

SERIES 1640/1650
PRINTERS AND TERMINALS
PARTS CATALOG

90414-02 Rev A

November, 1980

DIABLO SYSTEMS, INC.
A XEROX Company

PREFACE

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.

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

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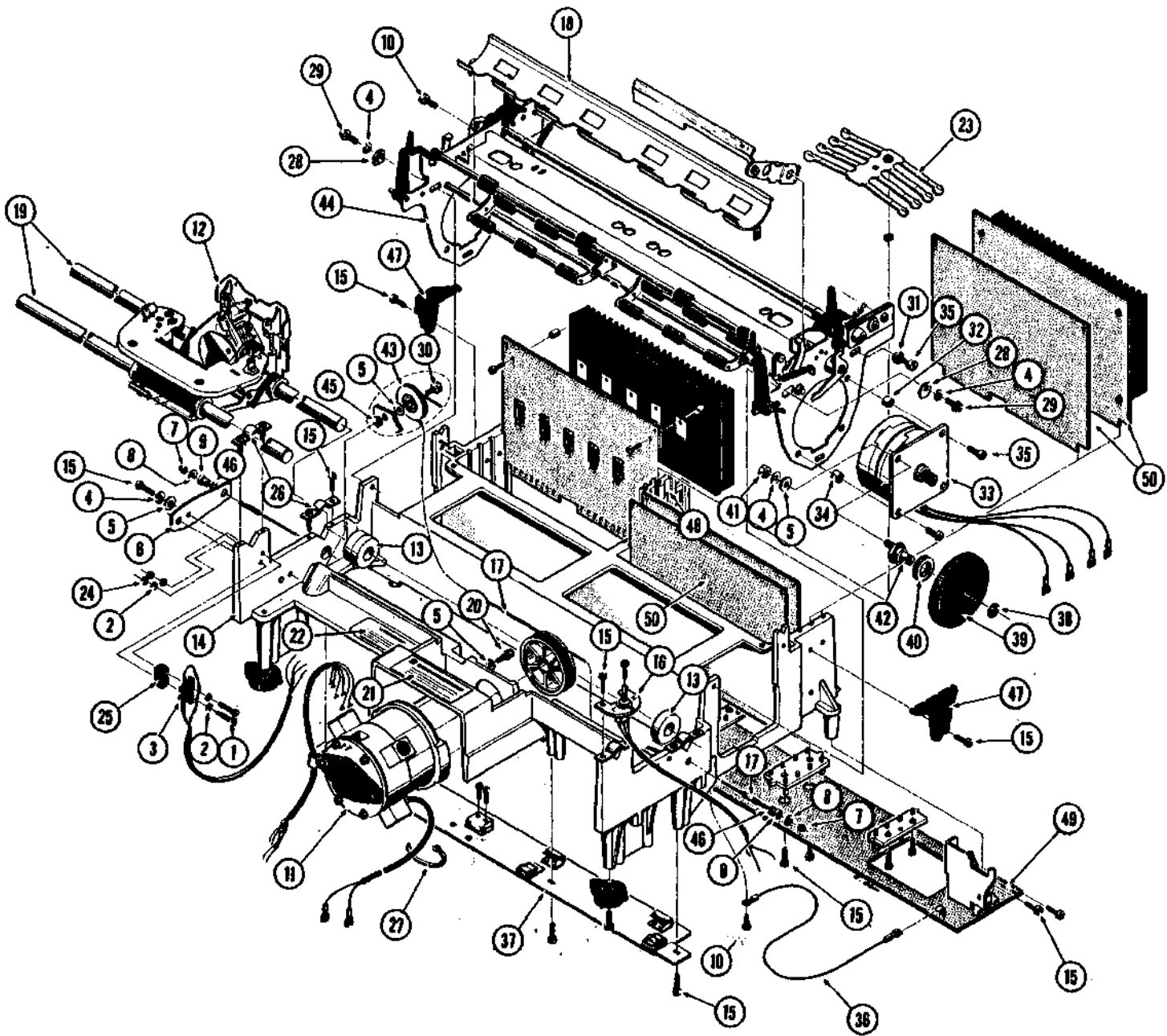


Figure-1-1
301600-XX/301650-XX FINAL ASSEMBLY

1-0

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SECTION L1

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

| ITEM | PART NO. | DESCRIPTION | |
|------|-----------|--|--|
| 1 | 70029-18 | Screw, 4-40 X 1.125 P.H. | Notes: |
| 2 | 70179-04 | Washer, #4 Flat | |
| 3 | 24304-02 | Harness Assembly, Carriage Home | (1) Final Assemblies: |
| 4 | 70168-08 | Lockwasher, #8 | See Appendix "B" |
| 5 | 70169-08 | Washer, #8 Flat | |
| 6 | 24322 | Leaf Spring | (2) For 1640/1650 Terminal Configurations only, see Appendix "C" Guide Chart. |
| 7 | 70852-05 | Locknut, 5-40 | |
| 8 | 70425-08 | Lockwasher, #8 | |
| 9 | 24145-01 | Hub, Cable | (3) Used on Model 1640 only. |
| 10 | 70829-04 | Screw, 8-32 X .250 T.F. P.H. | |
| 11 | 40715-02 | Motor Assembly, Carriage (Note 5) | (4) Used on Model 1650 only. |
| 12 | 40750-24 | Carriage Assembly (Note 3) (see Section L3) | (5) The only replaceable parts of the Carriage Motor Assembly are: |
| | 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 | 70829-08 | Screw, 8-32 X .375 T.F. P.H. | |
| 16 | 24464-00 | Switch and Harness Assembly | |
| 17 | 24143-01 | 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 | 24045 | Eccentric, Platen Position | |
| 29 | 70316-03 | Screw, 8-32 X .500 T.F. H. Hex Hd. | |
| 30 | 24055 | 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 | 20452 | Gear, 85 Tooth Spur | |
| 40 | 20599 | Oil Washer | |
| 41 | 70166-08 | 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) (see Section II) | |
| 50 | _____ | PCB Assemblies (see Section II) | |

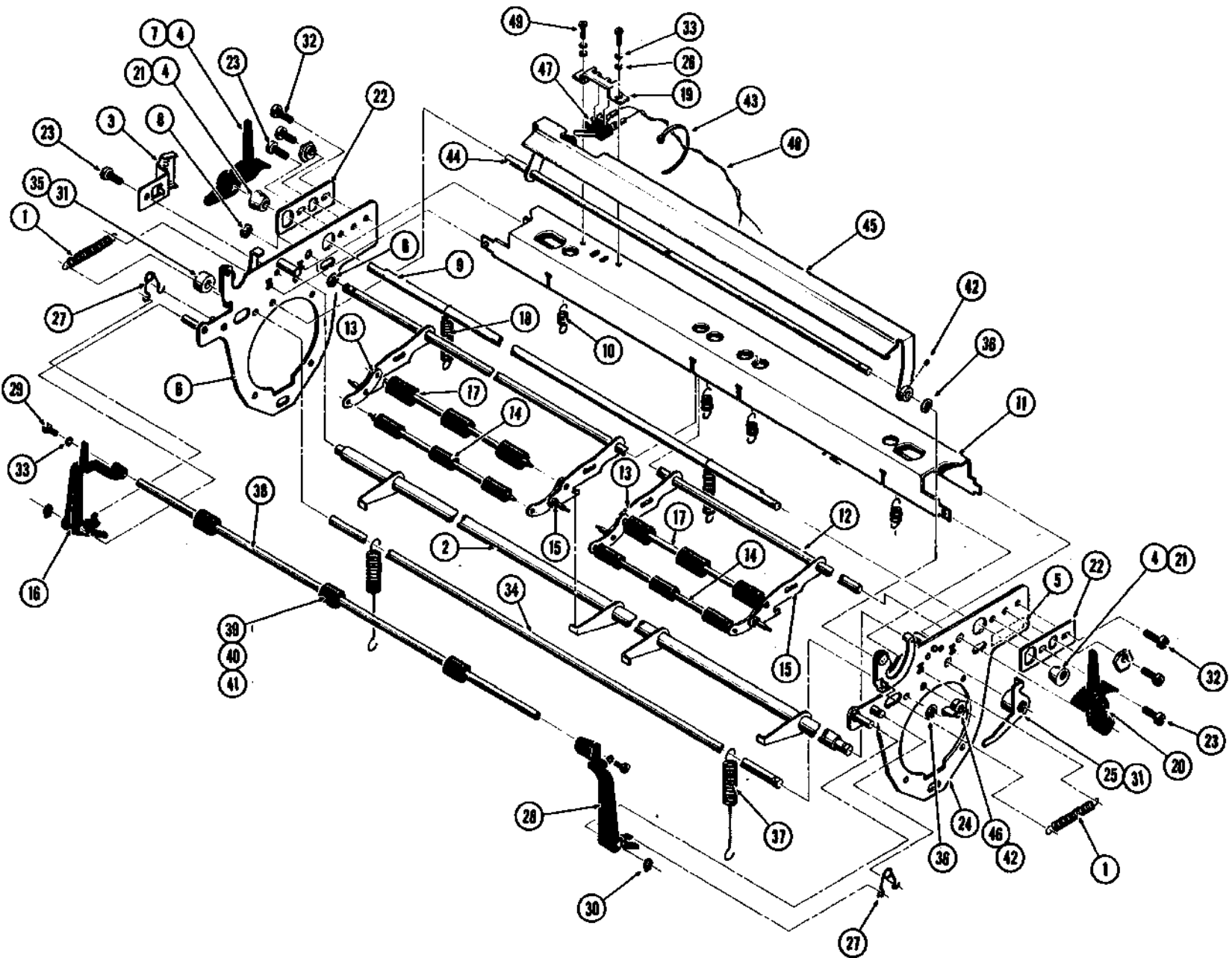


Figure 1-2
24050-04 CARRIER ASSEMBLY

1-2

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SECTION L2
24050-04 CARRIER ASSEMBLY

| ITEM | 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 | 301897-01 | Bail Assembly |
| 46 | 24404-02 | Lever Assembly |
| 47 | 24436-04 | Switch |
| 48 | 24429 | Harness Assembly |
| 49 | 70827-06 | Screw, 4-40 X .375 P.H. |

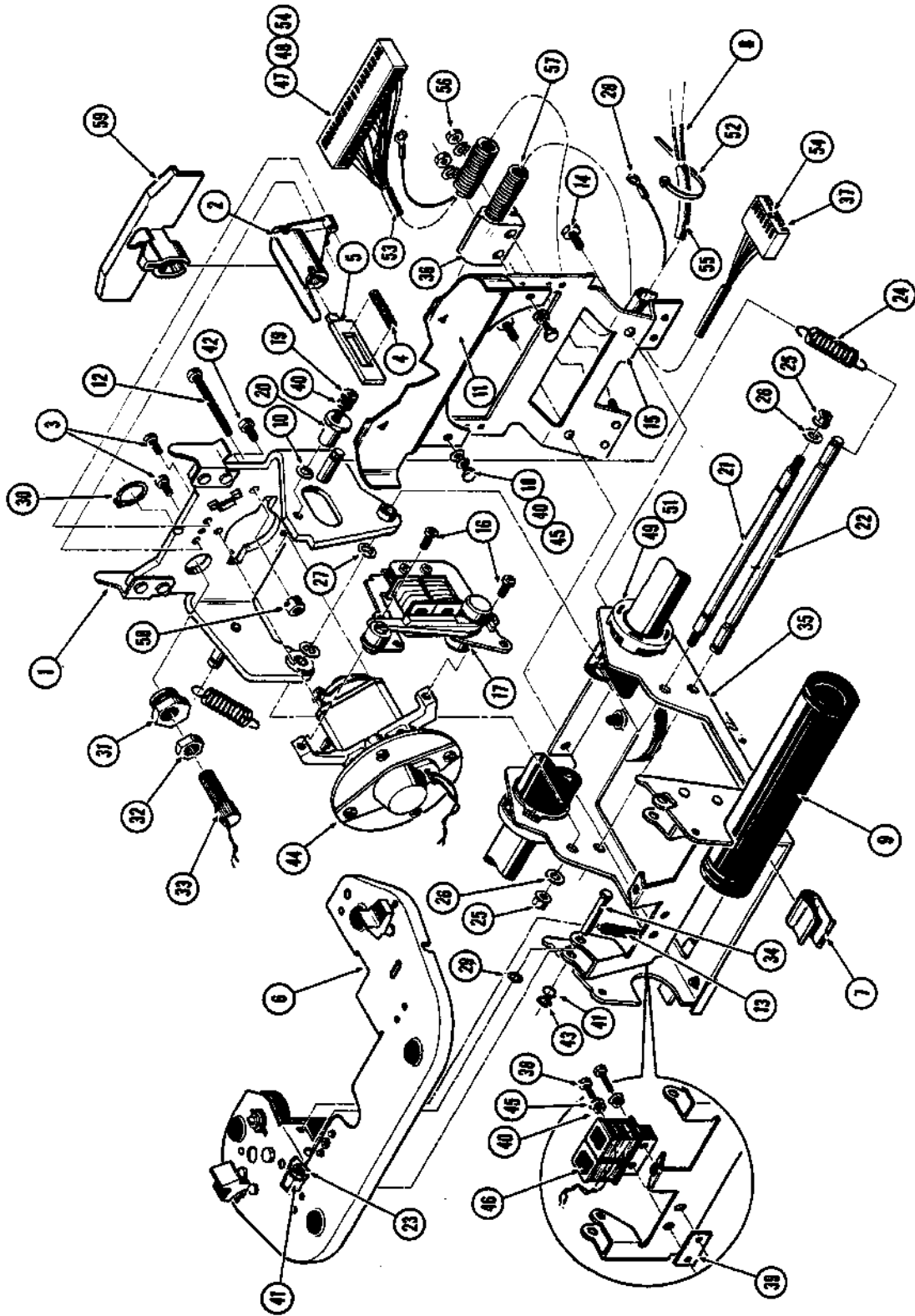


Figure 1-3
40750-24 CARRIAGE ASSEMBLY—MODEL 1640 PRINTERS

SECTION L3

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 | 22900-02 | Hammer | | | |
| 6 | 40695-02 | Ribbon Base Plate Assembly (see Section L5) | | | |
| 7 | 40684-01 | Spring | | | |
| 8 | 10567-13 | Shrink, Tubing | | | |
| 9 | 320241-01 | Case Assembly, Bearing | (1) | | The only replaceable parts of the Print Wheel Motor Assembly are: |
| 10 | 70179-05 | Washer, #5 Flat | | | |
| 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. | (2) | | This subassembly includes items 1,3,10,19,20, 30,31,32,33,40, and 61. |
| 15 | 40694-03 | Bracket Assembly, Card Guide | | | |
| 16 | 70827-04 | Screw, 4-40 X .250 T.F. P.H. | (3) | | This subassembly includes items 2,4, and 5. |
| 17 | 24205-04 | Armature Assembly, Hammer | | | |
| 18 | 100447-02 | Screw, 4-40 X .187 Hex Hd. | | | |
| 19 | 70075-10 | Screw, 4-40 X .625 Skt Hd. Cap. | | | |
| 20 | 46054 | Eccentric | | | |
| 21 | 24377 | Shaft, Motor Pivot | | | |
| 22 | 24105 | Shaft, Spring | | | |
| 23 | 40773 | Oil Washer | | | |
| 24 | 40562 | Spring | | | |
| 25 | 70166-08 | Nut, 6-32 Hex | | | |
| 26 | 301126-01 | Locknut, #6 | | | |
| 27 | 70170-04 | Retaining Ring | | | |
| 28 | 40529-02 | Strap, Ground | | | |
| 29 | 46004 | Washer, Nylon | | | |
| 30 | 70816-09 | Retaining Ring, Bowed | | | |
| 31 | 24092 | 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 | 70168-04 | Lockwasher, #4 | | | |
| 41 | 70349-01 | "O" Ring | | | |
| 42 | 70827-05 | 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 | | Not Used | | | |
| 51 | 24129 | Shaft Wiper | | | |
| 52 | 10538-01 | Cable Tie | | | |
| 53 | 301973-02 | Sleeve, Clear Vinyl | | | |
| 54 | 13019-42 | Key, Polarizing | | | |
| 55 | 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 | | | |

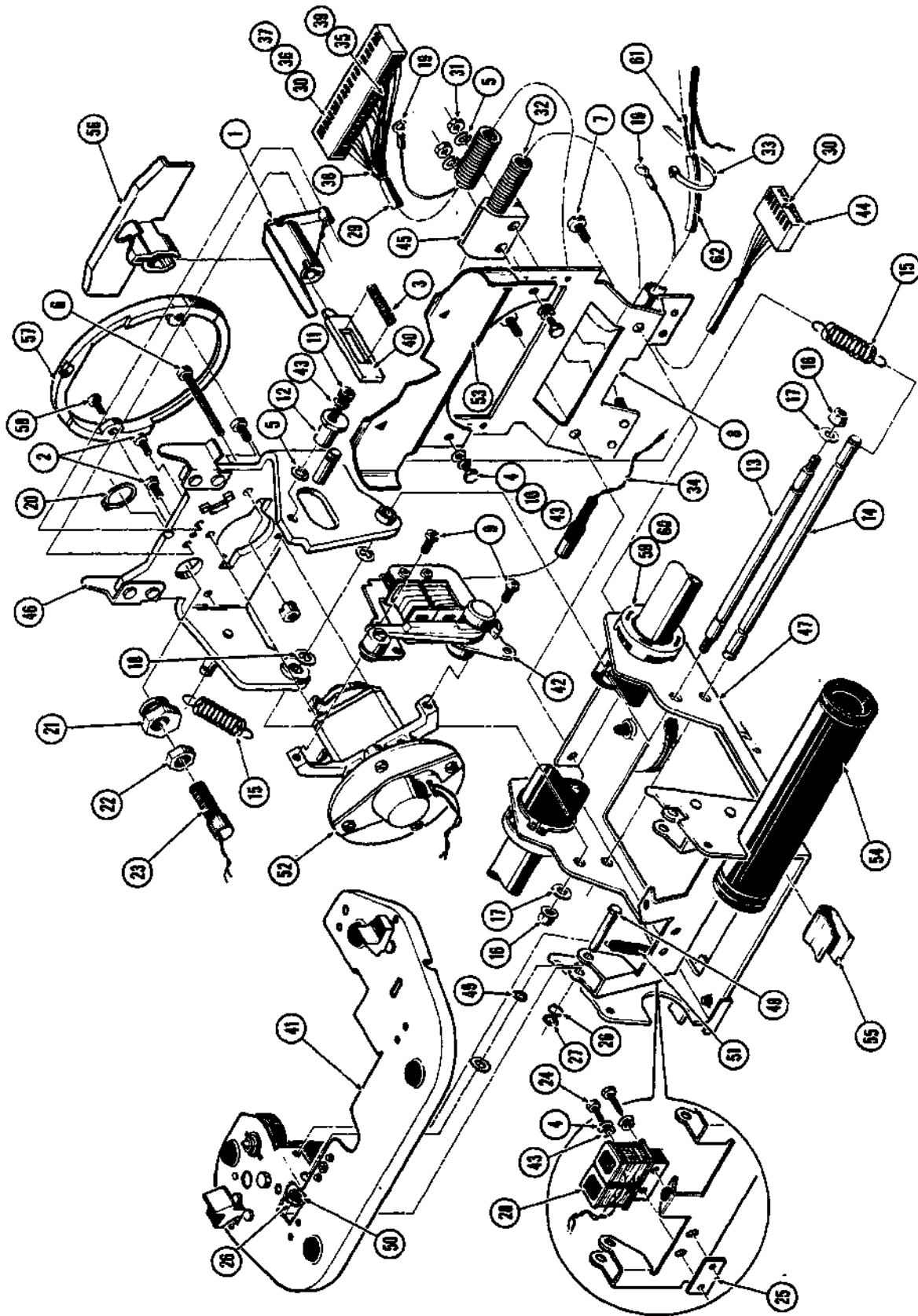


Figure 1-4
40750-32 CARRIAGE ASSEMBLY—MODEL 1650 PRINTERS

SECTION L4

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. P.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 (Note 2) (Not Shown Separately) |
| 8 | 40694-03 | Bracket Assembly, Card Guide | 64 | 301976-03 | Hammer Guide Subassembly (Note 3) (Not Shown Separately) |
| 9 | 70827-04 | Screw, 4-40 X .250 T.F. P.H. | | | |
| 10 | 100447-02 | Screw, 4-40 X .187 Hex Hd. | | | |
| 11 | 70075-10 | Screw, 4-40 X .625 Skt Hd. Cap. | | | |
| 12 | 46054 | Eccentric | | | |
| 13 | 24377 | Shaft, Motor Pivot | | | |
| 14 | 24105 | Shaft, Spring | | | |
| 15 | 40562 | Spring | | | |
| 16 | 70166-06 | Nut, 6-32 Hex | | | |
| 17 | 301126-01 | Locknut, #6 | | | |
| 18 | 70170-04 | Retaining Ring | | | |
| 19 | 40529-02 | Strap, Ground | | | |
| 20 | 70816-09 | Retaining Ring, Bowed | | | |
| 21 | 24092 | Eccentric | | | |
| 22 | 20597 | Nut, Hex | | | |
| 23 | 24426-02 | Pick-up, Magnetic | | | |
| 24 | 100447-03 | Screw, 4-40 X .4375 Hex Hd. | | | |
| 25 | 40713 | Nut Plate | | | |
| 26 | 70349-01 | "O" Ring | | | |
| 27 | 70227-01 | Grip Ring | | | |
| 28 | 301211-01 | Coil Assembly, Ribbon Lift | | | |
| 29 | 301973-03 | Sleeve, Clear Vinyl | | | |
| 30 | 13019-42 | Key, Polarizing | | | |
| 31 | 70166-66 | Nut, 8-32 Hex | | | |
| 32 | 40677 | Spring, Carriage Cable | | | |
| 33 | 10638-01 | 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 | 301418-01 | Print Wheel Shield | | | |

Notes:

- (1) The only replaceable parts of the Print Wheel Motor Assembly are:
- 40682-01 Brush/Spring Assembly
40894 Brush Retaining Screw
- (2) This subassembly includes items 2,5,11,12,20, 21,22,23,43,46,57,58, and 64.
- (3) This subassembly includes items 1,3, and 40.

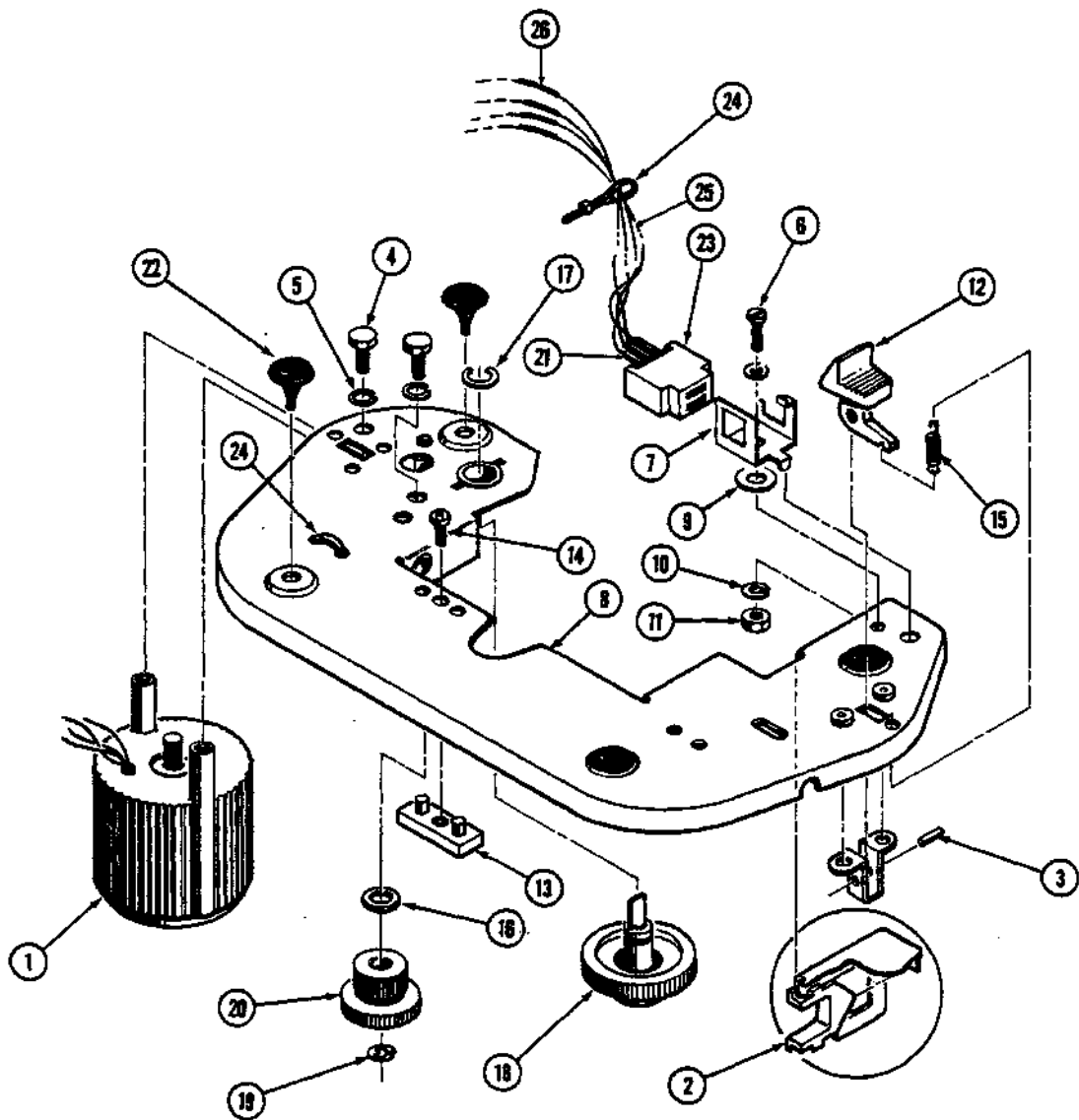


Figure 1-5
40695-XX RIBBON BASE PLATE ASSEMBLY

SECTION L5

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 | 70168-04 | Lockwasher, #4 |
| 6 | 70027-03 | Screw, 2-56 X .250 P.H. |
| 7 | 24335 | Clip, Limit Switch |
| 8 | 24111-03 | Base Plate Assembly |
| 9 | 70169-04 | Washer, #4 Flat |
| 10 | 70168-02 | Lockwasher, #2 |
| 11 | 70168-02 | 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) Ribbon Base Plate Assemblies:
- | | |
|----------|--------------------|
| 40695-02 | Used on Model 1640 |
| 40695-04 | Used on Model 1650 |
- (2) Used on 40695-02 only.
- (3) Used on 40695-04 only.

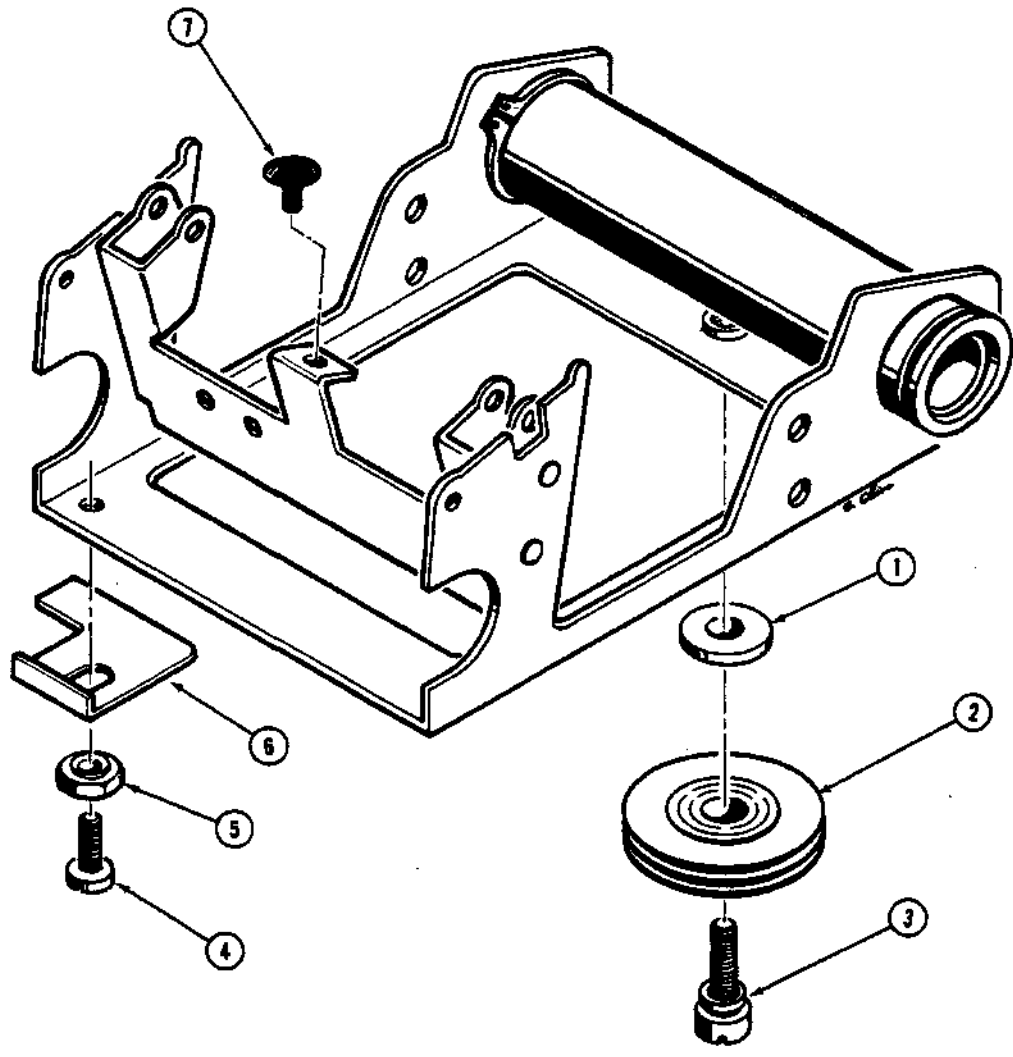


Figure 1-6
24410-03 CARRIAGE SUBASSEMBLY

SECTION L6

24410-03 CARRIAGE SUBASSEMBLY
(see notes)

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|-------------------------|
| 1 | 24264 | Spacer |
| 2 | 40876 | Pulley |
| 3 | 24055 | Shoulder Screw |
| 4 | 70828-06 | Screw, 6-32 X .375 P.H. |
| 5 | 24411 | Eccentric |
| 6 | 24319 | Plate, Home Position |
| 7 | 24115 | Pad, Rubber |

Notes:

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

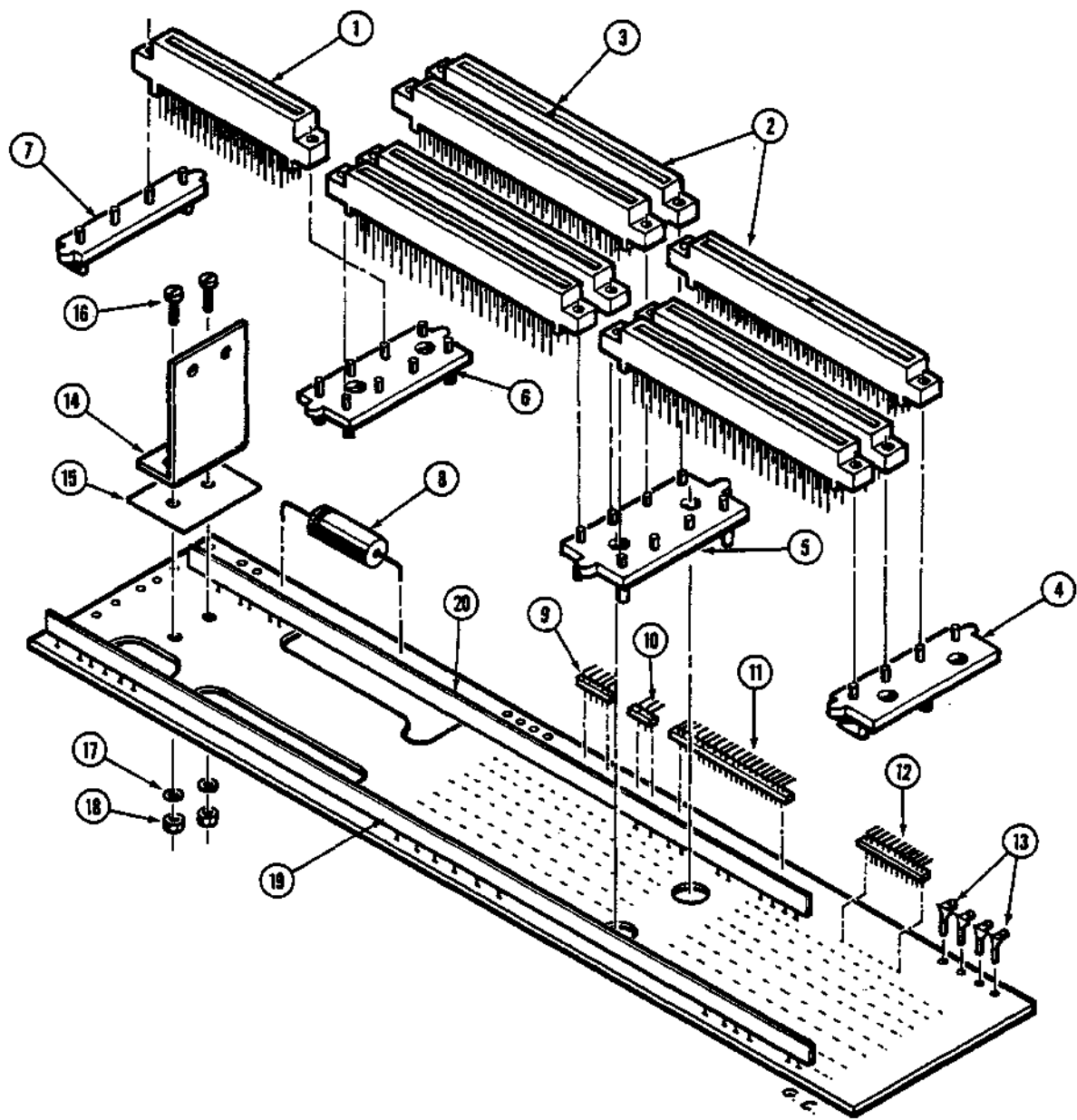


Figure 2-1
301390-XX MOTHERBOARD ASSEMBLY

SECTION II

301390-XX MOTHERBOARD ASSEMBLY
(see notes)

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|-------------------------|
| 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 | 70168-06 | 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 II.2a

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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--|---|-----------------|--|--------------------|
| | <u>RESISTORS</u> | | | <u>LC's</u> | |
| 10429-25 | 100 Ohm 1/4W 2% | B9,D3 | 100237-03 | ROM, Print Wheel Program (Note 4) | B19 |
| 10429-41 | 470 Ohm 1/4W 2% | D5,D6 | 100311-02 | MASK ROM, Print Wheel Program (Note 3,4) | B19 |
| 10429-49 | 1K 1/4W 2% | A18,A24,B17 E3,E10,F15 F16 | 100234-02 | EROM-1 Basic Program (Note 4) | E52 |
| 10429-63 | 3.9K 1/4W 2% | A2,A11 | 100319-02 | MOS ROM 32K Basic Program (Note 3,4) | E52 |
| 10429-69 | 6.8K 1/4W 2% | A7,A13 | 100235-02 | EROM-2 Basic Program (Note 4) | E67 |
| 10429-65 | 4.7K 1/4W 2% | A34,A65,B1 B44,B59,B66 B67,D7,E11 E50 | 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 |
| | <u>CAPACITORS</u> | | 42351-01 | 74LS05 | D4 |
| | | | 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 B41,B63,B69 D2,D45,D71 E7,E18,E28 E45,E54,E61 E68 | 13235-03 | SWAP-0015 | A19 |
| | | | 100227-01 | 7417 | A41,A47 |
| 10076-10 | 1uF 35V (Note 6) | F33,F42 | 10239 | Resistor Pack, 1K 2% | A30 |
| 10076-68 | 6.8uF 35V (Note 6) | E33,E36 | 10761 | Resistor Pack, 1K 2% | A36 |
| 10410-22 | 22uF 15V | F1,F68 | 100189-02 | 8251A (Note 6) | D55 |
| | <u>LC's</u> | | 10353 | 75150P (Note 6) | B70,B71 |
| | | | 10354 | 75154 (Note 6) | B64,D64 |
| 100176-02 | 8085A | B37 | 42391-12 | 78M12C (Note 6) | F48 |
| 100236-02 | ROM, Carriage Program (Note 4) | B10 | 10213-12 | 79M05AHC (Note 6) | F41 |
| 100310-01 | MASK ROM, Carriage Program (Notes 3,4) | B10 | | | |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|----------------------|----------------------------|------------------------|
| <u>MISCELLANEOUS</u> | | |
| 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 | J1 |
| 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 II.2b)
- (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 IL2b 99A81084

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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|---|--------------------|
| 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)

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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|----------------------|---------------------------|-------------------------------------|
| <u>MISCELLANEOUS</u> | | |
| 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 | J1 |
| 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)

2741 OPTION

100429-01 Mask ROM 4 A31
301660-03 EROM 4 (Alternate)

100430-01 Mask ROM 5 A40
301661-03 EROM 5 (Alternate)

400196-80 Keytop, (Position #92
"Attention" Legend on keyboard)

WORD PROCESSING ENHANCEMENTS

100431-01 Mask ROM 6 A49
301664-01 EROM 6 (Alternate)

100432-01 Mask ROM 7 A58
301665-01 EROM 7 (Alternate)

100249-01 RAM, 1K X 4 Pos E63

HYPLOT, FEEDER CONTROL, DIAGNOSTIC

100410-01 Mask ROM 8 A67
400710-01 EROM 8 (Alternate)

HERE IS MESSAGE

100248-01 EAROM B25

10634-02 Plug, Shorting A6

EXPANDED BUFFER

100249-01 RAM, 1K X 4 Pos B49,B56,E49
(Note 2) E56

| | 2741 OPTION | WORD PROCESSING | HYPLOT FEEDER DIAGNOSTICS | HERE IS MESSAGE | EXPANDED BUFFER |
|-----------|-------------|-----------------|---------------------------|-----------------|-----------------|
| 301730-01 | X | | | | |
| 301730-02 | | X | | | |
| 301730-03 | X | X | | | |
| 301730-04 | | | X | | |
| 301730-05 | X | | X | | |
| 301730-06 | | X | X | | |
| 301730-07 | X | X | X | | |
| 301730-08 | | | | X | |
| 301730-09 | X | | | X | |
| 301730-10 | | X | | X | |
| 301730-11 | X | X | | X | |
| 301730-12 | | | X | X | |
| 301730-13 | X | | X | X | |
| 301730-14 | | X | X | X | |
| 301730-15 | X | X | X | X | |
| 301730-16 | | | | | X |
| 301730-17 | X | | | | X |
| 301730-18 | | X | | | X |
| 301730-19 | X | X | | | X |
| 301730-20 | | | X | | X |
| 301730-21 | X | | X | | X |
| 301730-22 | | X | X | | X |
| 301730-23 | X | X | X | | X |
| 301730-24 | | | | X | X |
| 301730-25 | X | | | X | X |
| 301730-26 | | X | | X | X |
| 301730-27 | X | X | | X | X |
| 301730-28 | | | X | X | X |
| 301730-29 | X | | X | X | X |
| 301730-30 | | X | X | X | X |
| 301730-31 | X | X | X | X | X |

Notes:

(1) XMEM2 PCB Assemblies:

(See Table)

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

SECTION L4

40520-04 SERVO PCB ASSEMBLY, STANDARD

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------|---|-----------------|--------------------|---|
| | <u>RESISTORS</u> | | | <u>RESISTORS</u> | |
| 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 D57,D58,D67 D68,F35,F36 F67,F70,F72 |
| 10003-01 | 1K 1/8W 1% | A64,B47,D14 D64,F60,F73 | | | |
| 10003-69 | 5.11K 1/8W 1% | F10 | 10429-78 | 16K 1/4W 2% | D34,D55,D70 F34 |
| 10005-39 | 249K 1/8W 1% | B4 | 10429-79 | 18K 1/4W 2% | D46,F68 |
| 10004-01 | 10K 1/8W 1% | A20,A26,A34 B15,B23,B40 F11 | 10429-80 | 20K 1/4W 2% | B11,B31,B57 B59,D6,F19 F20 |
| 10005-15 | 140K 1/8W 1% | A45 | 10429-82 | 24K 1/4W 2% | D43,F71 |
| 10004-30 | 20K 1/8W 1% | A48,A49,A51 A63,B13,B14 B29,B30,B43 B45,B68,B70 B72,B74,D48 D49 | 10429-90 | 51K 1/4W 2% | D21,D23,F21 |
| 10005-12 | 130K 1/8W 1% | B64 | 10430-01 | 100K 1/4W 2% | B8,B24,F18 |
| 10005-21 | 162K 1/8W 1% | B36 | 10005-74 | 576K 1/8W 1% | B19 |
| 10005-03 | 105K 1/8W 1% | B56 | 10003-30 | 2K 1/8W 1% | B48,D40,D41 F43 |
| 10429-25 | 100 Ohm 1/4W 2% | A15,A22,D5 F9 | | <u>CAPACITORS</u> | |
| 10429-41 | 470 Ohm 1/4W 2% | H27 | 10087-39 | .39uF 50V | D24 |
| 10429-56 | 2K 1/4W 2% | A47,B65,D13 D17,D20,D22 D33,D64,D69 D69,F16,F22 F24,F28,F31 F32,F44,F47 F50,F55,F69 H23,H32,H38 H41,H42,H44 H63,H67,H70 H71,H74 | 10062-12 | 120pF 500V | B20 |
| 10429-66 | 5.1K 1/4W 2% | H11 | 10062-91 | 910pF 500V | B60 |
| 10429-68 | 6.2K 1/4W 2% | A14,A25,A66 A72,B34,B42 D11,D15,D27 D71,F15,F46 F49,F54,F57 H40,H69,H73 | 10061-75 | 75pF 500V | G16 |
| | | | 10070-15 | .0015uF 200V | B54 |
| | | | 13061 | .01uF 80V 2% | B50,B62,D38 D62,F38,F41 F62,F63 |
| | | | 10086-10 | .1uF 50V | C16,C28,C40 C50,E14,E28 E39,E50,F6 G15,G28,G38 G50,G63,H18 H28 |
| | | | 10076-68 | 6.8uF 35V | F7,H5,H22 H29 |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|--------------------|---------------------|---|
| <u>CAPACITORS</u> | | |
| 10071-10 | .01uF 80V | B5,B27 |
| 10061-39 | 39pF 500V | F12 |
| <u>DIODES</u> | | |
| 10160 | 1N4454 | 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 |
| <u>TRANSISTORS</u> | | |
| 13013 | 2N4401 | E6 |
| 13070 | PN3644 | A18,A28 |
| <u>LC.'s</u> | | |
| 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)

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------------|--|-----------------|------------------------------|--------------------|
| | <u>RESISTORS</u> | | | <u>RESISTORS</u> | |
| 10042-20 | 200 Ohm 1W 5% | G54,G87 | 10429-89 | 47K 1/4W 2% | A18,A29,B30 |
| 13033 | .1 Ohm 2W 5%, Fusible | G37,G39 | 10429-92 | 62K 1/4W 2% | F32,G16 |
| 10059-01 | .1 Ohm 3W 1% | C53 | 10430-01 | 100K 1/4W 2% | B10 |
| 10059-10 | 1 Ohm 1W 1% | G24,G26 | 10429-90 | 51K 1/4W 2% | A55 |
| 10042-30 | 300 Ohm 1W 5% | F59,G44 | 10002-01 | 100 Ohm 1/8W 1% | B74 |
| 10432-33 | 220 Ohm 1/2W 2% | D4,D33 | 10004-01 | 10K 1/8W 1% | B51,F27,G20 |
| 10432-49 | 1K 1/2W 2% | A9,A11 | 10005-58 | 392K 1/8W 1% | G18,G19 |
| 10432-29 | 150 Ohm 1/2W 2% | D12,D27 | 10005-69 | 511K 1/8W 1% | B54 |
| 10432-58 | 2.4K 1/2W 2% | A35,B32 | 10002-93 | 909 Ohm 1/8W 1% | B73 |
| 10429-25 | 100 Ohm 1/4W 2% | A56,B53,D10 D11,E47,E62 F52,F68 | 10026-10 | 1M 1/4W 5% | F26,G15 |
| 10429-41 | 470 Ohm 1/4W 2% | B6 | 10429-84 | 30K 1/4W 2% | B33 |
| 10429-42 | 510 Ohm 1/4W 2% | C14,C18,E14 E19 | | <u>CAPACITORS</u> | |
| 10429-49 | 1K 1/4W 2% | A62,B27,B28 B34,B44,C59 D46,G10,G35 | 10062-12 | 120pF 500V | D43,G55 |
| 10429-53 | 1.5K 1/4W 2% | E72 | 10062-82 | 820pF 300V | A44 |
| 10429-56 | 2K 1/4W 2% | A26,A27,A34 A45,C41,C58 D9,D44,D72 D76,E54,E73 E74,F4,F6 F7,F56,F70 G56,G57,G69 G70,G71 | 10070-15 | .0015uF 200V | G75 |
| 10429-60 | 3K 1/4W 2% | B14 | 10070-47 | .0047uF 80V | A63 |
| 10429-65 | 4.7K 1/4W 2% | A28,B18,B29 | 13059-01 | .1uF 50V | A15,B2,B71 |
| 10429-66 | 5.1K 1/4W 2% | B47,D75,F75 F76 | 13059-03 | .22uF 50V | F35,G12 |
| 10429-67 | 5.6K 1/4W 2% | A14,A17,B35 B50 | 13036 | 3uF 100V | E37 |
| 10429-73 | 10K 1/4W 2% | A24,A58,B31 | 10076-68 | 6.8uF 35V | A22,G6 |
| 10429-79 | 18K 1/4W 2% | F28,G17 | 10205-22 | 22uF 35V | G22,G32 |
| 10429-80 | 20K 1/4W 2% | A13 | 10071-10 | .01uF 80V | C15 |
| 10429-85 | 33K 1/4W 2% | B17 | 10061-10 | 10pF 500V | A51,B59 |
| | | | | <u>DIODES</u> | |
| | | | 10103-05 | 5V Zener, 1N4733 | B5 |
| | | | 100138-01 | 11V Zener, (Diablo Spec.) | A7,B7 |
| | | | 13009-31 | 5.1V Zener, 1N5231B | G52,G68 |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------------|--|-----------------|--|--|
| | <u>DIODES</u> | | | <u>MISCELLANEOUS</u> | |
| 10160 | 1N4454 | A8,A12,A19 A20,A25,A32 A33,A37,A38 A59,A60,B8,B9 B19,B20,B25 B28,B36,B37 B46,C67,E75 E76,F72,F73 F74,G72 | 70111-07 | Screw, 4-40 X .4375 | (To mount Heat Sink) |
| | | | 70812 | Insulator | (Between transistor and Heat Sink) |
| | | | 70813 | Insulator | (Transistor mount screws) |
| 10369 | 1N4002 | 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 | | | |
| | <u>TRANSISTORS</u> | | | Notes: | |
| 13070 | PN3644 | C34,D15,D22 D45,D59,E77 G58,G73 | (1) | Thermal compound #10549 required between power transistors, insulators and Heat Sink. | |
| | | | (2) | Etch -08. | |
| 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 | | | |
| | <u>LC.'s</u> | | | | |
| 10165 | 72747 | B62,F18 | | | |
| 10166 | 748 | A50,B55 | | | |
| 100300-01 | Resistor Network, 10K | A74,A75 | | | |
| | <u>MISCELLANEOUS</u> | | | | |
| 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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|-------------------------|--|-----------------|--------------------|--|
| | <u>RESISTORS</u> | | | <u>RESISTORS</u> | |
| 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 D30,D42 |
| 10020-27 | 2.7 Ohm 1/4W 5% | E30,E40,G47 | 10003-89 | 5.11K 1/8W 1% | A31,A32,A42 A43 |
| 100399-01 | 10 Ohm 1W 5% Fusible | F50,F51,G1 | 10003-01 | 1K 1/8W 1% | J4,J18,J30 J39 |
| 10429-23 | 82 Ohm 1/4W 2% | G15,G18 | 10003-04 | 1.07K 1/8W 1% | J16,J24,J26 J29,J32,J41 J45,J47 |
| 10429-25 | 100 Ohm 1/4W 2% | A51,B29,D26 D51 | 10003-14 | 1.37K 1/8W 1% | J6,J12,J14 J20,J21,J34 J35,J43 |
| 10429-32 | 200 Ohm 1/4W 2% | A50,B31,D27 D50 | | | |
| 10429-39 | 390 Ohm 1/4W 2% | G14,G19 | | | |
| 10429-41 | 470 Ohm 1/4W 2% | H44 | | | |
| 10429-61 | 3.3K 1/4W 2% | G31,G34,G35 H31,J5,J7 J9,J11,J13 J15,J17,J19 J23,J27,J31 J33,J37,J40 J44,J46 | | <u>CAPACITORS</u> | |
| 10429-90 | 51K 1/4W 2% | E32,E34,E42 E44,E46 | 10061-27 | 27pF 500V | E31,E33,E41 E43,E45 |
| 10429-37 | 330 Ohm 1/4W 2% | A29,A40 | 10061-75 | 75pF 500V | A30,A41 |
| 10429-49 | 1K 1/4W 2% | A9,A10,A11 A12,A18,A19 A20,A21,A52 B30,C12,C23 C27,D6,D7,D11 D12,D17,D18 D22,D23,D52 E6,E12,E13 E17,E23,E24 E29,F5,F6 F12,F13,F15 F17,F23,F24 F30,F32,F40 F42,F44,G36 | 10062-10 | 100pF 500V | E35,E36,E37 E38,E39 |
| | | | 10062-15 | 150pF 500V | A8,A22,D9 D20,F9,F20 |
| | | | 10062-91 | 910pF 100V | A7,A13,A16 A23,B24,C5 C10,C16,E5 E10,E16,E21 |
| | | | 10070-22 | .0022uF 80V | G3,G5,G7,G9 |
| | | | 10076-68 | 6.8uF 35V | B40,G11,G51 J50 |
| | | | 10410-22 | 22uF 15V | F38,H25 |
| | | | 10071-10 | .01uF 80V | A27,A39 |
| 10430-01 | 100K 1/4W 2% | G30,G32,G40 G42,G44 | 10038-01 | .1uF 50V | B27,C35,C39 C45,C46,D5 D13,D16,D24 E27,F28,G29 G39,H13,J49 |
| 10004-58 | 39.2K 1/8W 1% | B41,C29,C40 D29,D40 | | | |
| 10003-33 | 2.15K 1/8W 1% | J8,J10,J22 J25,J28,J36 J42,J48 | | | |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|----------------------|--------------------|--------------------|
| <u>DIODES</u> | | |
| 10329 | 6.8V Zener, 1N4736 | G16,G17 |
| <u>TRANSISTORS</u> | | |
| 10443-01 | 2N5320 | F14 |
| 10444-01 | 2N5322 | F25 |
| 13013 | 2N4401 | B33,B45,D34 D45 |
| 13070 | PN3644 | B36,B48,D36 D48 |
| <u>LC.'s</u> | | |
| 10136 | 7404 | H12 |
| 10125 | 7420 | H30 |
| 10460 | 7406 | H6,H18,H36 H42 |
| 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 |
| <u>MISCELLANEOUS</u> | | |
| 13019-13 | Connector, 14-pin | J8 |

SECTION IL7

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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|------------------|--------------------|---|-------------------|--------------------------|--------------------|
| <u>RESISTORS</u> | | | <u>RESISTORS</u> | | |
| 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 F14,F30 | 10004-43 | 27.4K 1/8W 1% | D67,D74 |
| 10429-37 | 330 Ohm 1/4W 2% | D46,D62,E48 E82 | 10003-90 | 8.45K 1/8W 1% | B40 |
| 10429-41 | 470 Ohm 1/4W 2% | C36,C63,C64 G57,G63,G64 G70,H49,H71 | 13107 | .5 Ohm 5W 1% | C57 |
| 10429-49 | 1K 1/4W 2% | B29,B43,B58 C7,C23,C60 F36,G71,G72 H46,H48,H63 H64,H65,H70 | 10430-18 | 510K 1/8W 2% | C30 |
| 10429-56 | 2K 1/4W 2% | B57,B60,B63 C6,C14,C17 C18,C22,C34 C32,D14,D31 F19,F37,F38 F39,G17,G18 G34,G35,G53 H51 | 10429-42 | 510 Ohm 1/4W 2% | F34 |
| 10004-58 | 39.2K 1/8W 1% | B39,C41 | 10032-68 | 680 Ohm 1/2W 5% | G59 |
| 10429-57 | 2.2K 1/4W 2% | D70,F71 | 10033-12 | 1.2K 1/2W 5% | E47,E48,E53 E64 |
| 10429-66 | 5.1K 1/4W 2% | B59,C16,D34 G40,G41 | 10042-30 | 300 Ohm 1W 5% | G3,G21 |
| 10429-73 | 10K 1/4W 2% | A21,A24,B61 D69,D73,G51 | 10042-20 | 200 Ohm 1W 5% | G14,G30 |
| 10003-51 | 3.32K 1/8W 1% | B51 | 10031-82 | 82 Ohm 1/2W 5% | G75 |
| 10430-08 | 200K 1/4W 2% | F68,F74 | 13033 | .1 Ohm 2W 5%, Fusible | H44,H55 |
| 10429-90 | 51K 1/4W 2% | A13 | <u>CAPACITORS</u> | | |
| 10429-84 | 30K 1/4W 2% | B62 | 10062-12 | 120pF 500V | C5,G16 |
| 10430-01 | 100K 1/4W 2% | C62 | 10062-56 | 560pF 300V | B44,E75,F66 |
| 10003-60 | 4.12K 1/8W 1% | B41 | 10070-15 | .0015uF 200V | G32 |
| 10001-01 | 10 Ohm 1/8W 1% | C48,C49 | 10070-22 | .0022uF 80V | A22,E50,E66 |
| 10002-01 | 100 Ohm 1/8W 1% | B47 | 10071-22 | .022uF 80V | A71 |
| 10002-83 | 715 Ohm 1/8W 1% | A33 | 10086-10 | .1uF 50V | B31,C38 |
| | | | 13069 | 1uF 50V | C68,D72 |
| | | | 10086-47 | .47uF 50V | A56 |
| | | | 10205-22 | 22uF 35V | J50,J61 |
| | | | 13036 | 3uF 100V | E18 |
| | | | 10076-68 | 6.8uF 35V | J73 |
| | | | 10062-82 | 820pF 300V | C21 |
| | | | 10070-33 | .0033uF 80V | B30 |
| | | | 10061-10 | 10pF 500V | A30 |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|---------------------------------|---|-----------------|--|--|
| | <u>DIODES</u> | | | <u>MISCELLANEOUS</u> | |
| 10160 | 1N4454 | B17,B42,B50 B52,B55,C15 C39,C40,C50 C51,F40,F41 G36,G37,G38 G39,G65,G66 H47,H53 | 24376-02 | Heat Sink | (Mounted to PCB) |
| | | | 70373-10 | Standoff | (Between Heat Sink and PCB) |
| 10389 | 1N4002 | C55,D45,D61 E45,E55,E61 G61,G62 | 70111-07 | Screw, 4-40 X .4375 | (To mount Heat Sink) |
| | | | 70111-04 | Screw, 4-40 X .250 | (Transistor mounting) |
| 13009-31 | 5.1V Zener 1N5231B | F69,F70,F72 F73,H16,H31 | 70813 | Insulator | (Transistor mount screws) |
| 13054 | 1N5415 | E10,E11,E26 E27 | 70812 | Insulator | (Between transistor and Heat Sink) |
| 13009-34 | 6.2V Zener, 1N5234B (Note 2) | C37 | | | |
| 13108 | 5.1V Zener, 1N5338A | F55 | | | |
| | <u>TRANSISTORS</u> | | | Notes: | |
| 13070 | PN3644 | C44,D5,D21 D43,D50,D64 E35,E58,G67 H18,H35,H50 H67 | (1) | Thermal compound #10549 required between power transistors, insulators and Heat Sink. | |
| | | | (2) | Part number 10103-02 may be substituted if 13009-34 is not available. | |
| 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 | 2N6183 | C10,C26,G10 G26 | | | |
| 13007 | TIP125 | C73 | | | |
| | <u>LC.'s</u> | | | | |
| 10165 | 72747 | A45,E74 | | | |
| 10166 | 748 | A19,A31 | | | |
| 10168 | 319 | A64 | | | |
| 100300-01 | Resistor Network, 10K | A50,A51 | | | |
| | <u>MISCELLANEOUS</u> | | | | |
| 10626-00 | Switch, Toggle | A36,A67 | | | |
| 22753 | Jumper Module | D33 | | | |

SECTION II B

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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------|---|-----------------|--------------------------|--------------------|
| | <u>RESISTORS</u> | | | <u>RESISTORS</u> | |
| 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 |
| 10429-37 | 330 Ohm 1/4W 2% | D46,D62,E46 E62 | 13038 | 1 Ohm 3W 1% | C57,H23 |
| 10429-41 | 470 Ohm 1/4W 2% | C36,C63,C64 G57,G63,G64 G70,H49,H71 | 10032-68 | 680 Ohm 1/2W 5% | G59 |
| 10429-49 | 1K 1/4W 2% | B43,B58,C7 C23,F36,G71 G72,H46,H48 H63,H64,H65 H70 | 10033-12 | 1.2K 1/2W 5% | E47,E48,E63 E64 |
| 10429-56 | 2K 1/4W 2% | B57,B60,B63 C6,C14,C17 C18,C22,C34 C52,D14,D31 F19,F34,F37 F38,F39,G17 G18,G34,G35 G53,H51 | 10042-30 | 300 Ohm 1W 5% | G3,G21 |
| 10004-41 | 26.1K 1/8W 1% | C41 | 10042-20 | 200 Ohm 1W 5% | G14,G30 |
| 10429-57 | 2.2K 1/4W 2% | D70,F71 | 10031-82 | 82 Ohm 1/2W 5% | G75 |
| 10429-66 | 5.1K 1/4W 2% | B59,C16,G40 G41,D34 | 13012 | 1 Ohm 2W 5%, Fusible | C55 |
| 10429-73 | 10K 1/4W 2% | A21,A24,B61 D69,D73,G51 | 13033 | .1 Ohm 2W 5%, Fusible | H44,H55 |
| 10004-47 | 30.1K 1/8W 1% | B39 | 10429-84 | 30K 1/4W 2% | B62 |
| 10003-69 | 5.11K 1/8W 1% | B51 | | <u>CAPACITORS</u> | |
| 10430-08 | 200K 1/4W 2% | F68,F74 | 10062-12 | 120pF 500V | C5,G16 |
| 10429-90 | 51K 1/4W 2% | A13,C30 | 10062-56 | 560pF 300V | B44 |
| 10028-51 | 5.1M 1/4W 5% | C62 | 10070-15 | .0015uF 200V | G32 |
| 10003-60 | 4.12K 1/8W 1% | B41 | 10070-22 | .0022uF 80V | A22,E50,E66 |
| 10001-01 | 10 Ohm 1/8W 1% | C48,C49 | 10071-22 | .022uF 80V | A71 |
| 10002-01 | 100 Ohm 1/8W 1% | B47 | 10086-10 | .1uF 50V | B31,C38 |
| 10003-18 | 1.5K 1/8W 1% | A33 | 10086-47 | .47uF 50V | A56 |
| 10004-01 | 10K 1/8W 1% | A25,C60 | 10205-22 | 22uF 35V | J50,J61 |
| | | | 13036 | 3uF 100V | E19 |
| | | | 10076-68 | 6.8uF 35V | J73 |
| | | | 10062-82 | 820pF 300V | C21 |
| | | | 10061-10 | 10pF 500V | A30 |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------------|---|-----------------|----------------------|------------------------------------|
| | <u>DIODES</u> | | | <u>MISCELLANEOUS</u> | |
| 10160 | 1N4454 | B17,B42,B50 B52,B56,C15 C39,C40,C50 C51,F40,F41 G36,G37,G38 G39,G65,G66 H47,H53 | 22753 | Jumper Module | G23,D33 |
| | | | 10626-00 | Switch, Toggle | A36,A67 |
| | | | 24376-02 | Heat Sink | (Mounted to PCB) |
| 10368 | 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 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) |
| | <u>TRANSISTORS</u> | | 70812 | Insulator | (Between transistor and Heat Sink) |
| 13070 | PN3644 | C44,D5,D21 D43,D50,D58 D64,E35,G67 H18,H35,H50 H67 | | | |
| 13013 | 2N4401 | C4,C19,C65 E58,F16,F32 F45,F48,F64 G47,H61 | | | |
| 10444-01 | 2N5322 | E6,E22 | | | |
| 10443-01 | 2N5320 | E14,E30,H59 | | | |
| 10445-01 | 2N6103 | C10,C26,G10 G26 | | | |
| 13007 | TIP125 | C73 | | | |
| | <u>LC's</u> | | | | |
| 10185 | 72747 | A45,E74 | | | |
| 10166 | 748 | A19,A31 | | | |
| 10168 | 319 | A64 | | | |
| 100300-01 | Resistor Network, 10K | A50,A51 | | | |

Notes:

- (1) Thermal compound #10549 required between power transistors, insulators and Heat Sink.

HPR & Y ROM

100318-02

XPN 547N321

SECTION IL9

00568-01 H4CPN PCB ASSEMBLY

| | | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------|-------------------------|--|-----------------|----------------------------|--|
| | | | | <u>MISCELLANEOUS</u> | |
| | | R2,R3,R4 R6,R7,R8 R10,R11 | 42503-01 | Buzzer | DS1 |
| | | 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 |
| | <u>CAPACITORS</u> | | 42501-10 | Switch, SPDT | S8,S9,S10 S11 |
| 10038-01 | .1uF 50V | C2,C3,C4,C5 C6,C7,C8 | 42502-10 | Switch SPDT, Momentary | S4,S5,S6,S7 |
| 10410-22 | 22uF 15V | C1 | 14022-03 | Spacer | CR1,CR2,CR3 CR4,CR5,CR6 CR7,CR8,CR9 CR10,CR11 CR13 |
| 10077-22 | 22uF 35V | C9 | 70166-02 | Nut, 2-56 | DS1 |
| | | | | | |
| | <u>DIODES</u> | | | | |
| 10160 | 1N4454 | CR12 | | | |
| 14005-01 | L.E.D. Red | CR1,CR2,CR3 CR4,CR5,CR6 CR7,CR8,CR9 CR10,CR13 | | | |
| 42222-01 | L.E.D. Green | CR11 | | | |
| | | | | | |
| | <u>LC's</u> | | | | |
| 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 | | | |

SECTION II.10

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

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------|--------------------|-----------------|--------------------------|--|
| | <u>RESISTORS</u> | | | <u>RESISTORS</u> | |
| 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 | | <u>CAPACITORS</u> | |
| 10429-68 | 6.2K 1/4W 2% | B19 | 100079-01 | .005uF 1.4KV (Note 2) | A1,A2,A38 A59 |
| 10429-71 | 8.2K 1/4W 2% | A79 | 100080-01 | .1uF 500V (Note 3) | A3 |
| 10429-73 | 10K 1/4W 2% | A73,B18,B27 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 B37,B68 B118,B130 C1,C130,C134 |
| 10429-95 | 82K 1/4W 2% | B17 | | | |
| 10430-05 | 150K 1/4W 2% | B31 | 10062-22 | 220pF 500V | A62 |
| 10430-08 | 200K 1/4W 2% | A22,A23 | 10062-30 | 300pF 500V | B35 |
| 10026-10 | 1MEG 1/4W 5% | C23,C18 | 10029-07 | .0033uF 200V | A78 |
| 10429-08 | 20 Ohm 1/4W 2% | A88,B85,C77 | 10062-47 | 470pF 500V | B42 |
| 10432-05 | 15 Ohm 1/2W 2% | A66 | 100090-01 | 100uF 200V | B50 |
| 10432-29 | 150 Ohm 1/2W 2% | C112 | 10077-12 | 12uF 20V | B61 |
| 10432-66 | 5.1K 1/2W 2% | A120,B120 | 100082-01 | .01uF 50V | A92,A93 B93,B94 C90,C91 |
| 10432-96 | 91K 1/2W 2% | B34 | 100084-01 | .05uF 50V | A87,B88 B109,B110 C82,C106 |
| 10059-01 | .1 Ohm 3W 1% | B40 | | | |
| 13012 | 1 Ohm 2W 5% | A56 | 10029-05 | .0022uF 200V | B38 |
| 10029-96 | 91K 1/4W 2% | B37 | | | |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|----------------------|----------------------------|--|----------------------|-------------------------------|---|
| <u>CAPACITORS</u> | | | <u>MISCELLANEOUS</u> | | |
| 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 |
| <u>DIODES</u> | | | 301073-01 | High Freq Current Transformer | A86,B83, C80 |
| 100094-01 | MR 854 | A55,B39 | 100092-01 | Heat Sink, Transistor | (Mounted to base) |
| 10160 | 1N4454 | A80,A82,A83 A84,B21,B54 B55,B59,B60 B62,B86,B87 | 70166-86 | Nut, 6-32 | (To mount transistor to PCB) |
| 100096-01 | MR 506 | B1,B2,B3,B4 | 70425-06 | Lockwasher, #6 | (Between nut and transistor base) |
| 100098-01 | 20V Zener, 1N4747A | A72,C2 | 22819 | Tab, 187 Series | A6, A9 |
| 100099-01 | 5.6V Zener, 1N5232D | C131 | 100492-04 | Stud, 6-32 X .500 Threaded | A95,B92,B95 |
| 100100-01 | R711-XA | A95 | 10883-09 | Terminal Block | A135 |
| 100101-01 | R711-X | B95 | 70014-04 | Screw, 10-32 X .250 | (To mount capacitor to PCB) |
| 100102-01 | VSK3020T | B92 | 70425-10 | Lockwasher, #10 | (Betw. screw and PCB) |
| 10329 | 6.8V Zener, 1N4736A | A60 | 100105-01 | Opto-Coupler | B36 |
| 100095-01 | 1N4936 | C17 | 10589-02 | Fibre Washer | (Betw. Heat Sink and PCB) |
| <u>TRANSISTORS</u> | | | 22753 | Jumper Module | A4,A81,B89 |
| 100103-01 | MPS-A93 | C21,C22 | *10377 | SCR 2N6401 | C135 |
| 100106-01 | Transistor Array | B12 | *70840-10 | Stud, 4-40 X .625 Self-Clinch | (To mount to Heat Sink Plate Assembly.) |
| 100116-01 | 2N6308 | C35,C52,C64 | *70813 | Insulator, Shoulder | (Between transistor insul/screw) |
| 100117-01 | TIP49 | C5,C9,C30 | *301157-02 | Heat Sink Plate | (Mounted to base) |
| <u>LC's</u> | | | *100369-01 | Washer, Shoulder | (Betw screw and Heat Sink Plate Assy.) |
| 10321-02 | 723A SEL | A67,B30 | | | |
| <u>MISCELLANEOUS</u> | | | | | |
| 301269-01 | Ferrite Bead/Wire Assembly | B121,B122 | | | |
| 301070-01 | High Freq Choke 2.8uH | A40 | | | |
| 301074-01 | High Freq Choke 10uH | A112,B112 | | | |
| 301166-01 | High Freq Choke 50uH | A52 | | | |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|----------------------|-----------------------|---|
| <u>MISCELLANEOUS</u> | | |
| *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, 115/230VAC Standard |
| 301100-06 | Universal Power Supply PCB Subassembly, 115/230VAC VDE |

Notes:

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

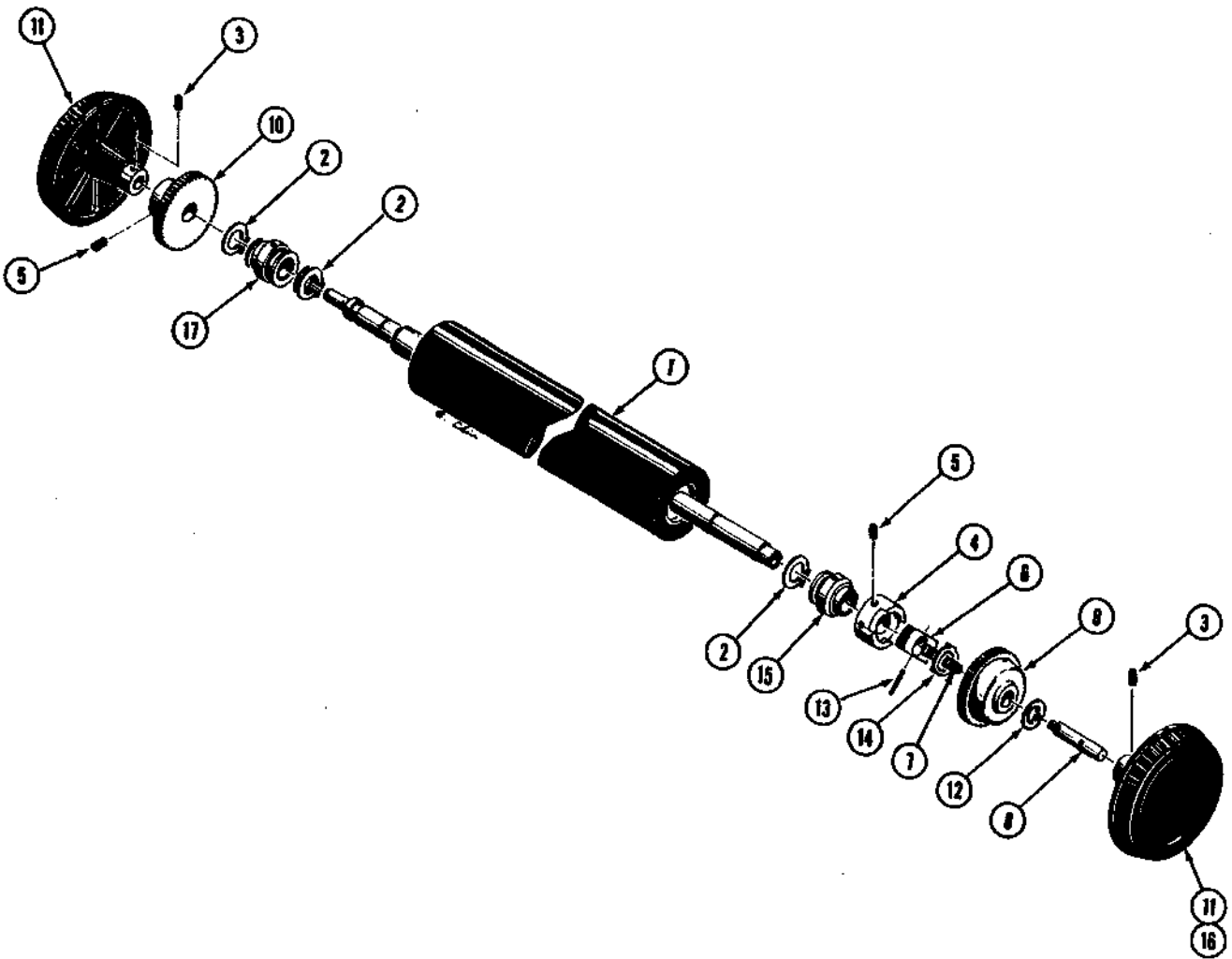


Figure 3-1
24075-05 FRICTION PLATEN ASSEMBLY

3-0

Rev A (11/80)

SECTION III

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|-------------------------------------|
| 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.

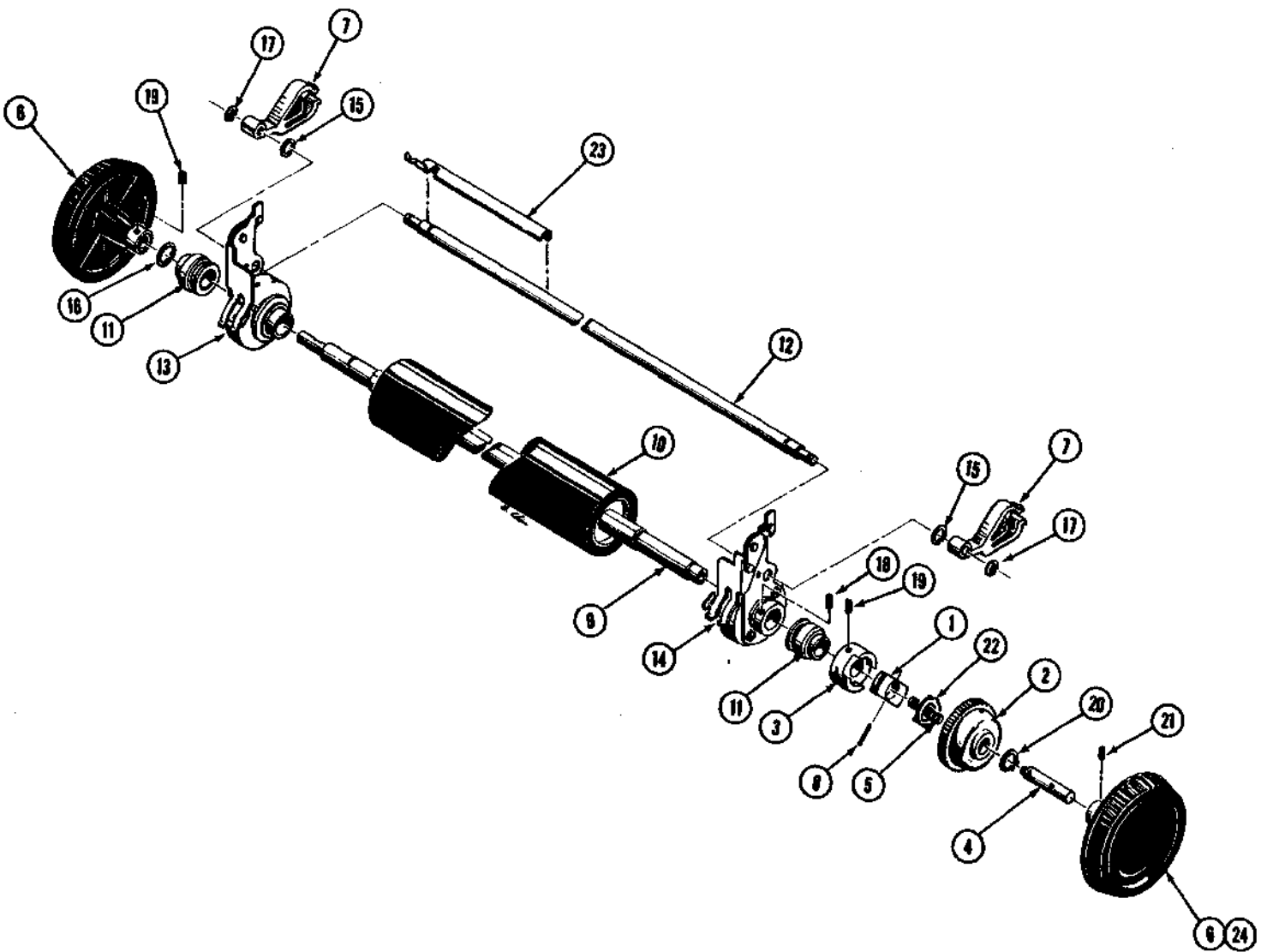


Figure 3-2
320160-XX PIN FEED PLATEN ASSEMBLY

3-2

Rev A (11/80)

SECTION III.2

320160-XX PIN FEED PLATEN ASSEMBLY
(see notes)

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|-------------------------------------|
| 1 | 20559 | Driver, Platen (Note 2) |
| 2 | 20560 | Gear, Drive (Note 2) |
| 3 | 24413 | Guide, Driver (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 | 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 Cone Point |
| 22 | 40858 | Retainer |
| 23 | 46007-01 | Guide, Paper |
| 24 | 46103-07 | Label, ID |

Notes:

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

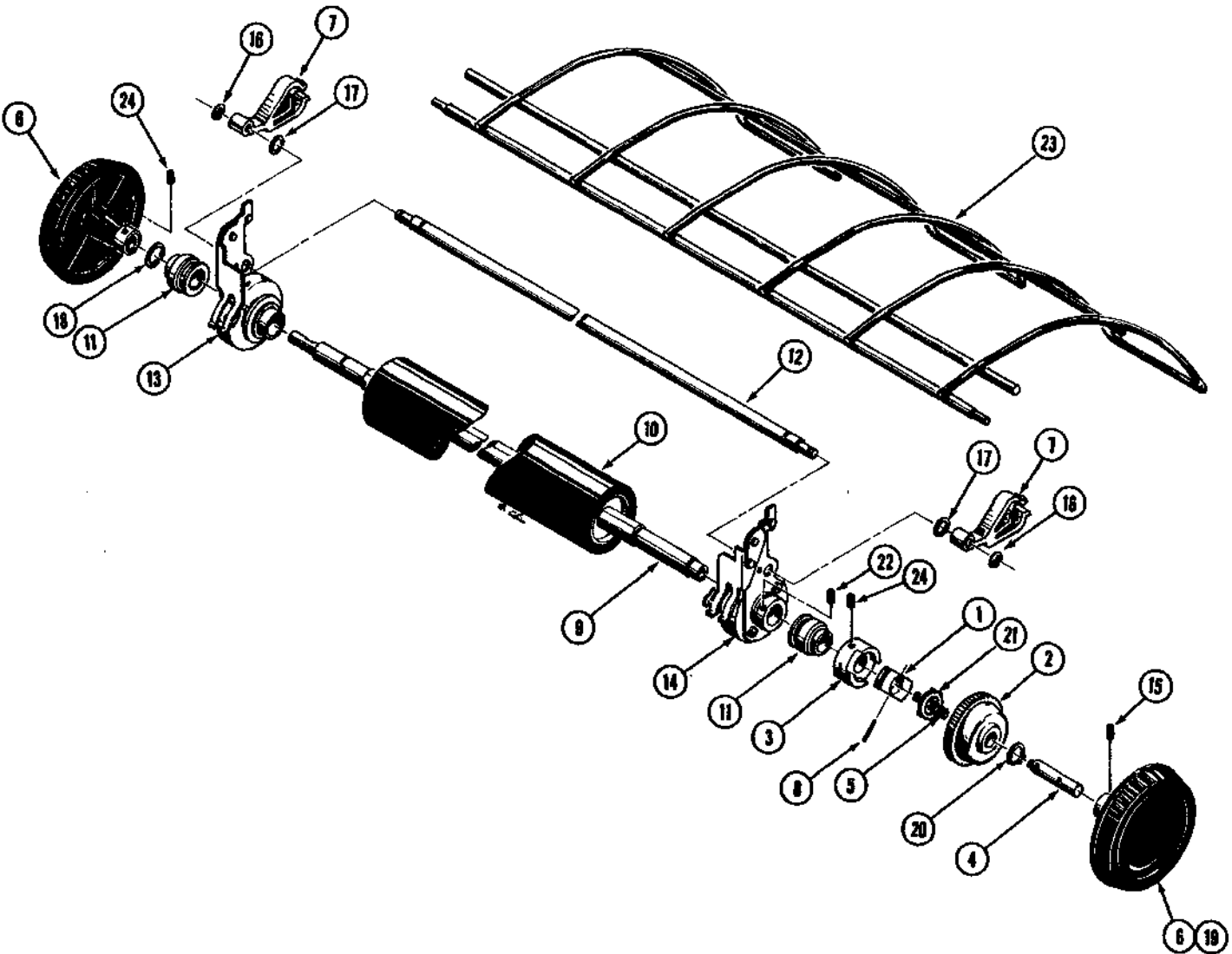


Figure 3-3
24313-XX PIN FEED PLATEN ASSEMBLY, REVERSIBLE

SECTION III.3

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|-------------------------------------|
| 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:

| <u>Assembly No.</u> | <u>Paper Width (inches)</u> | <u>Core No.</u> |
|---------------------|---------------------------------|-----------------|
| 24313-09 | 14.875 | 22487-09 |
| 24313-10 | 15.000 | 22487-10 |

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

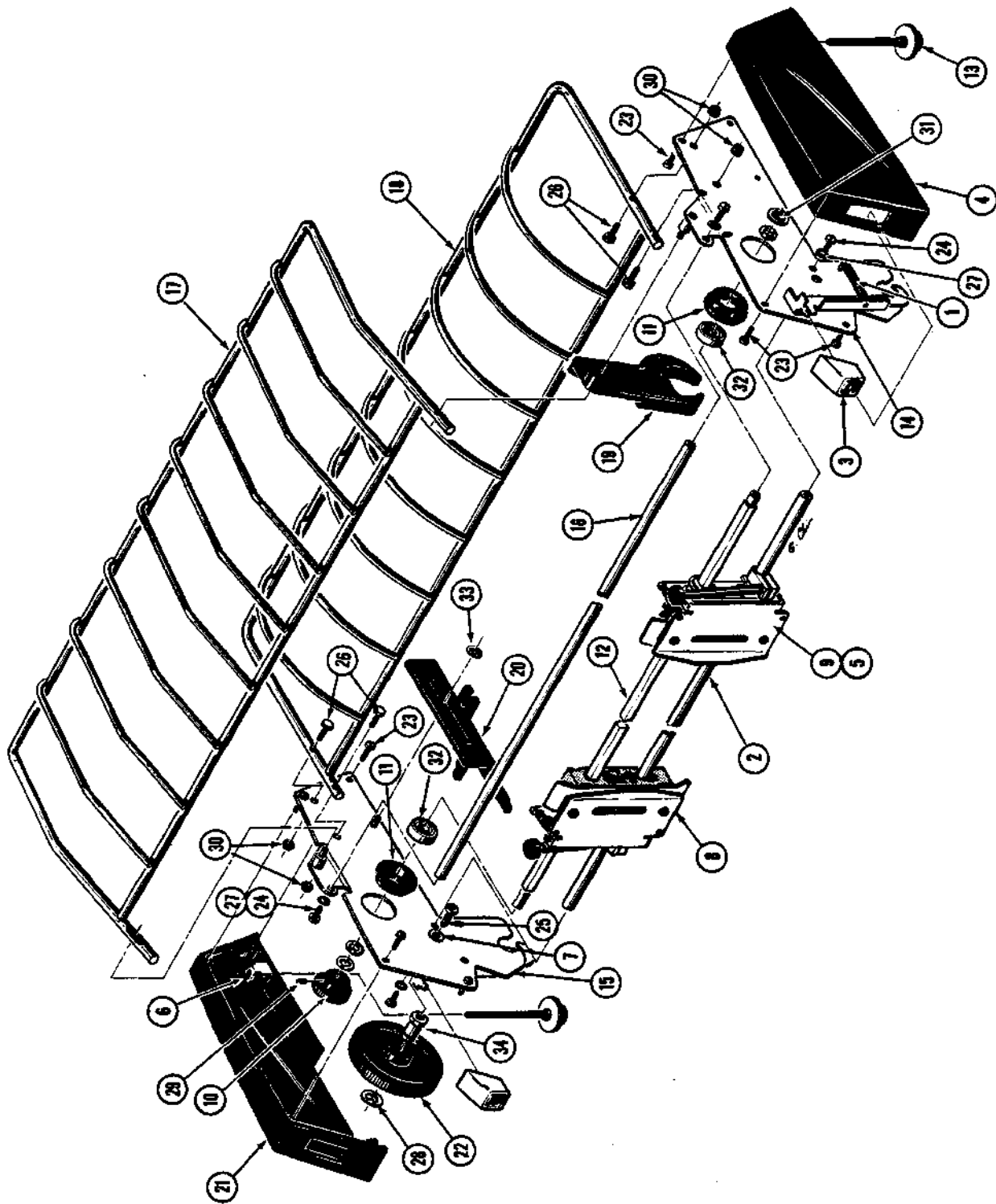


Figure 3-4
24345-03 TRACTOR FEED ASSEMBLY

SECTION III.4

24345-03 TRACTOR FEED ASSEMBLY

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|--|
| 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 |
| 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, Right |
| 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 |

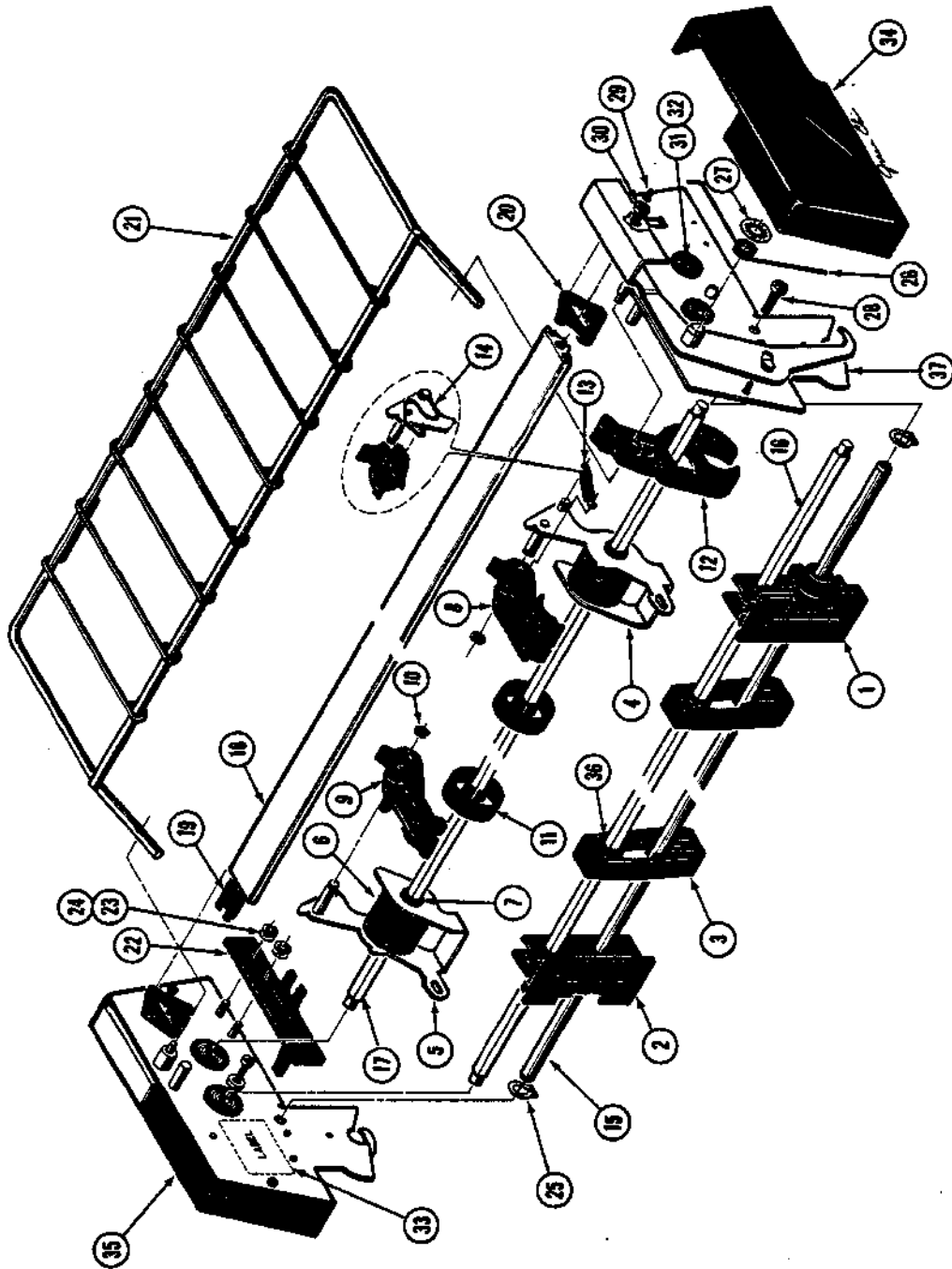


Figure 3-5
301180-03/-09 BIDIRECTIONAL TRACTOR

SECTION III.5

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

| ITEM | PART NO. | DESCRIPTION | Notes: |
|------|-----------|---|--|
| 1 | 301966-02 | Tractor Head, Right | |
| 2 | 301966-01 | Tractor Head, Left | |
| 3 | 301305-01 | Guide | (1) Parts not numbered or shown are NOT available separately. |
| 4 | 301504-02 | Tractor Arm, Right (Notes 2 and 3) | |
| | 301504-04 | Tractor Arm, Right (Note 4) | (2) Used on early units, replace with 301695-01 (item 13), Guide 301483-03 or -04 (items 8 and 9), and Tractor Arm 301504-03 or -04 (items 4 and 5). All three revised parts must be installed at the same time. |
| 5 | 301504-01 | Tractor Arm, Left (Notes 2 and 3) | |
| | 301504-03 | Tractor Arm, Left (Note 4) | |
| 6 | 301478-01 | Sprocket | |
| 7 | 301481-01 | Bearing | |
| 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 | 301357-01 | Shaft, Tractor Support | |
| 16 | 301912-02 | Shaft, Square, Grooved | |
| 17 | 301912-01 | Shaft, Square | |
| 18 | 301313-02 | Brace | |
| 19 | 301387-02 | 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 | 100211-03 | Screw, 10-16 X .625 T.F. P.H. | |
| 31 | 301904-01 | Bearing, Outer | |
| 32 | 301902-01 | Bearing, Inner | |
| 33 | 46103-15 | Label, Tractor | |
| 34 | 301326-02 | Cover, Right (Note 3) | |
| | 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) | |

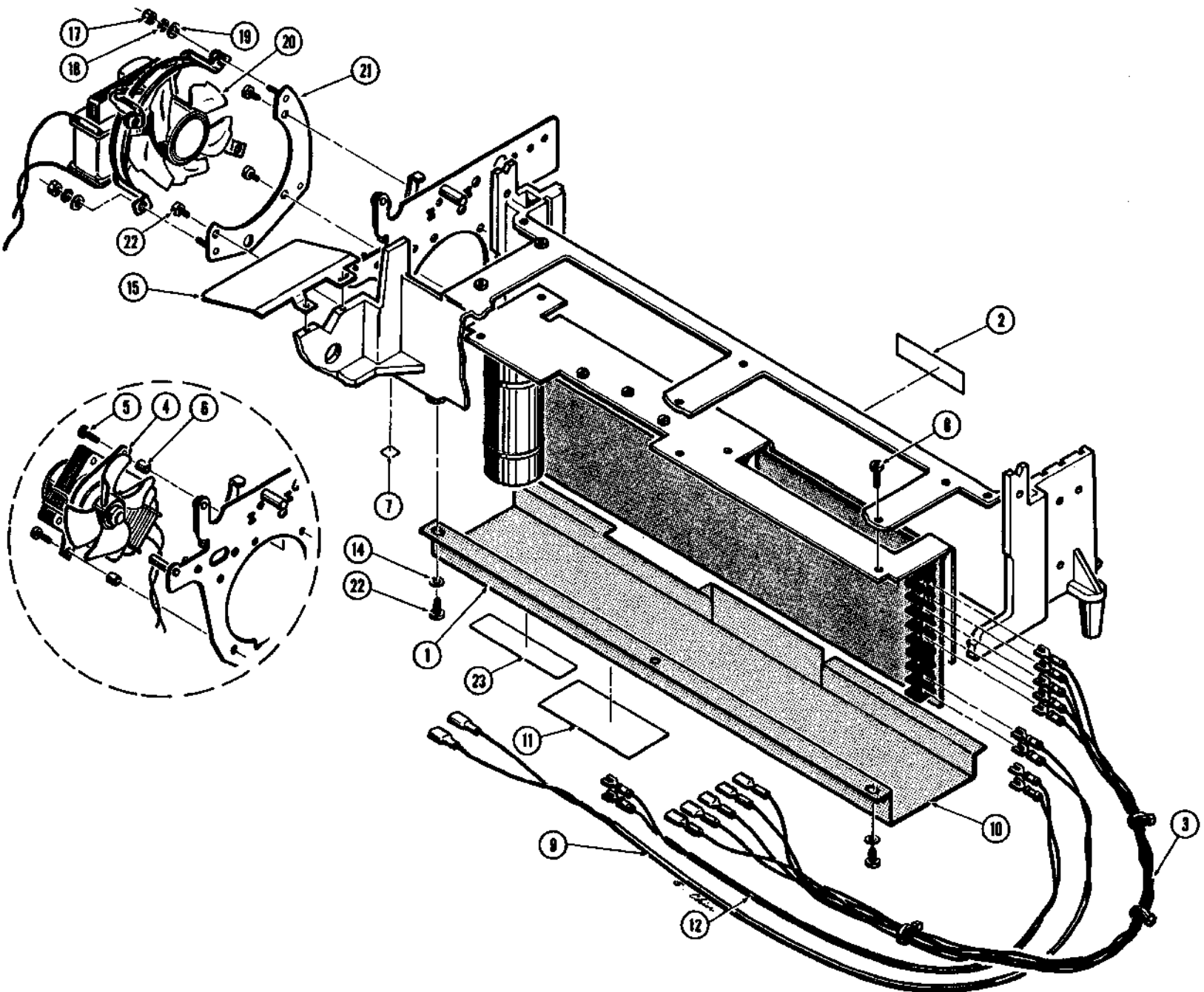
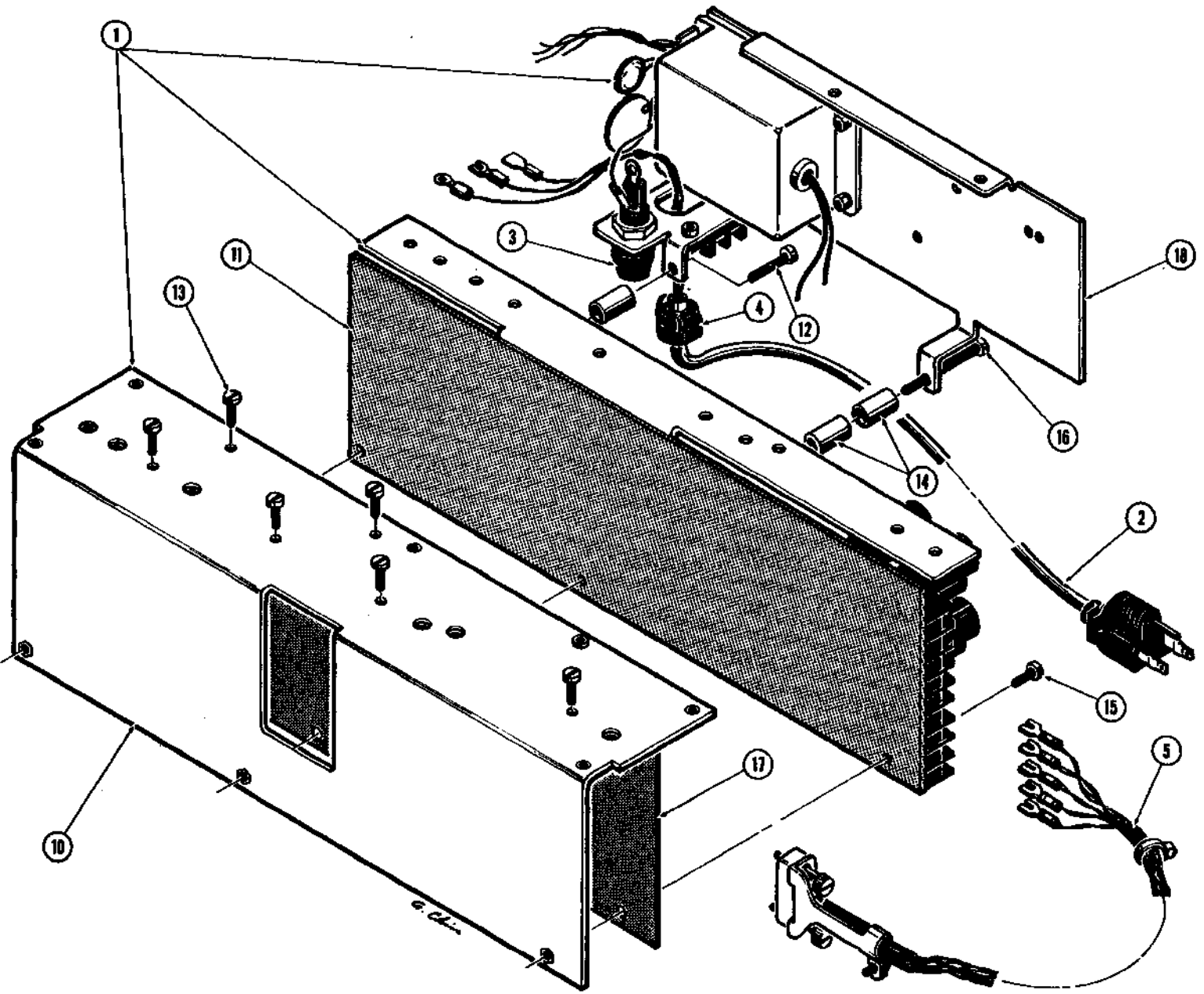


Figure 4-1a
312230-XX/400774-XX POWER SUPPLY ASSEMBLY

SECTION IV.1a

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

| ITEM | PART NO. | DESCRIPTION | Notes: |
|------|-----------|--|--|
| 1 | 26021-01 | Power Supply, 115VAC, Boschert (Note 5) | (1) Power Supply Assemblies: 312230-01 115VAC, No Control Panel 312230-02 230VAC, No Control Panel 312230-03 230VAC, VDE, No Control Panel 312230-04 115VAC, VDE, No Control Panel 400774-01 115VAC, With Control Panel 400774-02 230VAC, With Control Panel 400774-03 230VAC, VDE, With Control Panel 400774-04 115VAC, VDE, With Control Panel (2) Used on rear of 230VAC Models only. (3) Used with Boschert Power Supplies only. (4) Used with Universal Power Supplies only. (5) Used in 400774-01, -02 assemblies only as an alternate. (6) Used on 312230-XX assemblies only. (7) Used on 400774-XX assemblies only. (8) Used on 400774-03, -04 assemblies only. (May be used on 400774-01, -02 assemblies as an alternate.) |
| | 26021-02 | Power Supply, 230VAC, Boschert (Note 5) | |
| | 301155-05 | Power Supply, 115/230VAC, Standard Universal (Note 7) (see Section IV.1b) | |
| | 301155-06 | Power Supply, 115/230VAC, VDE Universal (Note 7) (see Section IV.1b) | |
| | 301885-09 | Power Supply, 230VAC, Standard Systems M.B. Universal (Note 6) (see Section IV.1b) | |
| | 301885-10 | Power Supply, 115VAC, Standard Systems M.B. Universal (Note 6) (see Section IV.1b) | |
| | 301885-11 | Power Supply, 115VAC, VDE Universal (Note 6) (see Section IV.1b) | |
| | 301885-12 | Power Supply, 230VAC, VDE Universal (Note 6) (see Section IV.1b) | |
| 2 | 14035-05 | Label, Voltage (Note 2) | |
| 3 | 26097-01 | Cable, DC Power (Note 7) | |
| 4 | 14011-01 | Fan, 115VAC (Note 3) | |
| | 14012-01 | Fan, 230VAC (Note 3) | |
| 5 | 70829-10 | Screw, 8-32 X .825 T.F. P.H. (Note 3) | |
| 6 | 20460 | Spacer (Note 3) | |
| 7 | 301613-01 | Label, Earth Symbol (Note 6) | |
| 8 | 70828-06 | Screw, 6-32 X .375 T.F. P.H. | |
| 9 | 23856 | Cable, Fan (Note 8) | |
| 10 | 301628-02 | Power Supply Cover | |
| 11 | 23147-01 | Label, Warning, 115VAC | |
| | 23147-07 | Label, Warning, 230VAC | |
| 12 | 301918-01 | Cable, AC Interconnecting (Note 7) | |
| 13 | | Not Used | |
| 14 | 70169-08 | Washer | |
| 15 | 301468-01 | Shield, Fan | |
| 16 | | Not Used | |
| 17 | 70166-86 | Nut, 6-32 Hex (Note 4) | |
| 18 | 70168-06 | Lockwasher, #6 (Note 4) | |
| 19 | 70853 | Flatwasher, #6 (Note 4) | |
| 20 | 40809-01 | Fan, 115VAC | |
| | 40809-02 | Fan, 230VAC | |
| 21 | 40783 | 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) | |



301985-KX UNIVERSAL POWER SUPPLY ASSEMBLY
 Figure 4-1b

SECTION IV.1b

301885-XX UNIVERSAL POWER SUPPLY ASSEMBLY
(see notes)

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|---|
| 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 II.10) |
| | 301153-06 | PCB Assembly (Note 6) (see Section II.10) |
| 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) |

Notes:

- (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.

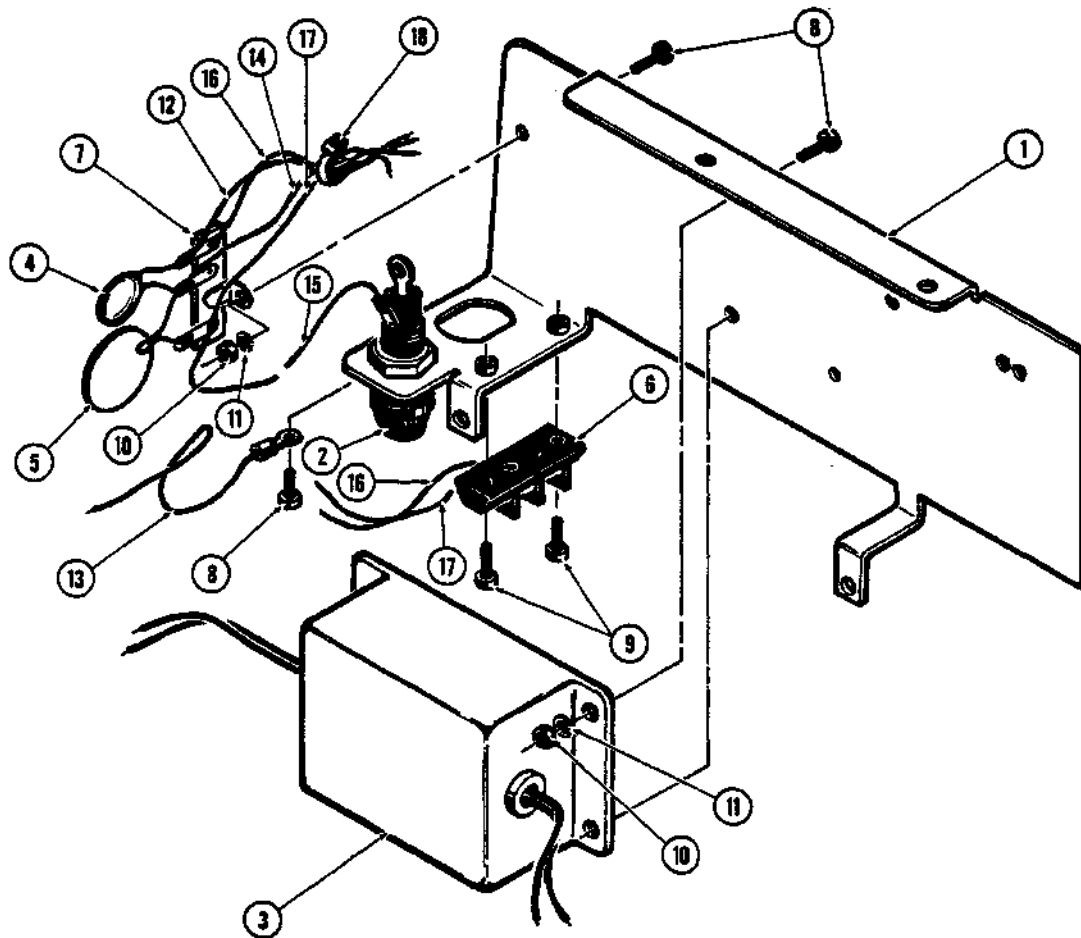


Figure 4-1c
301151-XX LINE FILTER ASSEMBLY, POWER SUPPLY

SECTION IV.1c

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|------------------------------|
| 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 |

Notes:

- (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.

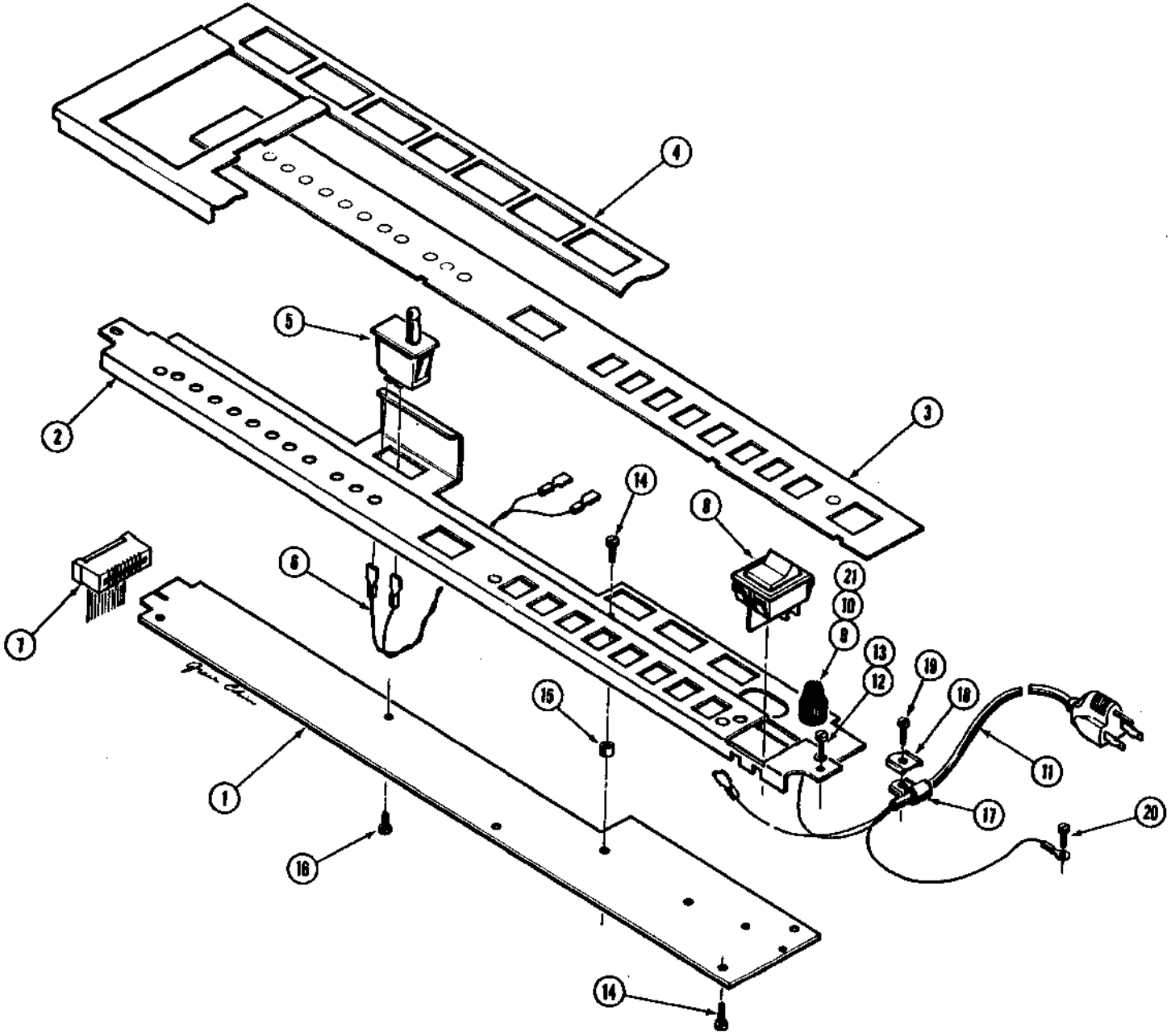


Figure 4-2
400763-XX CONTROL PANEL ASSEMBLY
4-6

SECTION IV.2

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 (10522-02) |
| 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) Control Panel Assemblies:

| | |
|-----------|---------------|
| 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 |
| 400763-08 | 1650 KSR 230V |

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

(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.

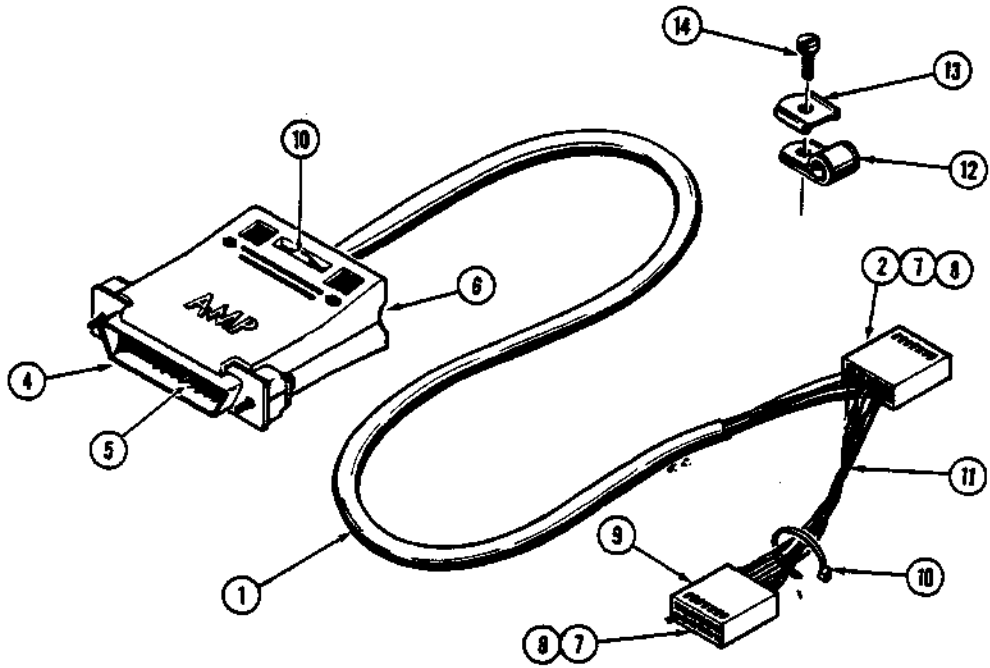


Figure 4-3
301608-XX CURRENT LOOP CABLE KIT

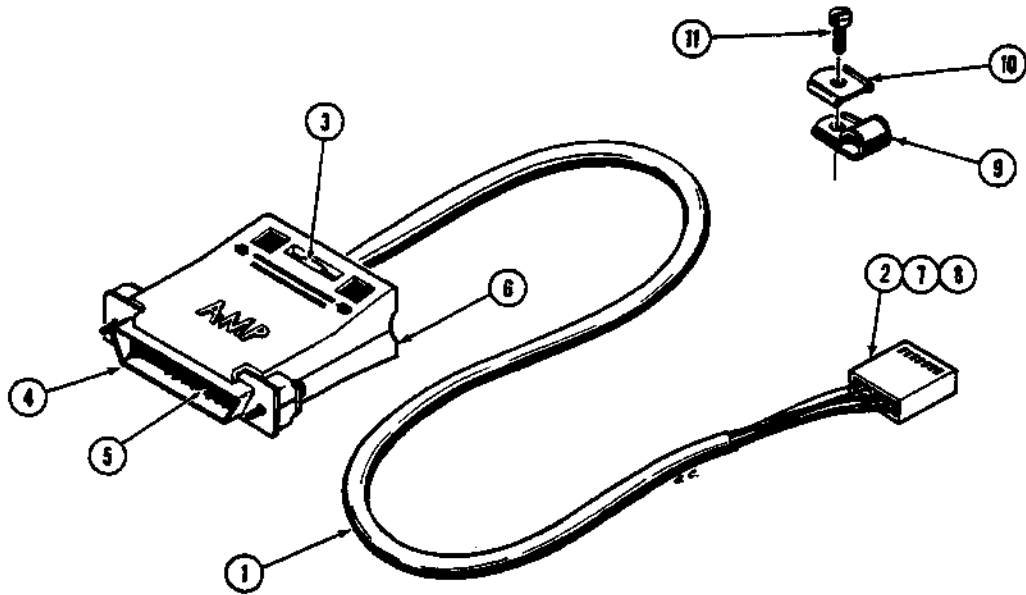


Figure 4-4
400775-01 RS-232-3C CABLE KIT

SECTION IV.3

301608-XX CURRENT LOOP CABLE KIT
(see notes)

| ITEM | PART NO. | DESCRIPTION | |
|------|----------|------------------------------|---|
| 1 | 10904-05 | Cable | Notes: |
| 2 | 10890-08 | Housing, Connector | |
| 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 5) | (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 | (4) Used on 301608-02 only. |
| | 10954-01 | Wire, #22, Brown | (5) Used on 301608-03 only. |
| | 10954-04 | Wire, #22, Yellow | |
| | 10954-06 | Wire, #22, Blue | (6) Used on 301608-01, -03 only. |
| | 10954-08 | Wire, #22, Gray | |
| 12 | 10535-13 | Cable Clamp | |
| 13 | 10537 | Washer "D" | |
| 14 | 70829-08 | 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 | 10904-10 | Cable |
| 2 | 10890-04 | 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:

23730-01

998029

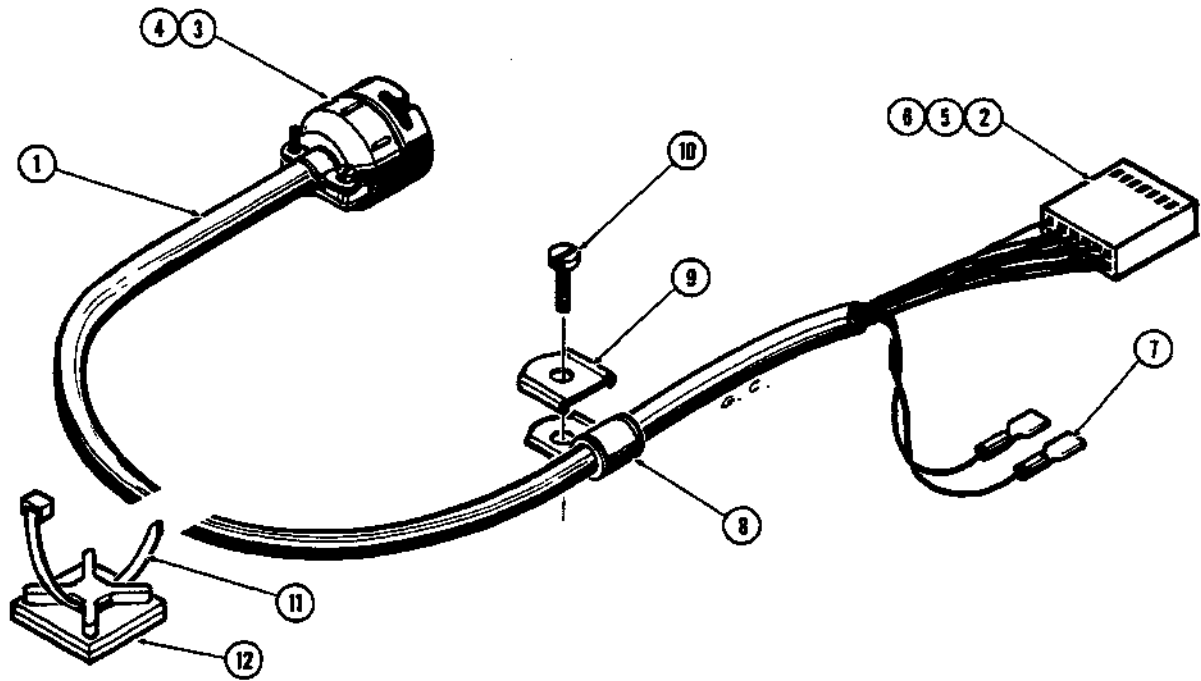


Figure 4-5a
 301603-01 HYFEED INTERFACE KIT--UNITS WITH XMEM2 PCB ASSEMBLIES

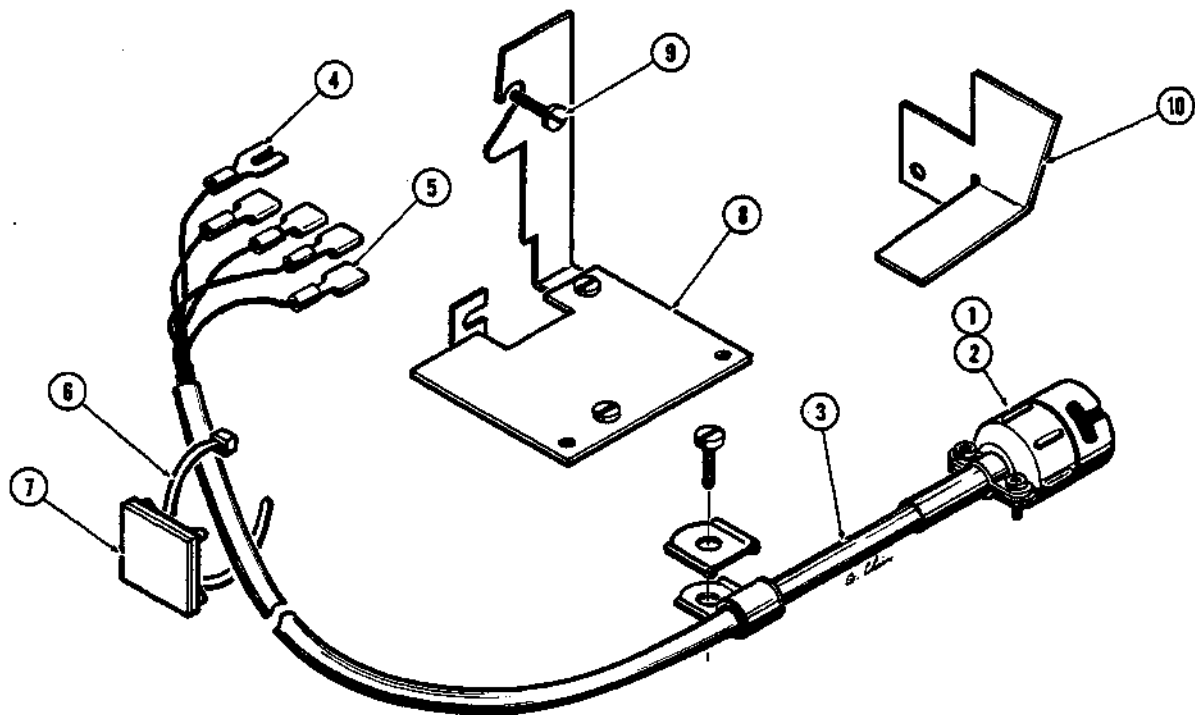


Figure 4-5b
 301603-02 HYFEED INTERFACE KIT--UNITS WITHOUT XMEM2 PCB ASSEMBLIES

SECTION IV.5a

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|------------------------------|
| 1 | 10904-20 | Cable |
| 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 HYFRED INTERFACE KIT—UNITS WITHOUT XMEM2 PCB ASSEMBLIES
(see notes)

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|------------------------------------|
| 1 | 100265-01 | Housing, Circular |
| 2 | 100266-01 | Contact, Female |
| 3 | 10904-05 | Cable |
| 4 | 10969-15 | Terminal, Spade Lug |
| 5 | 10513-10 | Receptacle, Crimp on |
| 6 | 10538-01 | Cable Tie |
| 7 | 10752-01 | Anchor, Cable Tie |
| 8 | 305070-02 | PCB Connector Assembly (Note 2) |
| 9 | 70829-06 | Screw, 8-32 X .375 T.F. P.H. |
| 10 | 305072-01 | Shield |

Notes: (Con't)

- (2) The following parts are available for the
PCB Connector Assembly:

| | |
|-----------|--|
| 305064-01 | Bracket Assembly, PCB Support, Lg |
| 305065-01 | Bracket Assembly, PCB Support, Sm |
| 10023-10 | Resistor, 1K Ohm 1/4W 5% (R1, R2) |
| 10160 | Diode, 1N4454 (CR1, CR2) |
| 10367 | Transistor 2N3904 (Q1) |
| 22819 | Tab, 187 Series (T1-T5) |
| 70029-03 | Screw, 4-40 X .187 P.H. (To mount brackets) |

Notes:

- (1) Items 1 thru 5 are available as an assembly:
305066-01

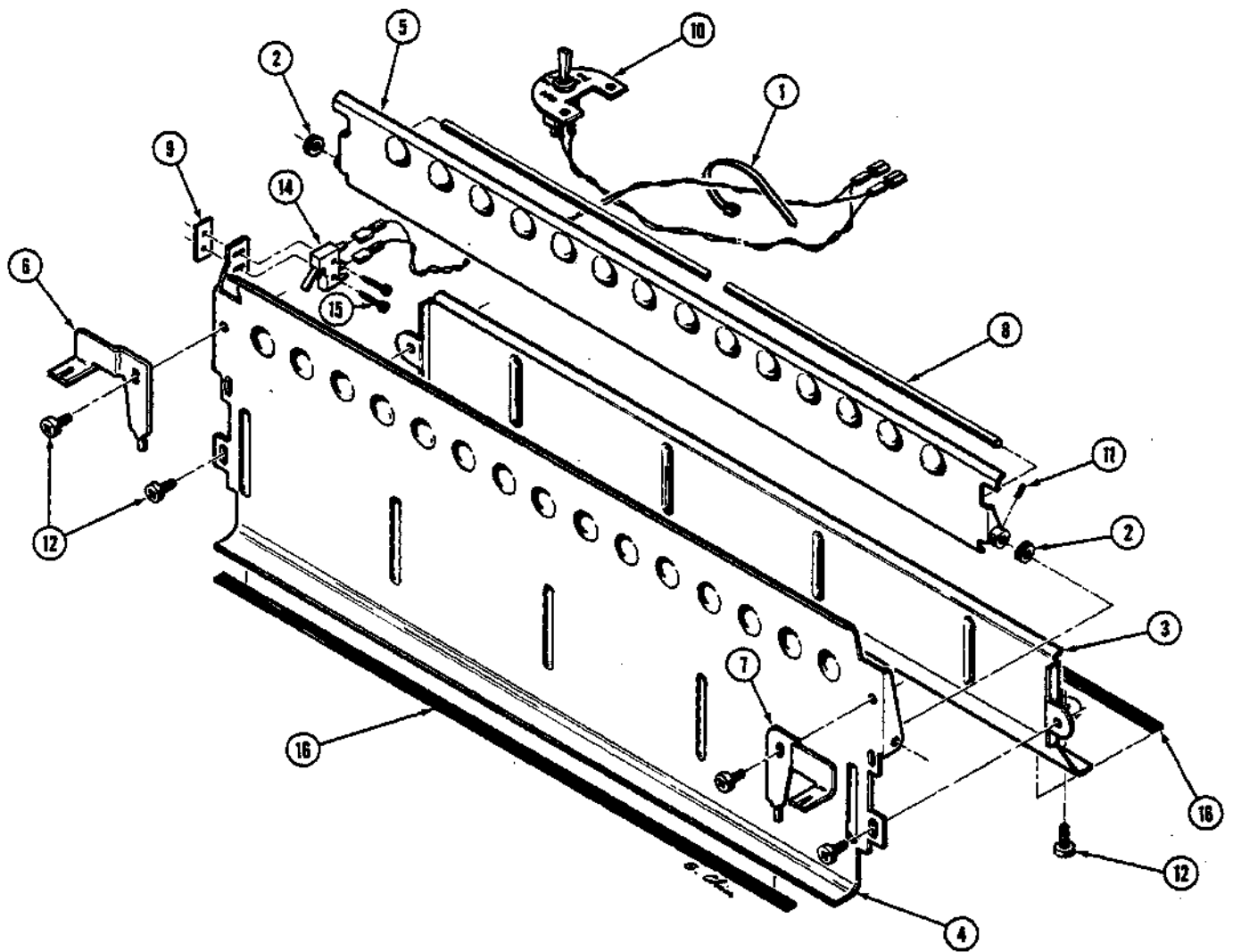


Figure 4-6
40565-01 PAPER CHUTE ASSEMBLY

SECTION IV.6

40565-01 PAPER CHUTE ASSEMBLY

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|---------------------------------|
| 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 |

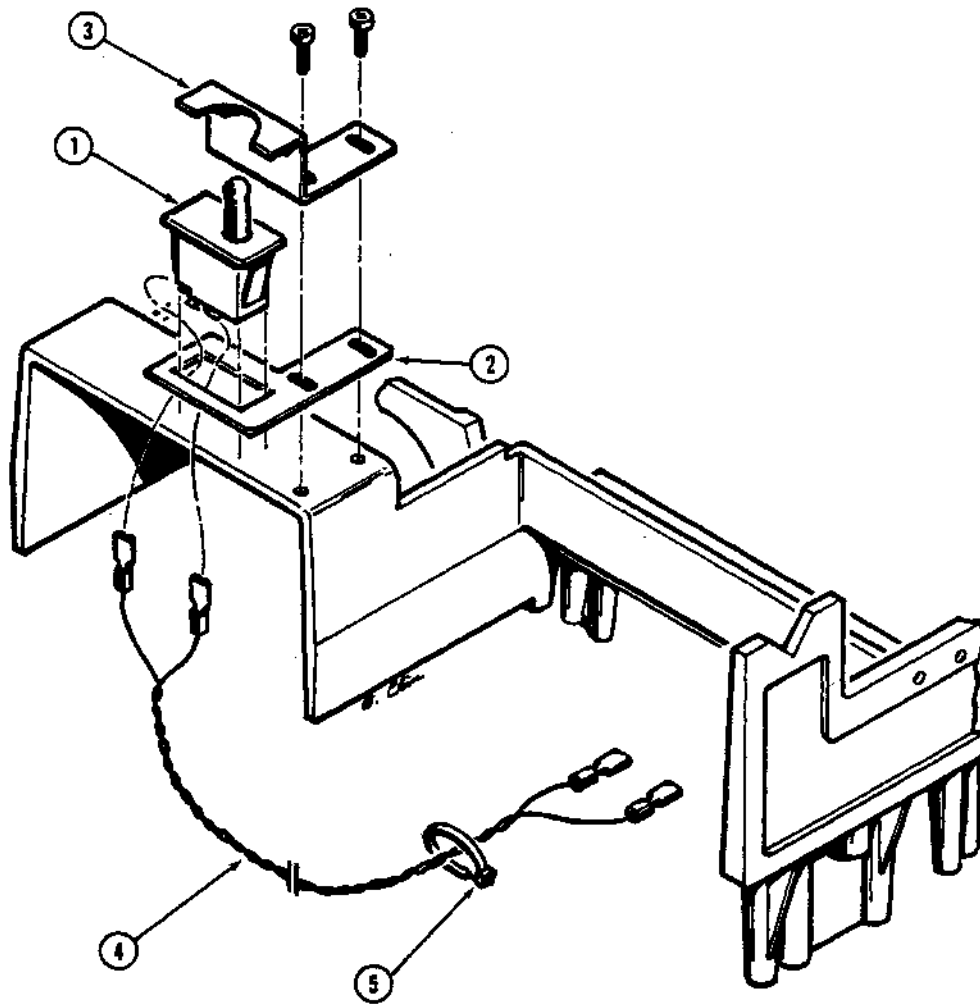


Figure 4-7
40504-03 COVER OPEN INTERLOCK SWITCH ASSEMBLY

SECTION IV.7

40504-03 COVER OPEN INTERLOCK SWITCH ASSEMBLY

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

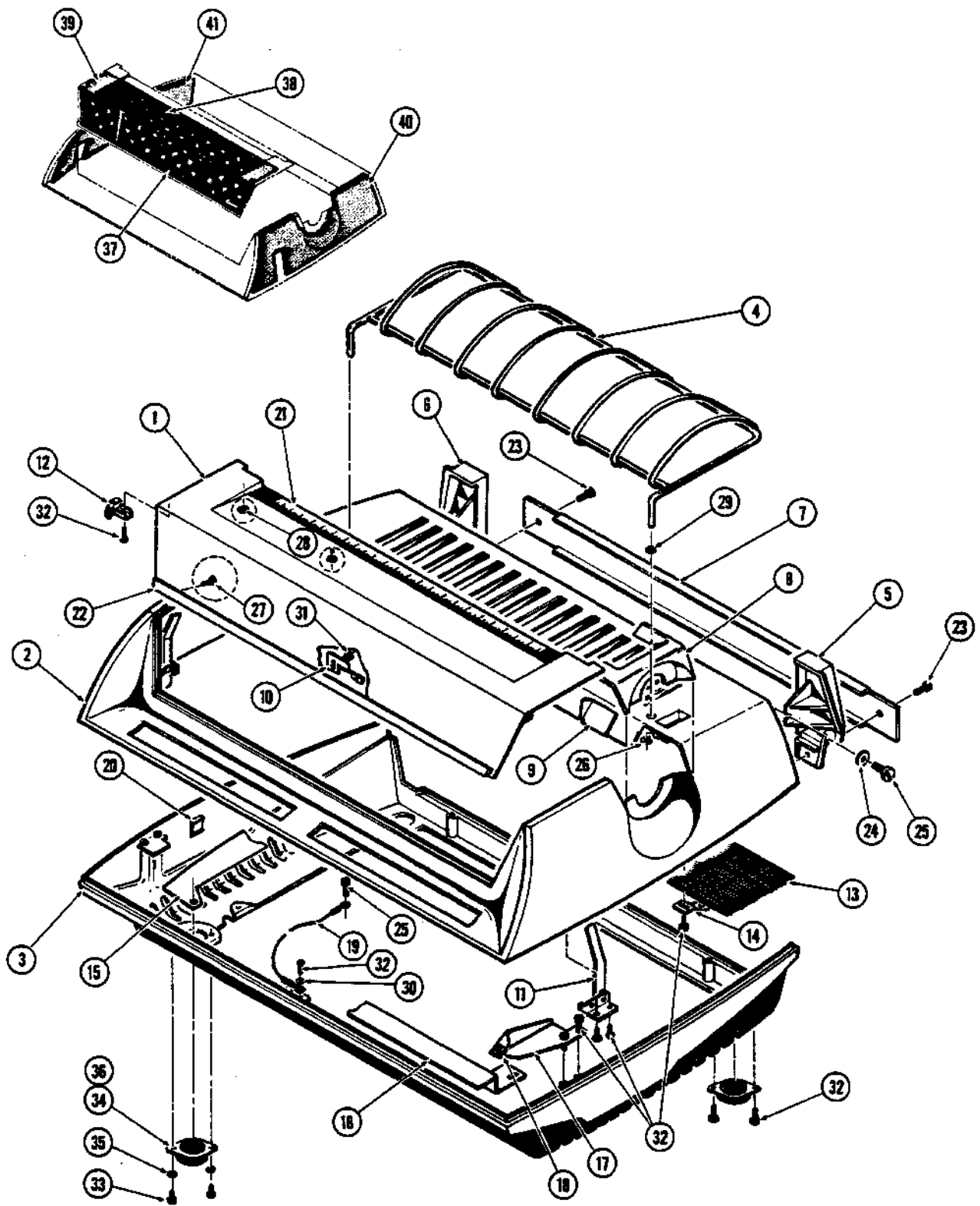


Figure 5-1
400761-XX COVER SET ASSEMBLY, RO, METAL

SECTION V.1

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | | |
|-------------|-----------------|---|-----------|--|
| 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 Control Panel | 400761-51 | Black, for Control Panel |
| | 400578-02 | Top Cover, Very Light Warm Gray—for Control Panel | 400761-52 | Very Light Warm Gray, for Control Panel |
| | 400578-21 | Top Cover, Black—w/o Control Panel | 400761-71 | Black, no Control Panel |
| | 400578-22 | Top Cover, Very Light Warm Gray—w/o Control Panel | 400761-72 | Very Light Warm Gray, no Control Panel |
| 3 | 400577-01 | Bottom Cover | | |
| 4 | 301864-01 | Rack, Cover | | |
| 5 | 24474-01 | Cover, Right Rear | | |
| 6 | 24474-02 | Cover, Left Rear | | |
| 7 | 24472 | Cover Strip, Rear | | |
| 8 | 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 | | |
| 9 | 22904-01 | Paper Index Assembly | | |
| 10 | 400566-01 | Actuator, Switch | | |
| 11 | 46042-01 | Latch Assembly, Right | | |
| | 46042-02 | Latch Assembly, Left | | |
| 12 | 40844-02 | Catch, Access Cover | | |
| 13 | 26119-01 | Screen, Top | | |
| 14 | 23976-01 | 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 | 10924 | Cable Clamp | | |
| 21 | 22932-01 | Scale, Proportional | | |
| 22 | 20780-01 | 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 | 100392-01 | Washer, Flat Trim | | |
| 30 | 70737-06 | Lockwasher, #6 External Tooth | | |
| 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 | 304005-01 | Damping, Access Cover | | |
| 39 | 304006-01 | Soundfoam, Access Cover | | |
| 40 | 304010-01 | Soundfoam, Top Right Side | | |
| 41 | 304010-02 | Soundfoam, Top Left Side | | |

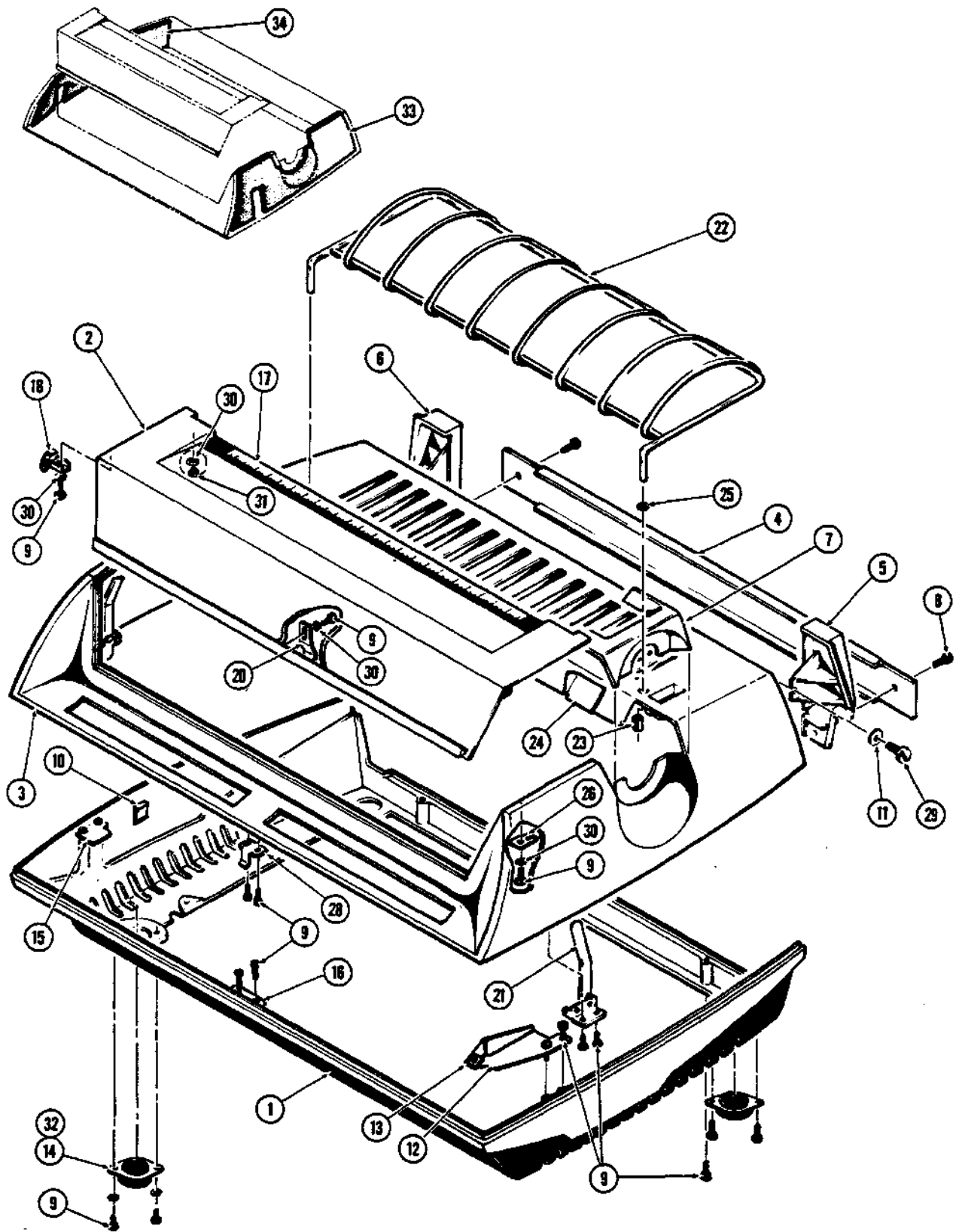


Figure 5-2
320015-XX COVER SET ASSEMBLY, RO, PLASTIC

SECTION V.2

320015-XX COVER SET ASSEMBLY, 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) |
| | | Control Panel | 29 | 70829-06 | Screw, 8-32 X .375 Tx Dr/T.F. |
| | 400577-52 | Bottom Cover, | 30 | 70853 | Washer, #6 Flat |
| | | 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 .375 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 | | | |
| | | Control Panel | | | |
| | 301959-02 | Access Cover, Black—w/o | | | |
| | | Control Panel | | | |
| | 301959-04 | Access Cover, | | | |
| | | Very Light Warm Gray—w/o | | | |
| | | Control Panel | | | |
| 3 | 320014-01 | Top Cover, Black—for | | | |
| | | Control Panel | | | |
| | 320014-02 | Top Cover, | | | |
| | | Very Light Warm Gray | | | |
| | | —for Control Panel | | | |
| | 301946-01 | Top Cover, | | | |
| | | Very Light Warm Gray | | | |
| | | —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 | 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 | 70828-04 | Screw, 6-32 X .250 Tx Dr/T.F. | | | |
| 10 | 10924 | Cable Clamp | | | |
| 11 | 70179-08 | Washer, #8 Flat | | | |
| 12 | 301855-01 | Bracket, Control Panel, Left | | | |
| | | (Note 2) | | | |
| | 301855-02 | Bracket, Control Panel, Right | | | |
| | | (Note 2) | | | |
| 13 | 70702-24 | "U" Nut (Note 2) | | | |
| 14 | 20571-03 | Shock Mount | | | |
| 15 | 20667 | Latch, Stop (Note 3) | | | |
| 16 | 22675 | 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 | | | |
| | 46042-02 | Latch Assembly, Left | | | |
| 22 | 301864-01 | Rack, Cover (Note 2) | | | |
| 23 | 100183-01 | Tip, Vinyl (Note 2) | | | |
| 24 | 22904-01 | Paper Index Assembly | | | |
| 25 | 100392-01 | Washer, Flat Trim (Note 2) | | | |
| 26 | 301945-01 | Striker Plate | | | |
| 27 | | Not Used | | | |

Notes:

(1) Cover Sets, RO, Plastic:

| | |
|-----------|---|
| 320015-01 | Black, for Control Panel |
| 320015-02 | Very Light Warm Gray, for Control Panel |
| 320015-21 | Black, no Control Panel |
| 320015-22 | Very Light Warm Gray, no Control Panel |

(2) Used on 320015-01, -02 assemblies only.

(3) Used on 320015-21, -22 assemblies only.

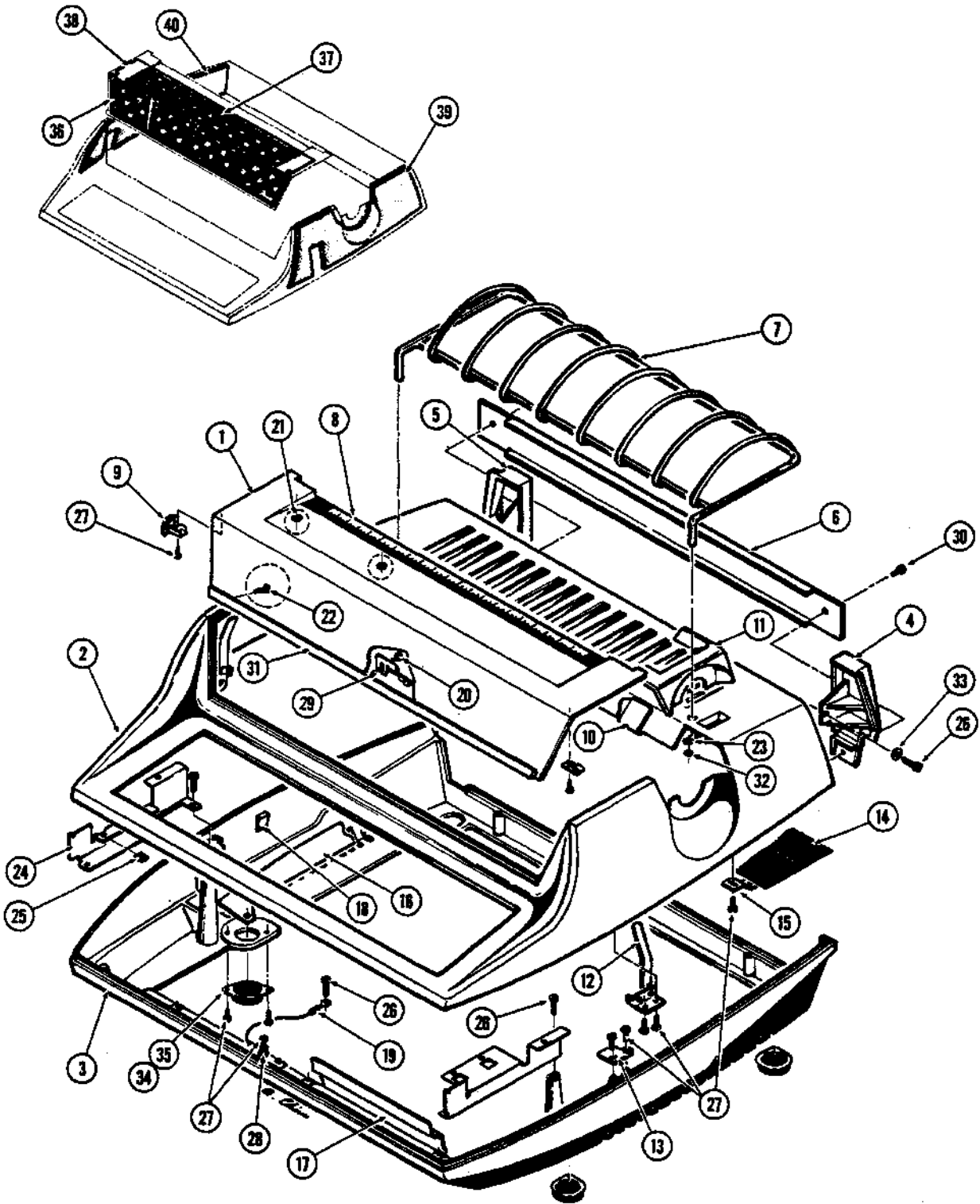


Figure 5-3
400762-XX COVER SET ASSEMBLY, KSR, METAL

SECTION V.3

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

| ITEM | PART NO. | DESCRIPTION | Notes: |
|------|-----------|--|--|
| 1 | 400579-01 | Access Cover Assembly, Black | (1) Cover Sets, KSR, Metal: |
| | 400579-02 | Access Cover Assembly, Very Light Warm Gray | |
| 2 | 400593-01 | Top Cover Assembly, Black--for Control Panel | 400762-51 Black, for Control Panel |
| | 400593-02 | Top Cover Assembly, Very Light Warm Gray--for Control Panel | 400762-52 Very Light Warm Gray, for 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 | 301864-01 | Rack, Cover | |
| 8 | 22932-01 | Scale, Porportional | |
| 9 | 40844-02 | Catch, Access Cover | |
| 10 | 22904-01 | Paper Index Assembly | |
| 11 | 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 | |
| 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 | 70413-03 | Speed Nut | |
| 24 | 400594-01 | Bracket, Keyboard, Left | |
| | 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 | 20790-01 | 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 | 304004-01 | Damping, Access Cover | |
| 37 | 304005-01 | Damping, Access Cover | |
| 38 | 304006-01 | Soundfoam, Access Cover | |
| 39 | 304010-01 | Soundfoam, Top Right Side | |
| 40 | 304010-02 | Soundfoam, Top Left Side | |

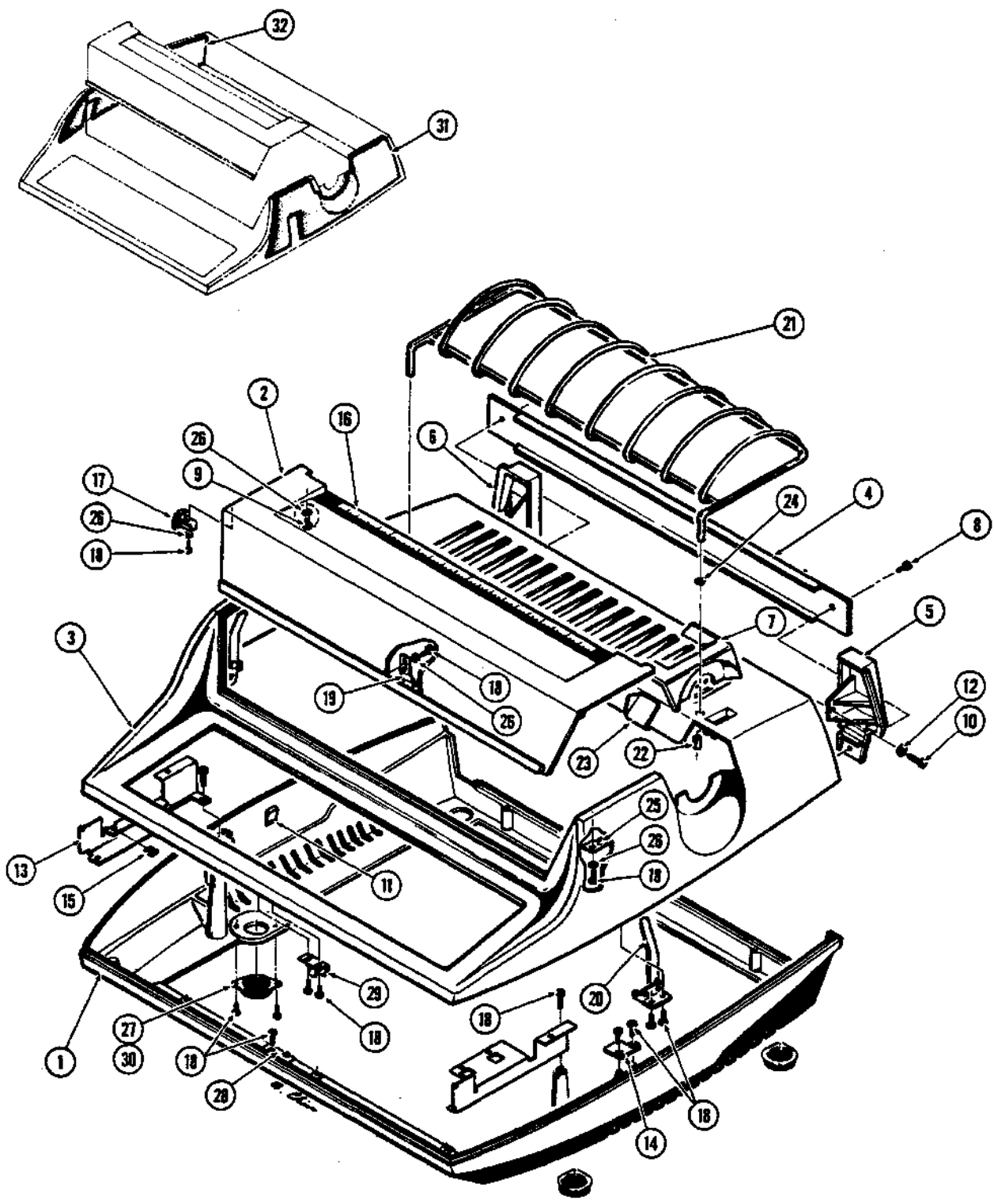


Figure 5-4
 320010-XX COVER SET ASSEMBLY, KSR, PLASTIC

SECTION V.4

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|------------------------------------|
| 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 .375 Tx Dr |
| 31 | 304010-01 | Soundfoam, Top, Right |
| 32 | 304010-02 | Soundfoam, Top, Left |

Notes:

(1) Cover Sets, KSR, Plastic:

| | |
|-----------|----------------------|
| 320010-01 | Black |
| 320010-02 | Very Light Warm Gray |

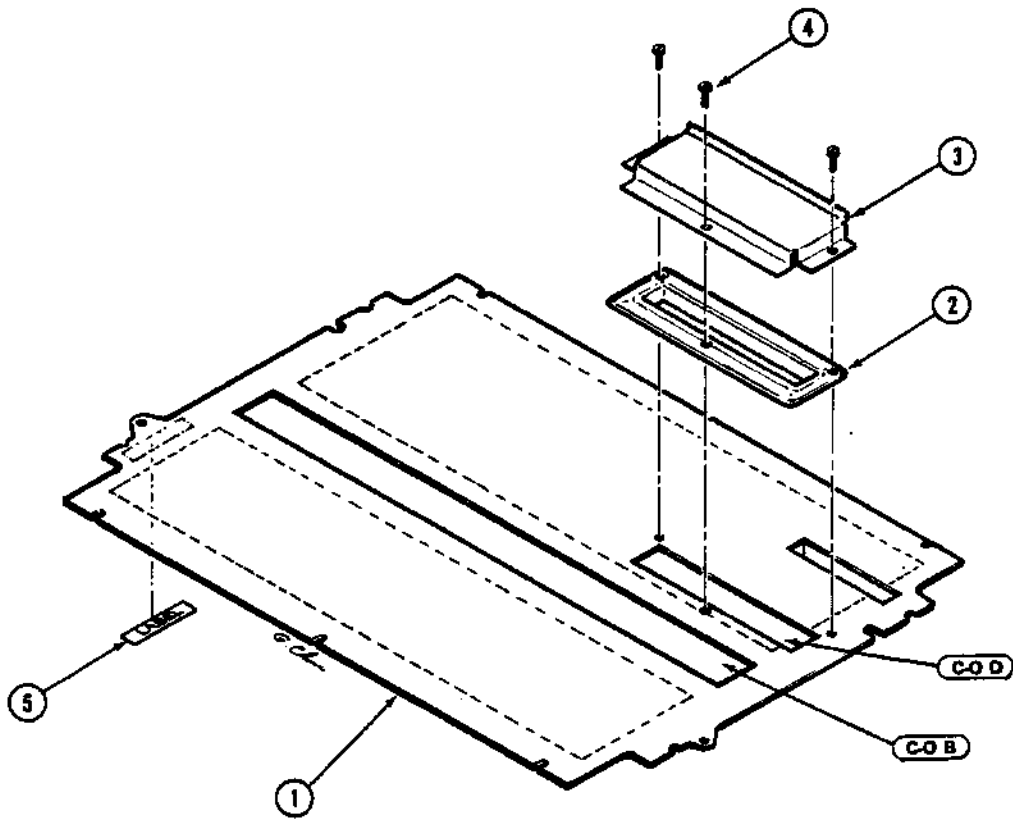


Figure 5-5
301582-XX BOTTOM PAN ASSEMBLY—SHORT

SECTION V.5

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|------------------------------------|
| 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.

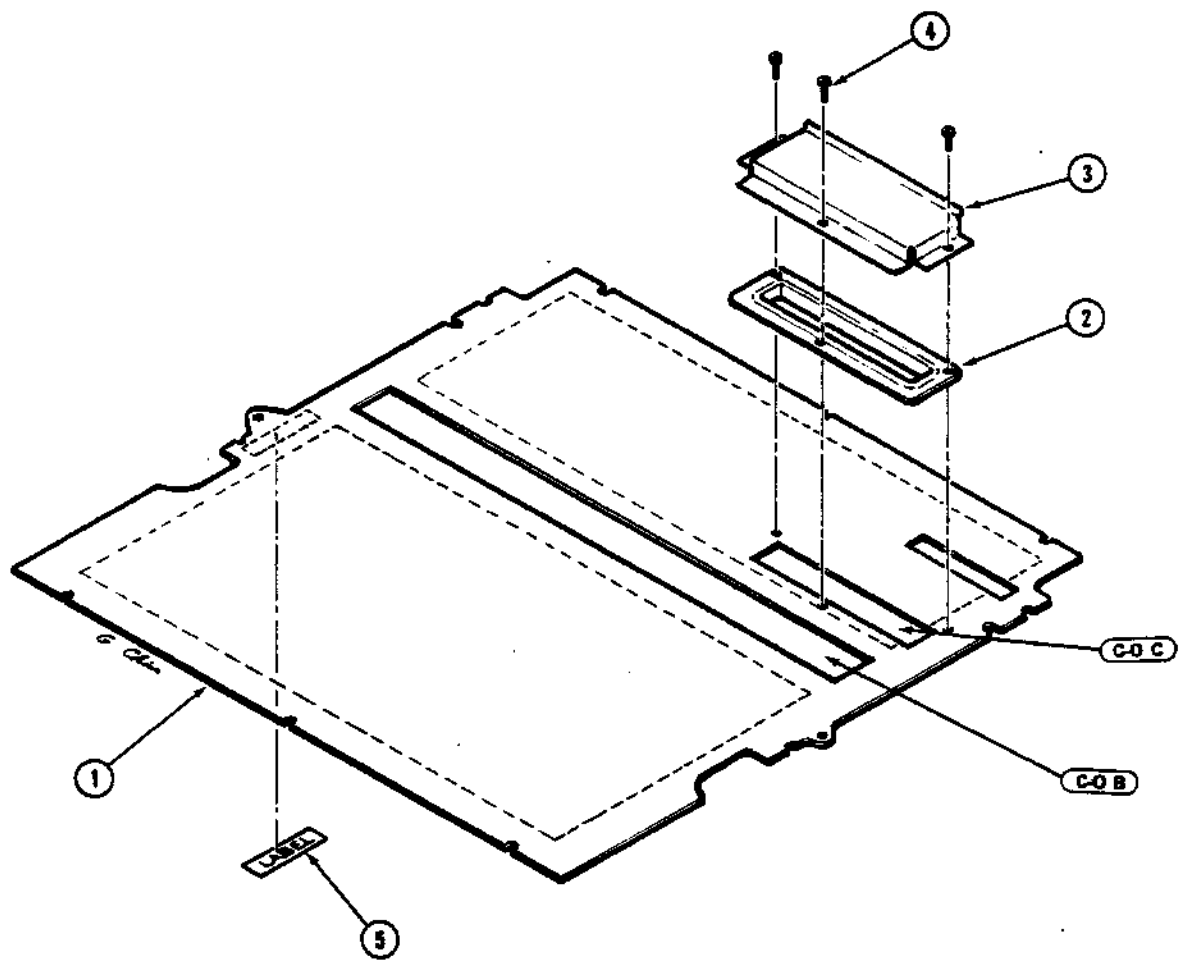


Figure 5-6
301584-XX BOTTOM PAN ASSEMBLY-LONG

SECTION V.6

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

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> |
|-------------|-----------------|-----------------------------------|
| 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

| <u>Part No.</u> | <u>Description</u> |
|-----------------|---|
| 301873-51 | Typewriter Paired Keyboard (Preferred) |
| 400716-51 | Typewriter Paired Keyboard (Alternate) |
| 301873-52 | French AZERTY Keyboard (Preferred) |
| 400716-52 | French AZERTY Keyboard (Alternate) |
| 301873-54 | Scandinavian Keyboard (Preferred) |
| 400716-54 | Scandinavian Keyboard (Alternate) |
| 301873-55 | Norsk Keyboard (Preferred) |
| 400716-55 | Norsk Keyboard (Alternate) |
| 301873-56 | German Keyboard (Preferred) |
| 400716-56 | German Keyboard (Alternate) |
| 301873-57 | APL Keyboard (Preferred) |
| 400716-57 | APL Keyboard (Alternate) |
| 301873-58 | Logical Bit Paired Keyboard (Preferred) |
| 400716-58 | Logical Bit Paired Keyboard (Alternate) |
| 301938-01 | Keyboard Cable Assembly (Note 2) |
| 400555-02 | Keyboard Cable Assembly (Note 3) |
| 400589-01 | Keyboard Mask With Cutouts |
| 400569-02 | Keyboard Mask Without Cutouts |
| 70691 | Screw, 6-20 X .500 P.H. |
| 70737-06 | Lockwasher, #6 Ext Tooth |

Notes:

(1) Keyboard Options:

| | |
|-----------|------------------------------------|
| 400773-00 | Typewriter Paired Keyboard Option |
| 400773-10 | French Azerty Keyboard Option |
| 400773-20 | Norsk Keyboard Option |
| 400773-30 | Scandinavian Keyboard Option |
| 400773-40 | German Keyboard Option |
| 400773-50 | APL Keyboard Option |
| 400773-60 | Logical 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

| <u>Part No.</u> | <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

| <u>Part No.</u> | <u>Description</u> |
|-----------------|--|
| 23744-15 | Extension Cable (ELA) 15 Ft. |
| 46095-02 | Extender Card |
| 400625-02 | Touch-up Lacquer, Very Light Warm Gray |
| 400625-04 | Touch-up Lacquer, Warm Black |

PAPER HANDLING

| <u>Part No.</u> | <u>Description</u> |
|-----------------|--------------------------------|
| 305028-01 | HyFeed Sheet Feeder (Note 1) |
| 305028-01 | 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"

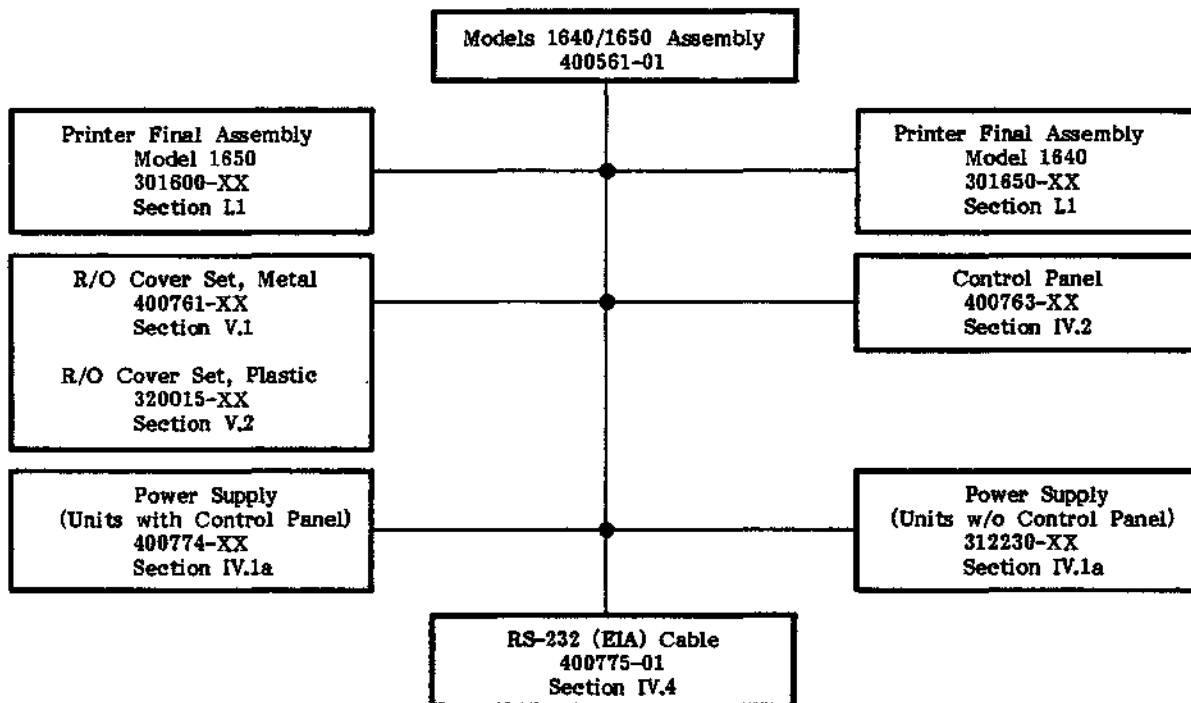
FINAL ASSEMBLY CONFIGURATIONS

| | 1365WP No HPRO4 | 1365WPP Parallel | 1365WPS Serial/Parallel | 1345A No HPRO4 | 1345P Parallel | 1345S Serial/Parallel |
|-------------------|-----------------|------------------|-------------------------|----------------|----------------|-----------------------|
| <u>Model 1650</u> | | | | | | |
| 301600-01 | | | X | | | |
| 301600-02 | | X | | | | |
| 301600-03 | X | | | | | |
| <u>Model 1640</u> | | | | | | |
| 301650-01 | | | | | | X |
| 301650-02 | | | | | X | |
| 301650-03 | | | | X | | |

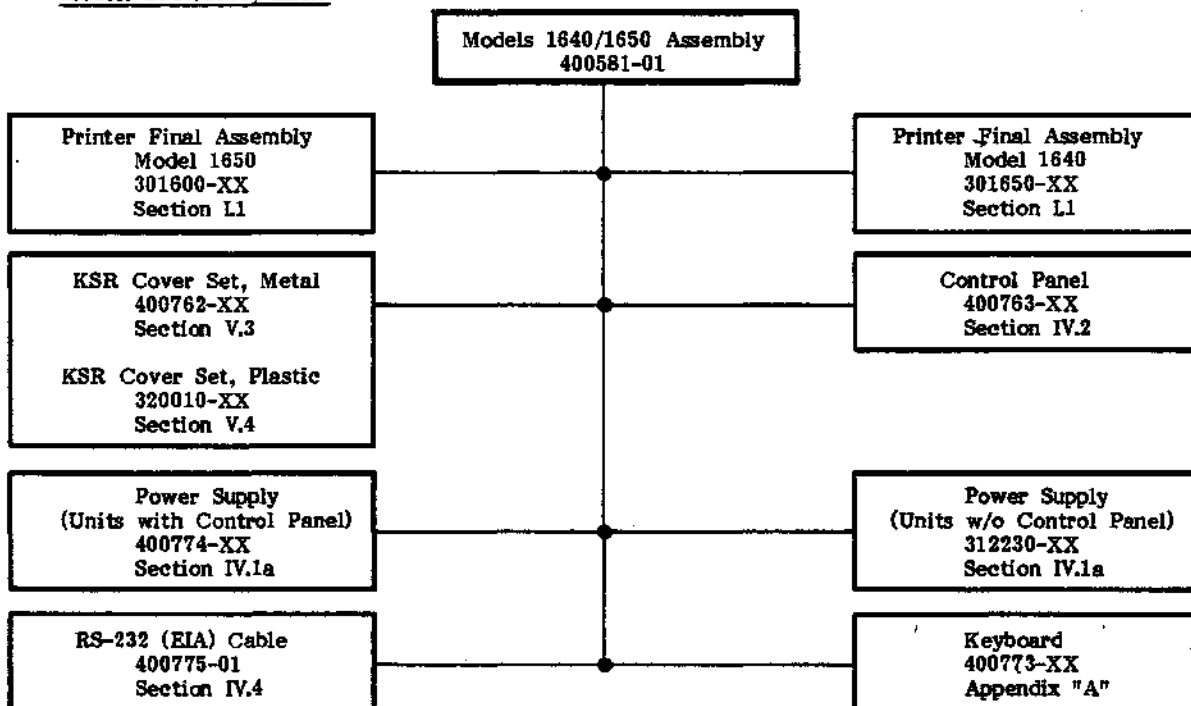
APPENDIX "C"

1640/1650 TERMINALS GUIDE CHART

Models 1640/1650, R/O:



Models 1640/1650, KSR:



APPENDIX "D"

320160-XX PIN FEED PLATEN ASSEMBLIES

| <u>ASSEMBLY NO.</u> | <u>PAPER WIDTHS (inches)</u> | <u>CORE NO.</u> |
|---------------------|----------------------------------|-----------------|
| 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 |

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|--------------------------|---|-----------------|----------------------|------------------------------------|
| | <u>DIODES</u> | | | <u>MISCELLANEOUS</u> | |
| 10160 | 1N4454 | B17,B42,B50 B52,B56,C15 C39,C40,C50 C51,F40,F41 G36,G37,G38 G39,G65,G66 H47,H53 | 22753 | Jumper Module | G23,D33 |
| | | | 10626-00 | Switch, Toggle | A36,A67 |
| | | | 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 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) |
| | <u>TRANSISTORS</u> | | 70812 | Insulator | (Between transistor and Heat Sink) |
| 13070 | PN3644 | C44,D5,D21 D43,D50,D58 D64,E35,G67 H18,H35,H50 H67 | | | |
| 13013 | 2N4401 | C4,C19,C65 E58,F16,F32 F45,F48,F64 G47,H61 | | | |
| 10444-01 | 2N5322 | E6,E22 | | | |
| 10443-01 | 2N5320 | E14,E30,H59 | | | |
| 10445-01 | 2N6103 | C10,C26,G10 G26 | | | |
| 13007 | TIP125 | C73 | | | |
| | <u>LC's</u> | | | | |
| 10165 | 72747 | A45,E74 | | | |
| 10166 | 748 | A19,A31 | | | |
| 10168 | 319 | A64 | | | |
| 100300-01 | Resistor Network, 10K | A50,A51 | | | |

Notes:

- (1) Thermal compound #10549 required between power transistors, insulators and Heat Sink.

SECTION IL9

400568-01 H4CPN PCB ASSEMBLY

| <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>LOCATION(S)</u> |
|-----------------|-------------------------|--|-----------------|----------------------------|--|
| | <u>RESISTORS</u> | | | <u>MISCELLANEOUS</u> | |
| 10022-15 | 150 Ohm 1/4W 5% | R1,R2,R3,R4 R5,R6,R7,R8 R9,R10,R11 R13 | 42503-01 | Buzzer | DS1 |
| | | | 70027-05 | Screw, 2-56 X .312 P.H. | DS1 |
| 10224-10 | Pot., 1K 1/2W 10% | R12 | 70168-02 | Lockwasher, #2 | DS1 |
| | | | 100065-03 | Switch, 4 X SPDT | S1,S2,S3 |
| | <u>CAPACITORS</u> | | 42501-10 | Switch, SPDT | S8,S9,S10 S11 |
| 10038-01 | .1uF 50V | C2,C3,C4,C5 C6,C7,C8 | 42502-10 | Switch SPDT, Momentary | S4,S5,S6,S7 |
| 10410-22 | 22uF 15V | C1 | 14022-03 | Spacer | CR1,CR2,CR3 CR4,CR5,CR6 CR7,CR8,CR9 CR10,CR11 CR13 |
| 10077-22 | 22uF 35V | C9 | | | |
| | <u>DIODES</u> | | | | |
| 10160 | 1N4454 | CR12 | 70166-02 | Nut, 2-56 | DS1 |
| 14005-01 | L.E.D. Red | CR1,CR2,CR3 CR4,CR5,CR6 CR7,CR8,CR9 CR10,CR13 | | | |
| 42222-01 | L.E.D. Green | CR11 | | | |
| | <u>LC's</u> | | | | |
| 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 | | | |