50	10103-05	5V Zener, 1N4733	B5
10429-73	10K 1/4W 2%	A24,A58,B31	100138-01	11V Zener, (Diablo Spec.)	A7,B7
10429-79	18K 1/4W 2%	F28,G17	13009-31	5.1V Zener, 1N5231B	G52,G68
10429-80	20K 1/4W 2%	A13			
10429-85	33K 1/4W 2%	B17			

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	DIODES			MISCELLANEOUS	
10160	1N4454	A8,A12,A19 A20,A25,A32	70111-07	Screw, 4-40 X .4375	(To mount Heat Sink)
		A33,A37,A38 A59,A60,B8,B9 B19,B20,B25 B26,B36,B37 B46,C67,E75	70812	Insulator	(Between transistor and Heat Sink)
		E76,F72,F73 F74,G72	70813	Insulator	(Transistor mount screws)
10369	1 N4002	C13,C19,E13 E20	70111-04	Screw, 4-40 X .250	(Transistor mounting)
10424-01	1N5807	E48,E63	22753	Jumper, Lead Module	D73
13054	1N5415	E53,E67			
	TRANSISTORS		Notes:		
13070	PN3644	C34,D15,D22		rmal compound #10549 req er transistors, insulators ar	
13070	110044	D45,D59,E77 G58,G73		h -08.	i ileat bilik.
13013	2N4401	A30, A47, B12 B13, B16, B22 B23, C36, D18 D24, D42, E56 E70r			
10443-01	2N5320	E51,E65			
10444-01	2N5322	E44,E60			
10445-01	2N6103	D48,D63,F47 F63			
13063	TIP41A	C20,E21			
13064	TIP42A	C12,E12			
	LC.'s				
10165	72747	B62,F18			
10166	748	A50,B55			
100300-01	Resistor Network, 10K	A74,A75			
	MISCELLANEOUS				
10626-00	Switch, Toggle	A42			
22819	Tab, 187 Series	B75,C75			,
24376-01	Heat Sink	(Mounted to PCB)			
70373–10	Standoff	(Between Heat Sink and PCB)			

SECTION IL6
40515-04 TRANSDUCER PCB ASSEMBLY, STANDARD

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			RESISTORS	
10059-01	.1 Ohm 3W 1%	G45,G50	10004-79	64.9K 1/8W 1%	B43,C32,C43 D32,D43
10031-82	82 Ohm 1/2W 5%	G12,G20	10005-01	100K 1/8W 1%	B42,C30,C42
10020-27	2.7 Ohm 1/4W 5%	E30,E40,G47			D30,D42
100399-01	10 Ohm 1W 5% Fusible	F50,F51,G1	10003-69	5.11K 1/8W 1%	A31,A32,A42 A43
10429-23	82 Ohm 1/4W 2%	G15,G18	10003-01	1K 1/8W 1%	J4,J18,J30 J39
10429-25	100 Ohm 1/4W 2%	A51,B29,D26 D51	10003-04	1.07K 1/8W 1%	J16,J24,J26 J29,J32,J41
10429-32	200 Ohm 1/4W 2%	A50,B31,D27 D50			J45,J47
10429-39	390 Ohm 1/4W 2%	G14,G19	10003-14	1.37K 1/8W 1%	J6,J12,J14 J20,J21,J34 J35,J43
10429-41	470 Ohm 1/4W 2%	H44			000,010
10429-61	3.3K 1/4W 2%	G31,G34,G35 H31,J5,J7 J9,J11,J13		CAPACITORS	
		J15,J17,J19 J23,J27,J31 J33,J37,J40	10061-27	27pF 500V	E31,E33,E41 E43,E45
		J44,J46	10061-75	75pF 500V	A30,A41
10429-90	51K 1/4W 2%	E32,E34,E42 E44,E46	10062-10	100pF 500V	E35,E36,E37 E38,E39
10429-37	330 Ohm 1/4W 2%	A29,A40	10000 15	150- T 500V	
10429-49	1K 1/4W 2%	A9,A10,A11 A12,A18,A19	10062-15	150pF 500V	A8,A22,D9 D20,F9,F20
		A20,A21,A52 B30,C12,C23 C27,D6,D7,D11 D12,D17,D18 D22,D23,D52	10062-91	910pF 100V	A7,A13,A16 A23,B24,C5 C10,C16,E5 E10,E16,E21
		E6,E12,E13 E17,E23,E24	10070-22	.0022uF 80V	G3,G5,G7,G9
		E29,F5,F6 F12,F13,F15 F17,F23,F24	10076-68	6.8uF 35V	B40,G11,G51 J50
		F30,F32,F40 F42,F44,G36	10410-22	22uF 15V	F38,H25
10430-01	100K 1/4W 2%	G30,G32,G40	10071-10	.01uF 80V	A27,A39
10430-01	100K 1/4W 2%	G42,G44	10038-01	.1uF 50V	B27,C35,C39 C45,C46,D5
10004-58	39.2K 1/8W 1%	B41,C29,C40 D29,D40			D13,D16,D24 E27,F28,G29 G39,H13,J49
10003-33	2.15K 1/8W 1%	J8,J10,J22 J25,J28,J36 J42,J48			300911109010

PART NO.	DESCRIPTION	LOCATION(S)
-	DIODES	
10329	6.8V Zener, 1N4736	G16,G17
	TRANSISTORS	
10443-01	2N5320	F14
10444-01	2N5322	F25
13013	2N4401	B33,B45,D34 D45
13070	PN3644	B36,B48,D36 D48
	LC.'s	·
10136	7404	H12
10125	7420	H30
10460	7406	H6,Н18,Н36 Н42
10191	74195	H24,H48
10303-01	7486	F36,F48
10165	72747	A36,A48,C36 C48
10124	733	B10,B21,D10 D21
10168	319	F10,F21
	MISCELLANEOUS	
13019-13	Connector, 14-pin	J8

SECTION IL7
40730-10 PRINT WHEEL POWER AMP. PCB ASSEMBLY, 1650 (see notes)

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			RESISTORS	
10059-01	.1 Ohm 3W 1%	G23,H23	10004-01	10K 1/8W 1%	A25,F67,F75
10429-01	10 Ohm 1/4W 2%	A55,G73,G74	10004-30	20K 1/8W 1%	D68,D75
10429-25	100 Ohm 1/4W 2%	A7,A34,B45 C31,D8,D24	10004-43	27.4K 1/8W 1%	D67,D74
		F14,F30	10003-90	8.45K 1/8W 1%	B40
10429-37	330 Ohm 1/4W 2%	D46,D62,E46 E62	13107	.5 Ohm 5W 1%	C57
10400 41	470 Oh 1/4TH 90/		10430-18	510K 1/8W 2%	C30
10429-41	470 Ohm 1/4W 2%	C36,C63,C64 G57,G63,G64 G70,H49,H71	10429-42	510 Ohm 1/4W 2%	F34
	4 4 44 004		10032-68	680 Ohm 1/2W 5%	G 59
10429-49	1K 1/4W 2%	B29,B43,B58 C7,C23,C60 F36,G71,G72	10033-12	1.2K 1/2W 5%	E47,E48,E63 E64
		H46,H48,H63 H64,H65,H70	10042-30	300 Ohm 1W 5%	G3,G21
10429-56	2K 1/4W 2%	B57,B60,B63	10042-20	200 Ohm 1W 5%	G14,G30
		C6,C14,C17 C18,C22,C34 C52,D14,D31	10031-82	82 Ohm 1/2W 5%	G75
		F19,F37,F38 F39,G17,G18 G34,G35,G53 H51	13033	.1 Ohm 2W 5%, Fusible	H44,H55
		HJ1		CAPACITORS	
10004-58	39.2K 1/8W 1%	B39,C41	10062-12	120pF 500V	C5,G16
10429-57	2.2K 1/4W 2%	D70,F71	10062-56	560pF 300V	·
10429-66	5.1K 1/4W 2%	B59,C16,D34	10002-30	200ft 200A	B44,E75,F66
		G40,G41	10070-15	.0015uF 200V	G32
10429-73	10K 1/4W 2%	A21,A24,B61 D69,D73,G51	10070-22	.0022uF 80V	A22,E50,E66
10003-51	3.32K 1/8W 1%	B51	10071-22	.022uF 80V	A71
			10086-10	.1uF 50V	B31,C38
10430-08	200K 1/4W 2%	F68,F74	13069	1uF 50V	C68,D72
10429-90	51K 1/4W 2%	A13	10086-47	.47uF 50V	A56
10429-84	30K 1/4W 2%	B62	10205-22	22uF 35V	J50,J61
10430-01	100K 1/4W 2%	C62	13036	3uF 100V	E18
10003-60	4.12K 1/8W 1%	B41			
10001-01	10 Ohm 1/8W 1%	C48,C49	10076-68	6.8uF 35V	J73
10002-01	100 Ohm 1/8W 1%	B47	10062-82	820pF 300V	C21
10002-83	715 Ohm 1/8W 1%	A33	10070-33	.0033uF 80V	B30
	. 15 01111 1/011 1/0		10061-10	10pF 500V	A30

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	DIODES			MISCELLANEOUS	in the second
10160	1N4454	B17,B42,B50 B52,B55,C15	24376-02	Heat Sink	(Mounted to PCB)
		C39,C40,C50 C51,F40,F41 G36,G37,G38 G39,G65,G66 H47,H53	70373-10	Standoff	(Between Heat Sink and PCB)
10369	1N4002	C55,D45,D61 E45,E55,E61 G61,G62	70111-07 70111-04	Screw, 4-40 X .4375 Screw, 4-40 X .250	(To mount Heat Sink) (Transistor
13009-31	5.1V Zener 1N5231B	F69,F70,F72 F73,H16,H31	70813	Insulator	mounting) (Transistor
13054	1N5415	E10,E11,E26 E27	70812	Insulator	mount screws) (Between
13009-34	6.2V Zener, 1N5234B (Note 2)	C37			transistor and Heat Sink)
13108	5.1V Zener, 1N5338A	F55	Notes:		
•	TRANSISTORS			ermal compound #10549 re wer transistors, insulators a	
13070	PN3644	C44,D5,D21 D43,D50,D64 E35,E58,G67 H18,H35,H50 H67		rt number 10103-02 may be 109-34 is not available.	e substituted if
13013	2N4401	C4,C19,C65 F16,F32,F45 F48,F58,F64 G47,H61			
10444-01	2N5322	E6,E22			-
10443-01	2N5320	E14,E30,H59			
10445-01	2N6103	C10,C26,G10 G26	• ,		
13007	TIP125	C73			
	LC.'s				
10165	72747	A45,E74			
10166	748	A19,A31			
10168	319	A64			
100300-01	Resistor Network, 10K	A50,A51			
	MISCELLANEOUS				
10626-00	Switch, Toggle	A36,A67			
22753	Jumper Module	D33			o

SECTION IL8
40530-10 PRINT WHEEL POWER AMP. PCB ASSEMBLY, 1640 (see notes)

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			RESISTORS	
10429-01	10 Ohm 1/4W 2%	G73,G74	10004-43	27.4K 1/8W 1%	D67,D74,F67 F75
10429-25	100 Ohm 1/4W 2%	A7,A34,A55 B45,C31,D8 D24,F14,F30	10003-90	8.45K 1/8W 1%	B40
40400 05	000 01 1/477 00		13038	1 Ohm 3W 1%	C57,H23
10429-37	330 Ohm 1/4W 2%	D46,D62,E46 E62	10032-68	680 Ohm 1/2W 5%	G59
10429-41	470 Ohm 1/4W 2%	C36,C63,C64 G57,G63,G64 G70,H49,H71	10033-12	1.2K 1/2W 5%	E47,E48,E63 E64
10400 40	117 1 /ATM 90V		10042-30	300 Ohm 1W 5%	G 3, G21
10429-49	1K 1/4W 2%	B43,B58,C7 C23,F36,G71 G72,H46,H48	10042-20	200 Ohm 1W 5%	G14,G30
		H63,H64,H65 H70	10031-82	82 Ohm 1/2W 5%	G75
10429-56	2K 1/4W 2%	B57,B60,B63 C6,C14,C17	13012	1 Ohm 2W 5%, Fusib le	C55
		C18,C22,C34 C52,D14,D31	13033	.1 Ohm 2W 5%, Fusible	H44,H55
		F19,F34,F37 F38,F39,G17 G18,G34,G35	10429-84	30K 1/4W 2%	B62
		G53,H51		CAPACITORS	
10004-41	26.1K 1/8W 1%	C41	10062-12	120pF 500V	C5,G16
10429-57	2.2K 1/4W 2%	D70,F71	10062-56	-	•
10429-66	5.1K 1/4W 2%	B59,C16,G40 G41,D34	10070-15	560pF 300V .0015uF 200V	B44 G32
10429-73	10K 1/4W 2%	A21,A24,B61	10070-22	.0022uF 80V	A22,E50,E66
	•	D69,D73,G51	10071-22	.022uF 80V	A71
10004-47	30.1K 1/8W 1%	B39	10086-10	.1uF 50V	B31,C38
10003-69	5.11K 1/8W 1%	B51			•
10430-08	200K 1/4W 2%	F68,F74	10086-47	.47uF 50V	A56
10429-90	51K 1/4W 2%	A13,C30	10205-22	22uF 35V	J50,J61
10026-51	5.1M 1/4W 5%	C62	13036	3uF 100V	E18
10003-60	4.12K 1/8W 1%	B41	10076-68	6.8uF 35V	J73
			10062-82	820pF 300V	C21
10001-01	10 Ohm 1/8W 1%	C48,C49	10061-10	10pF 500V	A30
10002-01	100 Ohm 1/8W 1%	B47			
10003-18	1.5K 1/8W 1%	A33			
10004-01	10K 1/8W 1%	A25,C60			

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	DIODES			MISCELLANEOUS	
10160	1 N4454	B17,B42,B50 B52,B56,C15	22753	Jumper Module	G23,D33
		C39,C40,C50 C51,F40,F41	10626-00	Switch, Toggle	A36,A67
		G36,G37,G38 G39,G65,G66 H47,H53	24376-02	Heat Sink	(Mounted to PCB)
10369	1 N4002	D45,D61,E45 E55,E61,G61 G62	70373-10	Standoff	(Between Heat Sink and PCB)
13009-31	5.1V Zener, 1N5231B	F69,F70,F72 F73,H16,H31	70111-07	Screw, 4-40 X .4375	(To mount Heat Sink)
13054	1N5415	E10,E11,E26 E27	70111-04	Screw, 4-40 X .250	(Transistor mounting
10103-02	6.2V Zener	C37	70813	Insulator	(Transistor mount screws)
	TRANSISTORS		70812	Insulator	(Between transistor and Heat Sink)
	IRANDIOLD				and near blik)
13070	PN3644	C44,D5,D21 D43,D50,D58 D64,E35,G67 H18,H35,H50 H67		mal compound #10549 requer transistors, insulators an	
13013	2N4401	C4,C19,C65 E58,F16,F32 F45,F48,F64 G47,H61	pomo	a dabbeets, instancers an	d near onne
10444-01	2N5322	E6,E22			
10443-01	2N5320	E14,E30,H59			
10445-01	2N6103	C10,C26,G10 G26			
13007	TIP125	C73			
	LC.'s				
10165	72747	A45,E74			
10166	748	A19,A31		,	
10168	319	A64			
100300-01	Resistor Network, 10K	A50,A51			

HPR&4 ROM 180318-02 XPN 547N321

SECTION IL9 00568-01 H4CPN PCB ASSEMBLY

		CATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
				MISCELLANEOUS	
		,R2,R3,R4	42503-01	Buzzer	DS1
		,R6,R7,R8 ,R10,R11 3	70027-05	Screw, 2-56 X .312 P.H.	DS1
		2	70168-02	Lockwasher, #2	DS1
			100065-03	Switch, 4 X SPDT	S1,S2,S3
10038-01	.1uF 50V	C2,C3,C4,C5	42501-10	Switch, SPDT	S8,S9,S10 S11
10410-22	22uF 15V	C6,C7,C8 C1	42502-10	Switch SPDT, Momentary	S4,S5,S6,S7
10077-22	22uF 35V	C9	14022-03	Spacer	CR1,CR2,CR3 CR4,CR5,CR6
	DIODES			•	CR7,CR8,CR9 CR10,CR11 CR13
10160	1 N4454	CR12	70166-02	Nut, 2-56	DS1
14005-01	L.E.D. Red	CR1,CR2,CR3 CR4,CR5,CR6 CR7,CR8,CR9 CR10,CR13	10100-02	Nut, 2-30	DSI
42222-01	L.E.D. Green	CR11			
	LC.'s				
10209-01	74LS04	U3			
10390	7416	U1,U4			
100228-01	74LS139	U2			
42412-01	74LS244	U6			
42407-03	8255A	U 5			
10761	Resistor Network, 1K	U7,U8			

SECTION IL10
301153-05/-06 UNIVERSAL POWER SUPPLY PCB ASSEMBLY (see notes)

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			RESISTORS	
10429-01	10 Ohm 1/4W 2%	C32,C133,B25	10054-15	15K 2W 5%	B63
10429-18	51 Ohm 1/4W 2%	C132	10054-22	22K 2W 5%	C3
10429-23	82 Ohm 1/4W 2%	C33	10054-33	33K 2W 5%	C10,C11
10429-25	100 Ohm 1/4W 2%	A76,C6,C7	10055-10	100K 2W 5%	C4
10429-34	240 Ohm 1/4W 2%	C19,C20	10041-10	10 Ohm 1W 5%	B56,B64
10429-32	200 Ohm 1/4W 2%	A64,A65,B15	10003-01	1K 1/8W 1%	B22,B26
10429-49	1K 1/4W 2%	B24,B28	10004-91	86.6K 1/8W 1%	B23
10429-56	2K 1/4W 2%	A77	10229-07	2K Trimmer	A71
10429-31	180 Ohm 1/4W 2%	B20			
10429-59	2.7K 1/4W 2%	A70		CAPACITORS	
10429-68	6.2K 1/4W 2%	B19	100079-01	.005uF 1.4KV	A1,A2,A38
10429-71	8.2K 1/4W 2%	A79	100000 01	(Note 2)	A59
10429-73	10K 1/4W 2%	A73,B18,B27	100080-01	.1uF 500V (Note 3)	A3
10400 00	9 ATZ 1 /ATX 90V	B32	100088-01	480uF 200V	A5,A25
10429-62	3.6K 1/4W 2%	B33	100081-01	.47uF 400V	C16
10429-84	30K 1/4W 2%	B16	100089-01	.1uF 50V	A61,A118
10429-95	82K 1/4W 2%	B17			B37,B68 B118,B130
10430-05	150K 1/4W 2%	B31	10000 00	000-T C0017	C1,C130,C134
10430-08	200K 1/4W 2%	A22,A23	10062-22	220pF 500V	A62
10026-10	1MEG 1/4W 5%	C23,C18	10062-30	300pF 500V	B35
10429-08	20 Ohm 1/4W 2%	A88,B85,C77	10029-07	.0033uF 200V	A78
10432-05	15 Ohm 1/2W 2%	A66	10062-47	470pF 500V	B42
10432-29	150 Ohm 1/2W 2%	C112	100090-01	100uF 200V	B50
10432-66	5.1K 1/2W 2%	A120,B120	10077-12	12uF 20V	B61
10432-96	91K 1/2W 2%	B34	100082-01	.01uF 50V	A92,A93 B93,B94
10059-01	.1 Ohm 3W 1%	B40			C90,C91
13012	1 Ohm 2W 5%	A56	100084-01	.05uF 50V	A87,B88 B109,B110
10029-96	91K 1/4W 2%	B37			C82,C106
			10029-05	.0022uF 200V	B38

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	CAPACITORS			MISCELLANEOUS	
13241-01	2200uF 35V	A122,B123 B126,C115 C126	301075-01	RF Common Mode Transformer	C122
10029-32	.01uF 80V	B29	301071-02	High Freq Power Transformer	B70
10086-22	.22uF 50V	A63	301072-01	Saturable Current Transformer	B57
	DIODES		301073-01	High Freq Current Transformer	A86,B83, C80
100094-01	MR 854	A55,B39	100092-01	Heat Sink,	(Mounted
10160	1N4454	A80,A82,A83 A84,B21,B54	100032-01	Transistor	to base)
		B55,B59,B60 B62,B86,B87	70166-66	Nut, 6-32	(To mount transistor to PCB)
100096-01	MR 506	B1,B2,B3,B4	70425-06	Lockwasher, #6	(Between nut
100098-01	20V Zener, 1N4747A	A72,C2	10420-00	Lockwasier, #0	and transistor base)
100099-01	5.6V Zener, 1N5232D	C131	22819	Tab. 187 Series	A6, A9
100100-01	R711-XA	A95	100492-04	Stud, 6-32 X .500	A95,B92,B95
100101-01	R711-X	B95	100.02 01	Threaded	1100,001,000
100102-01	VSK3020T	B92 .	10883-09	Terminal Block	A135
10329	6.8V Zener, 1N4736A	A60	70014-04	Screw, 10-32 X .250	(To mount
100095-01	1 N4936	C17	10014-04	Screw, 10-32 A .230	capacitor to PCB)
	TRANSISTORS		70425-10	Lockwasher, #10	(Betw. screw and PCB)
100103-01	MPS-A93	C21,C22	100105-01	Opto-Coupler	B36
100106-01	Transistor Array	B12	10589-02	Fibre Washer	(Betw. Heat
100116-01	2N6308	C35,C52,C64			Sink and PCB)
100117-01	TIP49	C5,C9,C30	22753	Jumper Module	A4,A81,B89
	LC.'s		*10377	SCR 2N6401	C135
10321-02	723A SEL	A67,B30	*70840-10	Stud, 4-40 X .625 Self-Clinch	(To mount to Heat Sink Plate
	MISCELLANEOUS		******	To all them Observation	Assembly.)
301269-01	Ferrite Bead/Wire Assembly	B121,B122	*70813	Insulator, Shoulder	(Between transistor insuL/screw)
301070-01	High Freq Choke 2.8uH	A40	*301157-02	Heat Sink Plate	(Mounted to base)
301074-01	High Freq Choke 10uH	A112,B112	*100369-01	Washer, Shoulder	(Betw screw and Heat Sink
301166-01	High Freq Choke 50uH	A52			Plate Assy.)

PART NO.	DESCRIPTION	LOCATION(S)
	MISCELLANEOUS	
*70166-04	Nut, 4-40 X .250	(To mount transistor to Heat Sink Plate)
*70425-04	Lockwasher, #4	(Betw. nut and transistor base)
*10516-04	Screw, 4-40 X .250	(To mount transistor to Heat Sink Plate)
*100115-01	Insulator, Transistor	(Betw. transistor and Heat Sink Plate Assy.)
*301048-12	Jumper, 115/230VAC	B1,B2
*100114-01	Insulator, .062 Thk	(Betw. Heat Sink Plate Assy. and Lockwasher #4)

*NOTE: Universal Power Supply PCB Assemblies without the above parts may be obtained by ordering the following part numbers:

301100-05	Universal Power Supply	PCB	Subassembly,
301100-06	115/230VAC Standard Universal Power Supply 115/230VAC VDE	PCB	Subassembly,

- Thermal compound #10549 required between power transistors, insulators and Heat Sink. (1)
- Not used at A1 and A2 on 301153-06. (2)
- (3) Used on 301153-05 only.

Figure 3-1 24075-05 FRICTION PLATEN ASSEMBLY

<u>3</u>

24075-05 FRICTION PLATEN ASSEMBLY, STANDARD (see notes)

ITEM	PART NO.	DESCRIPTION
1	301290-02	Core Assembly.
2	70227-06	Retaining Ring
3	100357-01	Setscrew, 8-32 X .187
		Cone Point
4	24413	Guide Driver (Note 1)
5	100356-01	Setscrew, 8-32 X .187
		Cup Point
6	20559	Driver, Platen (Note 1)
7	20592	Spring, Compression
8	24072	Shaft, Platen Push
9	20560	Gear, Drive (Note 1)
10	24288	Gear, 45T Spur
11	20498	Knob
12	70172-07	Retaining Ring
13	40859	Pin, Driver
14	40858	Retainer, Driver Pin
15	320262-01	Hub, Right, Platen
16	46103-05	Label, ID
17	320273-01	Hub, Left, Platen
		·

Notes:

(1) Items 4, 6, and 9 available as a clutch kit: 301870-01.

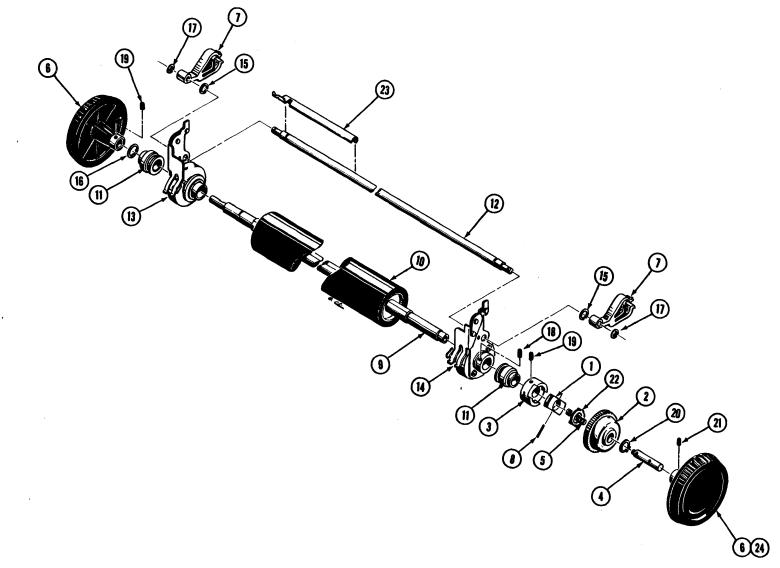


Figure 3-2 320160-XX PIN FEED PLATEN ASSEMBLY

320160-XX PIN FEED PLATEN ASSEMBLY (see notes)

ITEM	PART NO.	DESCRIPTION
1	20559	Driver, Platen (Note 2)
	20560	Gear, Drive (Note 2)
2	20560 24413	
2 3 4		Guide, Driver (Note 2)
	24072	Shaft, Platen Push
5	20592	Spring, Compression
6	20498	Knob
7	20704-01	Clip
8	40859	Pin, Driver
9	22489	Shaft
10	22487-XX	Core Assembly (Note 1)
11	320262-01	Hub, Platen
12	24268	Shaft
13	320162-01	Pin Housing Assembly, Left
14	320163-01	Pin Housing Assembly, Right
15	70172-05	Retaining Ring
16	70172-08	Retaining Ring
17	70170-05	"E" Ring
18	100358-01	Setscrew, 6-32 X .125
		Cup Point
19	100356-01	Setscrew, 8-32 X .187
		Cup Point
20	70172-07	Retaining Ring
21	100357-01	Setscrew, 8-32 X .187
	100001 01	Cone Point
22	40858	Retainer
23	46007-01	Guide, Paper
24	46103-07	Label, ID

- (1) Pin Feed Platen Assemblies:
 See Appendix "D"
- (2) Items 1, 2, and 3 available as a clutch kit: 301870-01.

Figure 3-3
24313-XX PIN FEED PLATEN ASSEMBLY, REVERSIBLE

24313-XX PIN FEED PLATEN ASSEMBLY, REVERSIBLE (see notes)

ITEM	PART NO.	DESCRIPTION
		- · · · · · · · · · · · · · · · · · · ·
1	20559	Driver, Platen (Note 2)
2	20560	Gear, Platen Drive (Note 2)
3	24413	Guide, Drive (Note 2)
4	24072	Shaft, Platen Push
5	20592	Spring, Compression
6	20498	Knob
7	20704-01	Clip
8	40859	Pin, Driver
9	22489	Shaft
10	22487-XX	Core Assembly (Note 1)
11	320262-01	Hub, Platen
12	24268	Shaft
13	24316	Pin Housing Assembly, Left
14	24315	Pin Housing Assembly, Right
15	100357-01	Setscrew, 8-32 X .187
		Cone Point
16	70170-05	"E" Ring
17	70172-05	Retaining Ring
18	70172-08	Retaining Ring
19	46103-09	Label, ID
20	70172-07	Retaining Ring
21	40858	Retainer
22	100358-01	Setscrew, 6-32 X .125
		Cup Point
23	40717	Rack
24	100356-01	Setscrew, 8-32 X .187 Cup Point
		=

Notes:

(1) Pin Feed Platen Assemblies, Reversible:

Assembly No.	Paper Width (inches	Core No.	
24313-09	14.875	22487-09	
24313-10	1 5.000	22487-10	

(2) Items 1, 2 and 3 available as a clutch kit: 301870-01.

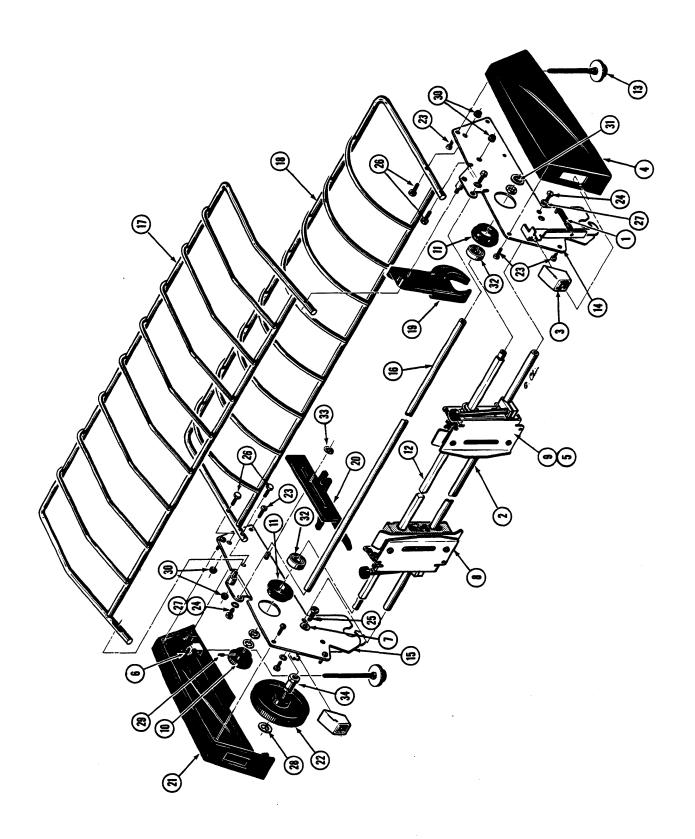


Figure 3-4 24345-03 TRACTOR FEED ASSEMBLY

24345-03 TRACTOR FEED ASSEMBLY

ITEM	PART NO.	DESCRIPTION
1	20081-01	Spring
2	20116	Shaft Support
3	22493-01	Knob, Latch
4	301858-02	Cover, Right
5	46103-13	Label, ID
6	100380-01	Speed Nut
7	70179-08	Washer, #8 Flat, Narrow
8	301845-01	Tractor, Left Tractor, Right
9	301845-02	Tractor, Right
10	22811-01	Gear, 25T Spur
11	301903-01	Bearing, Outer
12	22813-01	Shaft, Tractor Drive
13	22902-01	Leveler Assembly
14	24347	Frame Assembly, Rught
15	24348	Frame Assembly, Left
16	24328	Shaft
17	301863-01	Rack, Upper
18	301862-01	Rack, Lower
19	24338	Interlock, Pressure Roll
20	24339 .	Lever, Manifold
21	301858-01	Cover, Left
22	24344	Gear, 75T Spur
23	70805-02	Screw, 4-20 X .375 P.H.
24	70030-06	Screw, 6-32 X .375 P.H.
25	100246-02	Screw, 8-32 X .375 P.H.
26	70058-08	Screw, 6-32 X .500 Hex Hd.
27	70168-06	Lockwasher, #6
28	70170-10	Retaining Ring
29	70294-03	Setscrew, 6-32 X .187
		Hdls Hex Skt, Cup Point
30	70318-06	Nut, 6-32
31	100395-01	Nut, Push-on
32	301902-01	Bearing, Inner
33	70817-02	Retaining Ring
34	24341-01	Stud, Gear

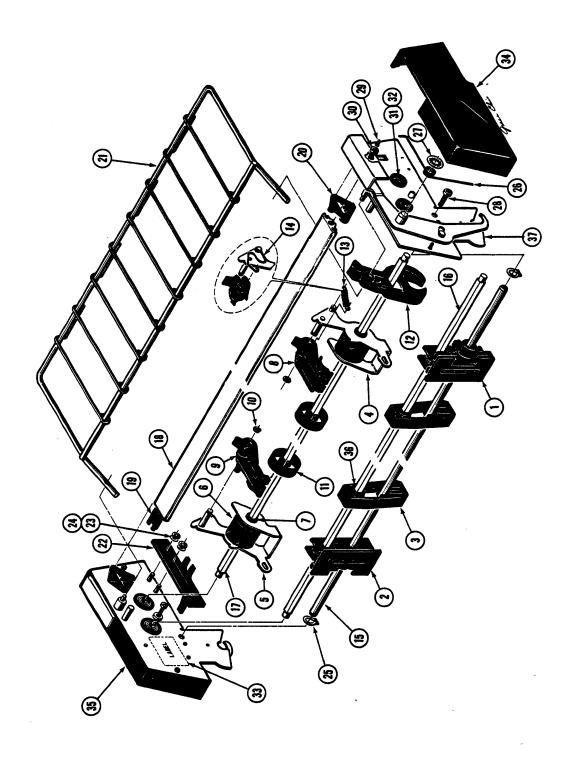


Figure 3-5 301180-03/-09 BIDIRECTIONAL TRACTOR

SECTION IIL5

301180-03/-09 BIDIRECTIONAL TRACTOR (see notes)

<u>ITEM</u>	PART NO.	DESCRIPTION		
1	301966-02	Tractor Head, Right	Notes:	
2	301966-01	Tractor Head, Left		
3	301305-01	Guide	(1)	Parts not numbered or shown are NOT
4	301504-02	Tractor Arm, Right		available separately.
		(Notes 2 and 3)	4-5	
	301504-04	Tractor Arm, Right (Note 4)	(2)	Used on early units, replace with 301695-01
5	301504-01	Tractor Arm, Left		(item 13), Guide 301483-03 or -04 (items 8
		(Notes 2 and 3)		and 9), and Tractor Arm 301504-03 or -04
	301504-03	Tractor Arm, Left (Note 4)		(items 4 and 5). All three revised parts
6	301478-01	Sprocket		must be installed at the same time.
7	301481-01	Bearing	4-1	
8	301483-02	Guide, Right (Notes 2 and 3)	(3)	Used on 301180-03 only.
_	301483-04	Guide, Right (Note 4)		
9	301483-01	Guide, Left (Notes 2 and 3)	(4)	Used on 301180-09 only.
	301483-03	Guide, Left (Note 4)		
10	70172-04	Retaining Ring		
11	301413-01	Guide Wheel, Sq		
12	301359-01	Interlock		
13	301695-01	Spring (Note 4)		
14	301384-03	Spring (Note 3)		
15 16	301357-01 301912-02	Shaft, Tractor Support		
17	301912-02	Shaft, Square, Grooved Shaft, Square		
18	301313-02	Brace		
19	301313-02	Bumper		
20	301508-01	Retainer, Brace		
21	301358-02	Rack		
22	301348-01	Lever, Manifold (Note 3)		
	301727-01	Lever, Manifold (Note 4)		
23	70170-03	Retaining Ring		
24	302623-01	Spring, Manifold (Note 4)		
25	70172-07	Retaining Ring		
26	301322-01	Torsion Spring, Left (Note 3)		
	301322-02	Torsion Spring, Right (Note 3)		
	302577-01	Torsion Spring, Left (Note 4)		
	302577-02	Torsion Spring, Right (Note 4)		
27	70817-07	Retaining Ring		
28	301424-02	Screw, 10-32 X .38 Torx		
29	100379-01	Screw, 4-20 X .375 H.H.		
30 21	100211-03	Screw, 10-16 X .625 T.F. P.H.		
31	301904-01	Bearing, Outer		
32 33	301902-01 46103-15	Bearing, Inner		
34	301326-02	Label, Tractor Cover, Right (Note 3)		
J-1	301326-06	Cover, Right (Note 4)		
35	301326-01	Cover, Left (Note 3)		
•	301326-05	Cover, Left (Note 4)		
36	301448-01	Bearing, Guide		
37	301525-01	Frame Assembly, LH, Tractor		
		(Note 3)		
	301525-02	Frame Assembly, RH, Tractor		
		(Note 3)		
	301525-07	Frame Assembly, LH, Button		
		(Note 4)		
	301525-08	Frame Assembly, RH, Button		
		(Note 4)		

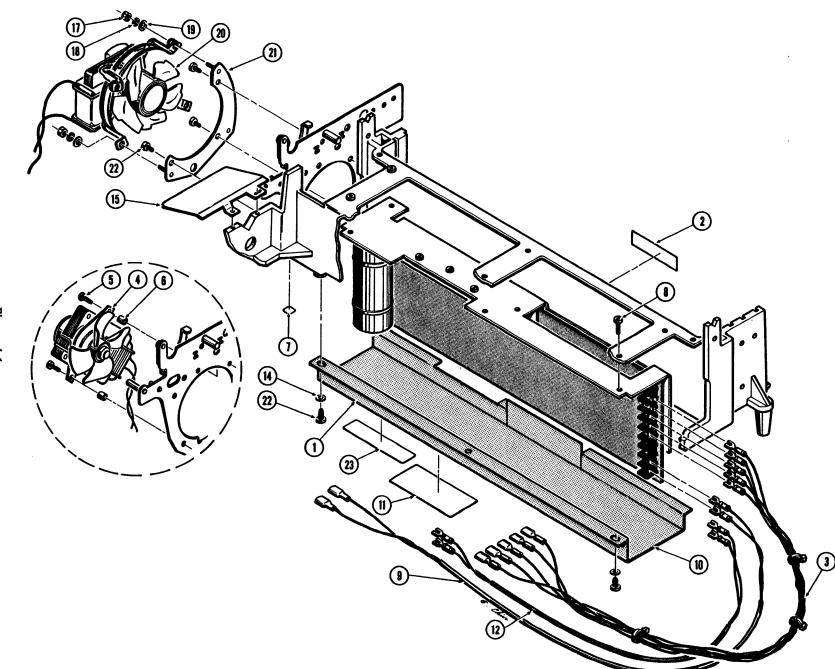


Figure 4-1a 312230-XX/400774-XX POWER SUPPLY ASSEMBLY

312230-XX/400774-XX POWER SUPPLY ASSEMBLY (see notes)

ITEM	PART NO.	DESCRIPTION			
1	26021-01	Power Supply, 115VAC,	Notes:		
	26021-02	Boschert (Note 5) Power Supply, 230VAC, Boschert (Note 5)	(1)	Power Supply	Assemblies:
	301155-05	Power Supply, 115/230VAC, Standard Universal (Note 7)		312230-01 312230-02	115VAC, No Control Panel 230VAC, No Control Panel
	301155-06	(see Section IV.1b) Power Supply, 115/230VAC, VDE Universal (Note 7)		312230-03 312230-04 400774-01	230VAC, VDE, No Control Panel 115VAC, VDE, No Control Panel 115VAC, With Control Panel
	301885-09	(see Section IV.1b) Power Supply, 230VAC, Standard Systems M.B.		400774-02 400774-03	230VAC, With Control Panel 230VAC, VDE, With Control Panel
	301885-10	Universal (Note 6) (see Section IV.1b) Power Supply, 115VAC,		400774-04	115VAC, VDE, With Control Panel
		Standard Systems M.B. Universal (Note 6)	(2)		of 230VAC Models only.
	301885-11	(see Section IV.1b) Power Supply, 115VAC, VDE	(3)	Used with Box	schert Power Supplies only.
		Universal (Note 6) (see Section IV.1b)	(4)	Used with Un	iversal Power Supplies only.
	301885-12	Power Supply, 230VAC, VDE Universal (Note 6) (see Section IV.1b)	(5)	Used in 40077 an alternate.	4-01, -02 assemblies only as
2	14035-05	Label, Voltage (Note 2)	(6)	Used on 3122	30-XX assemblies only.
3 4	26097-01 14011-01 14012-01	Cable, DC Power (Note 7) Fan, 115VAC (Note 3) Fan, 230VAC (Note 3)	(7)	Used on 4007	74-XX assemblies only.
5	70829-10	Screw, 8-32 X .625 T.F. P.H. (Note 3)	(8)		74-03, -04 assemblies only. on 400774-01, -02 assemblies as
6 7	20460 301613-01	Spacer (Note 3) Label, Earth Symbol (Note 6)		an alternate.)	•
8	70828-06	Screw, 6-32 X .375 T.F. P.H.			
9 10	23856 301628-02	Cable, Fan (Note 8) Power Supply Cover			
11	23147-01	Label, Warning, 115VAC			
	23147-07	Label, Warning, 230VAC			
12	301916-01	Cable, AC Interconnecting (Note 7)			
13		Not Used			
14	70169-08	Washer			
15	301468-01	Shield, Fan			
16	,	Not Used			
17	70166-66	Nut, 6-32 Hex (Note 4)			
18	70168-06	Lockwasher, #6 (Note 4)			
19	70853	Flatwasher, #6 (Note 4)			
20 -	40809-01	Fan, 115VAC			
21	40809-02 40783	Fan, 230VAC Plate, Fan Mounting (Note 4)			
22	70829-04	Screw, 8-32 X ,250 T.F. P.H. (Note 4)			
23	301615-01	Label, Warning (Note 6)			

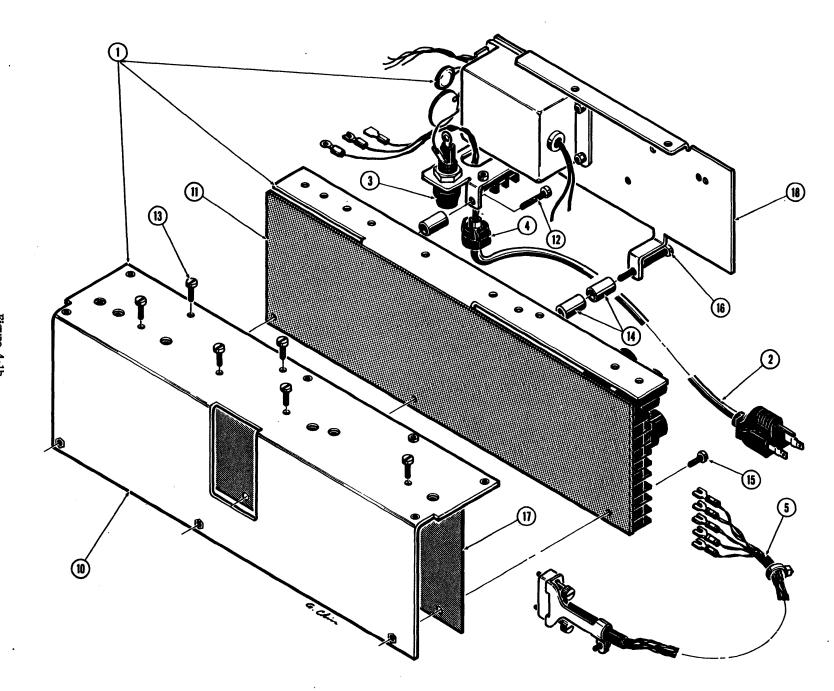


Figure 4-1b 301885-XX UNIVERSAL POWER SUPPLY ASSEMBLY

301885-XX UNIVERSAL POWER SUPPLY ASSEMBLY (see notes)

ITEM	PART NO.	DESCRIPTION
1	301155-05	Power Supply, Standard Filter 115/230VAC (Notes 2 and 4)
	301155-06	Power Supply, VDE Filter 115/230VAC (Notes 2 and 6)
2	301882-01	AC Line Cord Assembly, 115V (Note 3)
	Note:	This assembly includes items 6 thru 9. (Not shown separately).
	301883-01	AC Line Cord Assembly, 230V (Note 5)
	Note:	This assembly includes items 6 thru 8. (Not shown separately).
3	10604-07	Fuse, 4 Amp, 250V (Note 3)
	10604-08	Fuse, 2 Amp, 250V (Note 5)
4	100387-03	Strain Relief
5	26097-01	Cable, DC Power
6	100306-02	AC Power Cord (Note 3)
	10974	AC Power Cord (Note 5)
7	10616-06	Lug, Ring Terminal, #6
8	10969-13	Snap Spade, #5
9	10913-01	Terminal, Quick Disconnect, Female (Note 3)
10	301156-01	Bracket Assembly
11	301153-05	PCB Assembly (Note 4) (see Section IL10)
	301153-06	PCB Assembly (Note 6) (see Section IL10)
12	70030-16	Screw, 6-32 X 1.00 P.H.
13	70030-04	Screw, 6-32 X .250 P.H.
14	100493-03	Spacer, #6 X .750 Phenolic
15	70030-05	Screw, 6-32 X .312 P.H.
16	70030-28	Screw, 6-32 X 1.750 P.H.
17	301539-01	Insulator
18	301151-03	Line Filter Assembly, Standard (Note 4) (see Section IV.1c)
	301151-04	Line Filter Assembly, VDE (Note 6) (see Section IV.1c)

	(1) Universal	Power	Supply	Assemblies:
--	----	-------------	-------	--------	-------------

301885-09	230VAC	Standard	Systems	M.B.
301885-10	115VAC	Standard	Systems	M.B.
301885-11	115VAC	VDE	•	
301885-12	230VAC	VDE		

- (2) Items 10 thru 18 may be obtained as an assembly by ordering item 1.
- (3) Used on 301885-10, -11 assemblies only.
- (4) Used on 301885-09, -10 assemblies only.
- (5) Used on 301885-09, -12 assemblies only.
- (6) Used on 301885-11, -12 assemblies only.

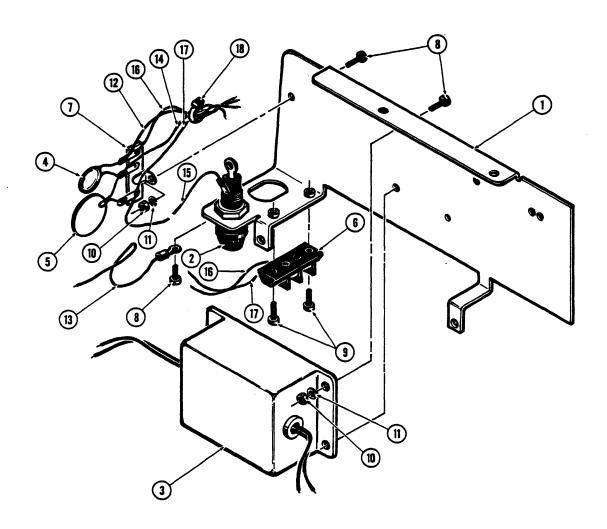


Figure 4-1c 301151-XX LINE FILTER ASSEMBLY, POWER SUPPLY

301151-XX LINE FILTER ASSEMBLY, POWER SUPPLY (see notes)

ITEM	PART NO.	DESCRIPTION
1	301152-03	Line Filter Bracket Assembly
2	100323-01	Fuse Holder
3	100118-01	EMI Filter (Note 3)
4	100119-01	Metal Oxide Varistor
5	100120-01	Thermistor Disc
6	10671-02	Terminal Block
7	100121-01	Terminal Strip
8	70030-04	Screw, 6-32 X .250 P.H.
9	70030-08	Screw, 6-32 X .500 P.H.
10	70166-66	Nut, 6-32 X .250 Hex
11	70168-06	Lockwasher, #6
12	10952-09	Wire, 18 AWG, Wht (Note 2)
13	301048-03	Wire Assembly, Grn
14	10952-00	Wire, 18 AWG, Blk (Note 2)
15	10952-01	Wire, 18 AWG, Brn
16	301048-09	Wire Assembly, Blu
17	301048-10	Wire Assembly, Brn
18	10538-01	Cable Tie

(1)	Line Filter	Assemblies:	
	301151-03	115/230V	Standard
	301151-04	115/230V	VDE

- (2) Used on 301151-03 assembly only.
- (3) Used on 301151-04 assembly only.

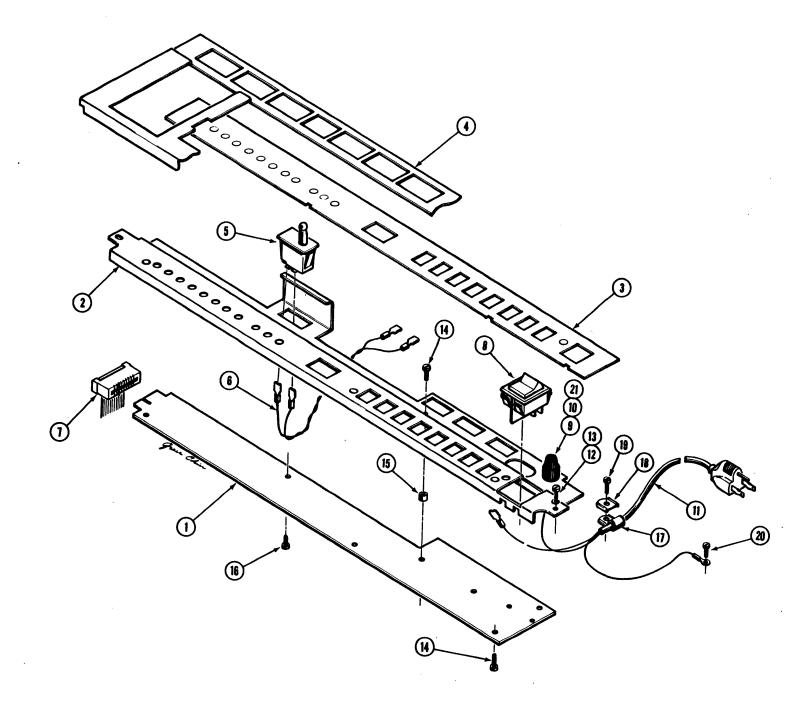


Figure 4-2
400763-XX CONTROL PANEL ASSEMBLY

400763-XX CONTROL PANEL ASSEMBLY (see notes)

ITEM	PART NO.	DESCRIPTION
1	400568-01	H4CPN PCB Assembly (see Section II)
2	400552-02	Control Panel
3	400556-03	Overlay, Control Panel (Note 2)
	400572-01	Overlay, Control Panel (Note 3)
	400754-03	Overlay, Control Panel (Note 4)
	400756-01	Overlay, Control Panel (Note 5)
4	400569-01	Mask, Keyboard
5	10961	Switch, Cover Open
6	23855-03	Cable Assembly, Cover Open
7	400574-01	Cable Assembly, Control Panel
8	100043-01	Switch, Power 76 520108
9	10705	Fuse Holder
10	10717-05	Fuse, 5A (Note 6)
	10962-10	Fuse, 2.5A (Note 7)
11	400015-01	Cable Assembly, AC 115V (Note 6)
	400016-01	Cable Assembly, AC 230V (Note 7)
12	70691	Screw, 6-20 X .500 P.H. Sheet Metal
13	70737-06	Lockwasher, #6 Ext.
14	70030-08	Screw, 6-32 X .500 P.H.
15	70670-04	Standoff, 6-32 X .250 Nylon
16	70030-06	Screw, 6-32 X .375 P.H.
17	10535-18	Cable Clamp
18	10537	"D" Washer
19	70829-08	Screw, 8-32 X .500 T.F. P.H.
20	70829-06	Screw, 8-32 X .375 T.F. P.H.
21	23846	Label, Fuse (Note 7)

Notes:

(1)

400763-01 1640 R/O 115V 400763-02 1640 R/O 230V 400763-03 1640 KSR 115V 400763-04 1640 KSR 230V 400763-05 1650 R/O 115V 400763-06 1650 R/O 230V 400763-07 1650 KSR 115V

Control Panel Assemblies:

1650 KSR 230V

(2) Used on -05, -06 only.

400763-08

- (3) Used on -07, -08 only.
- (4) Used on -01, -02 only.
- (5) Used on -03, -04 only.
- (6) Used on 115V units only.
- (7) Used on 230V units only.

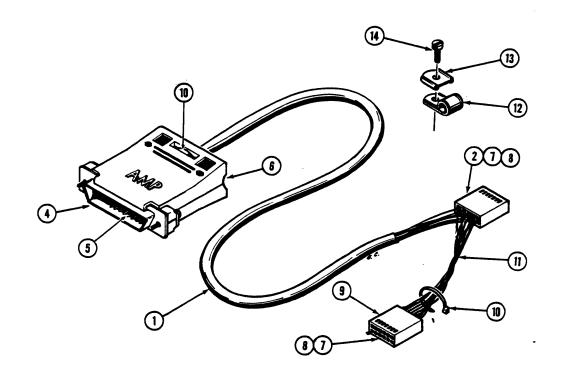


Figure 4-3 301608-XX CURRENT LOOP CABLE KIT

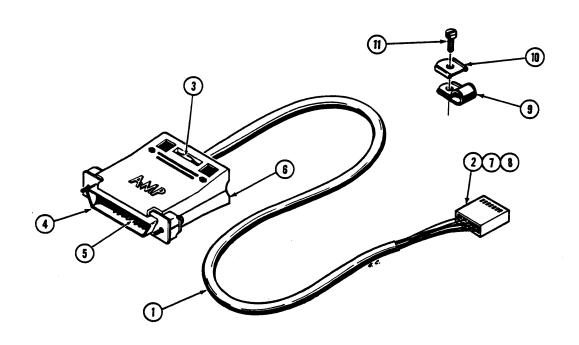


Figure 4-4 400775-01 RS-232-3C CABLE KIT

301608-XX CURRENT LOOP CABLE KIT (see notes)

ITEM	PART NO.	DESCRIPTION		
1	10904-05	Cable	Notes:	
2	10890-08	Housing, Connector		
2 3		Not Used	(1)	Current Loop Cable Kits:
4	10936-25	Housing, Connector (Note 3)		•
	10937-25	Housing, Receptacle (Note 5)		301608-01 Standard
	10845-09	Connector, Male (Note 4)		301608-02 European
5	10939-01	Contact, Pin (Note 3)		301608-03 Special "H"
	10938-01	Contact, Socket (Note 5)		-
6	10947	Hood, Connector (Note 6)	(2)	Items 1 thru 11 are available as an assembly:
	42602-09	Hood, Connector (Note 4)		400017-02 Standard, 25-pin port
7	10891-02	Contact, Pin		400017-03 European, 9-pin port
8	10892	Key, Polarizing		400017-04 Special "H", 25-pin port
9	10890-04	Housing, Connector		
10	10538-01	Cable Tie	(3)	Used on 301608-01 only.
11	10954-00	Wire, #22, Black		·
	10954-01	Wire, #22, Brown	(4)	Used on 301608-02 only.
	10954-04	Wire, #22, Yellow		•
	10954-06	Wire, #22, Blue	(5)	Used on 301608-03 only.
	10954-08	Wire, #22, Gray		·
12	10535-13	Cable Clamp	(6)	Used on 301608-01, -03 only.
13	10537	Washer "D"		•
14	7082 9- 08	Screw, 8-32 X .500 T.F. P.H.		

SECTION IV.4

400775-01 RS-232-3C CABLE KIT (see notes)

ITEM	PART NO.	DESCRIPTION
1 2	10904-10 10890-04	Cable Housing, Connector
3	10967-02	Cable Tie
4	10936-25	Housing, Connector
5	10939-01	Contact, Pin
6	10947	Hood, Connector
7	10891-02	Contact, Pin
8	10892	Key, Polarizing
9	10535-13	Cable Clamp
10	10537	Washer "D"
11	70829-08	Screw, 8-32 X .500 T.F. P.H.

Notes:

(1) Items 1 thru 8 are available as an assembly: 9968029

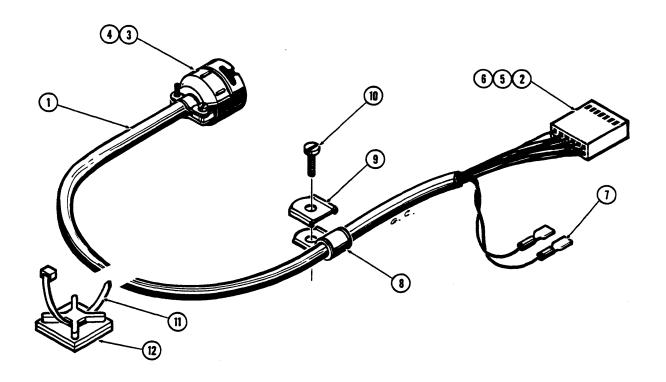


Figure 4-5a
301603-01 HYFEED INTERFACE KIT-UNITS WITH XMEM2 PCB ASSEMBLIES

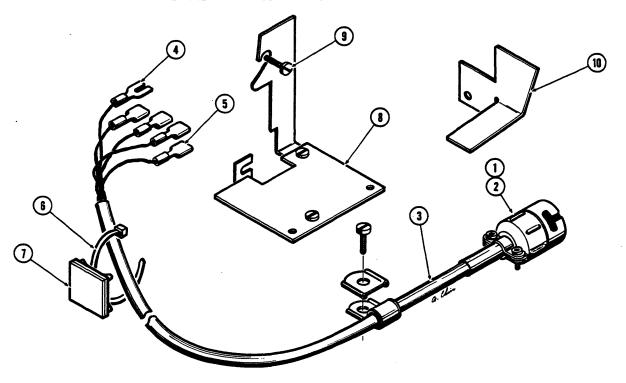


Figure 4-5b 301603-02 HYFEED INTERFACE KIT-UNITS WITHOUT XMEM2 PCB ASSEMBLIES

301603-01 HYFEED INTERFACE KIT-UNITS WITH XMEM2 PCB ASSEMBLIES (see notes)

ITEM	PART NO.	DESCRIPTION
•	10904-20	Cable
1		
2	10890-01	Housing, Connector
3	100265-01	Housing, Circular
4	100266-01	Contact, Female
5	10891-02	Contact, Pin
6	10892	Key, Polarizing
7	10513-11	Receptacle, Crimp on
8	10535-18	Cable Clamp, .312"
9	10537	Washer, "D"
10	70829-08	Screw, 8-32 X .500 T.F. P.H.
11	10538-01	Cable Tie
12	10752-01	Anchor, Cable Tie

Notes:

(1) Items 1 thru 7 are available as an assembly: 400800-01

SECTION IV.5b

301603-02 HYFEED INTERFACE KIT—UNITS WITHOUT XMEM2 PCB ASSEMBLIES (see notes)

<u>ITEM</u>	PART NO.	DESCRIPTION			
1	100265-01	Housing, Circular	Notes:	(Con't)	
2	100266-01	Contact, Female			
3	10904-05	Cable	(2)	The following	parts are available for the
4	10969-15	Terminal, Spade Lug		PCB Connecte	or Assembly:
5	10513-10	Receptacle, Crimp on			·
6	10538-01	Cable Tie		305064-01	Bracket Assembly,
7	10752-01	Anchor, Cable Tie			PCB Support, Lg
8	305070-02	PCB Connector Assembly		305065-01	Bracket Assembly.
		(Note 2)			PCB Support, Sm
9	70829-06	Screw, 8-32 X .375 T.F. P.H.		10023-10	Resistor, 1K Ohm 1/4W 5%
10	305072-01	Shield			(R1, R2)
				10160	Diode, 1N4454 (CR1, CR2)
				10367	Transistor 2N3904 (Q1)
				22819	Tab, 187 Series (T1-T5)
Notes:				70029-03	Screw, 4-40 X .187 P.H.
110163.				10020 00	(To mount brackets)
(1)	Itoms 1 then	5 are available as an assembly:			(10 mount brackets)
(1)	305066-01	o are available as an assembly:			

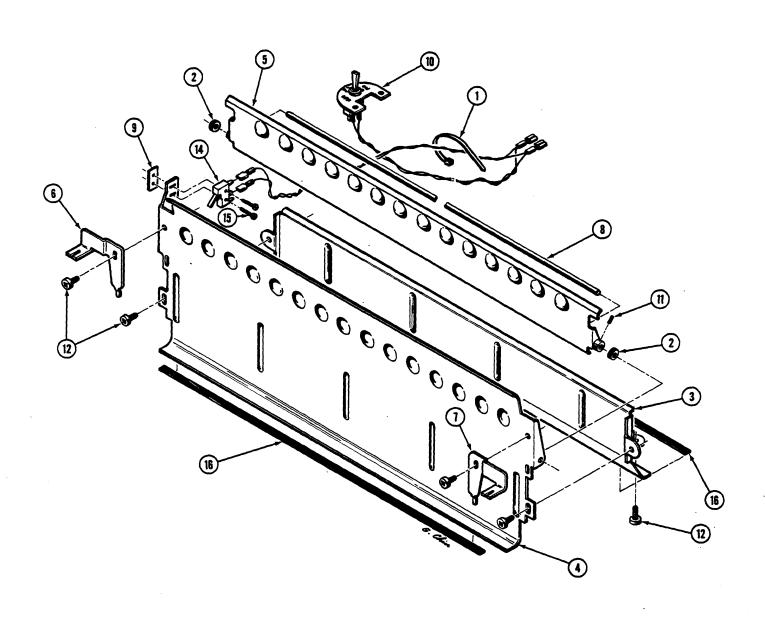


Figure 4-6 40565-01 PAPER CHUTE ASSEMBLY

40565-01 PAPER CHUTE ASSEMBLY

<u>ITEM</u>	PART NO.	DESCRIPTION
1	10538-01	Cable Tie
2	20218	Oil Washer
3	24381	Paper Chute, Rear
4	24382-01	Paper Chute, Front
5	24385-01	Bail Assembly
6	24386	Mounting Bracket, Left
7	24387	Mounting Bracket, Right
8	24389	Shaft
9	24397	Nut Plate, #2-56
10	40804	Switch and Harness Assembly
11	70292-03	Setscrew, 4-40 X .187 Cup Point
12	70829-04	Screw, 8-32 X .250 P.H.
13		Not Used
14	24436-02	Switch
15	70027-08	Screw, 2-56 X .500 P.H.
16	40551-03	Damping Material

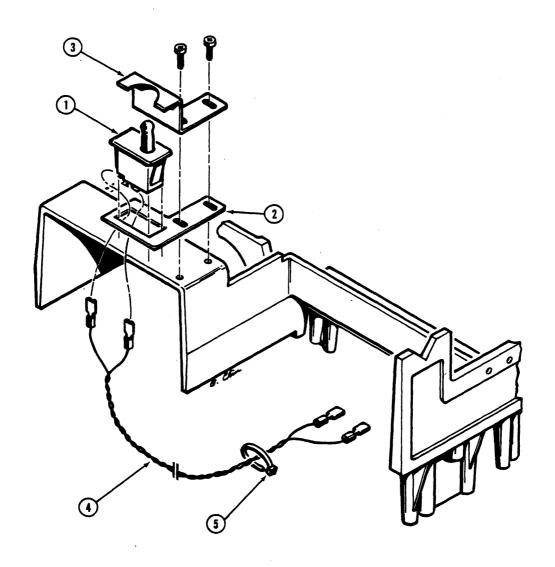


Figure 4-7 40504-03 COVER OPEN INTERLOCK SWITCH ASSEMBLY

40504-03 COVER OPEN INTERLOCK SWITCH ASSEMBLY

<u>ITEM</u>	PART NO.	DESCRIPTION
1	10961	Switch
2	23866	Bracket, Switch Mounting
3	23854	Guard, Switch
4	40503-01	Switch Harness Assembly
5	10538-01	Cable Tie

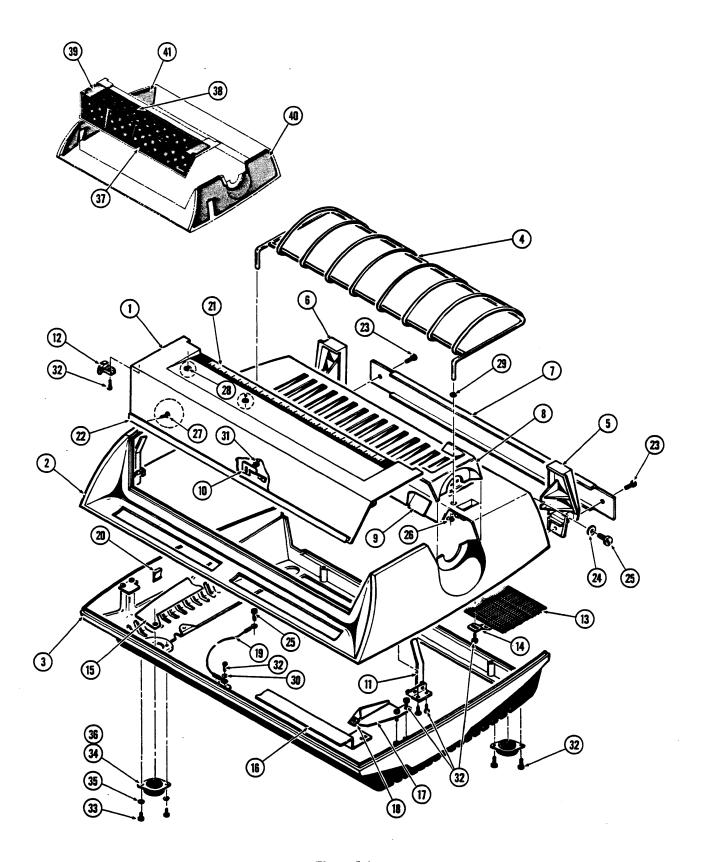


Figure 5-1 400761-XX COVER SET ASSEMBLY, RO, METAL

400761-XX COVER SET ASSEMBLY, RO, METAL (see notes)

<u>ITEM</u>	PART NO.	DESCRIPTION			
1	400579-01	Access Cover, Black	Notes:		
	400579-02	Access Cover,			
		Very Light Warm Gray	(1)	Cover Sets,	RO, Metal:
2	400578-01	Top Cover, Black-for		100501 51	
	400550 00	Control Panel		400761-51	Black, for Control Panel
	400578-02	Top Cover,		400761-52	Very Light Warm Gray,
		Very Light Warm Gray—for Control Panel		400761-71	for Control Panel Black, no Control Panel
	400578-21	Top Cover, Black—w/o		400761-72	Very Light Warm Gray,
	100010 21	Control Panel		100101 12	no Control Panel
	400578-22	Top Cover,			
		Very Light Warm Gray—w/o			
		Control Panel			
3	400577-01	Bottom Cover			
4	301864-01	Rack, Cover			
5	24474-01	Cover, Right Rear			
6 7	24474-02	Cover, Left Rear			
8	24472 24415-01	Cover Strip, Rear Skirt, Right, Black			
Ū	23847-02	Skirt, Right, Very Light Warm Gray			
	24416-01	Skirt, Left, Black			
	23848-02	Skirt, Left, Very Light Warm Gray			
9	22904-01	Paper Index Assembly			
10	400566-01	Actuator, Switch			
11	46042-01	Latch Assembly, Right			
10	46042-02	Latch Assembly, Left			
12	40844-02	Catch, Access Cover			
13 14	26119-01 23976-01	Screen, Top Clip, Screen Mounting			
15	400206-01	Barrier, Side			
16	23966-01	Barrier, Front			
17	301855-01	Bracket, Control Panel, Left			
	301855-02	Bracket, Control Panel, Right			
18	70702-24	"U" Nut			
19	23831-17	Ground Strap			
20 21	10924	Cable Clamp			
22	22932-01 20780-01	Scale, Proportional Lip, Access Cover			
23	70805-02	Screw, 4-20 X .375 T.F.			
24	70179-08	Washer, #8 Flat		•	
25	70829-06	Screw, 8-32 X .375 Tx Dr			
26	70413-03	Speed Nut			
27	70029-05	Screw, 4-40 X .312 P.H.			
28	70413-02	Speed Nut			
29 30	100392-01 70737-06	Washer, Flat Trim Lockwasher, #6 External Tooth			
30 31	70029-06	Screw, 4-40 X .375 P.H.			
32	70828-04	Screw, 6-32 X .250 Tx Dr			
33	70828-06	Screw, 6-32 X .375 Tx Dr			
34	20571-02	Shock Mount			
35	70701-06	Kepnut, 6-32			
36	70829-12	Screw, 8-32 X .750 Tx Dr			
37	304004-01	Damping, Access Cover			
38 39	304005-01	Damping, Access Cover			
39 40	304006-01 304010-01	Soundfoam, Access Cover Soundfoam, Top Right Side			
41	304010-01	Soundfoam, Top Left Side			

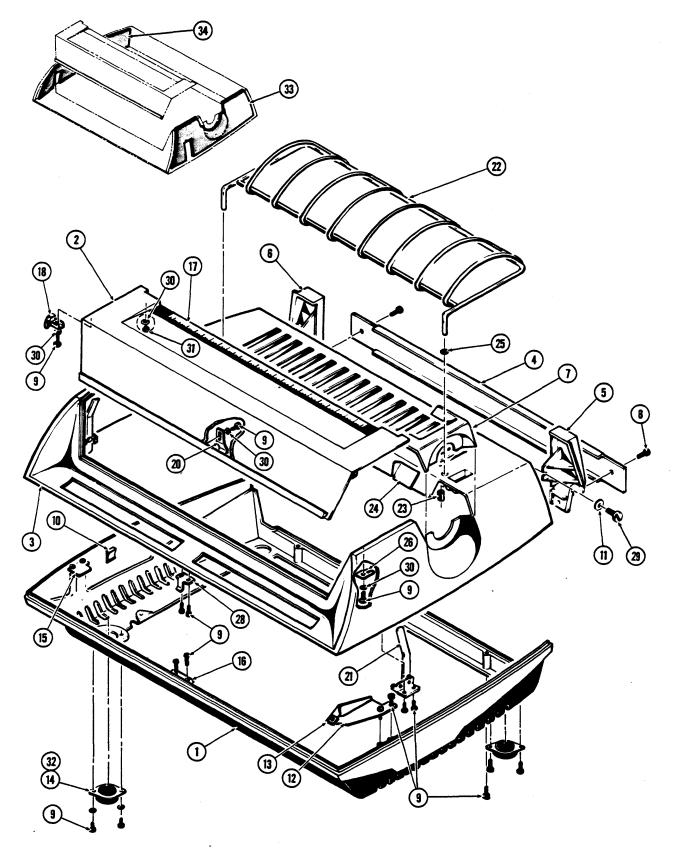


Figure 5-2 320015-XX COVER SET ASSEMBLY, RO, PLASTIC

320015-XX COVER SET ASEMBLY, RO, PLASTIC (see notes)

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	400577-51	Bottom Cover, Black—for	28	22674	Clip, Top Cover (Note 3)
	400577-52	Control Panel Bottom Cover,	29 30	70829-06 70853	Screw, 8-32 X .375 Tx Dr/T.F. Washer, #6 Flat
	400311-32	Very Light Warm Gray—for	31	70828-05	Screw, 6-32 X .312 Tx Dr/T.F.
		Control Panel	32	70829-14	Screw, 8-32 X .875 Tx Dr/T.F.
	301947-02	Bottom Cover, Black-w/o	33	304010-01	Soundfoam, Top Right Side
		Control Panel	34	304010-02	Soundfoam, Top Left Side
2	320009-01	Access Cover, Black-for			· -
		Control Panel			
	320009-02	Access Cover,			
		Very Light Warm Gray—for	Notes	•	
	301959-02	Control Panel Access Cover, Black—w/o	(1)	Cover Sets, F	O Plestia
	301333-02	Control Panel	(1)	Cover sets, r	to, riastic:
	301959-04	Access Cover,		320015-01	Black, for Control Panel
		Very Light Warm Gray-w/o		320015-02	Very Light Warm Gray,
		Control Panel			for Control Panel
3	320014-01	Top Cover, Black-for		320015-21	Black, no Control Panel
		Control Panel		320015-22	Very Light Warm Gray,
	320014-02	Top Cover,			no Control Panel
		Very Light Warm Gray —for Control Panel	(2)	Head on 2200	15-01, -02 assemblies only.
	301946-01	Top Cover,	(2)	Osed Oil 3200	13-01, -02 assembles only.
	001010 01	Very Light Warm Gray	(3)	Used on 3200	15-21, -22 assemblies only.
		-w/o Control Panel			,
	301946-02	Top Cover, Black-w/o			
		Control Panel			
4	320069-01	Cover Strip, Rear			
5	24474-01	Cover, Rear, Right			
6 7	24474-02 24415-01	Cover, Rear, Left			
•	23847-02	Skirt, Right, Black Skirt, Right,			
	20011 02	Very Light Warm Gray			
	24416-01	Skirt, Left, Black			
	23848-02	Skirt, Left,			
_		Very Light Warm Gray			
8	70805-02	Screw, 4-20 X .375 T.F.			
9	70828-04	Screw, 6-32 X .250 Tx Dr/T.F.			
10 11	10924 70179-08	Cable Clamp Washer, #8 Flat			
12	301855-01	Bracket, Control Panel, Left			
	001000 01	(Note 2)			
	301855-02	Bracket, Control Panel, Right			
		(Note 2)			
13	70702-24	"U" Nut (Note 2)			
14	20571-03	Shock Mount			
15 1 6	20667 22675	Latch, Stop (Note 3) Plate, Bottom Cover (Note 3)			
17	22932-01	Scale, Proportional			
18	40844-03	Catch, Access Cover			
19		Not Used			
20	320036-01	Actuator, Cover Open Switch (Note 2)			
	400217-01	Actuator, Cover Open Switch (Note 3)			
21	46042-01	Latch Assembly, Right			
00	46042-02	Latch Assembly, Left			
22 23	301864-01 100183-01	Rack, Cover (Note 2) Tip, Vinyl (Note 2)			
23 24	22904-01	Paper Index Assembly			
25	100392-01	Washer, Flat Trim (Note 2)			
26	301945-01	Striker Plate			
27		Not Used			

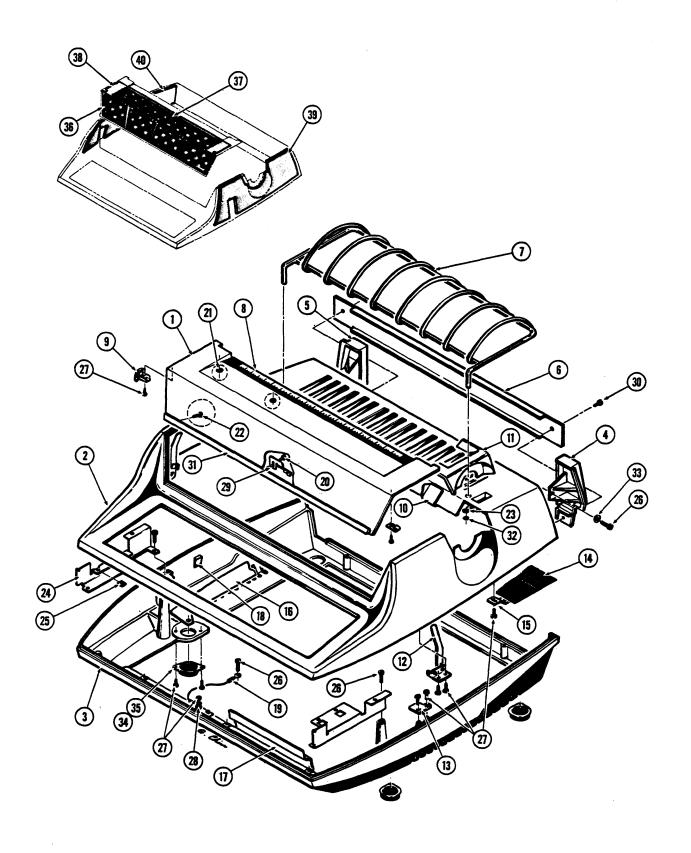


Figure 5-3 400762-XX COVER SET ASSEMBLY, KSR, METAL

400762-XX COVER SET ASSEMBLY, KSR, METAL (see notes)

<u>ITEM</u>	PART NO.	DESCRIPTION			
1	400579-01	Access Cover Assembly, Black	Notes:		
	400579-02	Access Cover Assembly,			
		Very Light Warm Gray	(1)	Cover Sets,	KSR, Metal:
2	400593-01	Top Cover Assembly, Black-for			
		Control Panel		400762-51	Black, for Control Panel
	400593-02	Top Cover Assembly, Very Light		400762-52	Very Light Warm Gray, for
_		Warm Gray-for Control Panel			Control Panel
3	400592-01	Bottom Cover Assembly			
4	24474-01	Rear Cover, Right			
5	24474-02	Rear Cover, Left			
6	24472	Cover Strip, Rear			
7 8	301864-01	Rack, Cover			
9	22932-01 40944-02	Scale, Porportional			
1 0	40844-02 22904-01	Catch, Access Cover Paper Index Assembly			
11	24415-01	Skirt, Right, Black			
11	23847-02	Skirt, Right, Very Light Warm Gray			
	24416-01	Skirt, Left, Black			•
	23848-02	Skirt, Left, Very Light Warm Gray			
12	46042-01	Latch Assembly, Right			
	46042-02	Latch Assembly, Left			
13	20667	Latch, Stop			
14	26119 - 01	Screen, Top			
15	23976-01	Clip, Screen Mounting			
16	400206-01	Barrier, Side			
17	23965-01	Barrier, Front			
18	10924	Cable Clamp			
19	23831-17	Ground Strap			
20	70029-06	Screw, 4-40 X .375			
21	70413-02	Speed Nut			
22	70029-05	Screw, 4-40 X .312 P.H.			
23 24	70413-03 400594-01	Speed Nut Bracket, Keyboard, Left			4
44	400595-01	Bracket, Keyboard, Right			•
25	70702-24	"U" Nut			
26	70829-06	Screw, 8-32 X .375 Tx Dr			
27	70828-04	Screw, 6-32 X .250 Tx Dr			
28	70737-06	Lockwasher, #6, External Tooth			
29	400566-01	Actuator, Switch			
30	70805-02	Screw, 4-20 X .375 T.F.			
31	20780-01	Lip, Access Cover			
32	100392-01	Washer, Flat Trim			
33	70179-08	Washer, #8 Flat			
34	70829-12	Screw, 8-32 X .750 Tx Dr			
35	20571-02	Shock Mount			
36 37	304004-01	Damping, Access Cover			
37	304005-01	Damping, Access Cover			
38 20	304006-01	Soundfoam, Access Cover			
39 40	304010-01 304010-02	Soundfoam, Top Right Side Soundfoam, Top Left Side			
70	JU-1010-02	pomiorogiii, tob nett pine			

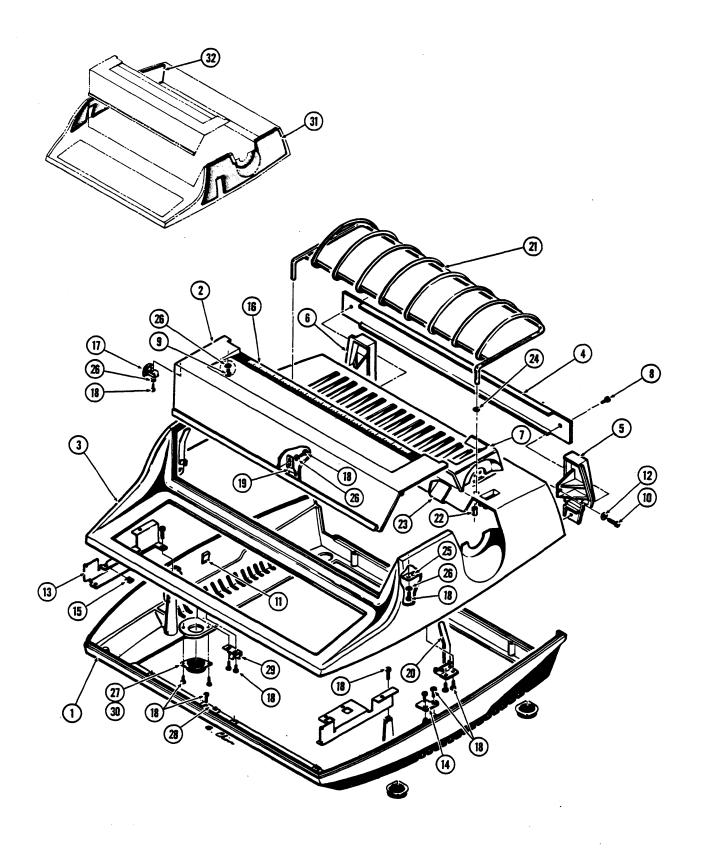


Figure 5-4
320010-XX COVER SET ASSEMBLY, KSR, PLASTIC

320010-XX COVER SET ASSEMBLY, KSR, PLASTIC (see notes)

ITEM	PART NO.	DESCRIPTION
1	400592-51	Bottom Cover, Black
_	400592-52	Bottom Cover, Very Light Warm Gray
2	320009-01	Access Cover, Black
_	320009-02	Access Cover, Very Light Warm Gray
3	320013-01	Top Cover, Black
	320013-02	Top Cover, Very Light Warm Gray
4	320069-01	Cover Strip, Rear
5	24474-01	Cover, Rear, Right
6	24474-02	Cover, Rear, Left
7	24415-01	Skirt, Right, Black
	23847-02	Skirt, Right, Very Light Warm Gray
	24416-01	Skirt, Left, Black
	23848-02	Skirt, Left, Very Light Warm Gray
8	70805-02	Screw, 4-20 X .375 T.F.
9	70828-05	Screw, 6-32 X .312 Tx Dr
10	70829-06	Screw, 8-32 X .375 Tx Dr
11	10924	Cable Clamp
12	70179-08	Washer, #8 Flat
13	400594-01	Bracket, Keyboard, Left
	400595-01	Bracket, Keyboard, Right
14	20667	Latch, Stop
15	70702-24	"U" Nut
16	22932-01	Scale, Proportional
17	40844-03	Catch, Access Cover
18	70828-04	Screw, 6-32 X .250 Tx Dr
19	320036-01	Actuator, Switch
20	46042-01	Latch Assembly, Right
	46042-02	Latch Assembly, Left
21	301864-01	Rack, Cover
22	100183-01	Tip, Vinyl
23	22904-01	Paper Index Assembly
24	100392-01	Washer, Flat Trim
25	301945-01	Striker Plate
26	70853	Washer, #6 Flat
27	20571-03	Shock Mount
28	22675	Plate, Bottom Cover
29	320072-01	Clip, Top Cover
30	70829-14	Screw, 8-32 X .875 Tx Dr
31	304010-01	Soundfoam, Top, Right
32	304010-02	Soundfoam, Top, Left

Notes:

(1) Cover Sets, KSR, Plastic:

320010-01 320010-02 Black Very Light Warm Gray

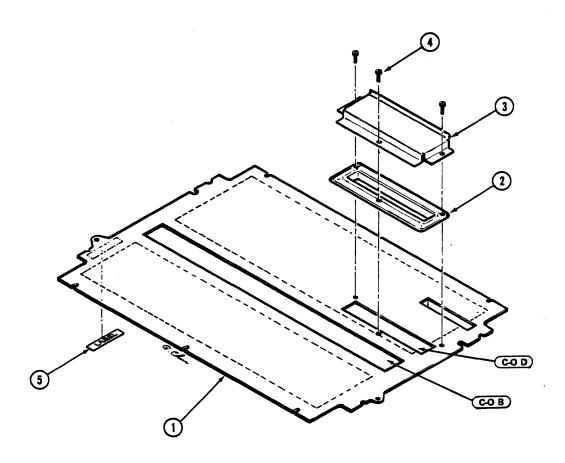


Figure 5-5 301582-XX BOTTOM PAN ASSEMBLY-SHORT

301582-XX BOTTOM PAN ASSEMBLY—SHORT (see notes)

ITEM	PART NO.	DESCRIPTION
1	24391-07	Bottom Pan, Short C-O D (Note 2)
	24391-08	Bottom Pan, Short C-O B,D (Note 3)
2	46086	Grommet, Cable
3	46088	Hood, Cable
4	70112-04	Screw, 6-32 X .250 P.H.
5	301580-27	Label (Note 2)
	301580-28	Label (Note 3)

Notes:

(1) Bottom	Pan	Assemblies-Short
------------	-----	------------------

301582-07 Standard 301582-08 Bottom Feed

- (2) Used on 301582-07 only.
- (3) Used on 301582-08 only.

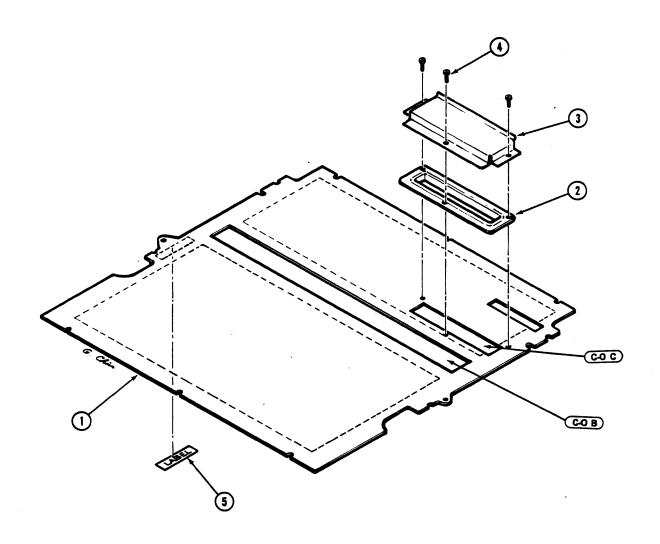


Figure 5-6 301584-XX BOTTOM PAN ASSEMBLY-LONG

301584-XX BOTTOM PAN ASSEMBLY-LONG (see notes)

<u>ITEM</u>	PART NO.	DESCRIPTION
1	24392-05	Bottom Pan, Long C-O C (Note 2)
	24392-06	Bottom Pan, Long C-O B,C (Note 3)
2	46086	Grommet, Cable
3	46088	Hood, Cable
4	70112-04	Screw, 6-32 X .250 P.H.
5	301580-65	Label (Note 2)
	301580-66	Label (Note 3)

Notes:

(1)	Bottom Pan	Assemblies—Long:
	301584-05	Standard
	301584-06	Bottom Feed

- (2) Used on 301584-05 only.
- (3) Used on 301586-06 only.

•		
·		
•		

APPENDIX "A"

OPTIONS AND ACCESSORIES

KEYBOARD OPTIONS 400773-XX

Part No.	Description
301873-51 400716-51 301873-52 400716-52	Typewriter Paired Keyboard (Preferred) Typewriter Paired Keyboard (Alternate) French AZERTY Keyboard (Preferred)
301873-54 400716-54	French AZERTY Keyboard (Alternate) Scandinavian Keyboard (Preferred) Scandinavian Keyboard (Alternate)
301873-55 400716-55 301873-56	Norsk Keyboard (Preferred) Norsk Keyboard (Alternate) German Keyboard (Preferred)
400716-56 301873-57 400716-57	German Keyboard (Alternate) APL Keyboard (Preferred) APL Keyboard (Alternate)
301873-58 400716-58	Logical Bit Paired Keyboard (Preferred) Logical Bit Paired Keyboard (Alternate)
301938-01 400555-02 400569-01	Keyboard Cable Assembly (Note 2) Keyboard Cable Assembly (Note 3) Keyboard Mask With Cutouts
400569-02 70691 70737-06	Keyboard Mask Without Cutouts Screw, 6-20 X .500 P.H. Lockwasher, #6 Ext Tooth

Notes:

(1) Keyboard Options:

400773-00 Ty	pewriter Paired Keyboard Option
400773-10 Fr	ench Azerty Keyboard Option
400773-20 No	orsk Keyboard Option
400773-30 Sc	andinavian Keyboard Option
400773-40 Ge	erman Keyboard Option
400773-50 Al	PL Keyboard Option
400773-60 Lo	gical Bit Paired Keyboard Option

Each Keyboard Option includes a keyboard, a cable assembly, necessary screws and lockwashers.

- (2) For use with 301873-XX Keyboards.
- (3) For use with 400716-xx Keyboards.

PUBLICATIONS

Part No.	<u>Description</u>
90405-XX	Series 1650 Operators Guide
90415-XX	Series 1640 Operators Guide
90412-XX	Product Description, Series 1640/1650
90413-XX	Maintenance Manual, Series 1640/1650
90007-XX	Printer Supplies Catalog
90420-XX	HyFeed Sheet Feeder Operation and Maintenance Manual
90421-XX	Mechanical Front Feed Operation and Maintenance Manual
90422-XX	Auto Front Feed Operation and Maintenance Manual

SERVICE AIDS

Part No.	Description
23744-15	Extension Cable (E.L.A.) 15 Ft.
46095-02	Extender Card
400625-02	Touch-up Lacquer, Very Light Warm Gray
400625-04	Touch-up Lacquer, Warm Black

PAPER HANDLING

Part No.	Description
305028-01	HyFeed Sheet Feeder (Note 1)
305026-01	Mechanical Front Feed (Note 1)
26033-01	Pedestal Mount
26068-01	Paper Rack
305027-XX	Auto Front Feed (Note 1)
305037-02	Bidirectional Tractor (Note 2)

Notes:

- (1) See your Diablo Sales Representative for information on feeders.
- (2) Used in conjunction with the Auto Front Feed.

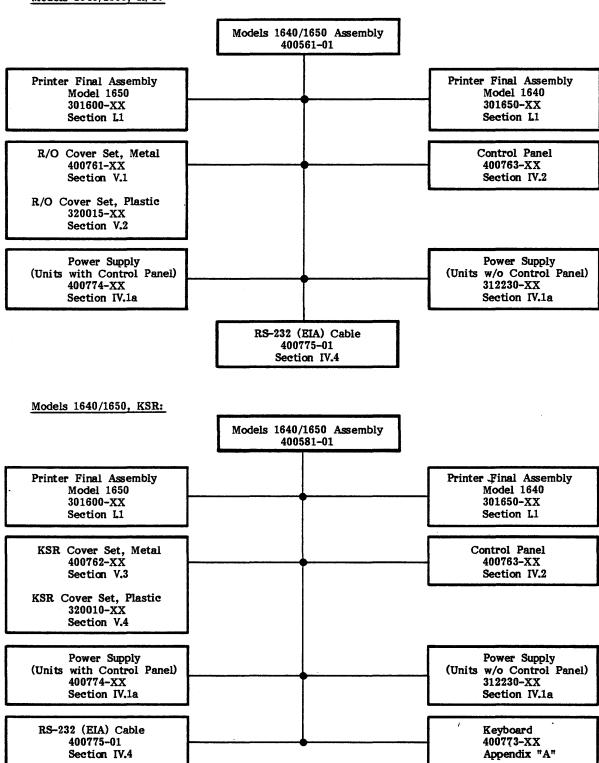
APPENDIX "B" FINAL ASSEMBLY CONFIGURATIONS

-	1355WP No HPRO4	1355WPP Parallel	1355WPS Serial/Parallel	1345A No HPRO4	1345P Parallel	1345S Serial/Parallel
Model 1650						
301600-01			X			
301600-02		Х				
301600-03	x					
Model 1640						
301650-01						х
301650-02					x	
301650-03				X		

APPENDIX "C"

1640/1650 TERMINALS GUIDE CHART

Models 1640/1650, R/O:



APPENDIX "D"

320160-XX PIN FEED PLATEN ASSEMBLIES

PAPER WIDTH				
ASSEMBLY NO.	(inches)	CORE NO.		
320160-01	6.000	22487-01		
320160-02	8.000	22487-02		
320160-03	8.500	′ 22487–03		
320160-04	9.000	22487-04		
320160-05	9.875	22487-05		
320160-06	10.625	22487-06		
320160-07	12.844	22487-07		
320160-08	13.625	22487-08		
320160-09	14.875	22487-09		
320160-10	15.000	22487-10		
320160-12	5.812	22487-12		
320160-13	9.500	22487-13		
320160-14	10.375	22487-14		
320160-15	14.949	22487-15		
320160-16	5.750	22487-16		
320160-17	6.500	22487-17		
320160-18	10.500	22487-18		
320160-19	11.750	22487-19		
320160-20	12.000	22487-20		
320160-21	13.000	22487-21		
320160-22	14.500	22487-22		
320160-23	10.000	22487-23		
320160-24	4.750	22487-24		
320160-25	15.250	22487-25		
320160-26	7.250	22487-26		
320160-27	4.000	22487-27		
320160-33	8.500	22487-03		
320160-35	9.875	22487-05		

			·	
	·			

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)		
	DIODES			MISCELLANEOUS			
10160	1 N4454	B17,B42,B50	22753	Jumper Module	G23,D33		
		B52,B56,C15 C39,C40,C50	10626-00	Switch, Toggle	A36,A67		
		C51,F40,F41 G36,G37,G38 G39,G65,G66 H47,H53	24376-02	Heat Sink	(Mounted to PCB)		
10369	1N4002	D45,D61,E45 E55,E61,G61 G62	70373-10	Standoff	(Between Heat Sink and PCB)		
13009-31	5.1V Zener, 1N5231B	F69,F70,F72	70111-07	Screw, 4-40 X .4375	(To mount Heat Sink)		
10000	012. 201101, 21102022	F73,H16,H31	70111-04	Screw, 4-40 X .250	(Transistor		
13054	1N5415	E10,E11,E26 E27	10111 04	belew, THO A .200	mounting		
10103-02	6.2V Zener	C37	70813	Insulator	(Transistor mount screws)		
10100 02		33.	70812	Insulator	(Between		
	TRANSISTORS				transistor and Heat Sink)		
13070	PN3644	C44,D5,D21 D43,D50,D58 D64,E35,G67 H18,H35,H50 H67		ermal compound #10549 req ver transistors, insulators ar			
13013	2N4401	C4,C19,C65 E58,F16,F32 F45,F48,F64 G47,H61	.	power translators, insulators and freat on			
10444-01	2N5322	E6,E22					
10443-01	2N5320	E14,E30,H59					
10445-01	2N6103	C10,C26,G10 G26					
13007	TIP125	C73					
	LC.'s						
10165	72747	A45,E74					
10166	748	A19,A31		,			
10168	319	A64					
100300-01	Resistor Network, 10K	A50,A51					

SECTION IL9
400568-01 H4CPN PCB ASSEMBLY

PART NO.	DESCRIPTION	LOCATION(S)	PART NO.	DESCRIPTION	LOCATION(S)
	RESISTORS			MISCELLANEOUS	
10022-15	150 Ohm 1/4W 5%	R1,R2,R3,R4	42503-01	Buzzer	DS1
	R5,R6,R7,I R9,R10,R1: R13		70027-05	Screw, 2-56 X .312 P.H.	DS1
10224-10	Pot., 1K 1/2W 10%	R12	70168-02	Lockwasher, #2	DS1
	CARACITIONS		100065-03	Switch, 4 X SPDT	S1,S2,S3
	CAPACITORS		42501-10	Switch, SPDT	S8,S9,S10
10038-01	.1uF 50V	C2,C3,C4,C5 C6,C7,C8			S11
10410-22	22uF 15V	C1	42502-10	Switch SPDT, Momentary	S4,S5,S6,S7
10077-22	22uF 35V	C9	14022-03	Spacer	CR1,CR2,CR3 CR4,CR5,CR6
	DIODES				CR7,CR8,CR9 CR10,CR11
10160	1N4454	CR12			CR13
14005-01	L.E.D. Red	CR1,CR2,CR3 CR4,CR5,CR6 CR7,CR8,CR9 CR10,CR13	70166-02	Nut, 2-56	D S 1
42222-01	L.E.D. Green	CR11			
	LC.'s				
10209-01	74LS04	U3			
10390	7416	U1,U4			
100228-01	74LS139	U2			
42412-01	74LS244	U6			
42407-03	8255A	U5			
10761	Resistor Network, 1K	U7,U8			