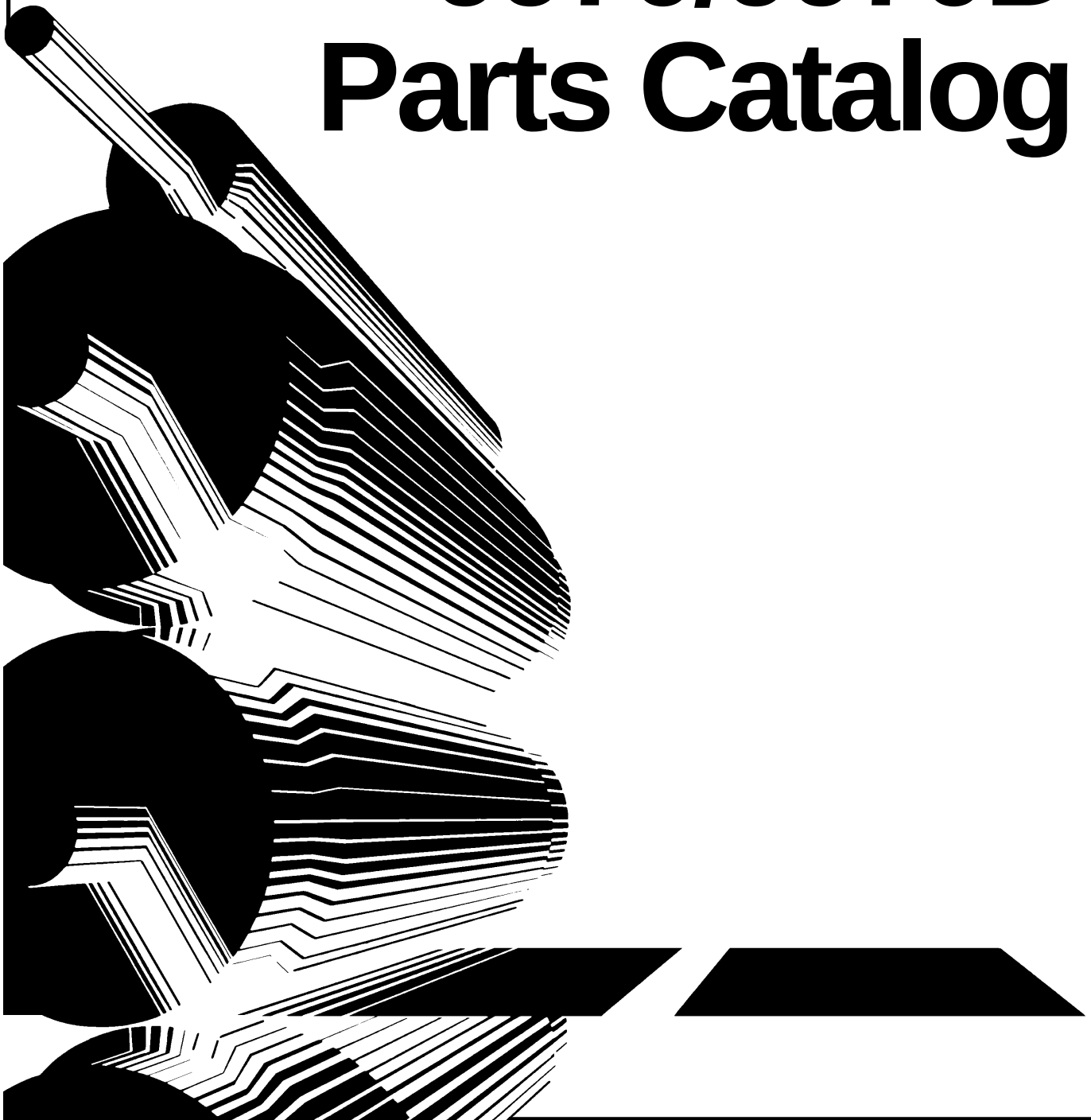




9970/9970D Parts Catalog



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Parts Catalog

GENERAL INFORMATION

PARTS IDENTIFICATION AND ORDERING INSTRUCTIONS

- I. Order Repair Parts by part number only. Do not order by figure and index numbers.
- II. In some instances you will see two or more of the same index number with different part numbers. In such cases, please read the full description for your particular needs.
- III. The following symbols and abbreviations are used consistently as aids in identification:
 - A. Symbols
 1. (*)Part of an assembly and not sold separately.
 2. (***) Are used for all other pertinent remarks.
 - B. Abbreviations
 1. OS = Operator Side
 2. NOS = Non-operator Side
 3. I.D. = Inside Diameter
 4. O.D. = Outside Diameter
 5. O.A.L. = Overall Length
 6. V. = Volts
 7. Hz. = Cycles Per Second
 8. Amp. = Amperes
 9. Dia. = Diameter
 10. HP. = Horse Power
 11. A/R = As Required

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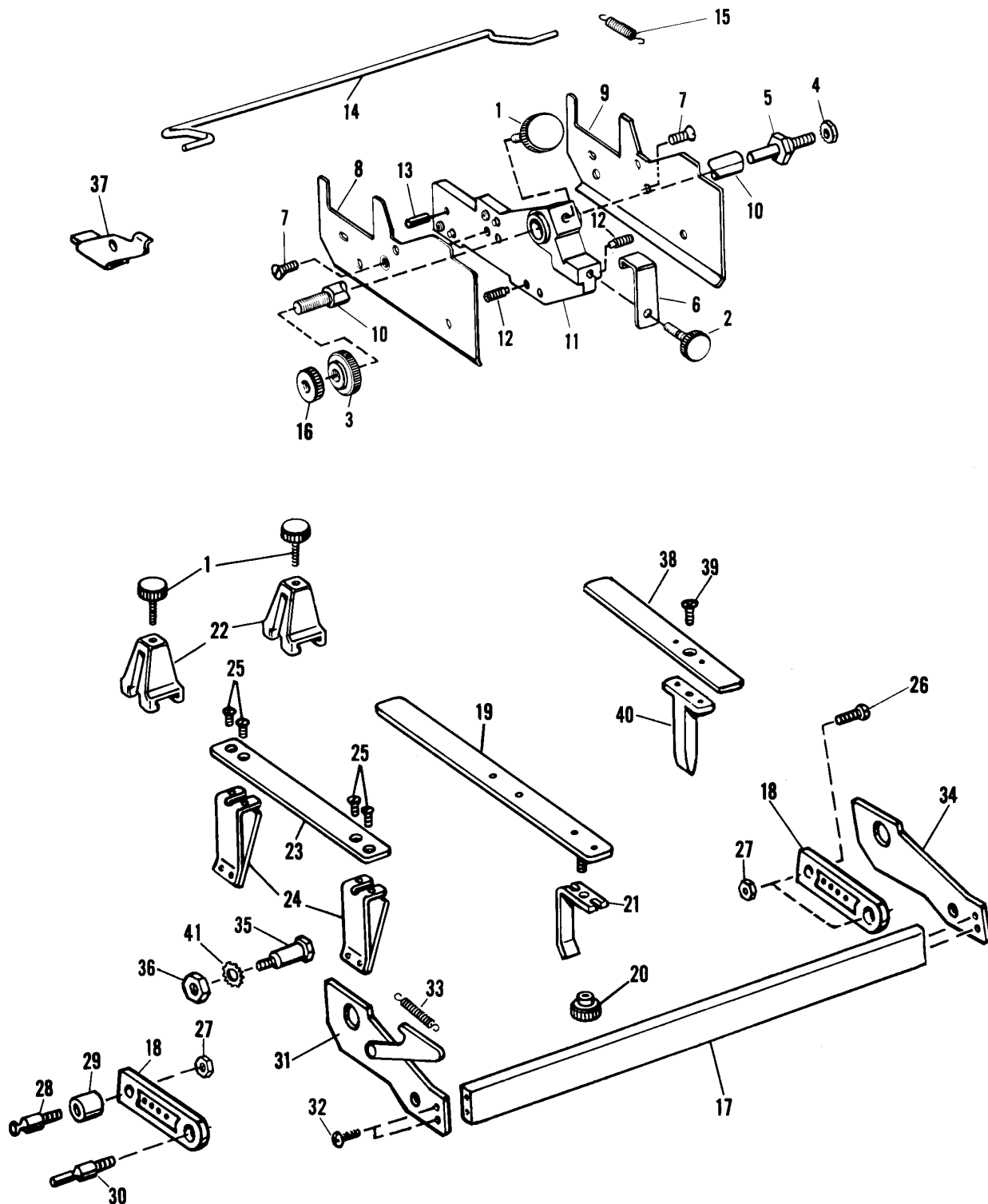


FIGURE 1
Paper Guides and Mounting Bar

Parts Catalog

Index No.	Part No.	Figure 1 Description	Units Per Assy.
1	073394	KNOB - Lock, 1/4-28 x 5/8	3
2	075890	KNOB - Lock, 1/4-28 x 1-1/32	1
3	075887	KNOB - Dual Micro Guide, 3/8-24	1
4	150085	NUT - 1/4-28	1
5	194897	STUD - Adjusting	1
6	075888	PLATE - Retainer	1
7	100583	SCREW - 1/4-28 x 1/2	2
8	400657	PLATE - O.S., Micro Guide	1
9	400658	PLATE - N.O.S., Micro Guide	1
10	007862	SHAFT - Micro Guide	1
11	400656	BRACKET - Micro Guide Adjustment Assembly	1
12	100177	SCREW - Set, 1/4-28 x 1/2	4
13	100579	PIN - Roll, .199 O.D. x .640 O.A.L.	1
14	007661	PAPER WEIGHT - Standard	1
14	007809	PAPER WEIGHT - Light Weight	1
15	072511	SPRING - 250 O.D. x 1.125 O.A.L.	1
16	196171	KNOB - Dual Micro Guide, 3/8-24	1
17	008038	BAR - Mounting, Long	1
18	076893	STOP - Paper Guides	2
19	007689	PLATE - Center	2
20	072292	NUT - Thumb, 1/4-20	2
21	073467	GUIDE - Back, Stock Retainer	2
22	073385	CLAMP - Adjusting	3
23	073469	PLATE - Retainer, Spring	1
24	073472	SPRING - Guide Retainer	2
25	014225	SCREW - 8-32 x 1/4	4
26	111075	SCREW - 1/4-28 x 7/8	2
27	150085	NUT - 1/4-28	4
28	072197	STUD	1
29	195367	SPACER - 7/16 O.D. x .255 I.D.	4
30	196231	ANCHOR - Spring, 1 15/32 O.A.L.	1
31	076890	PLATE - Side, O.S.	1
32	111055	SCREW - 10-32 x 9/16	4
33	192142	SPRING - 1.000 O.A.L.	1
34	076889	PLATE - Side, N.O.S.	1
35	195140	NUT - Adapter	1
36	014807	NUT - 1/4-28	1
37	076887	BRACKET - Stop	1
38	073463	PLATE - Side Guide	1
39	014171	SCREW - 10-32 x 3/4	1
40	073464	GUIDE - Side, Stock Retainer	1
41	001740	LOCKWASHER	1

Parts Catalog

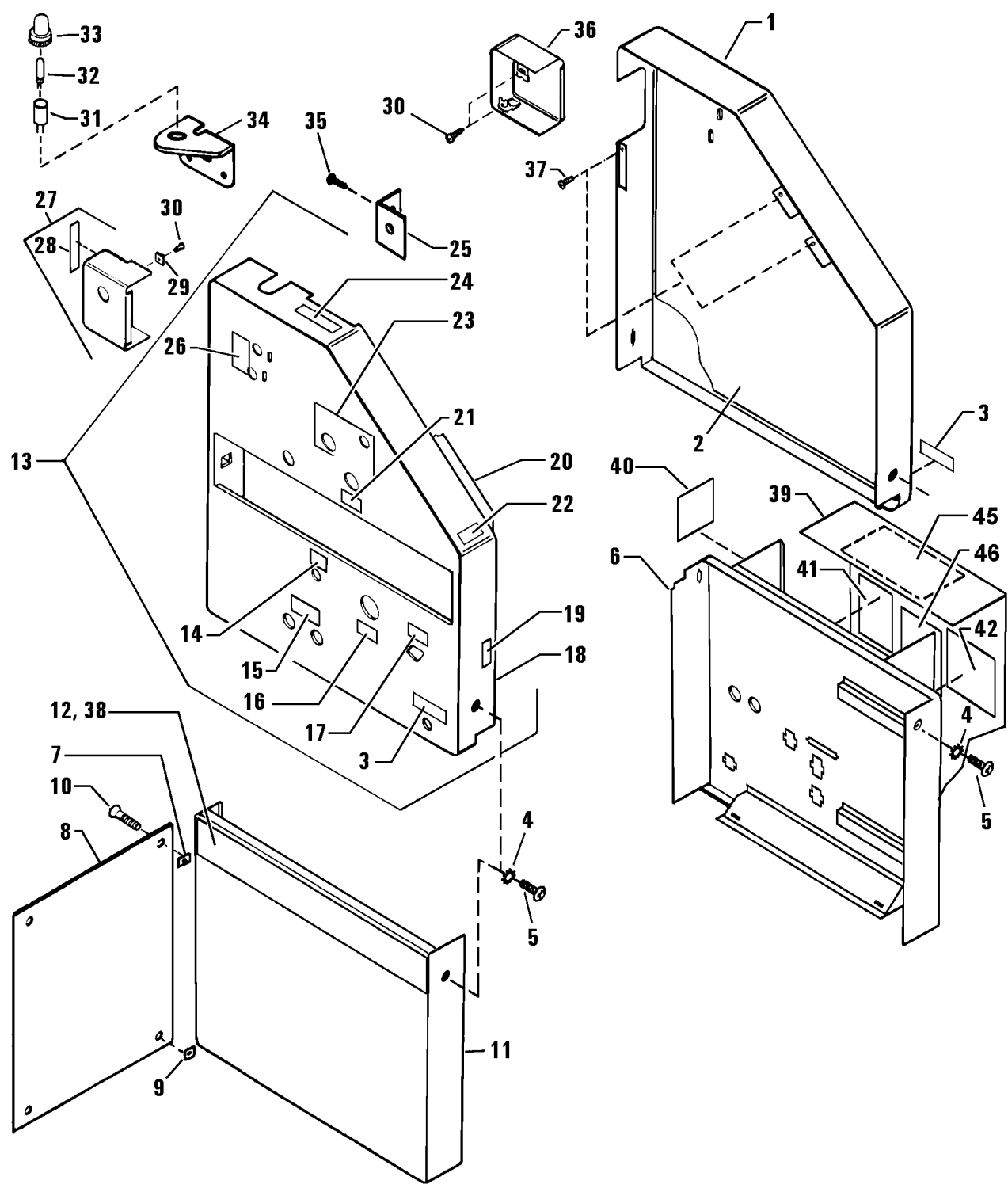


FIGURE 2
Cover Assemblies

Parts Catalog

Index No.	Part No.	Figure 2 Description	Units Per Assy.
1	402941	COVER ASSEMBLY - Top N.O.S.	1
1	402941B	COVER ASSEMBLY - Top N.O.S. (Black)	1
2	402961	SCREW - 10-16 x 1/2	1
3	172857	DECAL - Lateral Paper Adjust	1
4	100485	WASHER - Lock, Countersunk #10	8
5	196222	SCREW - Painted, 10-32 x 5/8	8
6	403425	COVER/CONTROL BOX ASSEMBLY	1
6	403425B	COVER/CONTROL BOX ASSEMBLY (Black)	1
7	101981	NUT - Speed, U Type .180	2
8	101550	PANEL - Rear, Flat	1
8	101550B	PANEL - Rear, Flat (Black)	1
9	101982	NUT - Speed Type .276	2
10	101550	SCREW - 1/4-2/8 x 5/8	4
11	402978	COVER ASSEMBLY - Lower, O.S.	1
11	402978B	COVER ASSEMBLY - Lower, O.S (Black).	1
12	403486	LOGO - Stripe 9970	1
12	403415	LOGO - 9970 (For Black Machine)	1
13	403940	COVER ASSEMBLY - O.S (9970).	1
13	403940B	COVER ASSEMBLY - O.S. (9970, Black).	1
13	402943	COVER ASSEMBLY - O.S. (9970D)	1
13	402943B	COVER ASSEMBLY - O.S. (9970D, Black)	1
14	017604	DECAL - Buckle.	1
15	017606	DECAL - Air/Vac Control	1
16	402964	DECAL - Table Crank	1
17	402965	DECAL - Table Raise	1
18	402959	PANEL - Sound, Top, O.S.	1
19	017605	DECAL - Paper Height	1
20	402960	PANEL - Sound, Top, O.S.	1
21	402963	DECAL - Image Raise/Lower	1
22	402966	DECAL - Maximum Load	1
23	017094	DECAL - Oper. Cont.	1
24	017603	DECAL - Repel Cont.	1
25	083648	BRACKET - Angle	1
26	017607	DECAL - Form Roller	1
27	017537	COVER ASSEMBLY - Ink, O.S.	1
27	017537B	COVER ASSEMBLY - Ink, O.S. (Black)	1
28	017541	DECAL - Ink	1
29	000884	NUT - Speed	2
30	014311	SCREW - 8-15 x 5/8	8
31	253561	HOUSING - Lamp	1
32	253563	LAMP - 6.3 V	1
33	253562	LENS CAP - Red	1
34	022838	BRACKET - Mounting, Alarm Light	1
35	001259	SCREW - 10-16 x 1/2	1
36	017539	COVER ASSEMBLY - Ink, N.O.S.	1
36	017539B	COVER ASSEMBLY - Ink, N.O.S. (Black)	1
37	001259	SCREW - 10-16 x 1/2	1
38	403487	LOGO - 9970D	1
38	403473	LOGO - 9970D (For Black Machine)	1
39	025450	COVER ASSEMBLY WITH DECALS	1
39	025450B	COVER ASSEMBLY WITH DECALS (Black)	1
40	403418	DECAL - Control Box	1
41	402238	DECAL - Motor Conn.	1
42	403419	DECAL - Control Box Connectors	1
43	025405	GASKET	1
44	400545	LABEL - Shock	1
45	403412	DECAL - Wiring Diagram	1
46	403413	DECAL - Component ID	1

Parts Catalog

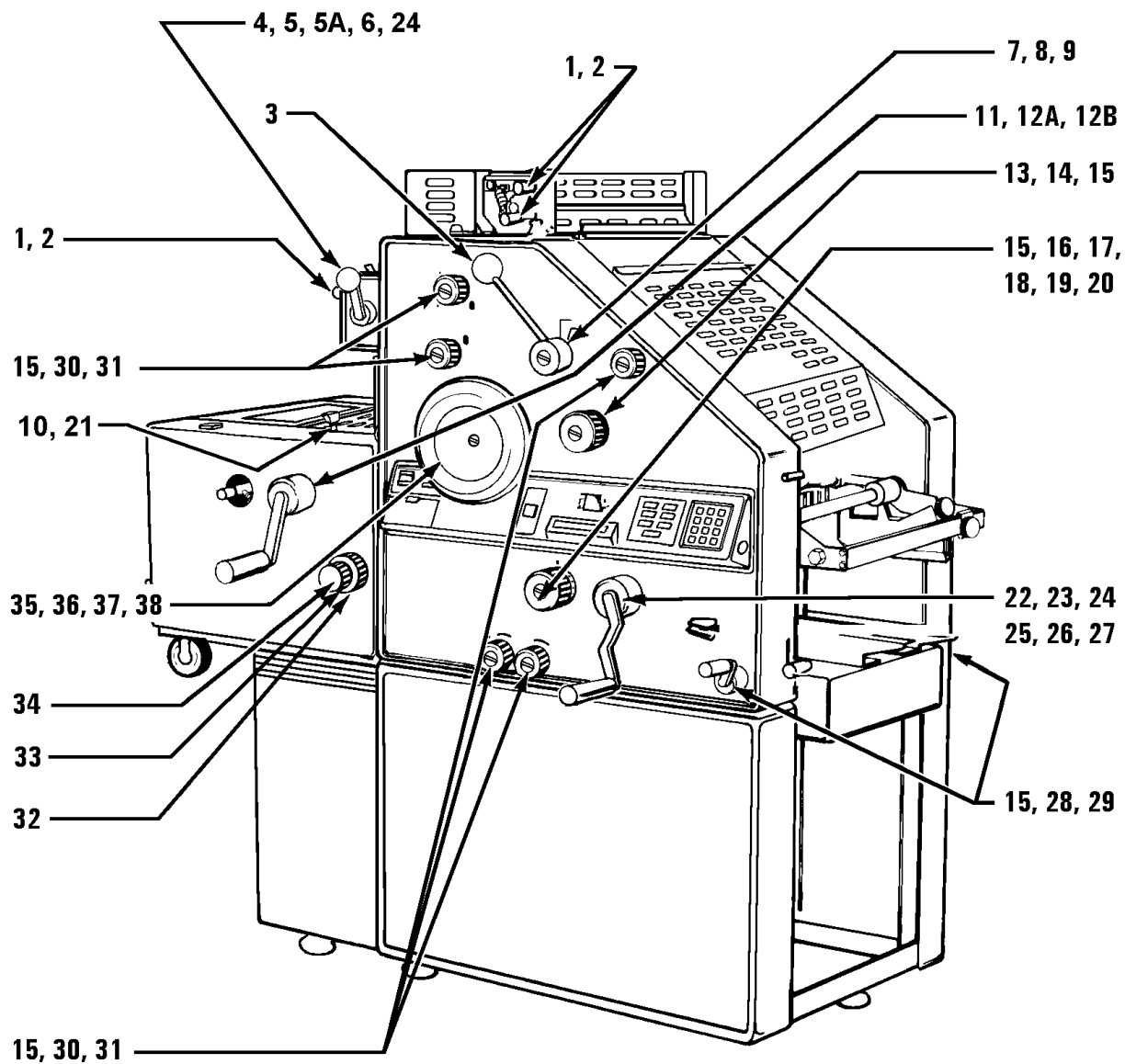


FIGURE 2A
Knobs, Handles and Cranks

Parts Catalog

Index No.	Part No.	Figure 2A Description	Units Per Assy.
1	011371	HANDLE	3
2	072052	LOCK - Spring	3
3	017819	KNOB	1
4	196219	CRANK HANDLE KNOB	1
5	017787	CRANK ASSEMBLY	1
5A	017788	CRANK HANDLE - 9910XCD/9910XCS	1
6	014215	SCREW -10-32 x 3/8	1
7	196249	SCREW - Shoulder, 14 - 28	1
8	017744	LEVER - Control	1
9	197456	PIN - Spiral, .168 O.D. x .635 O.A.L.	2
10	001552	SCREW - 8-32 x 3/8	1
11	017714	CRANK ASSEMBLY - Table Raise	1
12A	017715	HANDLE	1
12B	003042	HANDLE LOCK	1
13	196248	SCREW - Special, 10-32 x 7/8	1
14	017739	KNOB - Print Adjusting,	1
15	039642	RING - Vinyl, .135 x .075	9
16	196247	SCREW - Special, 10-32 x 1-1/8	1
17	017806	KNOB ASSEMBLY - Buckle Adjusting	1
18	014529	RIVET - Drive, #2 x14	3
19	017750	DIAL - Buckle Adjusting Knob	1
20	017738	KNOB - Buckle Adjusting	1
21	016921	KNOB	1
22	083432	HAND CRANK ASSEMBLY	1
23	017715	HANDLE	1
24	003042	HANDLE LOCK	1
25	014909	PIN - Roll # 5.	1
26	*	HAND CRANK WITH STUD	1
27	072620	SCREW - Shoulder, 10-32	1
28	196244	SCREW	2
29	017595	CRANK ARM ASSY.	2
30	196246	SCREW - Dowel, 14-28	5
31	017735	KNOB	5
32	017582	KNOB ASSEMBLY - Back Jogger Adjusting	1
33	016574	WASHER - .315 I.D. x .687 O.D. x .047	1
34	016933	KNOB - Back Jogger	1
35	401997	HANDWHEEL	1
36	001781	SNAPRING	1
37	071398	HANDWHEEL DISK	1
38	195088	SCREW - Handwheel	1

*Not Procurable Separately

Parts Catalog

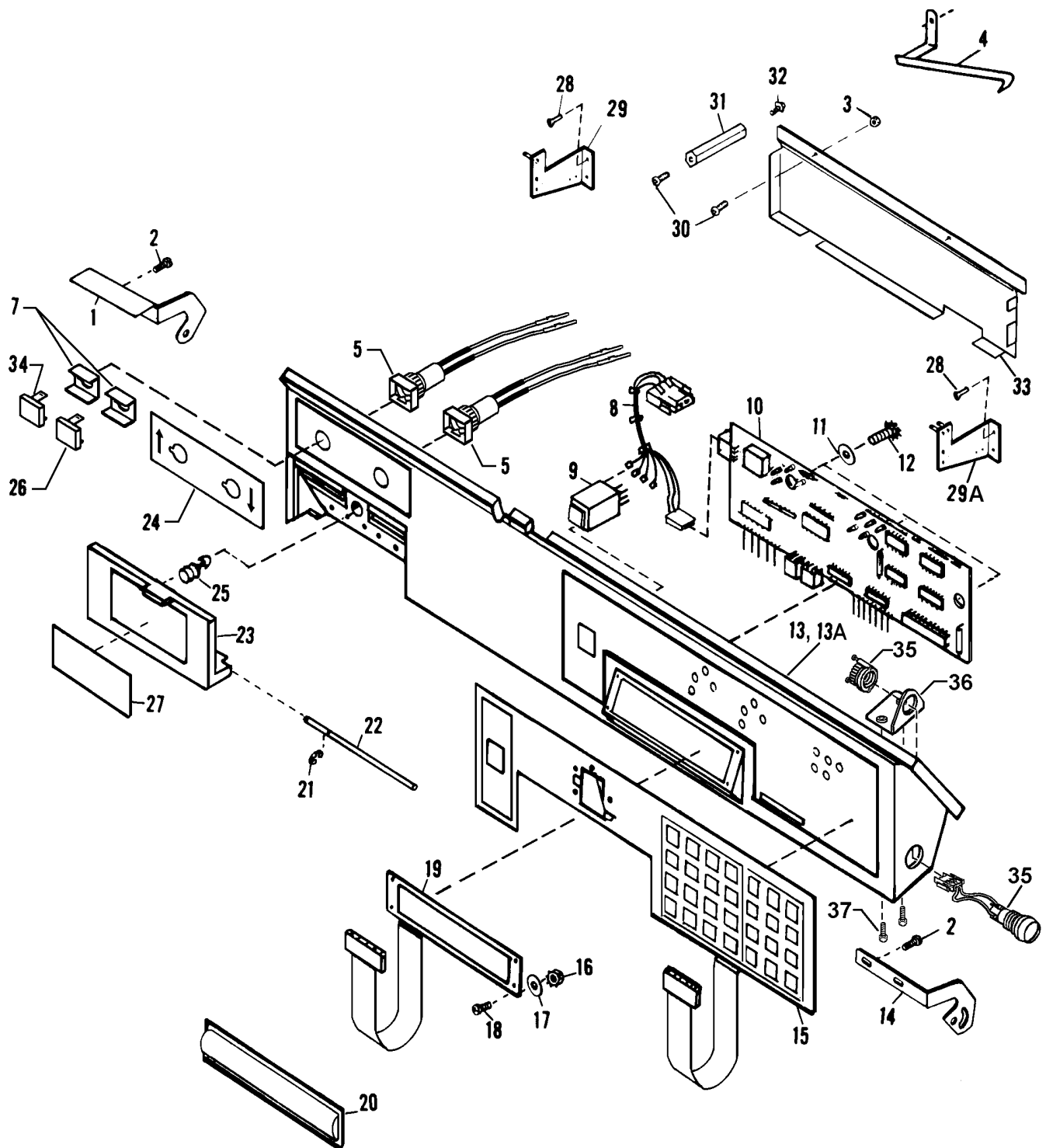


FIGURE 3
Control Panel

Parts Catalog

index No.	Part No.	Figure 3 Description	Units Per Assy.
1	016895	BRACKET - Hinge	1
2	001279	SCREW - #8 x 1/2	4
3	150081	NUT - 8-32	1
4	016896	BRACKET - Cable	1
5	402637	SWITCHASSEMBLY-Drive/Inch	2
6	025683	RETAINER - P.C. Board Cover (Not Illustrated)	1
7	253832	GUARD - Switch Protection,	2
8	022831	HARNESS - Guard Reset	1
9	253551	SWITCH - Pushbutton, Lighted SPDT	1
10	008156	PCBOARDASSEMBLY	1
11	014797	WASHER - Plain, .172 I.D. x .375 O.D. x .029	3
12	001661	SCREW - 8-32 x 5/16	3
13	403421	PANEL ASSEMBLY - Control	1
13A	400822	PANEL - Control	1
14	017799	BRACKET - Hinge	1
15	403101	MEMBRANE - Switch Panel	1
16	100228	NUT - 4-40	4
17	191800	WASHER - Plain, 1/8 I.D. x 5/16 O.D. x 1/32	4
18	101570	SCREW - 4-40 x 1/2	4
19	025359	LCDASSEMBLY	1
20	025139	BEZEL - LCD	1
21	014507	RING - Retaining (1/8 shaft)	1
22	025137	SHAFT - Pivot	1
23	025136	COVER - Control Panel	1
24	022796	LABEL - Speed	1
25	101758	FASTENER - Treelock	1
26	253830	LENS - Green	2
27	022777	NAMEPLATE	1
28	001220	SCREW - 10-32 x 3/8	4
29	017797	BRACKET - Pivot, Left	1
29A	017163	BRACKET - Pivot, Right.....	1
30	112652	SCREW - 8-32 x 9/16	3
31	196262	SPACER	2
32	111054	SCREW - 10-32 x 1/2	2
33	025142	COVER - PC Board	1
34	253831	LENS - Yellow	1
35	402630	SWITCHASSEMBLY - Aux. Start.....	1
36	400824	BRACKET	1
37	001577	SCREW	2

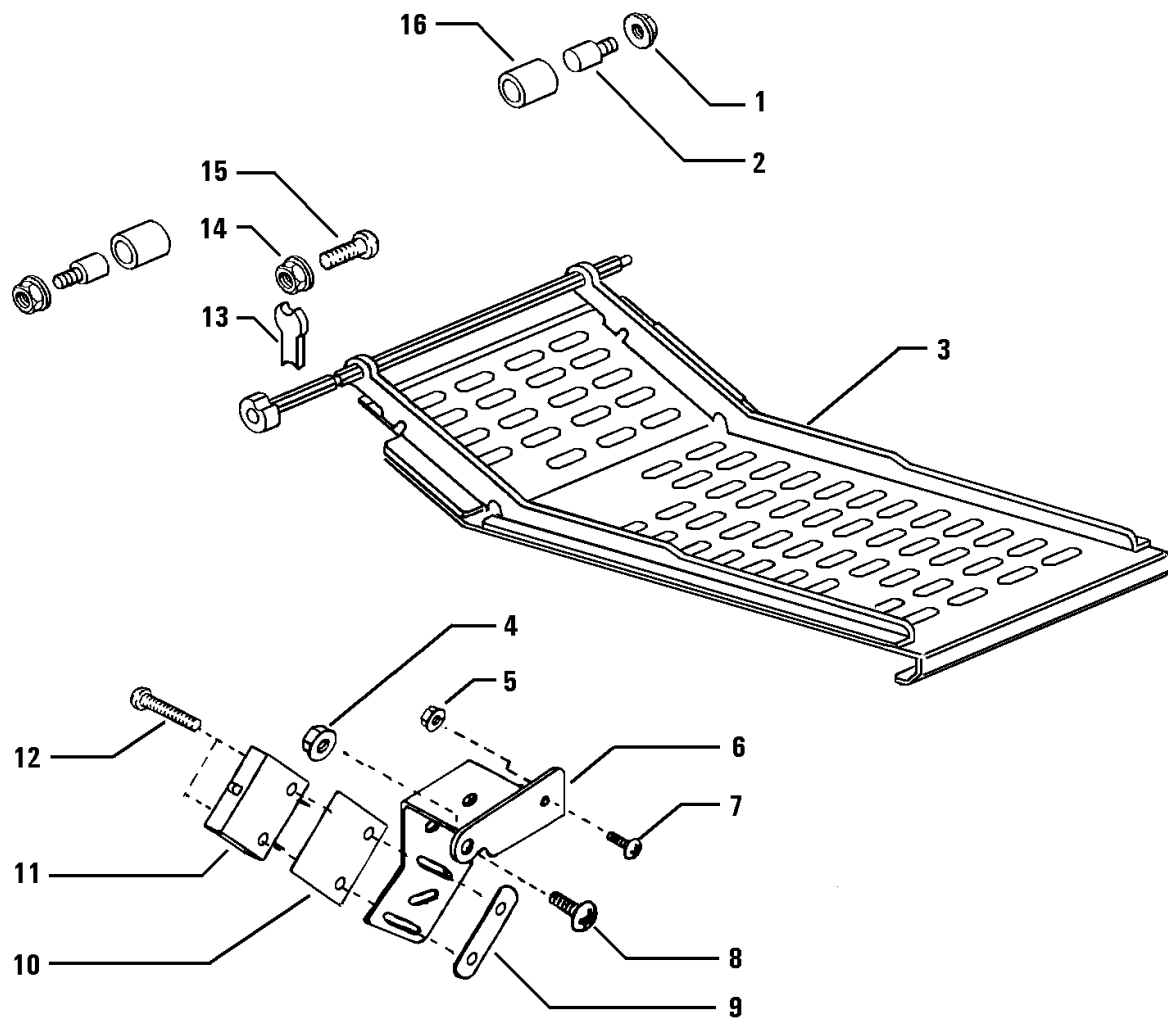


FIGURE 4
Safety Guard - Blanket Cylinder

Parts Catalog

Index No.	Part No.	Figure 4 Description	Units Per Assy.
1	402786	NUT - 10-32	2
2	074717	STUD - Stop	2
3	402786	GUARD ASSEMBLY - Master/Blanket	1
4	150085	LOCKNUT	1
5	150083	NUT - 10-32	1
6	025386	BRACKET - Switch	1
7	001555	SCREW - 10-32 x 1/2	1
8	001594	SCREW - 1/4-28 x 1/2	1
9	111006	NUTPLATE - 4-40	1
10	254475	INSULATION - Switch	1
11	253822	SWITCH	1
12	100961	SCREW	2
13	402754	FILLER PLATE - Guard Shaft Retainer	1
14	150085	NUT - 1/4-28	1
15	001594	SCREW - 1/4-28 x 1/2	1
16	402755	BUMPER - Rubber	2

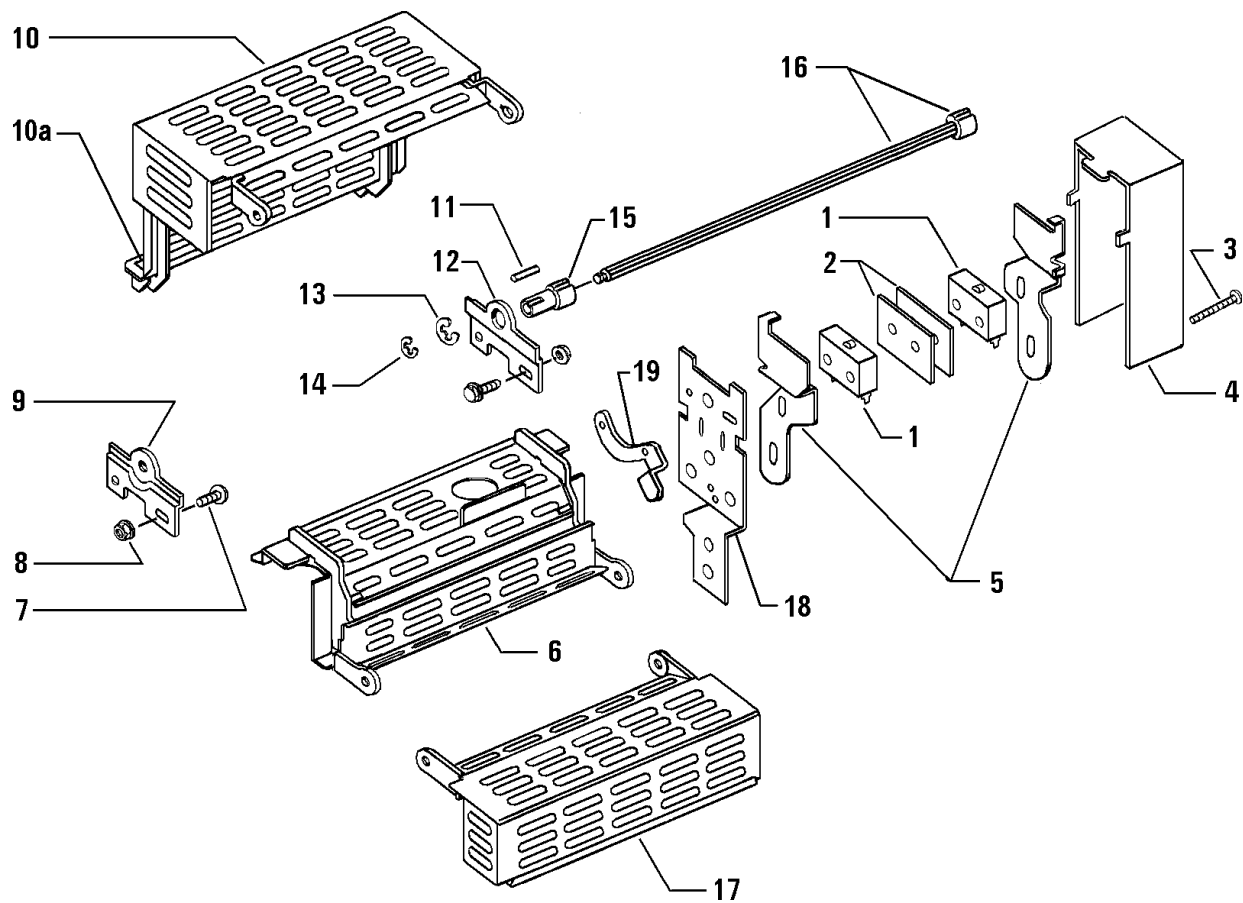


FIGURE 5
9970/9970D Safety Guard - Aquamatic, Non-Motorized Dampener and Ink

Parts Catalog

Index No.	Part No.	Figure 5 Description	Units Per Assy.
1	253211	SWITCH - SAFETY Guards	2
2	254475	INSULATION - Switch	2
3	101983	SCREW - 6-32 x1-5/8	3
4	010388	COVER - Switches	1
5	402016	BRACKET ASSEMBLY - Switches	2
6	402784	GUARD - Aquamatic/Super Aquamatic - 9970	1
7	111070	SCREW - 1/4-28 x 7/16	4
8	150085	NUT - 1/4-28	4
9	010378	BRACKET - O.S.	1
10	402785	GUARD - Ink - 9970/9970D	1
10a	076897	LABEL - Caution	1
11	014921	PIN - Roll, .131 x .812	1
12	010379	BRACKET - N.O.S.	1
13	001073	RING - Retaining, .57 I.D.	1
14	001060	RING - Retaining, .208 I.D.	1
15	025667	CAM ASSEMBLY - Guard	1
16	018314	SHAFT - Guard	1
17	402958	GUARD - Dampener - 9970D Only	1
18	402023	BRACKET ASSEMBLY	1
19	402020	BRACKET	1

Parts Catalog

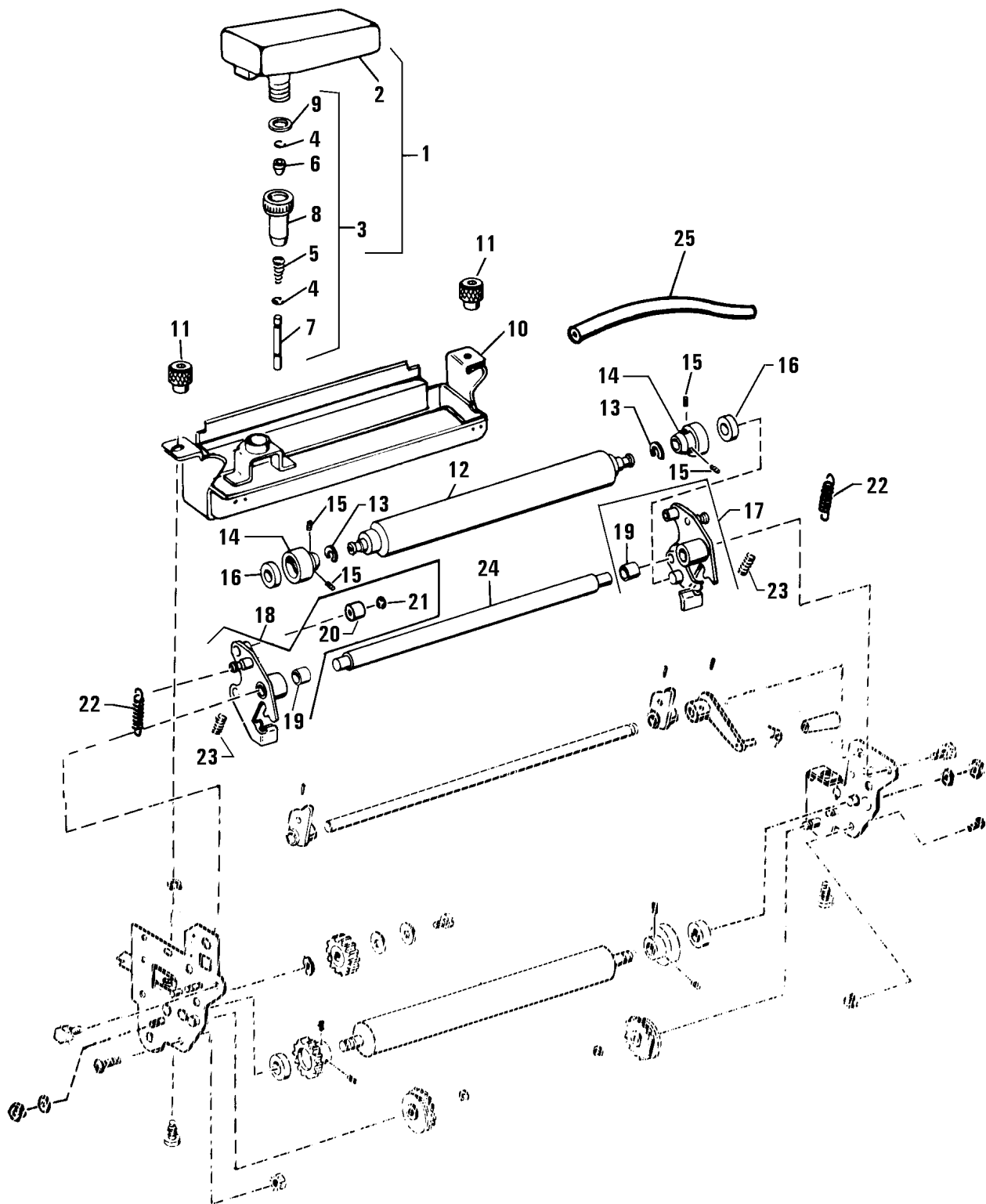


FIGURE 6
Aquamatic - Part I

Parts Catalog

Index No.	Part No.	Figure6 Description	Units Per Assy.
1	***	BOTTLE ASSEMBLY - Repellant	1
2	012141	BOTTLE - Repellant	1
3	017747	VALVE ASSEMBLY - Repellant	1
4	014507	RING - Retaining, .095 I.D. x .019	2
5	073308	SPRING - Special	1
6	040868	SEAL - Bottle Cap	1
7	080536	PIN - Valve	1
8	017820	CAP - Bottle	1
9	080583	WASHER - Bottle Cap	1
10	007653	TROUGH ASSEMBLY - Aquamatic	1
11	080581	KNOB	2
12	007859	ROLLER - Ductor, Stainless Steel	1
13	014518	RING - Retaining, Plastic, .389 I.D.	2
14	080504	HOUSING - Roller Bearing	2
15	014372	SCREW - SET, 10-32 x 1/4	4
16	080505	BEARING - Roller	2
17	080539	CARRIER ASSEMBLY - O.S.	1
18	080541	CARRIER ASSEMBLY - N.O.S.	1
19	001416	BUSHING - .504 I.D. x .627 O.D.	2
20	064059	ROLLER	2
21	001096	RING - RETAINING, .198 I.D.	2
22	073542	SPRING - Tension, 1.312 O.A.L.	2
23	073540	SPRING - COMPRESSION, 1.500 O.A.L.	2
24	007684	TIE BAR - Carrier	1
25	191586	HOSE - Drain, Trough	1

***Not Salable As An Assembly

Parts Catalog

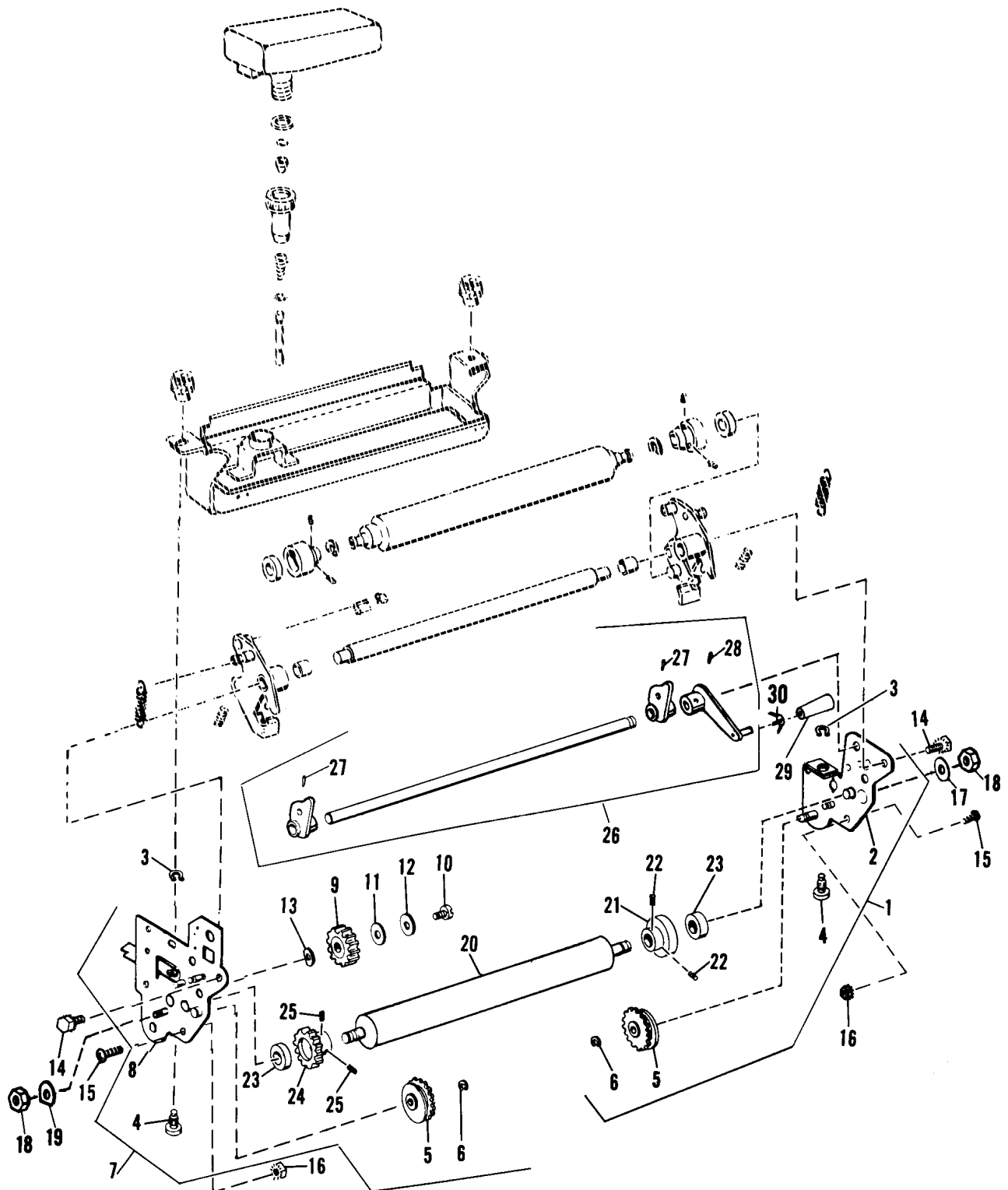


FIGURE 7
Aquamatic - Part II

Parts Catalog

Index No.	Part No.	Figure 7 Description	Units Per Assy.
1	013421	FRAME ASSEMBLY - O.S.	1
2	013386	PLATE - Frame, O.S.	1
3	001099	RING - Retaining, .283 I.D.	2
4	080524	SCREW - Trough Mounting	2
5	012422	GEAR ASSEMBLY - Ductor	2
6	001080	RING - Retaining, .302 I.D.	2
7	025381	FRAME ASSEMBLY - N.O.S.	1
8	025382	PLATE - FRAME, N.O.S.	1
9	082050	GEAR - Drive	1
10	064189	SCREW - 8-32 x 5/32	1
11	001750	WASHER - .328 I.D.	1
12	004074	WASHER - .320 I.D.	1
13	001772	WASHER - Spring, .328 I.D.	1
14	111089	SCREW - 5/16-24 x 5/8	2
15	111073	SCREW - 1/4-28 x 5/8	4
16	150085	NUT - 1/4-28	4
17	191173	WASHER - .255 I.D.	1
18	003578	NUT - 1/4-20	2
19	191384	WASHER - Special, .255 I.D.	1
20	025247	ROLLER - Repellant	1
21	080591	HOUSING - Repellant Roller Bearing	1
22	014372	SCREW - Set, 10-32 x 1/4	2
23	080505	BEARING - Roller	2
24	080599	GEAR - Repellant Roller	1
25	014390	SCREW - Set, 1/4-28 x 1/4	2
26	017707	SHAFT ASSEMBLY - Aquamatic Control	1
27	195396	PIN - Taper, .097 O.D.	2
28	001978	PIN - Roll, .135 O.D.	1
29	011371	KNOB - Control Lever	1
30	072052	SPRING - Lock	1

Parts Catalog

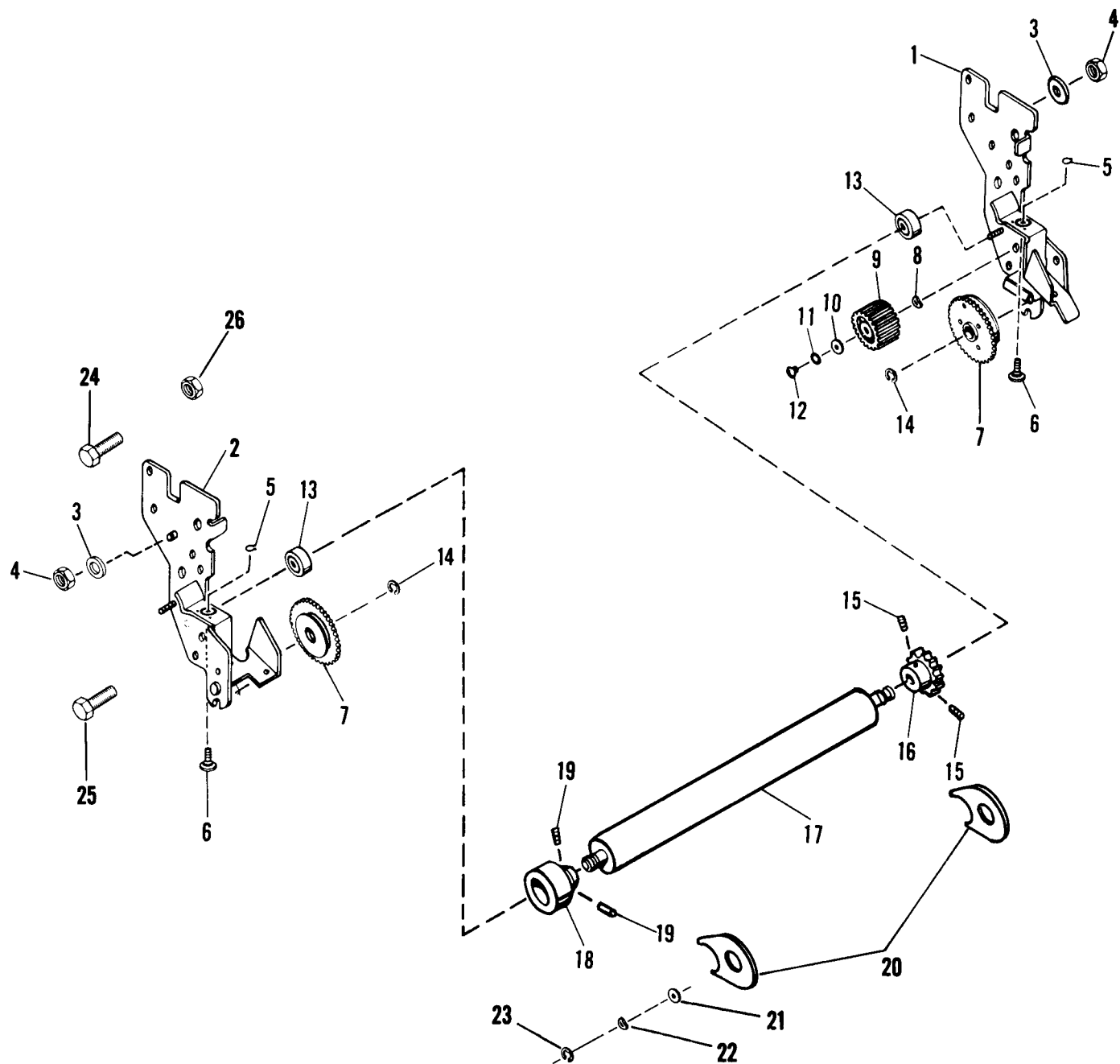


FIGURE 8
Aquamatic - Part III

Parts Catalog

Index No.	Part No.	Figure 8 Description	Units Per Assy.
1	007966	FRAME - N.O.S.	1
2	010148	FRAME - O.S.	1
3	191384	WASHER - .255 I.D.	2
4	003578	NUT - 1/4-20	2
5	001099	RING - Retaining, .283 I.D.	2
6	080524	SCREW - Shoulder	2
7	012422	DUCTOR GEAR ASSEMBLY	2
8	001772	WASHER - Spring, .382 I.D.	1
9	082050	GEAR	1
10	001750	WASHER - .328 I.D.	1
11	004074	WASHER - 9/16 I.D.	1
12	064189	SCREW - Lock	1
13	080505	BEARING	2
14	001080	RING - Retaining, .302 I.D.	2
15	014390	SCREW - Set, 1/4-28 x 1/4	2
16	080599	GEAR	1
17	007856	ROLLER - Rubber	1
18	080591	HOUSING - Bearing	1
19	014372	SCREW - Set, 10-32 x 1/4	2
20	080979	SHIELD - Aquamatic	2
21	195086	WASHER - Stainless Steel, .513 I.D. x 1.000 O.D.	2
22	195087	WASHER - Stainless Steel Spring, .520 I.D.	2
23	101870	RING - Retaining, Stainless Steel .456 I.D.	2
24	111073	SCREW - 1/4-28 x 5/8	2
25	111074	SCREW - 1/4-28 x 3/4	2
26	150085	NUT - 1/4-28	2

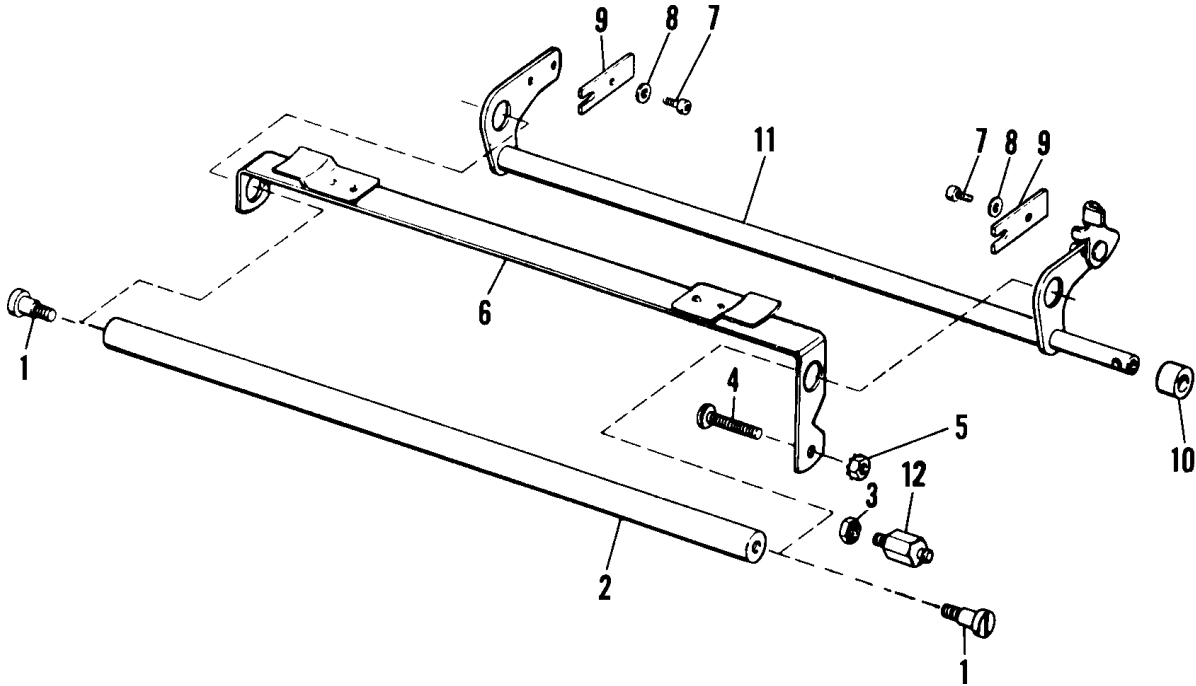


FIGURE 9
Aquamatic Lockout Shaft Part I

Parts Catalog

Index No.	Part No.	Figure 9 Description	Units Per Assy.
1	193601	SCREW - Shoulder	2
2	008024	TIE BAR	1
3	014808	NUT - 10-32	1
4	111077	SCREW - 1/4-28 x 1 1/4	1
5	150085	NUT - 1/4-28	3
6	007582	REST ASSEMBLY - Roller	1
7	014350	SCREW - 10-32 x 5/16	4
8	021861	WASHER - .196 I.D. x .437 O.D. x .047	4
9	073524	SLIDE - Lockout	2
10	075643	SPACER - .400 I.D. x .625 O.D. x .406	1
11	017793	SHAFT ASSEMBLY - Ductor Lockout	1
12	075644	STUD - Spring	1

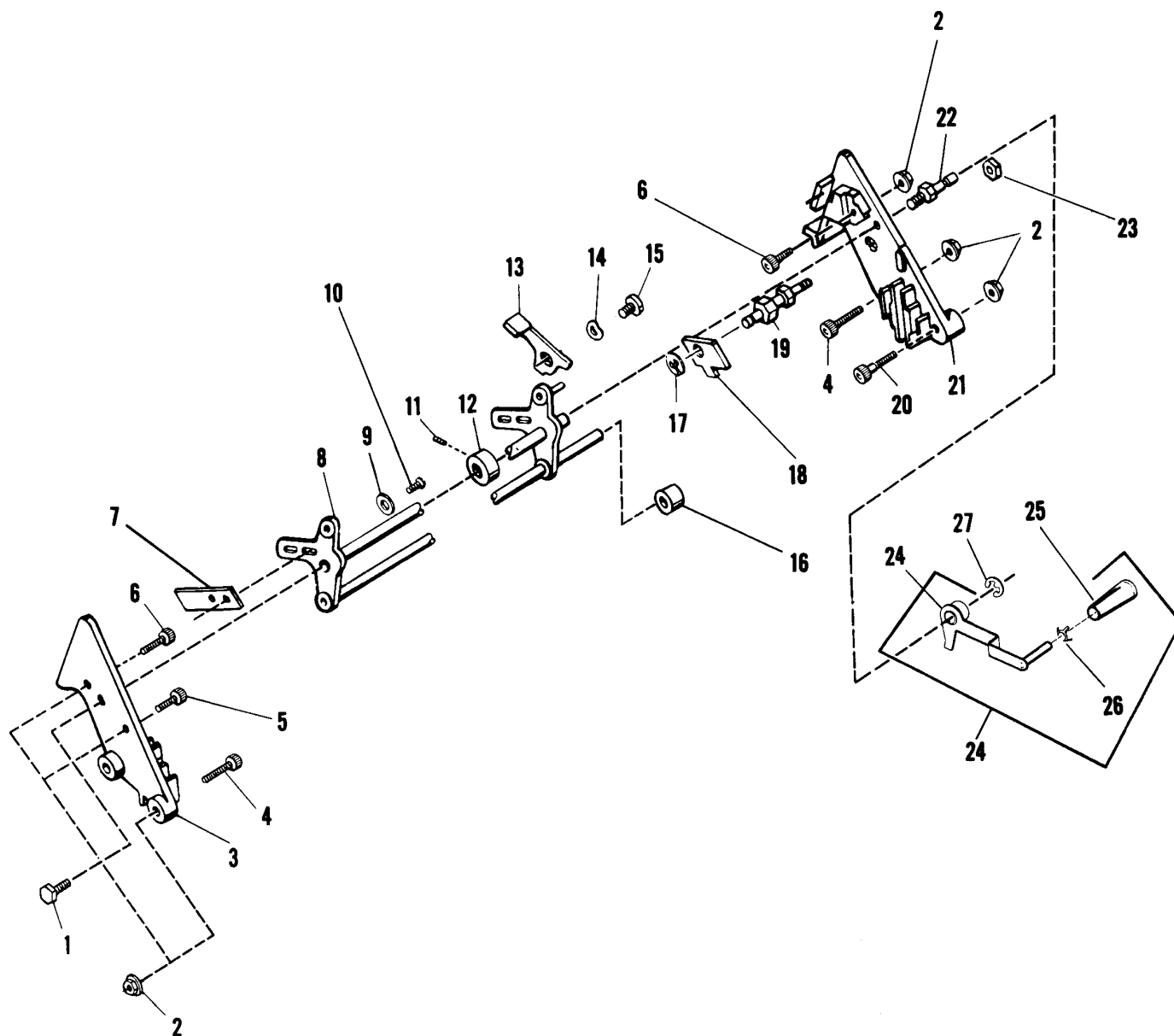


FIGURE 10
Aquamatic Lockout Shaft Part II

Parts Catalog

Index No.	Part No.	Figure 10 Description	Units Per Assy.
1	193601	SCREW - Shoulder, 5/16-24	1
2	150085	NUT - 1/4-28	6
3	078628	BRIDGE - Ink, N.O.S.	1
4	100815	SCREW - 1/4-28 x 1-1/4	3
5	100653	SCREW - 1/4-28 x 3/4	2
6	014234	SCREW - 1/4-28 x 1.000	2
7	078638	SLIDE - Adjusting	2
8	078669	LEVER ASSEMBLY	1
9	021861	WASHER - .196 I.D. x .437 O.D.	4
10	014350	SCREW - 10-32 x 5/16	4
11	014372	SCREW - Set, 10-32 x 1/4	1
12	063206	COLLAR	1
13	082421	LEVER - Toggle	1
14	014745	WASHER - Spring, .342 I.D. x .630 O.D.	1
15	063087	SCREW - Shoulder, 10-32	1
16	195681	SPACER	1
17	001060	RING - Retaining, .208 I.D.	2
18	078646	STOP - Lever	2
19	195686	STUD - 10-32	2
20	100814	SCREW - 1/4-28 x 1 1/2	1
21	078626	BRIDGE - Ink, O.S.	1
22	078660	STUD - Pivot, 5/16-24	1
23	014808	NUT - 10-32	2
24	017704	LEVER ASSEMBLY	1
25	011371	HANDLE	1
26	072052	LOCK - Spring	1
27	001095	RING - Retaining, .245 I.D.	1

Parts Catalog

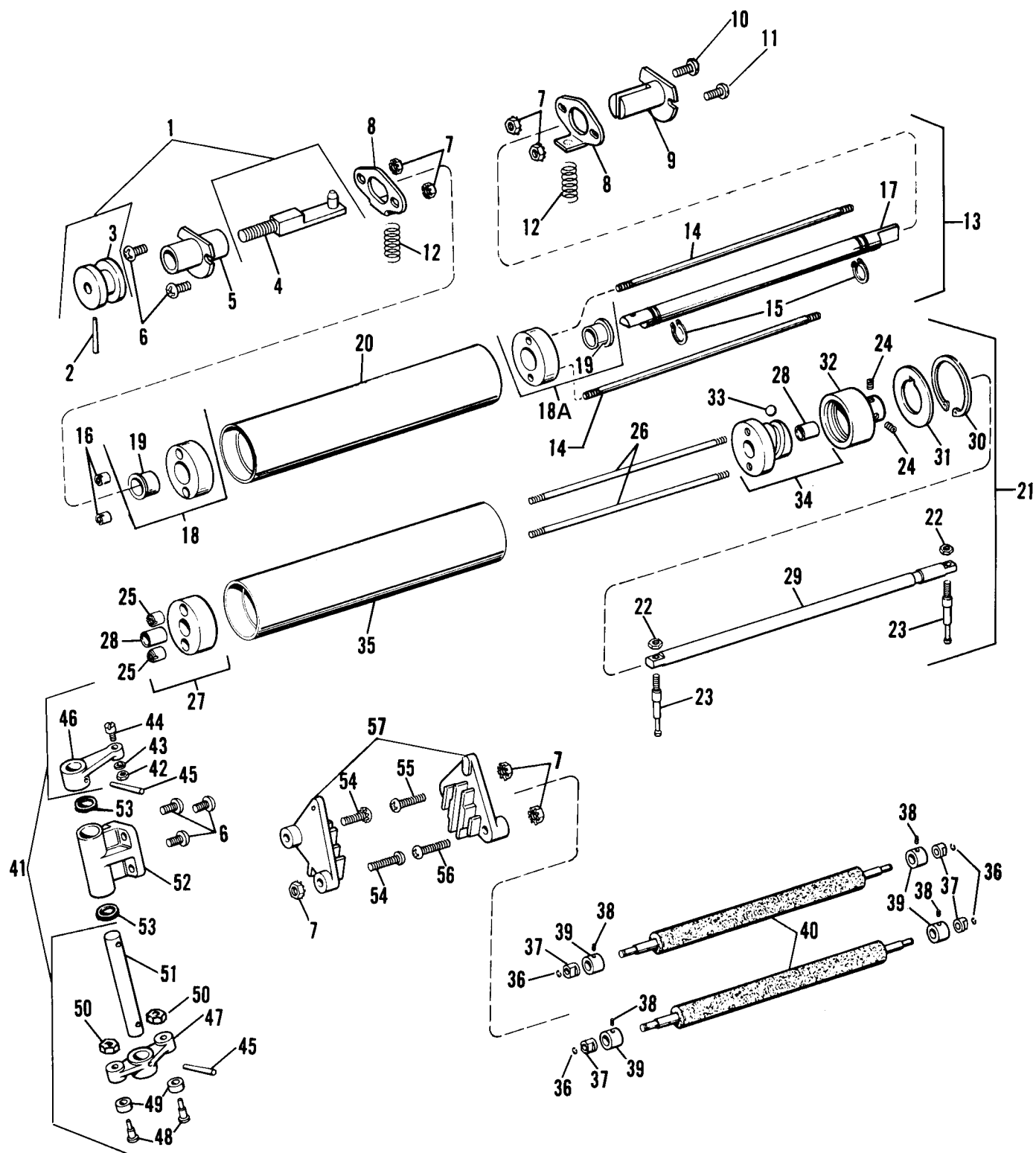


FIGURE 11
Waver, Oscillating and Rider Rollers

Parts Catalog

Index No.	Part No.	Figure 11 Description	Units Per Assy.
1	073011	COUPLE ASSEMBLY - Waver Roller	1
2	000014	PIN - Tapper, .147 O.D. x 1.127	1
3	*073014	ROLLER - Couple	1
4	*073012	SHAFT - Couple	1
5	084413	GUIDE - Waver Roller	1
6	111073	SCREW - 1/4-28 x 5/8	5
7	150085	NUT - 1/4-28	7
8	080295	BRACKET - Spring Guide	2
9	084412	GUIDE - Waver Roller	1
10	101086	SCREW - Button Hd., 1/4-28 - 3/4	1
11	111074	SCREW - 1/4-28 x 3/4	1
12	073338	SPRING - Compression, .562 O.D. x 1.265 O.A.L. x .059	2
13	008007	ROLLER AND SHAFT ASSEMBLY - Ink & Repellant Waver (9970 only)	1
13	007568	ROLLER AND SHAFT ASSEMBLY - Ink & Repellant Waver (9970D only)	1
14	197043	TIE ROD	2
15	001094	RING - Retaining External, .463 I.D. x .037	2
16	196475	NUT - Special Self Locking 1/4-28	2
17	007852	SHAFT - Rubber Waver	1
17	007569	SHAFT - Rubber Waver (FOR 9970D only)	1
18	076194	CAP ASSEMBLY - Waver Roller	1
18A	400646	ENDCAP ASSEMBLY	1
19	190387	BUSHING - Flanged Cap	2
20	403105	ROLLER - Transfer, Rubber (9970 only)	1
20	007570	ROLLER - Transfer, Rubber (9970D only)	1
21	007576	ROLLER ASSEMBLY - Oscillating Rider	1
22	001804	NUT - 10-32	2
23	195684	PIN - Special	2
24	014390	SCREW - Set, 1/4-28 x 11/4	2
25	196475	NUT - Special Self Locking 1/4-28	2
26	007580	TIE ROD	2
27	080694	PLUG	1
28	001497	BUSHING - .504 I.D. x .629 O.D. x .625	2
29	007581	SHAFT	1
30	014523	RING - Retaining Internal, 2.600 O.D. x .081	1
31	080698	GUARD - Splash	1
32	080263	CAP	1
33	080699	BALL - .375 O.D.	1
34	080695	PLUG AND CAM ASSEMBLY	1
35	007577	ROLLER - Oscillating Rider	1
36	001778	RING - Retaining External, .214 I.D. x .027	4
37	073004	BUSHING - Special	4
38	001207	SCREW - Set, 8-32 x 3/16	4
39	073152	COLLAR	4
40	403103	ROLLER - Rider	2
41	087496	LEVER AND SHAFT ASSEMBLY - Operating	1
42	001812	NUT - 10-32	1
43	001702	WASHER - .195 I.D. x .500 O.D. x .029	1
44	073339	SCREW - Eccentric, 10-32	1
45	192900	PIN - Tapper, .142 O.D. x .750	2
46	*073116	LEVER	1
47	*080297	LEVER	1
48	080298	SCREW - Shoulder, 10-32	2
49	080299	TRUCK	2
50	101051	NUT - 10-32	2
51	*080317	SHAFT	1
52	073108	BRACKET ASSEMBLY	1
53	192766	WASHER - .385 I.D. x .750 O.D. x .090	2
54	111076	SCREW - 1/4-28 x 1.000	2
55	211079	SCREW - 1/4-28 x 1.250	1
56	111077	SCREW - 1/4-28 x 1.375	1
57	073234	BRACKET - ROLLER	2

* Not Procurable Separately

Parts Catalog

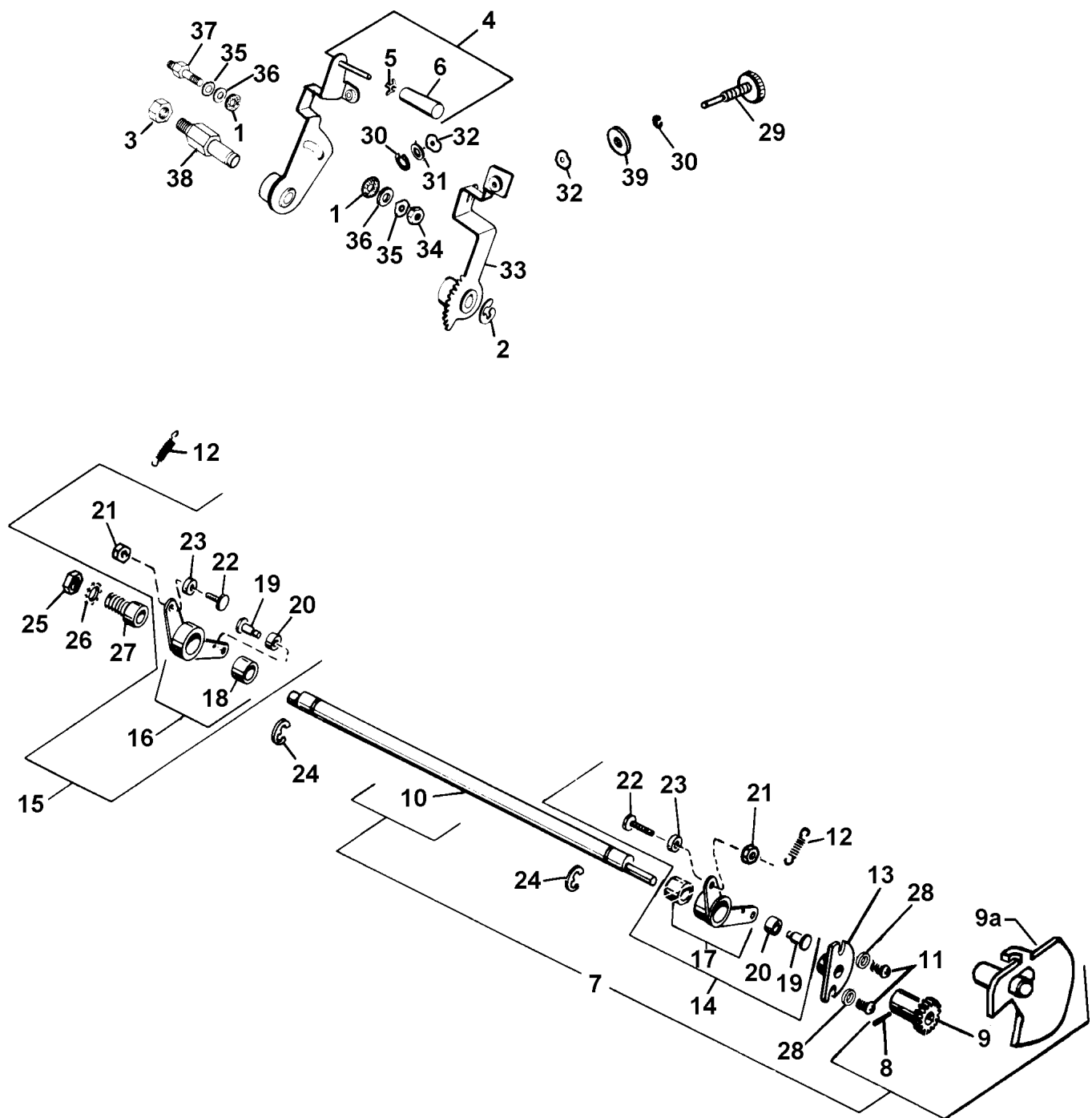


FIGURE 12
Aquamatic Control Lever Assembly

Parts Catalog

Index No.	Part No.	Figure 12 Description	Units Per Assy.
1	014793	WASHER - Friction, 17/64 I.D.	2
2	001080	RING - Retaining, .302 I.D.	1
3	150085	NUT - 1/4-28	1
4	016275	LEVER ASSEMBLY - Micro Adjust	1
5	072052	LOCK - Spring	1
6	011371	HANDLE - Brown	1
7	007662	ECCENTRIC SHAFT AND PINION ASSEMBLY	1
8	000006	PIN - Taper, .582 O.A.L.	1
9	*073246	GEAR - Eccentric Shaft	1
9a	402887	STOP - (9970D Only)	1
10	*007663	SHAFT - Eccentric	1
11	111068	SCREW - 1/4-28 x 5/16	2
12	040782	SPRING - Tension, .318 O.D. x 1-7/32 O.A.L.	2
13	073252	BUSHING - Eccentric Shaft	1
14	073248	LEVER ASSEMBLY - O.S.	1
15	073250	LEVER ASSEMBLY - N.O.S.	1
16	071567	LEVER - N.O.S.	1
17	071566	LEVER - O.S.	1
18	014605	BUSHING - .566 I.D. x .691 O.D. x .750 O.A.L.	1
19	057507	RIVET	1
20	070125	TRUCK	1
21	014248	NUT - Lock, 10-32	1
22	190118	STUD - Eccentric	1
23	190103	TRUCK	1
24	001094	RING - Retaining, .394 I.D.	2
25	014805	NUT - 7/16-20	1
26	043097	WASHER - .440 I.D.	1
27	193606	STUD	1
28	021203	WASHER - .255 I.D. x .500 O.D.	2
29	196666	SCREW - Adjusting	1
30	014504	RING - Retaining, .146 I.D. x .027	2
31	196664	WASHER - Spherical	1
32	001742	WASHER - Spring, 13/16 I.D. x .500 O.D.	2
33	016271	LEVER ASSEMBLY - Gear	1
34	154078	NUT - Lock 1/4-28	1
35	193549	WASHER - Spring, .266 I.D. x .557 O.D.	2
36	191384	WASHER - .260 I.D. x .750 O.D.	2
37	196662	STUD	1
38	196663	STUD	1
39	006776	WASHER - Plain, 3/16 I.D. x 3/8 O.D. x 3/64	1

* Not Procurable Separately

Parts Catalog

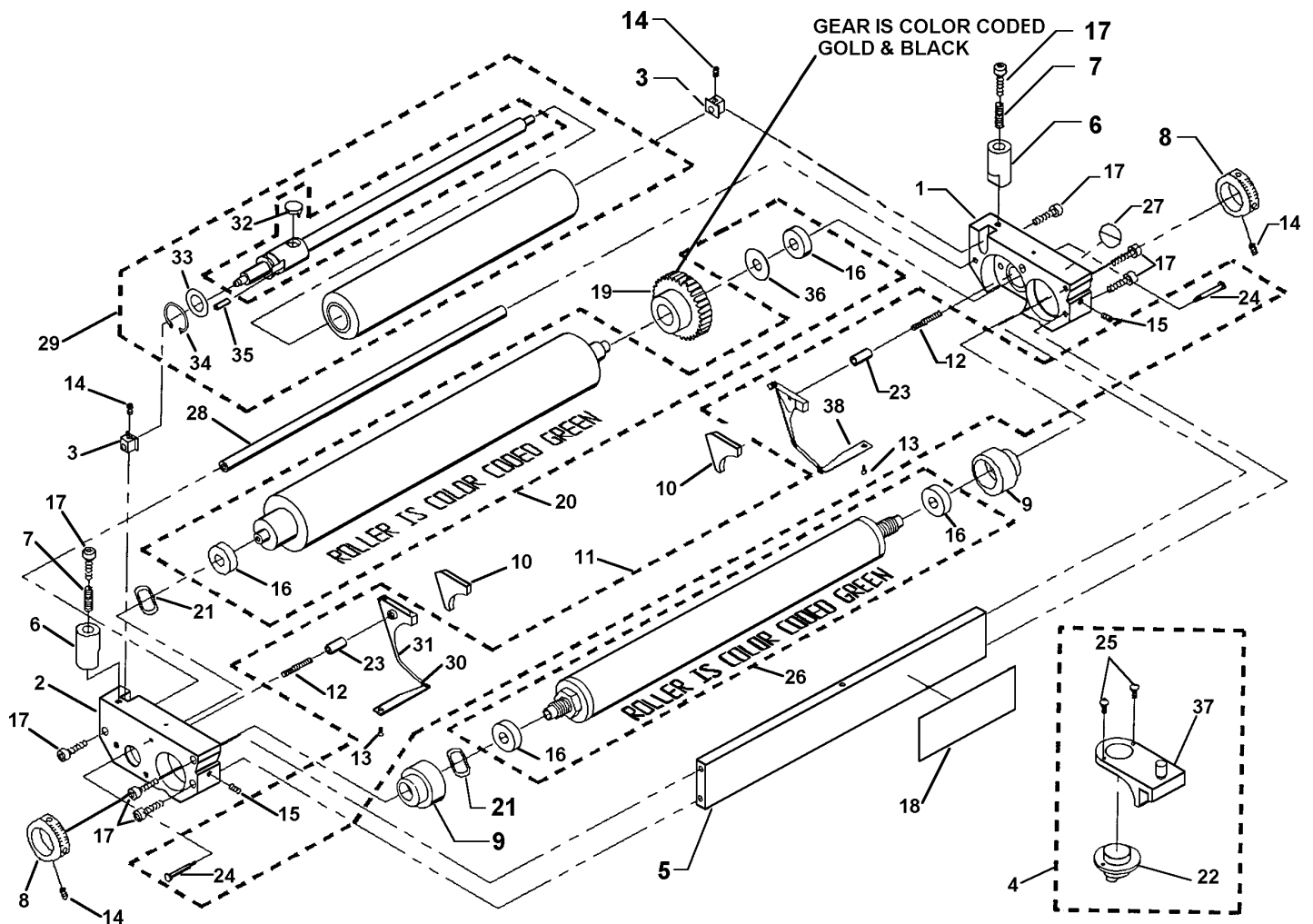


FIGURE 12A
Non-Motorized Dampener Part I

Parts Catalog

Index No.	Part No.	Figure 12A Description	Units Per Assy.
1	VG94993	END FRAME - R.H.	1
2	VG94994	END FRAME - L.H.	1
3	VG91219	BLOCK - Alignment	2
4	VG98750	BRACKET NOZZLE ASSEMBLY	1
5	VG94995	PLATE - Tie	1
6	VG94991	POST - Oscillator	2
7	VG93466	SPRING - Compression	2
8	VG94992	GAUGE - Metering	2
9	VG92291	ECCENTRIC	2
10	VG92370	SEAL SET - (L & R)	1
11	VG92290	BACKING PLATE KIT (L & R)	1
12	VG92238	SPRING - Compression	2
13	VG91802	SCREW - Flat Head, 3-48 x 1/4	2
14	VG91811	SET SCREW - 10-24 x 1/4	4
15	VG91813	SET SCREW - 10-24 x 1/2	2
16	VG92401	BEARING	4
17	VG91853	SCREW - Socket Head, 10-32 x 1.12	8
18	VG94987	STICKER - I.D.	1
19	VG92940	GEAR CLUTCH ASSEMBLY	1
20	VG92470	ROLLER W/B - Form, 13"	1
21	VG92491	WASHER - Wave	2
22	VG92604	NOZZLE	1
23	VG92304	PIN - Guide	2
24	VG92303	SCREW - Shoulder	2
25	VG91907	SCREW - Phillips Head, 6-32 x 3/8	2
26	VG92460	ROLLER W/B - Metering, 13"	1
27	VG92601	SYMBOL - Inward Nip	1
28	VG95996	BAR - Tie	1
29	VG94998	OSCILLATOR ROLLER PARTS ASSEMBLY - 13-1/4	1
30	VG92236	SPRING - Tab	1
31	VG92259	COVER - Spring	1
32	VG91111	DRIVE SHAFT FOLLOWER - Oscillator	1
33	VG91965	RETAINING WASHER - Oscillator	1
34	VG91997	CLIP - Oscillator Retaining	1
35	VG91949	PIN - Spring	1
36	VG92415	WASHER - Thrust	1
37	VG94997	BRACKET - Nozzle	1
38	VG92234	TAB	1

NOTE: Order all parts directly from Graph Tech, Incorporated, 8 Allerman Road, Box 1101, Oakland, NJ 07436

Parts Catalog

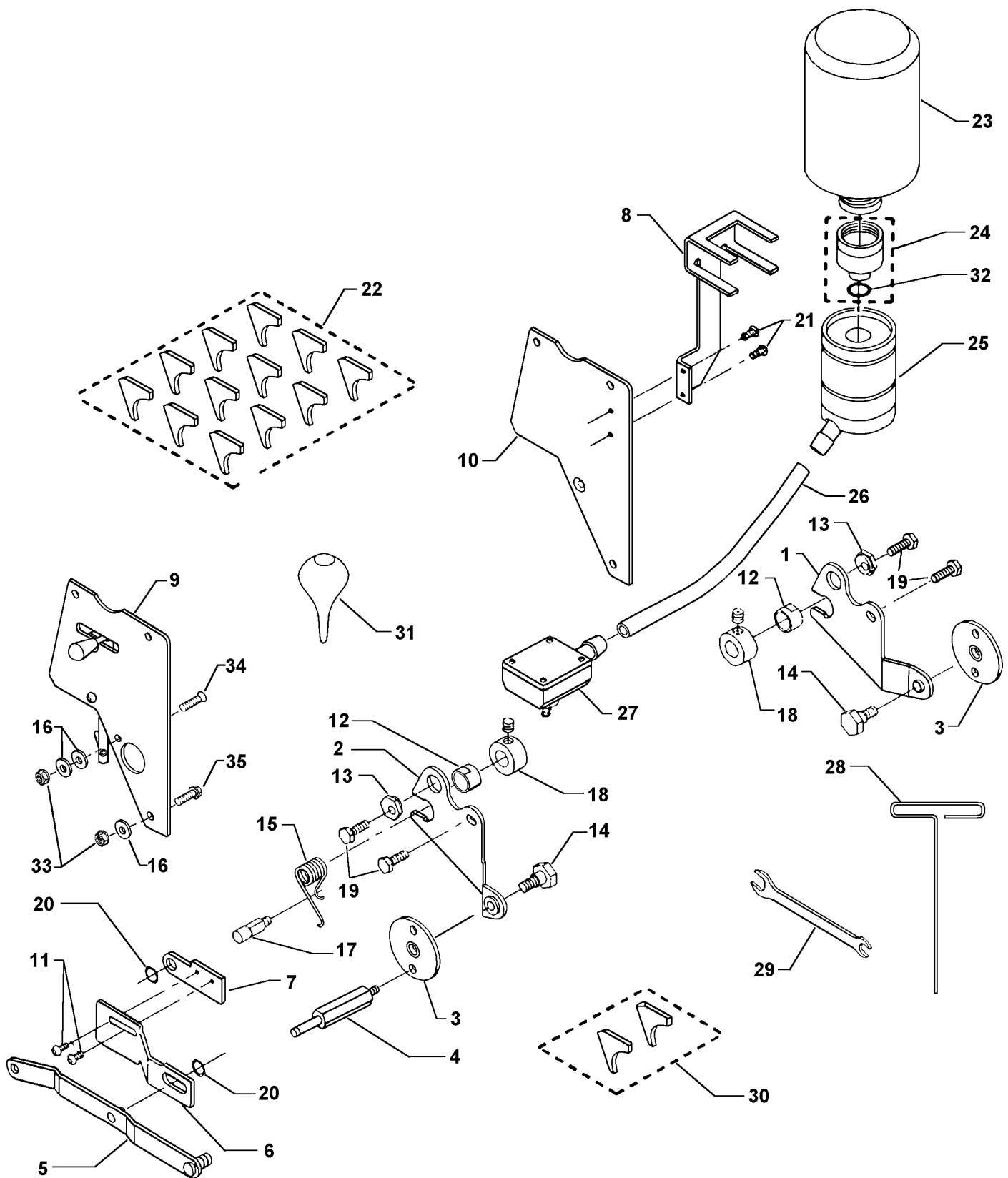


FIGURE 12B
Non-Motorized Dampener Part II

Parts Catalog

Index No.	Part No.	Figure 12B Description	Units Per Assy.
1	VG90920	MOUNTING BRACKET ASSEMBLY - R.H.	1
2	VG90910	MOUNTING BRACKET ASSEMBLY - L.H.	1
3	VG93805	BOLT RETAINER ASSEMBLY	2
4	VG93613	STUD - Detent	1
5	VG93794	FORM LINK ASSEMBLY	1
6	VG93801	LINK - Long	1
7	VG93799	LINK - Short	1
8	VG94999	BRACKET - Bottle	1
9	VG93601	WIRE GUARD SUPPORT BRACKET - R.H.	1
10	VG93602	WIRE GUARD SUPPORT BRACKET - L.H.	1
11	VG91816	SCREW - Button Head Cap, 10-24 x 3/8	2
12	VG93818	BUSHING - Eccentric Shaft	2
13	VG93543	BRACKET - Eccentric	2
14	VG93814	BOLT - Shoulder	2
15	VG93811	SPRING - Torsion	1
16	VG94136	SPACER	6
17	VG93809	BOLT - Stop	1
18	VG91910	COLLAR - 9/16	2
19	VG91867	SCREW - Hex Head, 1/4-20 x 1/2	4
20	VG91956	WASHER - Spacer	2
21	VG91817	SCREW - Button Head, 10-24 x 1/4	2
22	VG93930	SEAL - Felt Cleaning (12 pack set)	1
23	VG92773	BOTTLE - Round Calibrated	1
24	VG92760	DISPENSING VALVE ASSEMBLY	1
25	VG92740	BOTTLE VALVE ASSEMBLY	1
26	VG94986	TUBING - Vinyl, 1/2 I.D.	1
27	VG92750	ADAPTER BASE ASSEMBLY	1
28	VG90755	T-WRENCH - 3/32	1
29	VG93555	WRENCH - Kompac	2
30	VG92370	SEAL SET - Kompac	1
31	VG92778	SYRINGE - Kompac	1
32	VG92765	O-RING - DISPENSING VALVE	1
33	150083	LOCK NUT (Order from A. B. Dick)	4
34	112565	SCREW - Phillips (Order from A. B. Dick)	2
35	111055	SCREW - Hex Washer Head (Order from A. B. Dick)	2

NOTE: Order all parts directly from Graph Tech, Incorporated, 8 Allerman Road, Box 1101, Oakland, NJ 07436

Parts Catalog

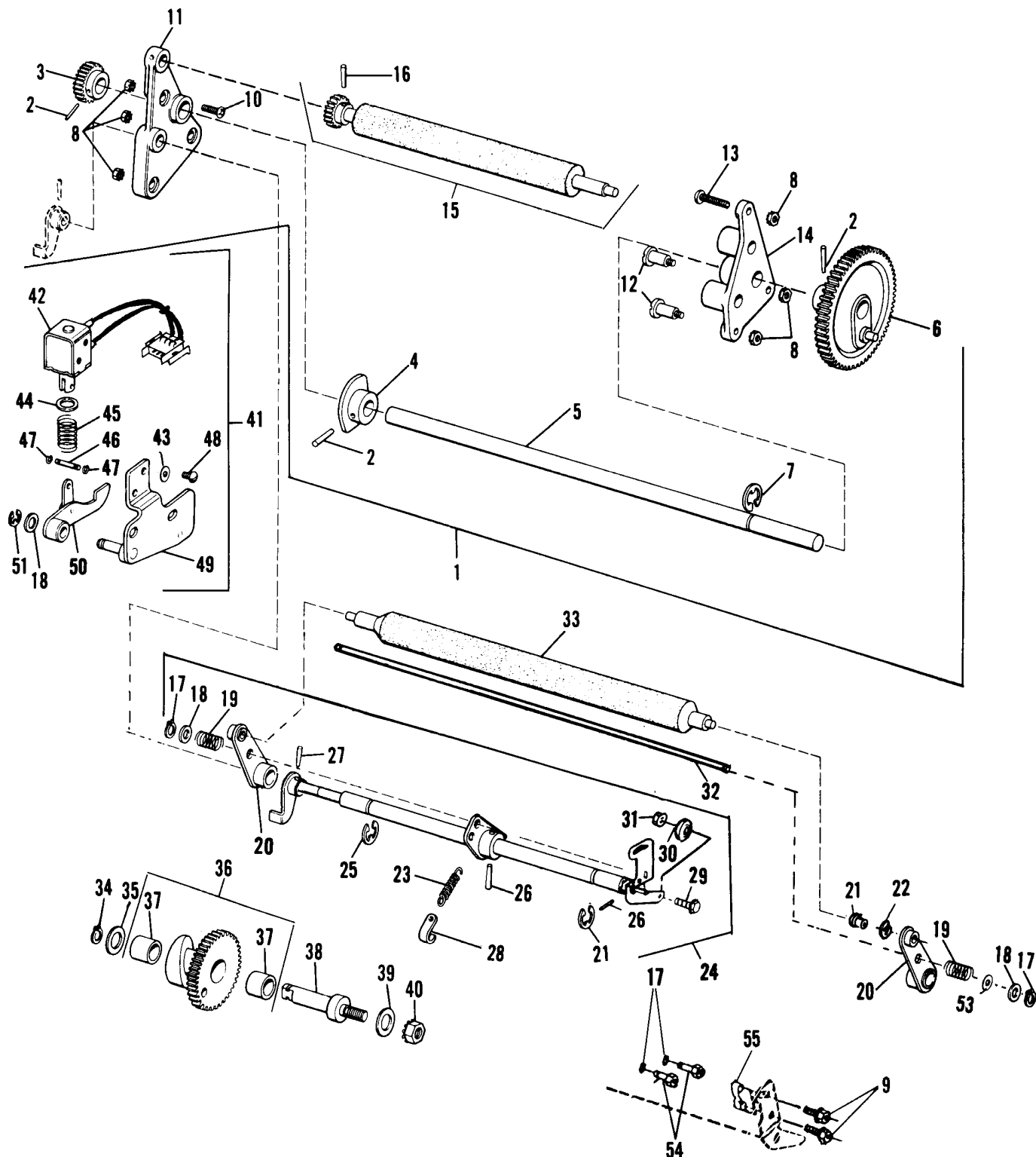


FIGURE 13
Ink Feed Solenoid, Distributor and Ductor Rollers

Parts Catalog

Index No.	Part No.	Figure 13 Description	Units Per Assy.
1	017989	SHAFT ASSEMBLY - Cam and Gear	1
2	001956	PIN - Taper, .194 O.D. x .680	4
2	001987	PIN - Roll, .167 O.D. x .890 O.A.L. (Use W/079912 Gear)	1
3	079912	GEAR - (Field Replacement Only)	1
4	*017990	CAM	1
5	*025261	SHAFT	1
6	*076727	GEAR	1
7	001094	RING - Retaining External, .394 I.D. x .044	1
8	150085	NUT - 1/4-28	6
9	111053	SCREW - 10-32 x 7/16)	2
10	014180	SCREW - 1/4-28 x 1.000	1
11	073120	BRACKET ASSEMBLY - Bearing, N.O.S.	1
12	073094	SCREW - Shoulder, 1/4-28	2
13	111079	SCREW - 1/4-28 x 1.500	1
14	073091	BRACKET ASSEMBLY - Bearing, O.S.	1
15	007549	ROLLER ASSEMBLY - Distributor	1
16	101332	PIN - Spiral, .103 O.D. x .760	1
17	001049	RING - Retaining External, .227 I.D. x .027	2
18	021203	WASHER - .254 I.D. x .500 O.D. x .029	2
19	054409	SPRING - Compression, 21/64 I.D. x 1.187 O.A.L.	2
20	084422	LEVER ASSEMBLY	2
21	084421	BUSHING - Special, .253 I.D.	1
22	001047	RING - Retaining, .340 I.D.	1
23	072625	SPRING - Tension, 11/32 O.D. x 1.125 O.A.L. x .059	1
24	017633	SHAFT AND LEVER ASSEMBLY - Actuating	1
25	001098	RING - Retaining External, .339 I.D. x .037	1
26	014902	PIN - Taper, .110 O.D. x .875	2
27	000020	PIN - Taper, .125 O.D. x .655	1
28	073107	ANCHOR - Spring	1
29	077459	SCREW - Shoulder, 10-32	1
30	193774	TRUCK	1
31	150083	NUT - 10-32	1
32	016937	SHAFT - Tension	1
33	403104	ROLLER KIT - Ductor, Rubber	1
34	100576	RING - Retaining External, .465 I.D. x .052	1
35	191289	WASHER - .504 I.D. x .812 O.D. x .062	1
36	073043	CAM GEAR ASSEMBLY	1
37	001432	BUSHING - .504 I.D. x .629 O.D. x .500	2
38	080349	STUD - Shoulder, 3/8-24	1
39	001721	WASHER - .380 I.D. x .625 O.D. x .059	1
40	190254	NUT - 3/8-24	1
41	025198	SOLENOID ASSEMBLY - Ink Feed Control, 120 V.A.C. 50/60 HZ.	1
42	025347	SOLENOID 120 V.A.C. 50/60 HZ.	1
43	001729	WASHER - Lock, .145 I.D. x .311 O.D.	2
44	192206	WASHER - Fiber, .385 I.D. x .625 x .062	1
45	192204	SPRING - Compression, .437 O.D. x .406 O.A.L. x .024	1
46	190713	PIN - Solenoid	1
47	014515	RING - Plastic	2
48	001694	SCREW - 6-32 x 3/16	1
48	001541	SCREW - 6-32 x 1/4	1
49	012815	BRACKET - Mounting	1
50	012254	LEVER ASSEMBLY - Lock	1
51	001060	RING - Retaining External, .208 I.D. X .027	1
52	190149	WASHER - .441 I.D.	1
53	014741	WASHER - Spring, .572 O.D. x .267 I.D. x .008	1
54	017639	STAND-OFF	2
55	017640	SPRING - Lockout	1

* Not Procurable Separately

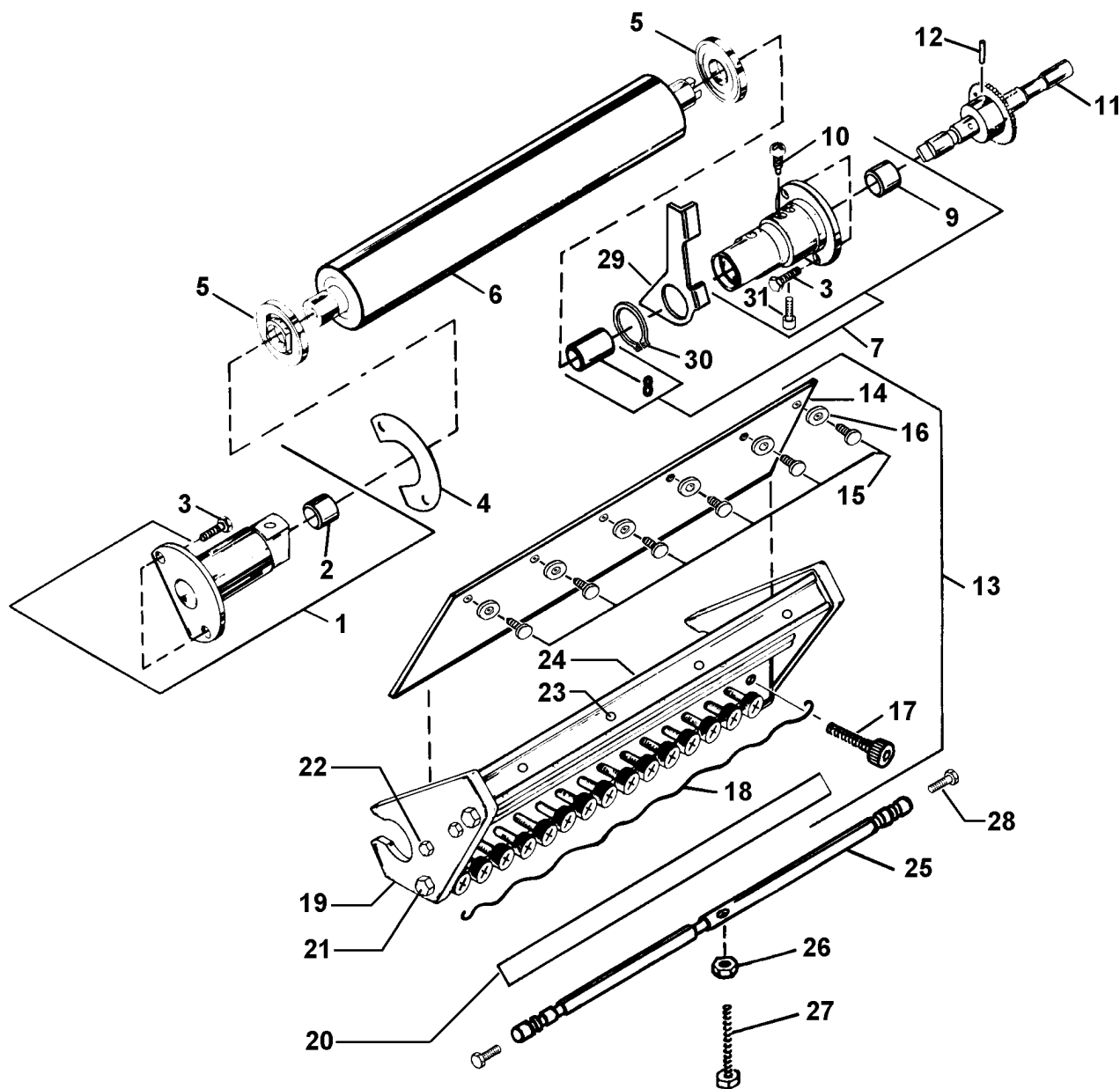


FIGURE 14
Ink Metering Assembly

Parts Catalog

Figure 14			
Index No.	Part No.	Description	Units Per Assy.
0	018404	INK FOUNTAIN KIT	A/R
1	018364	BUSHING ASSEMBLY - N.O.S.	1
2	001497	BUSHING - .630 O.A.L.	1
3	111051	SCREW - 10-32 x 5/16	4
4	018368	SHIM - Bushing, N.O.S.	A/R
5	018360	SEAL - Ink Roller	2
6	018358	ROLLER - Ink, Rubber	1
7	018362	BUSHING ASSEMBLY - O.S.	1
8	014646	BUSHING - 1.255 O.A.L.	1
9	001413	BUSHING - .750 O.A.L.	1
10	072620	SCREW - Shoulder, 10-32	1
11	018366	EXTENSION ASSEMBLY - Knob	1
11	018383	EXTENSION ASSEMBLY - Crank	1
12	000011	PIN - Taper, .122 x 7/8	1
13	022853	METERING BLADE ASSEMBLY	1
14	403175	BLADE - Ink Fountain (Pkd.)	1
15	102333	SCREW	6
16	000666	LOCK WASHER	6
17	073512	SCREW - Ink Adjustment	15
18	018357	SPRING - Screw, Tension	1
19	018378	END PLATE - O.S. and N.O.S.	2
20	022854	SCALE	1
21	190646	BOLT - Shoulder	4
22	102333	BOLT	4
23	014525	RIVET	4
24	022852	BASE - Machined Ink Fountain	1
25	017996	TIE BAR - Metering Assembly Adjustment	1
26	001812	NUT - 10-32	1
27	001260	SCREW - Adjusting, 10-32 x 1-1/4	1
28	196264	SCREW	2
29	017636	LEVER - Lockout	1
30	001785	RING - Retaining, .903 I.D.	1
31	100863	SCREW	1

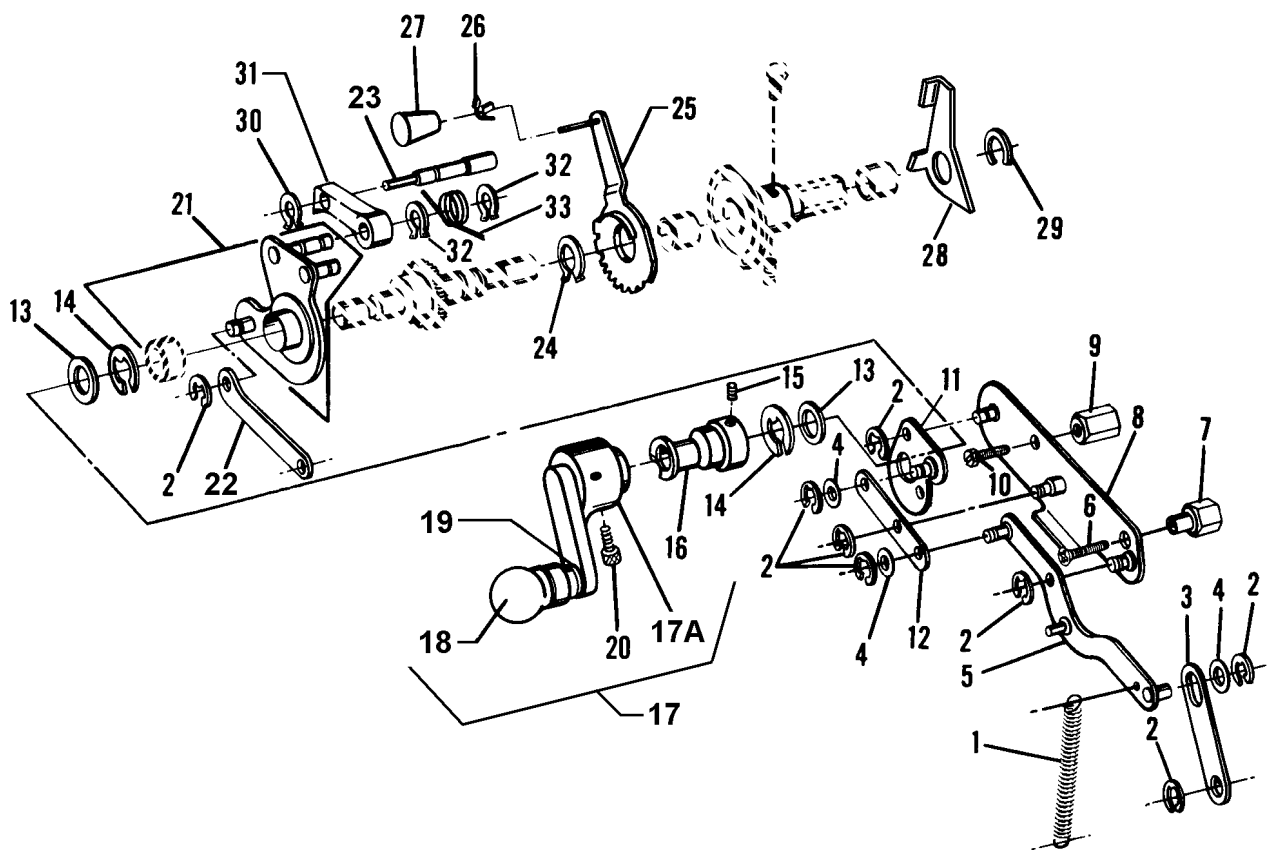


FIGURE 15
Ink Foundation Linkage

Parts Catalog

Index No.	Part No.	Figure 15 Description	Units Per Assy.
1	192152	SPRING - 17/64 O.D. x 3-5/64 O.A.L.	1
2	001097	RING - Retaining, .186 I.D.	6
3	017618	LINK	1
4	015213	WASHER - .227 I.D. x 3/8 O.D.	3
5	017616	LEVER ASSEMBLY	1
6	014151	SCREW - 10-32 x 1/2	1
7	017623	STAND-OFF	1
8	017611	BRACKET ASSEMBLY	1
9	017622	STAND-OFF	1
10	192029	SCREW - Dowel, 1/4-28	1
11	017613	PLATE ASSEMBLY	1
12	017615	LEVER	1
13	014688	WASHER - .510 I.D. x 1.000 O.D.	2
14	001094	RING - Retaining, .394 I.D.	2
15	014902	PIN - Taper, .110 O.D. x .720 O.A.L.	1
16	*018383	EXTENSION ASSEMBLY - Crank	1
17	017787	CRANK ASSEMBLY	1
17A	017788	CRANK	1
18	196219	CRANK HANDLE KNOB	1
19	003042	CLIP - (Not Illustrated)	1
20	014215	SCREW - 10-32 x 3/8	1
21	017630	LEVER ASSEMBLY - Operating	1
22	076734	LINK - Operating Lever	1
23	196258	PIN - Pawl Deflector	1
24	001076	RING - Retaining, .815 I.D.	1
25	017702	CONTROL ASSEMBLY - Ink	1
26	072052	LOCK - Spring	1
27	011371	HANDLE	1
28	017636	LEVER - Lockout	1
29	001785	RING - Retaining, .903 I.D.	1
30	001044	RING - Retaining, .170 I.D.	1
31	017693	PAWL	1
32	001046	RING - Retaining, .283 I.D.	2
33	080634	SPRING - Torsion, 11/32 I.D.	1

* Not available separately.

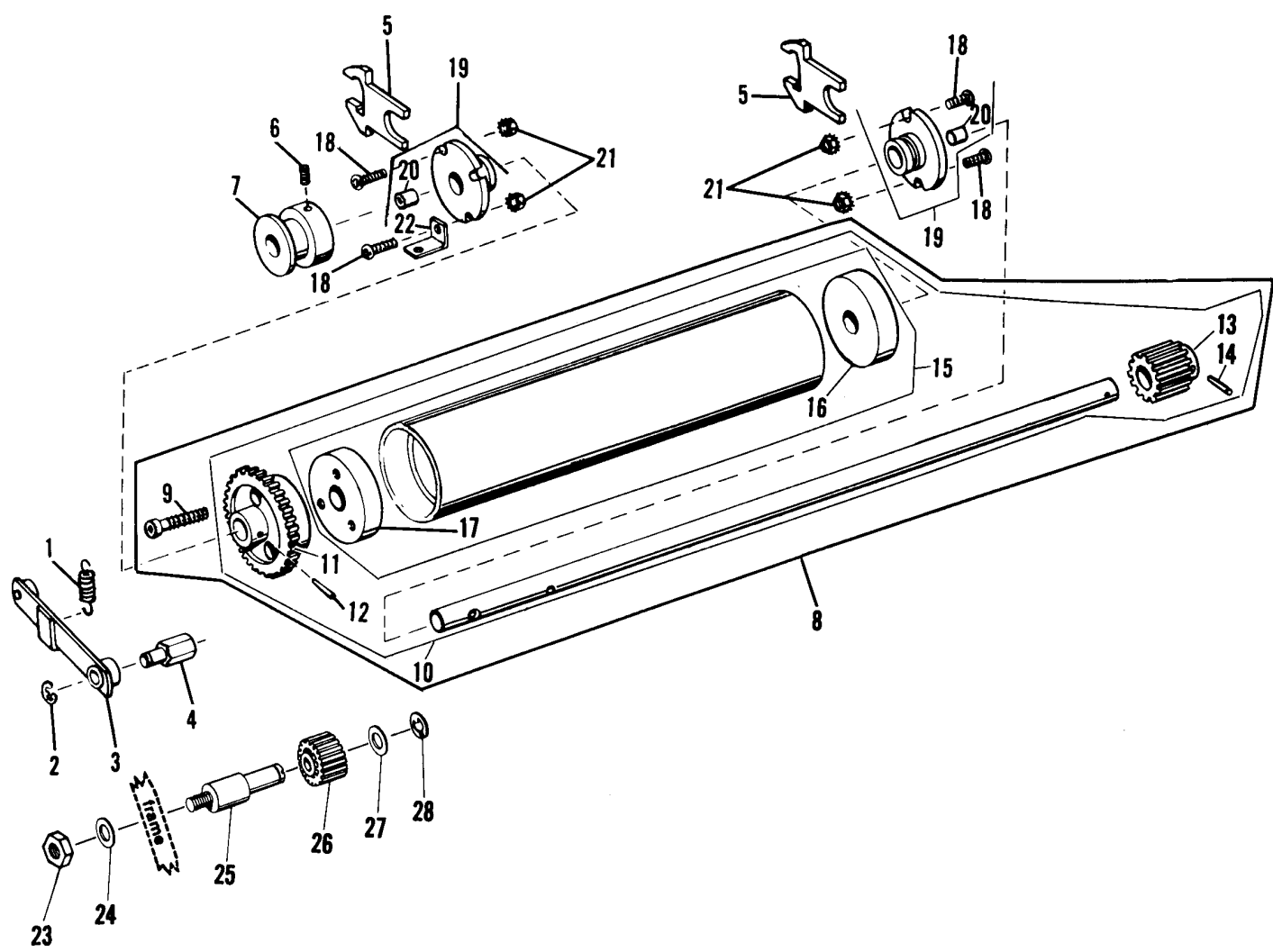


FIGURE 16
Waver Roller Assembly

Parts Catalog

Index No.	Part No.	Figure 16 Description	Units Per Assy.
1	041776	SPRING - .343 O.D. x 1.375 O.A.L. x .047	1
2	001080	RING - Retaining External, .302 I.D. x .037	1
3	075987	LEVER ASSEMBLY - Detent Cam	1
4	195136	PIVOT - Lever	1
5	073894	SLIDE - Form Roller Lever	2
6	014207	SCREW - Set, 1/4-28 x 5/8	1
7	073482	COUPLING - Waver Roller	1
8	***	ROLLER AND SHAFT ASSEMBLY - Waver	1
9	014157	SCREW - 1/4-28 x 1.250	3
10	007557	SHAFT ASSEMBLY	1
11	073710	GEAR (Field Replacement Only)	1
12	001976	PIN - Roll, .135 O.D. x .827 (Field Replacement Only)	1
12	014910	PIN - Taper, .110 O.D. x 7/8	1
13	079905	GEAR (Field Replacement Only)	1
14	014921	PIN - Roll, .135 O.D. x .890 (Field Replacement Only)	1
14	014910	PIN - Taper, .110 O.D. x 7/8	1
15	007559	ROLLER ASSEMBLY - Waver	1
16	080433	CAP	1
17	080473	CAP	1
18	111055	SCREW - 10-32 x 9/16	4
19	075931	BUSHING - Flanged	2
20	001497	BUSHING - .504 I.D. x .629 O.D. x .625	2
21	014248	NUT - 10-32	4
22	075991	BRACKET - Spring	1
23	190254	NUT - 3/8-24	1
24	014750	WASHER - .385 I.D. x .875 O.D. x .059	1
25	195385	STUD	1
26	076218	GEAR	1
27	001797	WASHER - 515 I.D. x .812 O.D. x .059	1
28	001048	RING - Retaining External, .463 I.D. x .037	1

*** Not Saleable As An Assembly

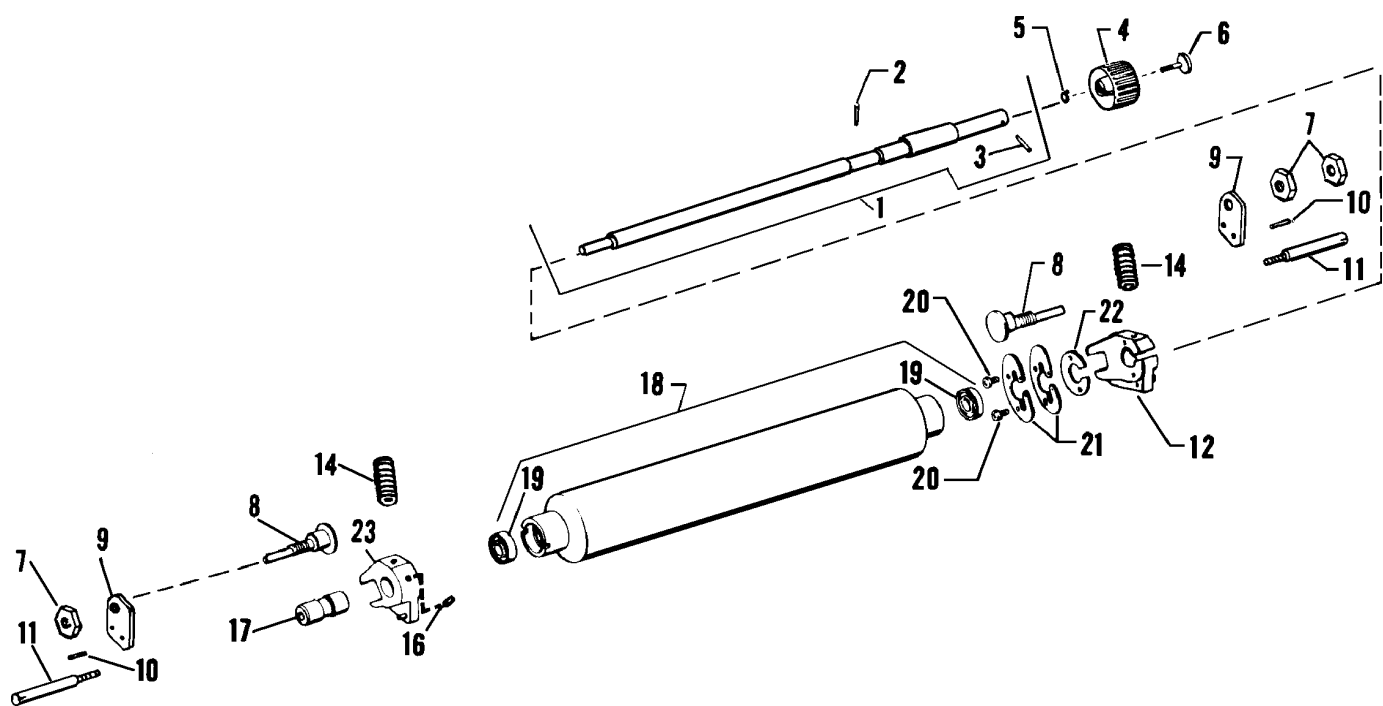


FIGURE 17
Upper Form Roller and Shaft Assembly

Parts Catalog

Index No.	Part No.	Figure 17 Description	Units Per Assy.
1	007599	SHAFT ASSEMBLY - Form Roller	2
2	001978	PIN - Roll, .135 x .765	1
3	001980	PIN - Roll, .135 x .640	1
4	017735	KNOB - Form Roller	2
5	039642	RING - Vinyl, .135 I.D.	3
6	196246	SCREW - 10-32 x 9/16	2
7	014819	NUT - 5/16-24	4
8	076481	SCREW - Eccentric Adjusting, 5/16-24	4
9	072272	LEVER - Lock	4
10	014912	PIN - Roll, .167 O.D. x .515	4
11	072271	STUD - Locking, 10-32	4
12	073444	LEVER - Upper Form Roller, 2" Dia., O.S.	1
26	014507	RING - Retaining External, .095 I.D. x .019	2
14	073338	SPRING - Compression, .572 O.D. x 1.265 O.A.L. x .059	2
15	076124	SPRING - Compression, .537 O.D. x 1.343 O.A.L. x .063	2
16	014108	SCREW - Set, 10-32 x 3/8	2
17	073327	SLEEVE - Form Roller	2
18	173627	ROLLER ASSEMBLY - Upper Form 2" Dia., Rubber (Gray)	1
18	007567	ROLLER ASSEMBLY - Upper Form 2" Dia., Rubber	1
19	073316	BEARING - Ball, .437 I.D. x .906 O.D. x .312	2
20	001577	SCREW - 8/32 x 7/16	4
21	073098	RETAINER - Stop Plate	4
22	073097	PLATE - Stop	2
23	073446	LEVER - Upper Form Roller, 2" Dia., N.O.S.	1

Parts Catalog

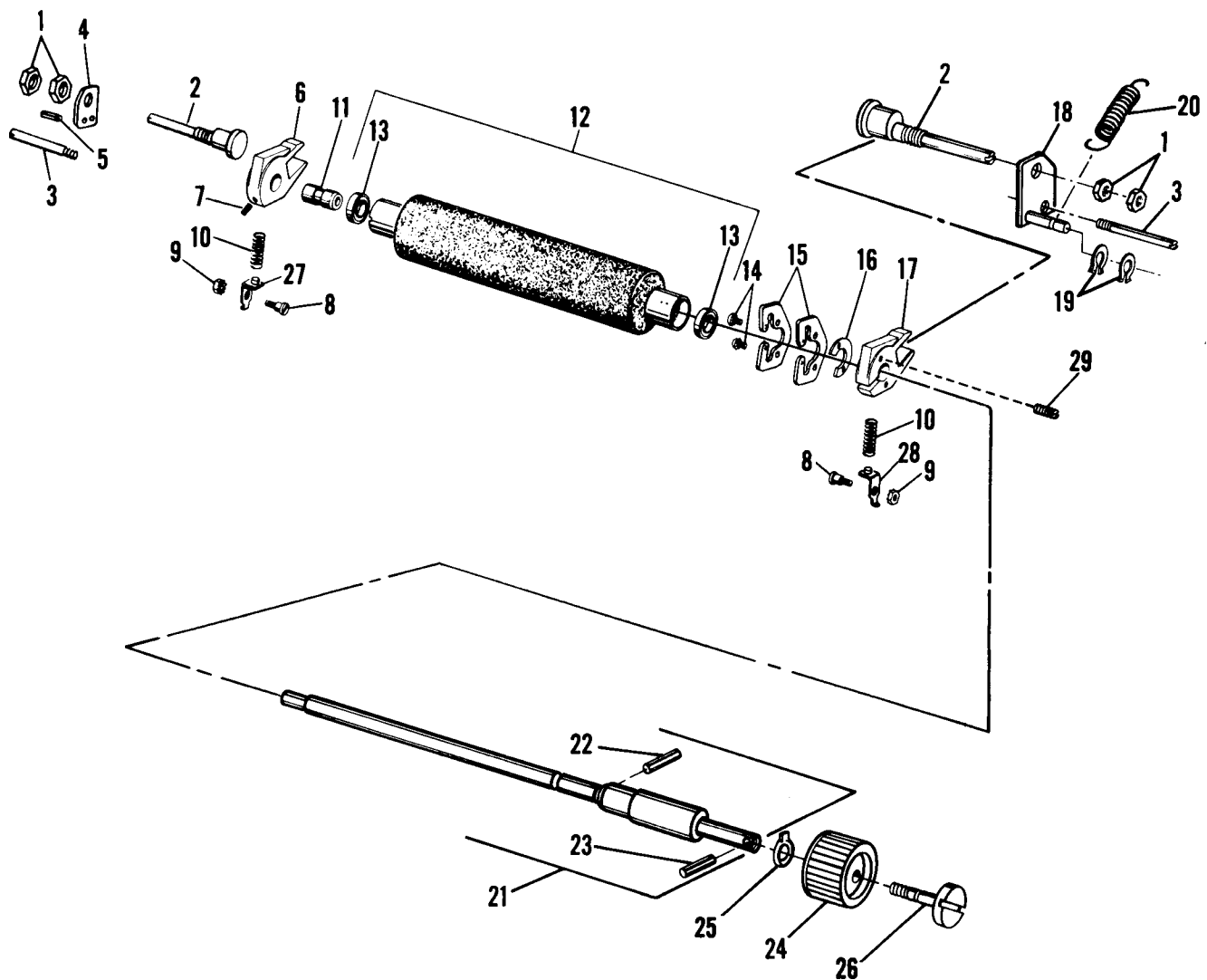


FIGURE 18
Lower Form Roller and Shaft Assembly

Parts Catalog

Index No.	Part No.	Figure 18 Description	Units Per Assy.
1	014819	NUT - 5/16-24	2
2	076481	SCREW - Eccentric Adjusting, 5/16-24	2
3	072271	STUD - Locking, 10-32	2
4	072272	LEVER - Locking, Stud N.O.S.	1
5	014912	PIN - Roll, .167 O.D. x .515 O.A.L.	1
6	073445	FORM ROLL LEVER - N.O.S.	1
7	014108	SCREW - Set, 10-32 x 3/8	1
8	193917	SCREW - Dowel, 1/4-28 x 5/16	2
8	150085	NUT - 1/4-28	2
10	195930	SPRING - Compression, .510 I.D. x 1-1/4 O.A.L. (White)	2
11	073327	SLEEVE - Form Roller	1
12	173628	ROLLER ASSEMBLY - Lower Form (2.4 Diameter) (Gray)	1
12	007565	ROLLER ASSEMBLY - Lower Form (2.4 Diameter)	1
13	073316	BEARING - .437 I.D. x .906 O.D.	2
14	001577	SCREW - 8-32 x 7/16	2
15	073098	RETAINER - Stop Plate	2
16	073097	PLATE - Stop	1
17	073443	FORM ROLL LEVER - O.S.	1
18	017626	LEVER - Locking, Stud O.S.	1
19	100741	RING - Retaining, .146 I.D.	2
20	192152	SPRING - 17/64 O.D. x 3-5/64 O.A.L.	1
21	007599	SHAFT ASSEMBLY - Form Roller	1
22	001978	PIN - Roll, .135 O.D. x .765 O.A.L.	1
23	001980	PIN - Roll, .135 O.D. x .640 O.A.L.	1
24	017735	KNOB	1
25	039642	RING - Vinyl, .135 I.D.	1
26	196246	SCREW - Dowel, 1/4-28	1
27	072278	ANCHOR - Spring, N.O.S.	1
28	072277	ANCHOR - Spring, O.S.	1
29	101033	SCREW - Set 8-32 x 1/2	1

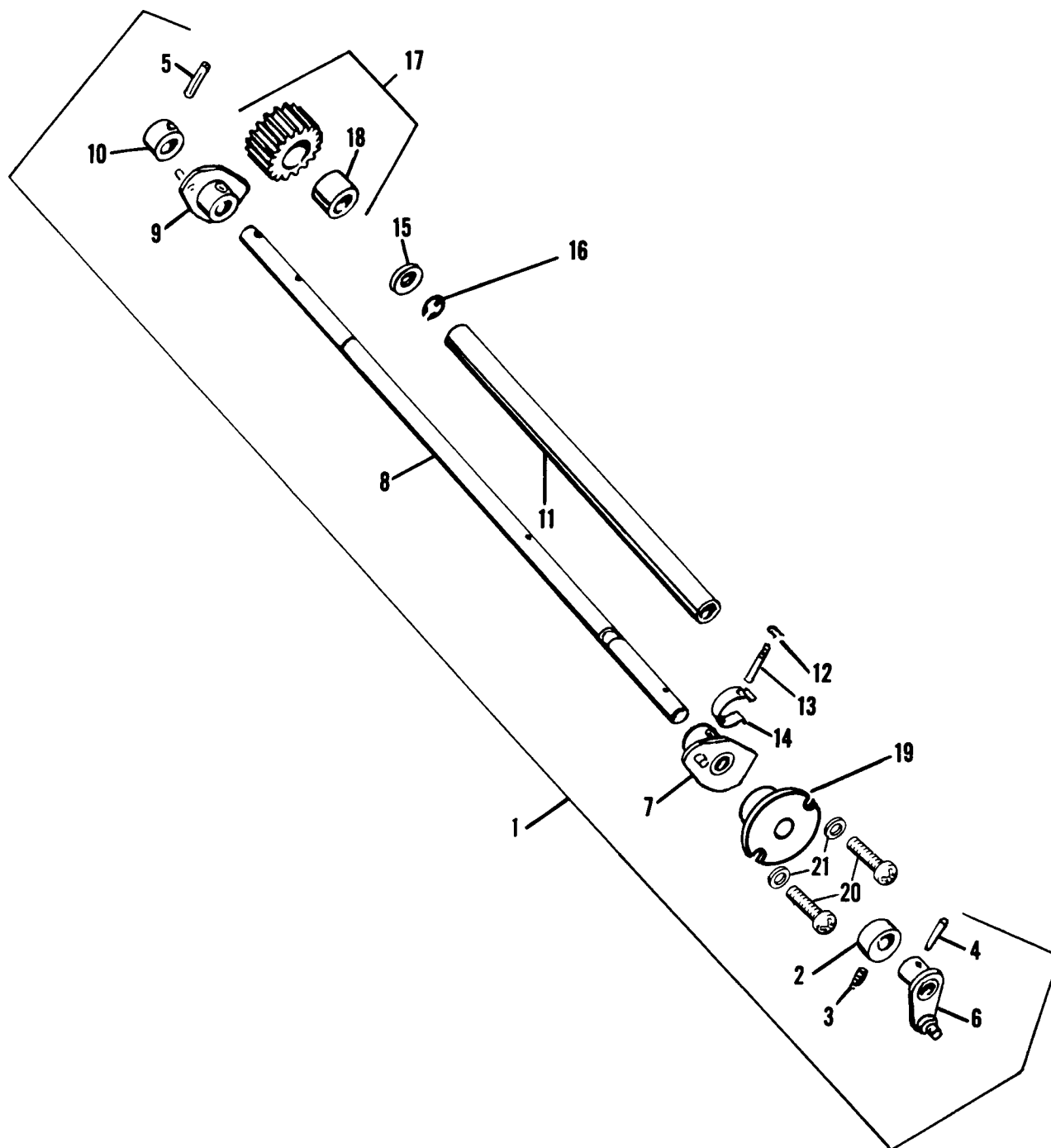


FIGURE 19
Form Roller Separator Shaft

Parts Catalog

Index No.	Part No.	Figure 19 Description	Units Per Assy.
1	017619	SHAFT ASSEMBLY - Form Roller Separator	1
2	071594	COLLAR - Eccentric	1
3	014372	SCREW - Set, 10-32 x 1/4	1
4	000009	PIN - Taper, .750 O.A.L.	1
5	001978	PIN - Roll, .135 O.D. x .765 O.A.L.	1
6	*017620	LEVER - Separating	1
7	*071649	CAM - O.S. Form Roller Separator	1
8	*007554	SHAFT - Form Roller Separator	1
9	*071648	CAM - N.O.S. Form Roller Separator	1
10	*055535	COLLAR - Separator Shaft	1
11	192763	TUBE - .572 I.D. x .622 O.D. x 1.077	1
12	014507	RING - Retaining, .097 I.D.	2
13	190382	PIN - Spring Clip	2
14	190383	CLIP - Spring	2
15	192798	WASHER - .507 I.D.	1
16	100969	RING - Retaining, .447 I.D.	1
17	076386	GEAR - Idler	1
18	001427	BUSHING - .503 I.D. x .628 O.D. x .880 O.A.L.	1
19	073029	BEARING HOUSING	2
20	111068	SCREW - 1/4-28 x 5/16	4
21	021203	WASHER - .255 I.D. x .500 O.D.	4

* Not Procurable Separately

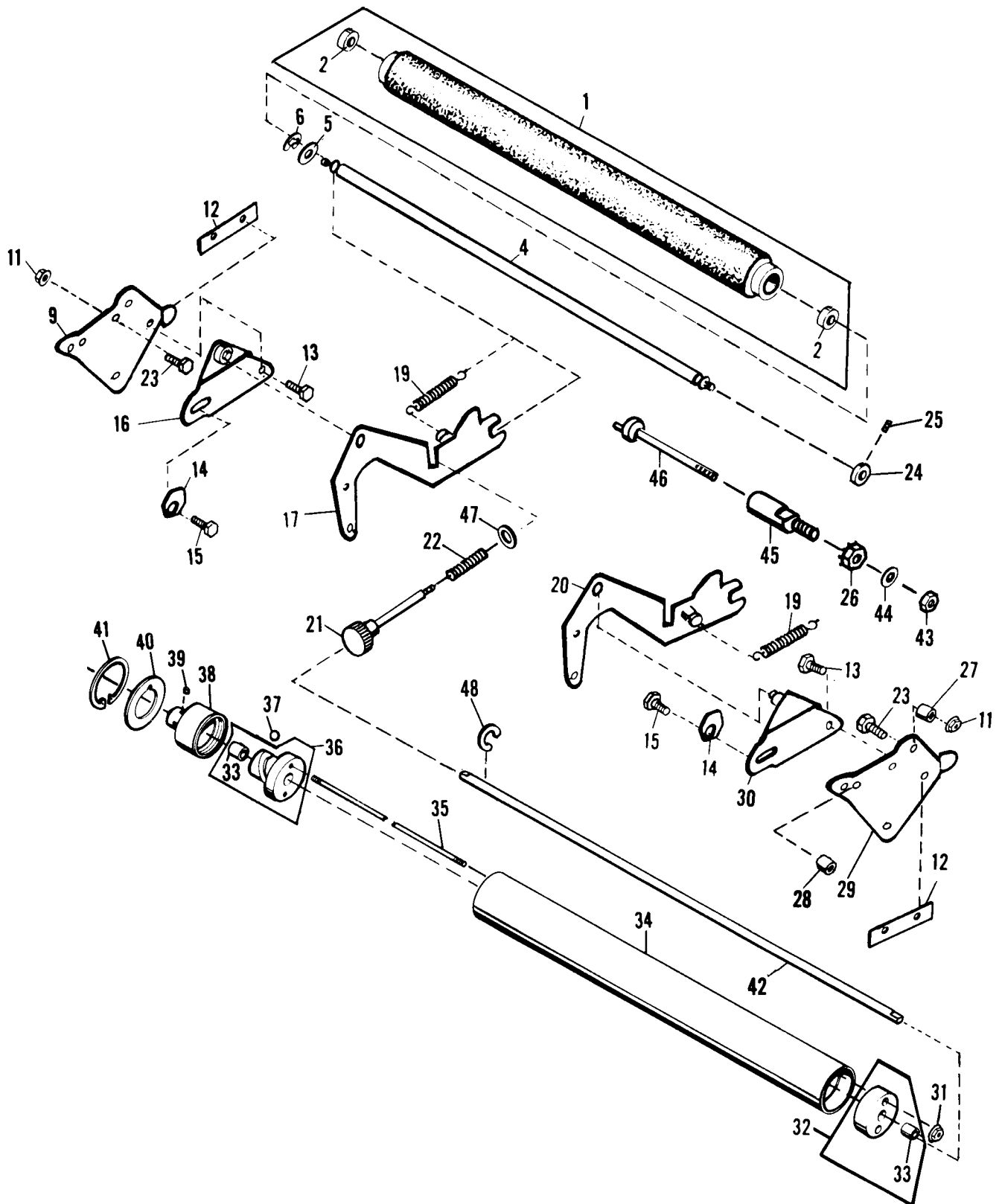


FIGURE 20
Form Roller - Third

Parts Catalog

Index No.	Part No.	Figure 20 Description	Units Per Assy.
1	022736	ROLLER - Form, 3rd - 2.095 D.I.A.	1
2	073316	BEARING - .906 O.D. x .437 I.D.	2
4	022739	SHAFT - Form Roller	1
5	190149	WASHER - .443 I.D. x 11/16 O.D. x .030	1
6	001075	RING - Retaining, .397 I.D. x .037	1
9	022743	PLATE - Mounting, N.O.S.	1
11	150085	NUT - 1/4-28	4
12	022740	NUTPLATE	2
13	191734	SCREW - Dowel, .250 O.A.L.	2
14	083594	ECCENTRIC	2
15	111074	SCREW - 1/4-28 x 3/4	2
16	022728	PLATE ASSEMBLY - Adjusting, N.O.S.	1
17	022731	BRACKET ASSEMBLY - Support, N.O.S.	1
19	021457	SPRING - Tension, .390 O.D. x 1.75 O.A.L. x .054	2
20	022729	BRACKET ASSEMBLY - Support, O.S.	1
21	022744	SCREW - Shoulder	2
22	196787	SPRING - Compression, .480 O.D. x 1" O.A.L. x .059	2
23	191733	SCREW - Dowel, 1.171 O.A.L.	4
24	196778	COLLAR	1
25	001207	SCREW - Set, 8-32	1
26	014810	NUT - 3/8-24	2
27	191736	SPACER - .317 I.D. x .750 O.D. x .599	1
28	195387	SPACER - .317 I.D. x .500 O.D. x .599	1
29	022743	PLATE - Mounting, O.S.	1
30	022727	PLATE ASSEMBLY - Adjusting, O.S.	2
31	196475	NUT - Special	2
32	080694	PLUG ASSEMBLY - Oscillating Roller	1
33	001497	BUSHING	1
34	007577	ROLLER - Oscillating, Nylon	1
35	007580	ROD - Tie	2
36	080695	PLUG AND CAM ASSEMBLY	1
37	080699	BALL	1
38	080263	CAP	1
39	014390	SCREW - Set, 1/4-28 x 1/4	2
40	080698	GUARD	1
41	014523	RING - Retaining, 2.346 I.D. x 2.600 O.D. x .081	1
42	022734	SHAFT - Oscillating Roller, 3rd Form	1
43	001812	NUT - 10-32	2
44	016558	WASHER - Plain, .203 I.D. x 9/16 O.D. x .058	2
45	196769	STUD - Adjust	2
46	022781	STUD - Eccentric	2
47	001766	WASHER - Plain, .325 I.D. x 1/2 O.D. x .030	2
48	100969	RING - Crescent, 1/2" Shaft	1
49	001046	RING - .283 I.D. x .027 (Not Illustrated)	1

Parts Catalog

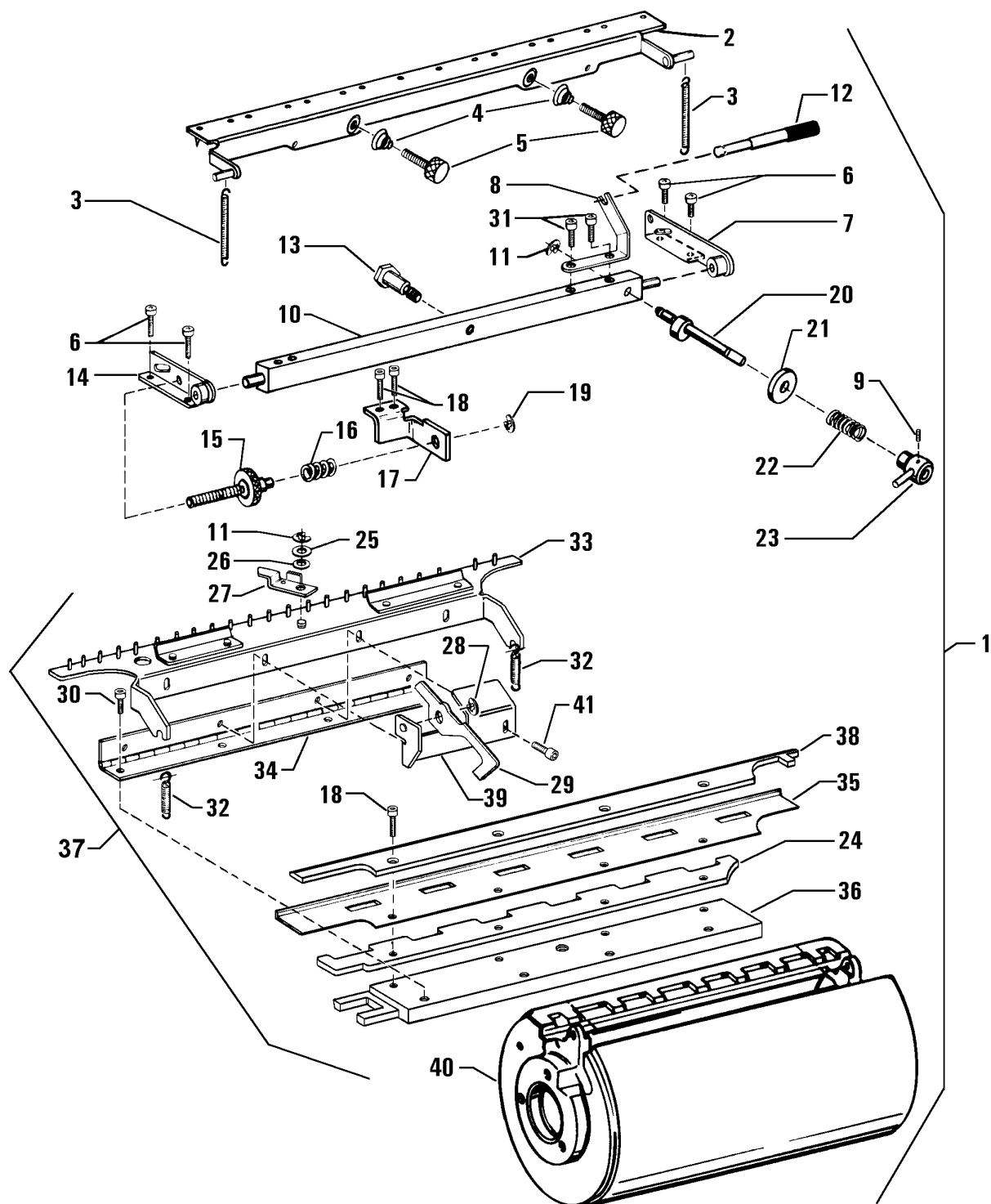


FIGURE 21
Master Cylinder Assembly - Part I

Parts Catalog

Index No.	Part No.	Figure 21 Description	Units Per Assy.
1	009770	MASTER CYLINDER ASSEMBLY - Complete (Additional parts on next page, Fig.22)	1
2	009774	TAIL CLAMP ASSEMBLY	1
3	190137	SPRING - 13/32 O.D. x 2-5/8 O.A.L.	2
4	192997	SPRING - Conical, .270 I.D. x .530 I.D. x 19/32 O.A.L.	2
5	195006	SCREW - Thumb, Tail Clamp, 1/4-28 x 7/8	2
6	014215	SCREW - 10-32 x 3/8	4
7	402188	BRACKET - Clamp, N.O.S.	1
8	402179	BRACKET - Clamp, Positioning	1
9	001207	SETSCREW	1
10	018602	BAR	1
11	001060	RING - Retaining, .208 I.D.	2
12	194695	PIN - Spring Anchor	4
13	196425	SCREW - Pivot	1
14	402190	BRACKET ASSEMBLY - Clamp, R.H.	1
15	402177	KNOB - Lateral Adjustment	1
16	190329	SPRING - Compression, 11/32 I.D. x 3/8 O.A.L.	1
17	018596	BRACKET - Lateral Adjustment	1
18	101193	SCREW - Cap	6
19	014504	RING - Retaining, .146 I.D.	1
20	402176	ECCENTRIC - Swivel Adjustment	1
21	195837	WASHER - 17/64 I.D. x 3/4 O.D. x .125	1
22	077836	SPRING - Compression, 25/64 O.D. x 23/32 O.A.L.	1
23	402173	KNOB ASSEMBLY - Swivel Adjustment	1
24	402184	BLOCK - Jaw Support	1
25	003268	WASHER - .255 I.D. x .500 O.D x .047.	1
26	001725	WASHER - 17/64 I.D. x 7/16 O.D.	1
27	402178	LEVER - Lockout	1
28	001095	RING - Retaining, .245 I.D.	1
29	402180	LEVER	1
30	014215	SCREW - Cap, 10-32 x 3/8	4
31	014215	SCREW	6
32	197425	SPRING - 17/64 I.D. x 2.000 O.A.L.	2
33	402165	CLAMP ASSEMBLY - Universal	1
34	402182	HINGE ASSEMBLY	1
35	402186	CLAMP - Lower Jaw	1
36	402185	BAR - Radial Adjustment	1
37	402187	HEAD CLAMP ASSEMBLY	1
38	402183	PLATE	1
39	402181	BRACKET, Lever	1
40	009751	MASTER CYLINDER	1
41	101001	SCREW - Precoat	4

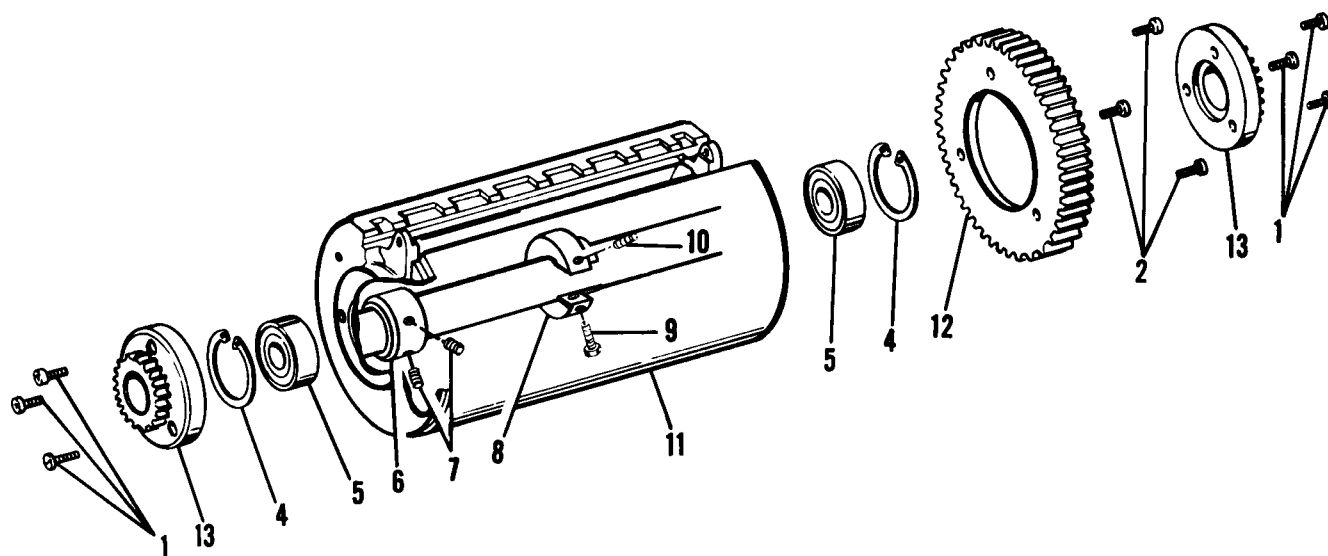


FIGURE 22
Master Cylinder Assembly - Part II

Parts Catalog

Index No.	Part No.	Figure 22 Description	Units Per Assy.
1	014111	SCREW - 1/4-28 x 5/8	6
2	100653	SCREW - 1/4-28 x 3/4	3
4	014516	RING - Retaining, 2.742 O.D.	2
5	080814	BEARING	2
6	080820	COLLAR - Cylinder Locking.....	1
7	014206	SCREW - Set, 1/4-28 x 3/8	2
8	009794	COLLAR ASSEMBLY	1
9	100201	SCREW - 1/4-28 x 7/8	1
10	100167	SCREW - Set, 1/4-28 x 5/8	1
11	009751	MASTER CYLINDER	1
12	009791	GEAR - Master Cylinder	1
13	080910	GEAR - Ducting Gear	2

Parts Catalog

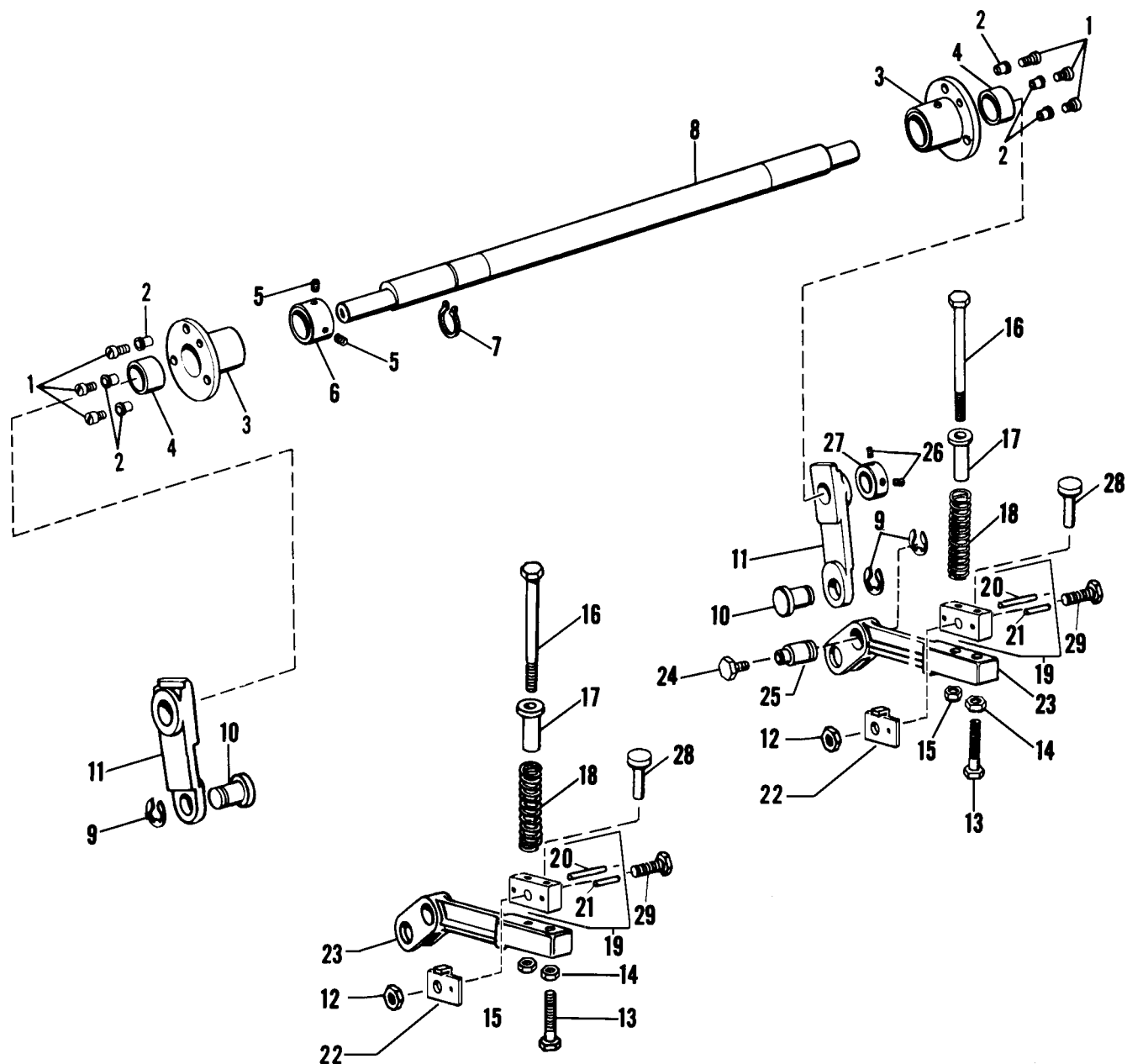


FIGURE23
Master Cylinder Shaft and Support Arms

Parts Catalog

Index No.	Part No.	Figure 23 Description	Units Per Assy.
1	100141	SCREW - 1/4-28 x 1/2	6
2	080972	SPACER - Master Cylinder, Shaft Bearing	6
3	082057	BEARING ASSEMBLY	2
4	*193603	BUSHING - 1.125 I.D. x 1.315 O.D. x .625	2
5	014206	SCREW - Set, 1/4-28 x 3/8	2
6	080820	COLLAR - Shaft	1
7	014517	RING - Retaining External, 1.039 I.D. x .052	1
8	007628	SHAFT - Master Cylinder	1
9	001094	RING - Retaining External, .394 I.D. x .044	3
10	072394	PIVOT - Support Link	2
11	080911	LINK SUPPORT - Master Cylinder	2
12	150089	NUT - 3/8-24	2
13	195721	SCREW - 5/16-18 x 1-1/2	2
14	001834	NUT - 5/16-18	2
15	001821	NUT - 1/4-28	2
16	014172	BOLT - 1/4-28 x 3-3/4	2
17	072416	GUIDE - Support arm Spring	2
18	194808	SPRING - Compression, .794 O.D. x 2.937 O.A.L. x .090	2
19	010372	BLOCK - Support Arm, W/Gap Control	2
20	100131	PIN - Roll, .199 O.D. x 1.230 O.A.L.	1
21	014972	PIN - Spiral, .202 O.D. x .937 O.S.	1
22	078346	LEVER - Stop,	2
23	083313	SUPPORT ARM - Master Cylinder	2
24	080715	SCREW - Support Arm Stud, 5/16-24	2
25	017077	STUD - Support Arm	2
26	014390	SCREW - Set, 10-32 x 1/4	2
27	080956	COLLAR - .504 I.D. x 15/16 O.D. x 13/32	1
28	080447	PIN - Separator	2
29	014121	SCREW - 3/8-24 x 1-1/4	2

* Not Procurable Separately

Parts Catalog

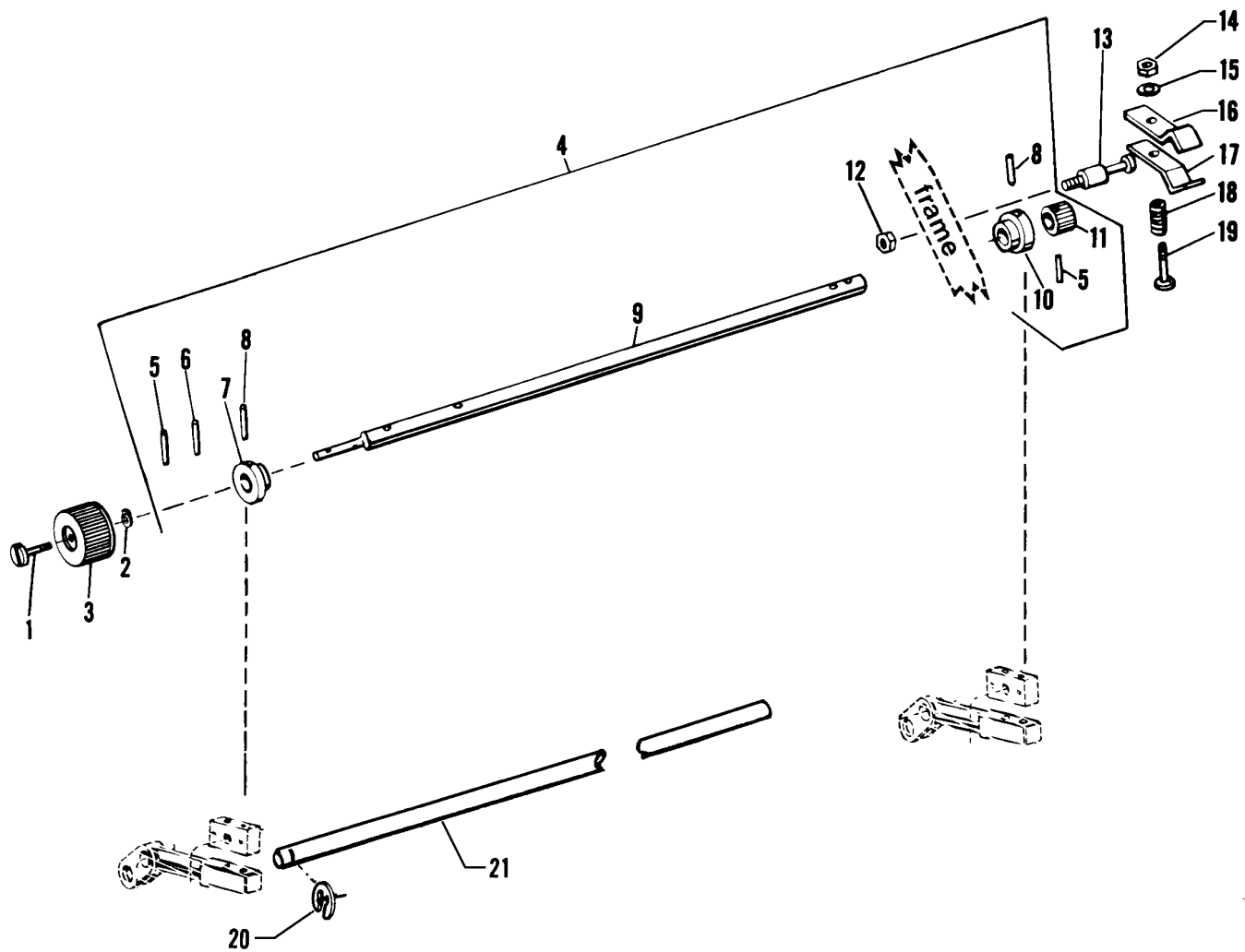


FIGURE 24
Gap Control - Master Cylinder

Parts Catalog

Index No.	Part No.	Figure 24 Description	Units Per Assy.
1	196246	SCREW - Special, 10-32 x 3/4	1
2	039642	RING - Vinyl, .135 I.D. x .075	1
3	017735	KNOB	1
4	078338	SHAFT ASSEMBLY - Gap Control,	1
5	001980	PIN - Roll, .135 O.D. x .640 O.A.L.	2
6	101876	PIN - Roll, .135 O.D. x 1.575 O.A.L.	1
7	080448	CAM - O.S.	1
8	001992	PIN - Roll, .135 O.D. x 1.015 O.A.L.	2
9	*078337	SHAFT - Gap Control	1
10	080449	CAM - N.O.S.	1
11	073551	DRAG - Gap Clamp	1
12	150085	NUT - 1/4-28	1
13	193323	STUD - 1/4-28	1
14	101051	NUT - 10-32	1
15	001702	WASHER - .195 I.D. x .500 O.D. x .029	1
16	080452	CLAMP	2
18	077836	SPRING - Compression, .400 O.D. x .718 O.A.L.	1
19	077301	SCREW - Shoulder, 10-32	1
20	001060	RING - Retaining, .208 I.D.	1
21	007980	SHAFT - Table Support	1

* Not Procurable Separately

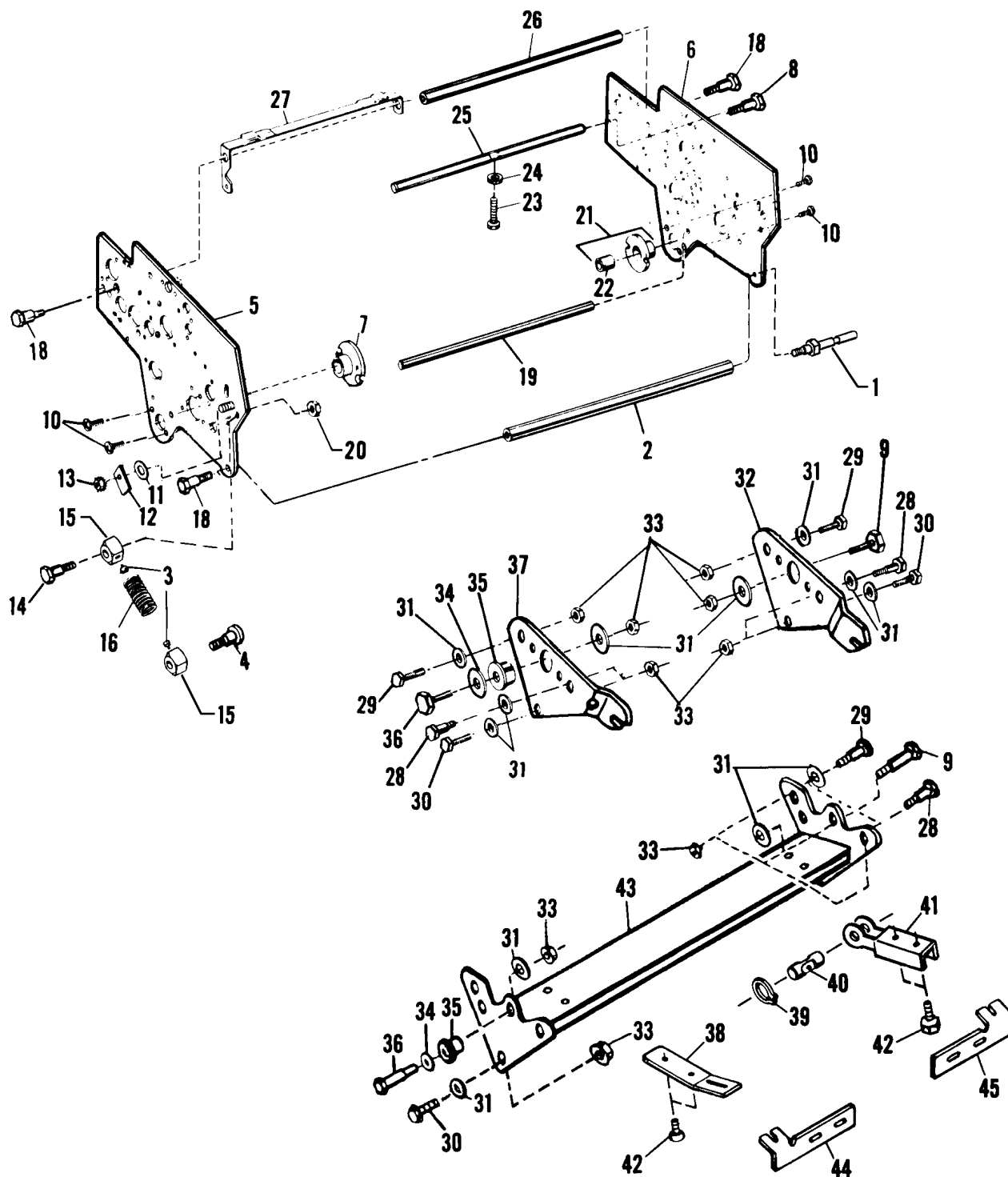


FIGURE 25
Ink Head Side Frames Part I

Parts Catalog

Index No.	Part No.	Figure 25 Description	Units Per Assy.
1	084407	SHAFT	1
2	007575	TIE BAR	1
3	073330	SCREW - Special, 10-32	4
4	072349	SCREW - Eccentric, 1/4-28	2
5	016206	FRAME - Upper, O.S.	1
6	016207	FRAME - Upper, N.O.S.	1
7	074324	BUSHING ASSEMBLY - Eccentric	1
8	196264	SCREW - Dowel, 1/4-28	2
9	073140	SCREW - Pivot, 3/8-24 x 5/8	1
10	111054	SCREW - 10-32 x 1/2	4
11	021268	WASHER - .265 I.D. x .437 O.D.	3
12	007745	GUIDE	3
13	150085	NUT - 1/4-28	3
14	072349	SCREW	1
15	072389	BLOCK - Eccentric, Spring	4
16	072424	SPRING - Compression, .537 O.D. x 1.343 O.A.L.	2
18	193601	SCREW - Shoulder, 5/16-24	5
19	025124	TIE BAR	1
20	014807	NUT - 1/4 - 28	4
21	074323	BUSHING ASSEMBLY - N.O.S.	1
22	014606	BUSHING - .629 I.D. x .753 O.D. x .630 O.A.L.	1
23	001260	SCREW - Adjusting, 10-32 x 1-1/4	1
24	001812	KNOB	1
25	017996	TIE BAR	1
26	008024	TIE BAR	1
27	007582	REST ASSEMBLY - (TD and CO)	1
28	191427	SCREW - Shoulder, 3/8-24	2
29	194823	SCREW - Shoulder, 3/8-24	2
30	111099	SCREW - 3/8-24 x 7/8	2
31	191428	WASHER - .510 I.D. x 1.000 O.D.	8
32	013495	PLATE - Head Support, N.O.S.	1
33	150089	NUT - 3/8-24	8
34	021911	WASHER - .578 I.D. x .875 O.D.	1
35	084289	BUSHING - Eccentric	1
36	084291	SCREW - Shoulder, 3/8-24	1
37	013494	PLATE - Head Support, O.S.	1
38	022839	GUIDE - Lateral,	1
39	001047	RING - Retaining, .340 I.D. x .027	4
40	022745	TRUNNION	2
41	022746	YOKE - Trunnion, Mounting	2
42	111051	SCREW - 10-32 x 5/16	6
43	022748	TIE BAR ASSEMBLY	1
44	022844	GUIDE - Lateral O.S.	1
45	022845	GUIDE - Lateral N.O.S.	1

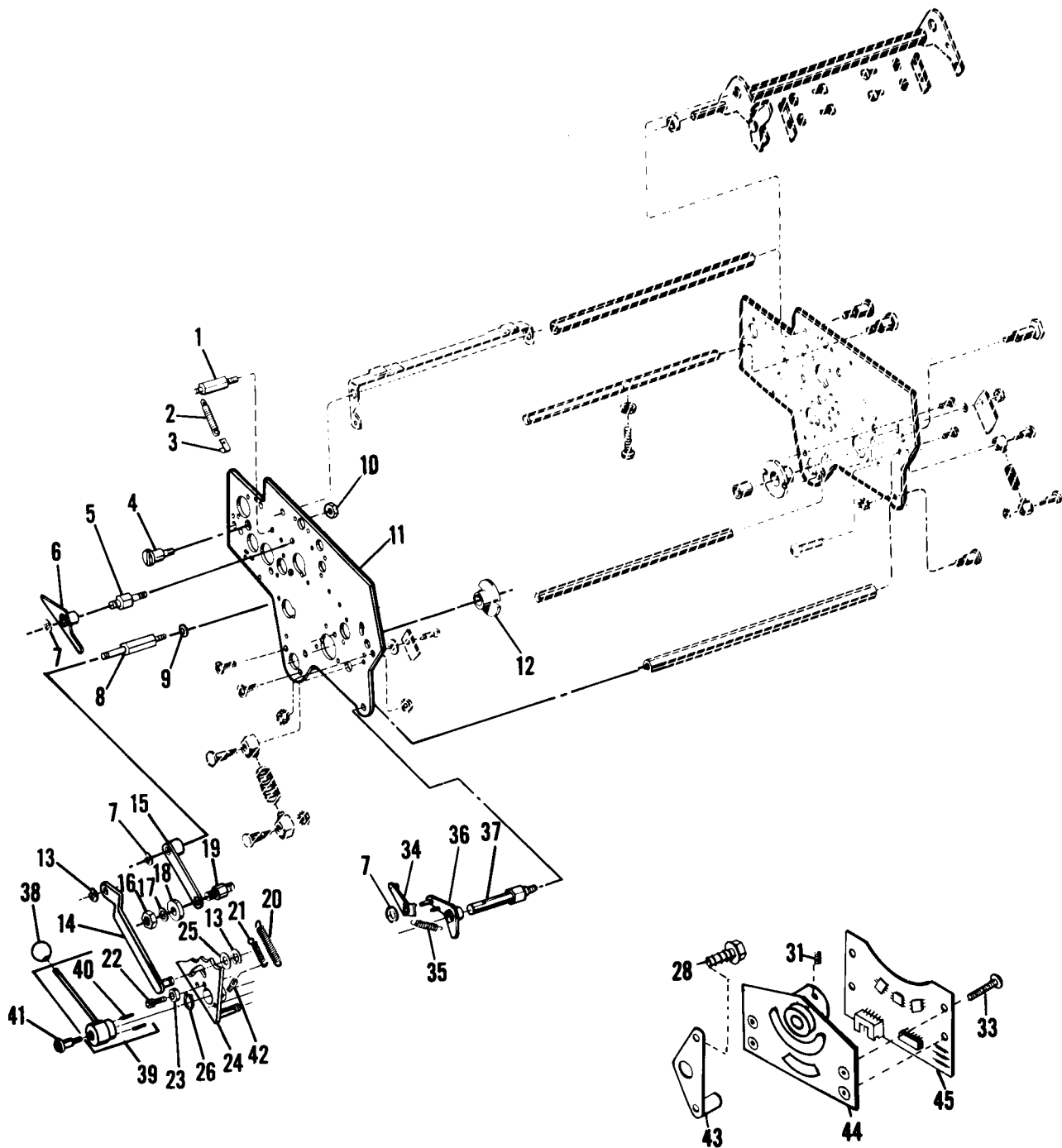


FIGURE 26
Ink Head Side Frames Part II

Parts Catalog

Index No.	Part No.	Figure 26 Description	Units Per Assy.
1	075644	STUD - Spring	
2	064589	SPRING - Tension, .250 O.D. x 1.187 O.A.L.	1
3	073107	HOOK - Spring	1
4	193601	SCREW - Shoulder, 5/16-24	3
5	191034	STUD - Lockout Lever, 1/4-28	1
6	071611	LEVER - Aquamatic Lockout	1
7	001060	RING - Retaining, .208 I.D.	3
8	402024	STUD - Detent Lever	1
9	006936	WASHER	1
10	014808	NUT - 10-32	1
11	016206	FRAME - Upper, O.S.	1
12	074324	BUSHING ASSEMBLY - Eccentric	1
13	001095	RING - Retaining, .245 I.D.	2
14	071596	LINK - Control	1
15	071606	LEVER - Detent	1
16	001812	NUT - 10-32	1
17	000666	WASHER - Lock, .194 I.D. x .281 O.D.	1
18	064234	TRUCK - Detent Lever	1
19	191934	STUD - Spring	1
20	065402	SPRING - Tension, .375 O.D. x 1.593 O.A.L.	1
21	073542	SPRING - Tension, .390 O.D. x 1.281 O.A.L.	1
22	014350	SCREW - 10-32 x 5/16	1
23	071610	DISC - Eccentric	1
24	075537	CAM - Sequence Control	1
25	018062	WASHER - .328 I.D. x .625 O.D.	1
26	001048	RING - Retaining, .463 I.D.	1
28	100657	SCREW - 10-32 x 5/16	1
31	014372	SCREW - Set, 10-32 x 1/4	2
33	001541	SCREW - 6-32 x 1/4	4
34	016941	LEVER - Overtravel	1
35	022343	SPRING - 3/16 O.D. x 29/32 O.A.L.	1
36	016942	LEVER - Image Control	1
37	084407	STUD	1
38	017819	KNOB	1
39	017744	LEVER - Control	1
40	197456	PIN	2
41	196249	SCREW - Shoulder, 1/4-28	1
42	191939	STUD - Spring	1
43	017481	MAGNET ASSEMBLY - Hall Effect	1
44	017477	PLATE ASSEMBLY - Sensor, Hall Effect	1
45	017734	P.C. BOARD ASSEMBLY - Sensor, Hall Effect	1

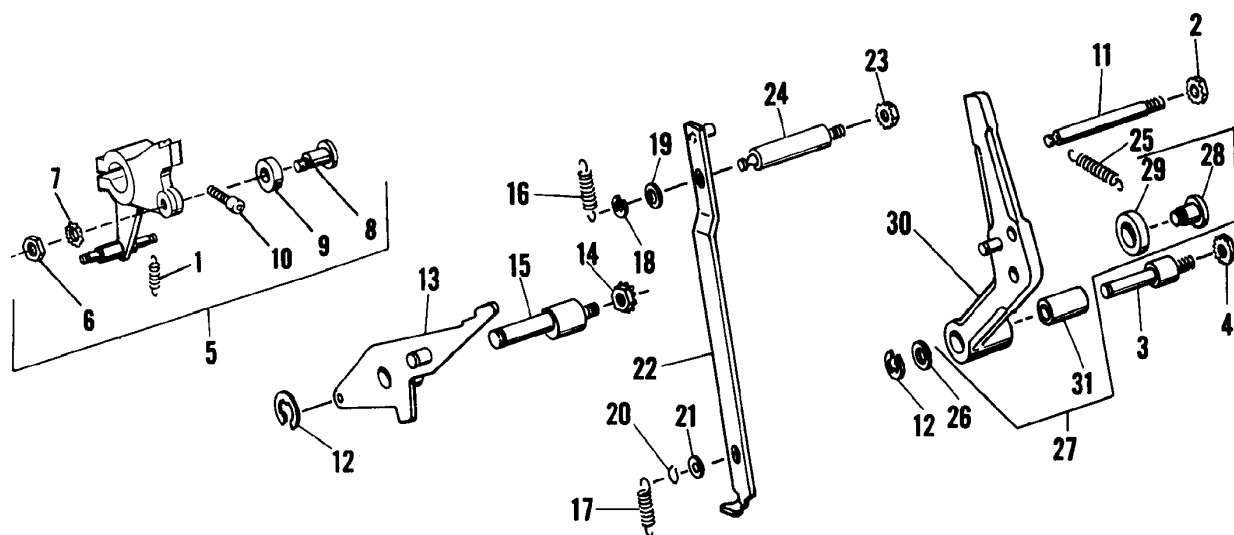


FIGURE 27
Master Cylinder Latch and Power Lever

Parts Catalog

Index No.	Part No.	Figure 27 Description	Units Per Assy.
1	190148	SPRING - Tension, .406 O.D. x 2.312 O.A.L.	1
2	014808	NUT - 10-32	1
3	072369	STUD - Power Lever	1
4	150085	NUT - 1/4-28	1
5	017627	LEVER ASSEMBLY - Master Cylinder	1
6	001818	NUT - 1/4-28	1
7	001740	WASHER - Lock, .262 I.D. x .500 O.D. x .025	1
8	072357	SCREW - Master Cylinder Lever, Eccentric	1
9	072358	SPACER - Master Cylinder Lever Screw	1
10	100891	SCREW - 1/4-20 x 1.000	1
11	072129	STUD - Power Lever Spring	1
12	001080	RING - Retaining, .302 I.D. x .660 O.D. x .037	2
13	072370	LATCH LEVER ASSEMBLY - Master Cylinder	1
14	001821	NUT - 1/4-28	1
15	072373	STUD - Latch Lever	1
16	072511	SPRING - Tension, .250 O.D. x 1.125 O.A.L.	1
17	041777	SPRING - Tension, .312 O.D. x 1.344 O.A.L.	1
18	001060	RING - Retaining, .208 I.D. x .527 O.D. x .027	3
19	003268	WASHER	1
20	001062	RING - Retaining, .250 I.D. x .027	1
21	016574	WASHER - .315 I.D. x .687 O.D. x .047	1
22	072386	LATCH LINK ASSEMBLY - Master Cylinder	1
23	150085	NUT - 1/4-28	1
24	072388	STUD - Latch Link	1
25	072442	SPRING - Tension, .343 O.D. x 2.000 O.A.L.	1
26	014727	WASHER - .382 I.D. x .750 O.D. x .029	1
27	400991	POWER LEVER ASSEMBLY- Master Cylinder	1
28	192323	SCREW - Eccentric	1
29	072367	TRUCK	1
30	*072038	POWER LEVER	1
31	001446	BUSHING - .379 I.D. x .503 O.D. x .875 O.A.L.	1

*Not Procurable Separately

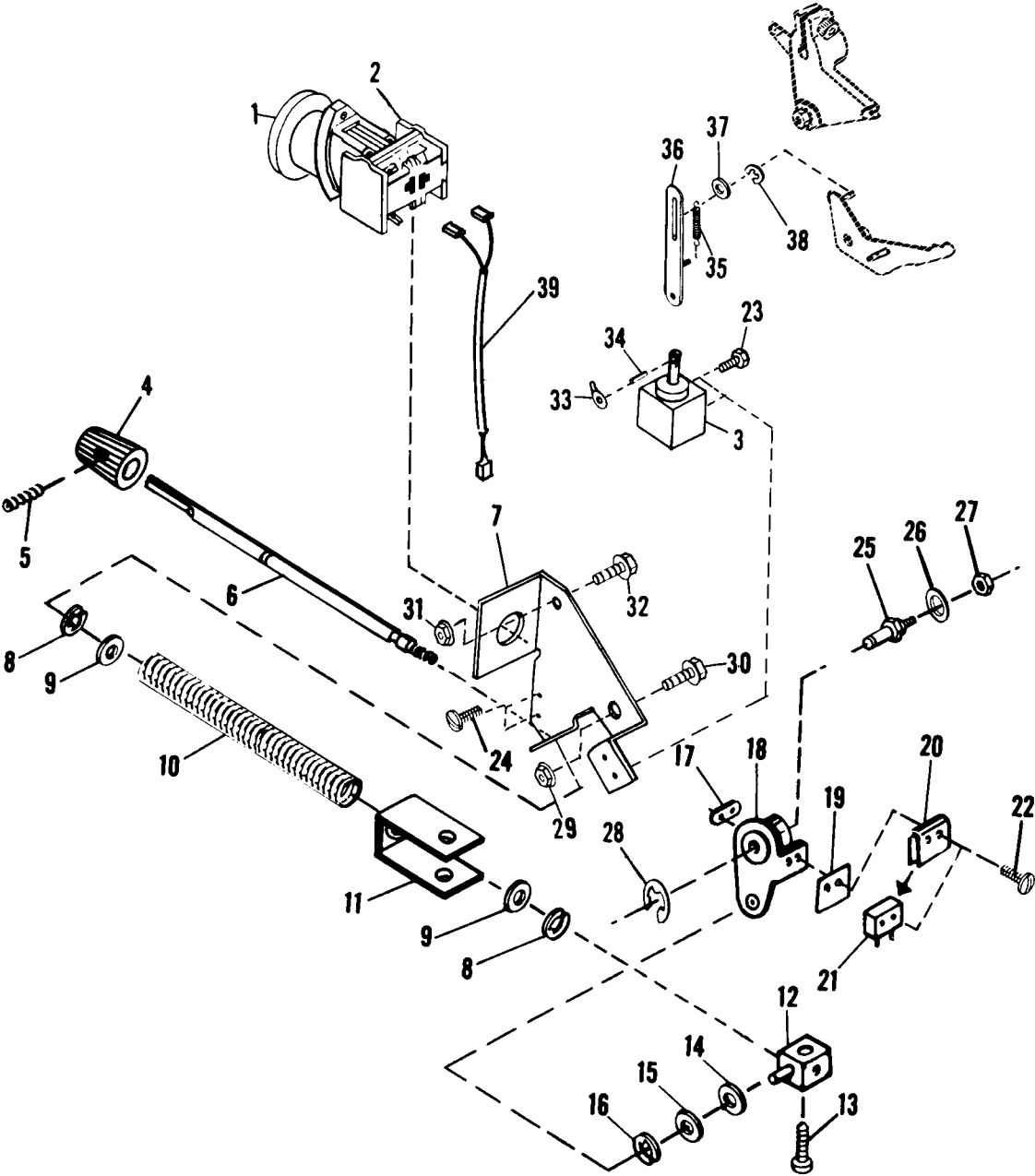


FIGURE 28
Emergency Stop and Doubles Switches

Parts Catalog

Index No.	Part No.	Figure 28 Description	Units Per Assy.
0	***	SWITCH ASSEMBLY - Doubles Detector	1
1	253474	ACTUATOR - Pushbutton, Stop	1
2	253475	SWITCH - 2PST, Emergency Stop	1
3	253578	SOLENOID - Master Latch, 115 VAC. 50/60 Hz.	1
4	016916	KNOB	1
5	001207	SCREW - Set, 8-32 x 3/16	1
6	016541	ROD - Detector Switch Adj.	1
7	025237	BRACKET - Mounting	1
8	001049	RING - Retaining, .227 I.D. x .027	2
9	005071	WASHER - .252 I.D. x .027	2
10	196423	SPRING - Compression, 25/64 O.D. x 5" O.A.L.	1
11	016741	BRACKET - Stop	1
12	011948	PIVOT - Detector Adj. Rod	1
13	001588	SCREW - 10-32 X 1/4	2
14	001772	WASHER - Friction, .376 I.D. x 750 O.D.	1
15	014727	WASHER - .375 I.D. x .750 O.D.	1
16	100740	RING - Retaining, .357 I.D. x .045	1
17	190483	NUT PLATE - 2-56	1
18	016739	BRACKET ASSEMBLY - Switch Mount	1
19	017159	INSULATOR - Switch Detector	1
20	192855	INSULATOR - Switch	1
21	253025	SWITCH - S.P.D.T., 1 Amp 125 VAC.	1
22	100490	SCREW - 2-56 x 1/2	2
23	111033	SCREW - 8-32 x 5/16	2
24	001586	SCREW - 8-32 x 5/16 (Old)	2
24	001575	SCREW - 10-32 x 5/16	2
25	196421	STUD - Switch Pivot, Chain Delivery	1
25	196420	STUD - Switch Pivot, Tray Delivery	1
26	061452	SPACER	1
27	154078	NUT - Lock, 1/4-28, Chain Delivery	1
27	078363	PIVOT - Cradle Arm, Tray Delivery	1
28	014511	RING - Retaining, .430 I.D. x .027	1
29	150089	NUT - 3/8-24	1
30	111098	SCREW - 3/8-24 x 3/4	1
31	150081	NUT - 8-32 (Old)	1
31	150083	NUT - 10-32	1
32	111036	SCREW - 8-32 x 1/2 (Old)	1
32	111054	SCREW - 10-32 x 1/2	1
33	014515	RING - Plastic, .080 I.D. x .160 O.D. x .025	2
34	190713	PIN - Solenoid	1
35	064673	SPRING - Tension, .250 O.D. x 1.578 O.A.L. x .024	1
36	025127	LINK ASSEMBLY	1
37	021203	WASHER - .254 I.D.	1
38	001060	RING - Retaining, .208 I.D. x .027	1
39	022802	CABLE ASSEMBLY - Stop Switch, 18"	1

** Not Salable As An Assembly

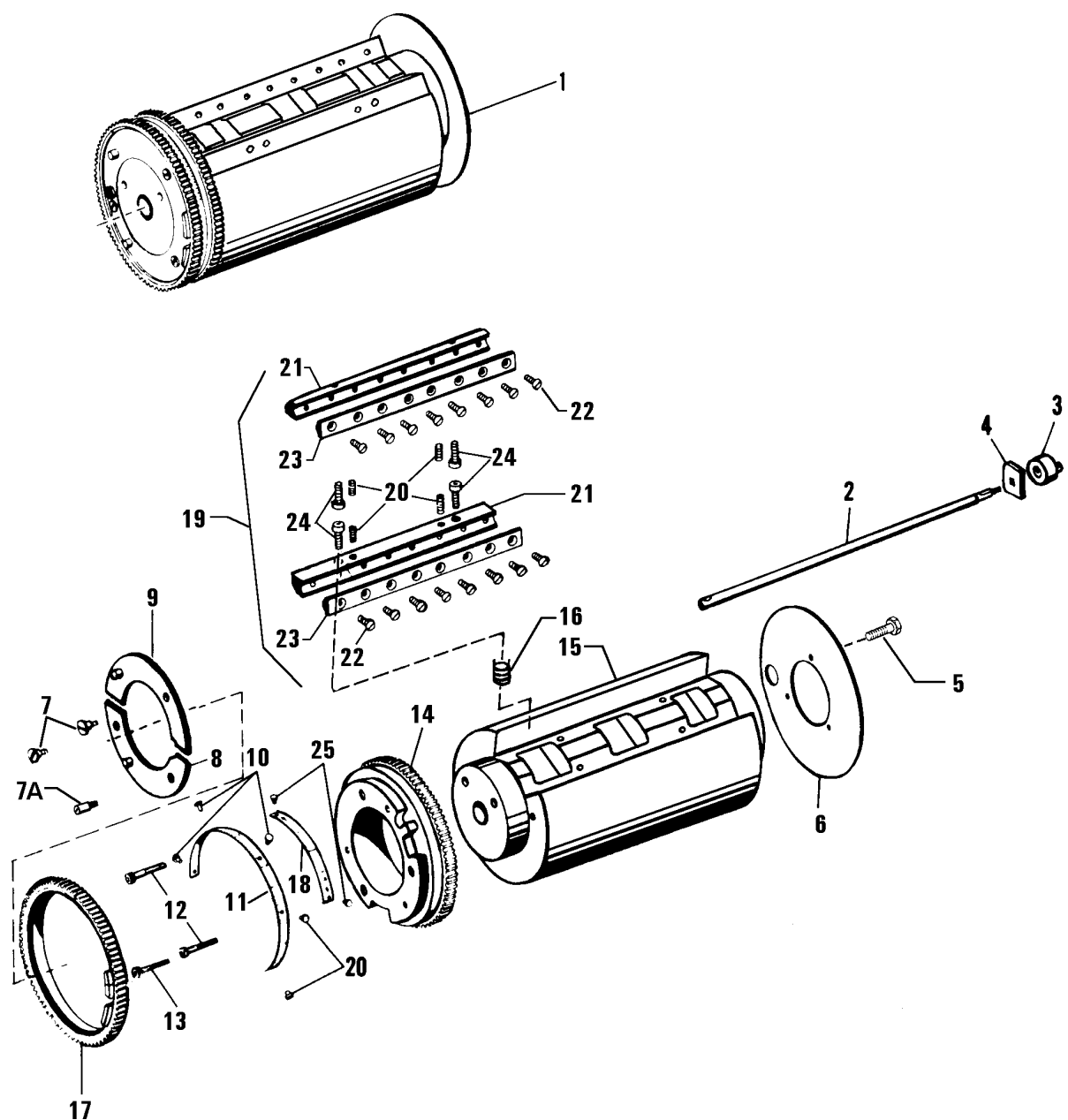


FIGURE 29
Blanket Cylinder - Part I

Parts Catalog

Index No.	Part No.	Figure 29 Description	Units Per Assy.
1	***	CYLINDER ASSEMBLY - Blanket.....	1
2	018580	ROD - Clamp.....	1
3	018469	NUT - Clamp Rod, 1/4-28.....	1
4	003586	WASHER - 7/8 I.D. x 3/4 O.D. x 1/16.....	1
5	111073	SCREW - Shield, 1/4-28 x 5/8.....	3
6	009553	SHIELD - Blanket Cylinder.....	1
7	020138	SCREW - Shoulder Dowel, 10-32.....	2
7A	078556	STUD.....	2
8	018575	RING ASSEMBLY - Blanket Cylinder, L.H.	1
9	018577	RING ASSEMBLY - Blanket Cylinder, R.H.	1
10	100508	SCREW - Drive, #00-3/16 O.A.L.	5
11	080719	SCALE - Vertical Print Adjustment.....	1
12	014157	SCREW - 1/4-28 x 1.250.....	2
13	078556	SCREW - 1/4-28 x 1.187.....	1
14	009554	GEAR - Blanket Cylinder.....	1
15	009551	CYLINDER - Blanket.....	1
16	100392	INSERT - 1/4-28 I.D. x 3/8-16 O.D.	4
17	009548	GEAR - Vertical Print Adjust.....	1
18	078552	INDICATOR - Vertical Print Adjusting.....	1
19	018405	BLANKET BAR KIT.....	A/R
20	014313	SCREW - Set, 1/4-28 x 1.000.....	4
21	007767	CLAMP - Body.....	2
22	014151	SCREW - 10-32 x .500.....	20
23	007766	CLAMP - Blanket.....	2
24	190236	SCREW - Blanket Clamp, 1/4-28.....	4
25	014570	PIN - Drive Lock, 3/16 O.A.L.	2

***Not Salable As An Assembly

BLANKET - Supply Item 4-4124 Hard M-9865/69

BLANKET - Supply Item 4-4125 Compressible

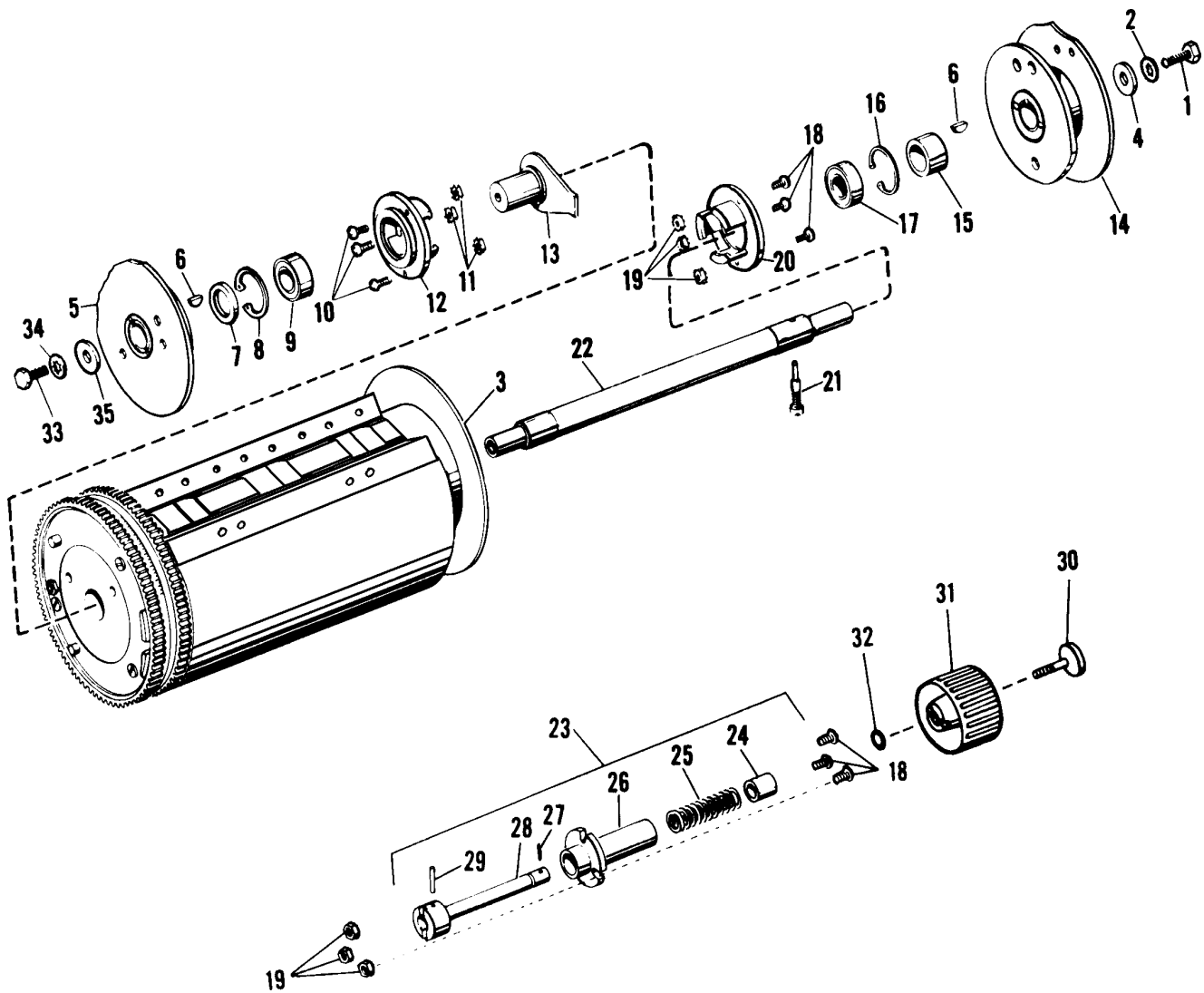


FIGURE 30
Blanket Cylinder - Part II

Parts Catalog

Index No.	Part No.	Figure 30 Description	Units Per Assy.
1	014192	SCREW - 5/16-24 x 3/4	2
2	014721	WASHER - Lock, .326 I.D. x .600 O.D. x .030	2
3	***	CYLINDER ASSEMBLY - Blanket	1
4	014748	WASHER - .328 I.D. x 1.250 O.D. x .093	2
5	009667	CAM ASSEMBLY - Blanket Cylinder N.O.S.	1
6	078527	KEY - Woodruff, #505	2
4	078551	SPACER - 1.000 I.D. x 1.500 O.D. x .259	1
8	001066	RING - Retaining, Internal, 2.320 O.D. x .081	1
9	078520	BEARING - .984 I.D. x 2.047 O.D.	1
10	111057	SCREW - 10-32 x 3/4	3
11	150083	NUT - 10-32	3
12	012705	HOUSING - L.H., Bearing	1
13	082103	ARM ASSEMBLY - Blanket Cylinder	1
14	017840	CAM ASSEMBLY - Blanket Cylinder O.S.	1
15	078524	SPACER - 51/64 I.D. x 1.250 O.D. x .547	1
16	001065	RING - Retaining, Internal, 2.089 O.D. x .065	1
17	078714	BEARING - .787 I.D. x 1.850 O.D.	1
18	111055	SCREW - 10-32 x 9/16	6
19	150083	NUT - 10-32	6
20	082172	HOUSING - R. H., Bearing	1
21	080718	SCREW - Special, 3/8-24 x 1-7/16	1
22	007633	SHAFT - Blanket Cylinder	1
23	009558	PRINT ADJUSTING ASSEMBLY	1
24	078542	BUSHING - .380 I.D. x .562 O.D. x .750 O.A.L.	1
25	078541	SPRING - Compression, .510 O.D. x 1.156 O.A.L.	1
26	076856	HOUSING - Print Adjusting	1
27	014921	PIN - Roll, .135 O.D. x .890 O.A.L.	1
28	009559	ROD ASSEMBLY - Print Adjusting	1
29	001987	PIN - Roll, .167 O.D. x .890 O.A.L.	1
30	196248	SCREW - Special, 10-32 x 7/8	1
31	017739	KNOB - Print Adjusting	1
32	039642	RING - Vinyl, .135 x .075	1
33	100649	SCREW - Flat Head, 5/16-24 x 3/4	1
34	100647	WASHER - Tooth, 5/16 I.D.	1
35	191482	WASHER - Special	1

*** Not Salable As An Assembly

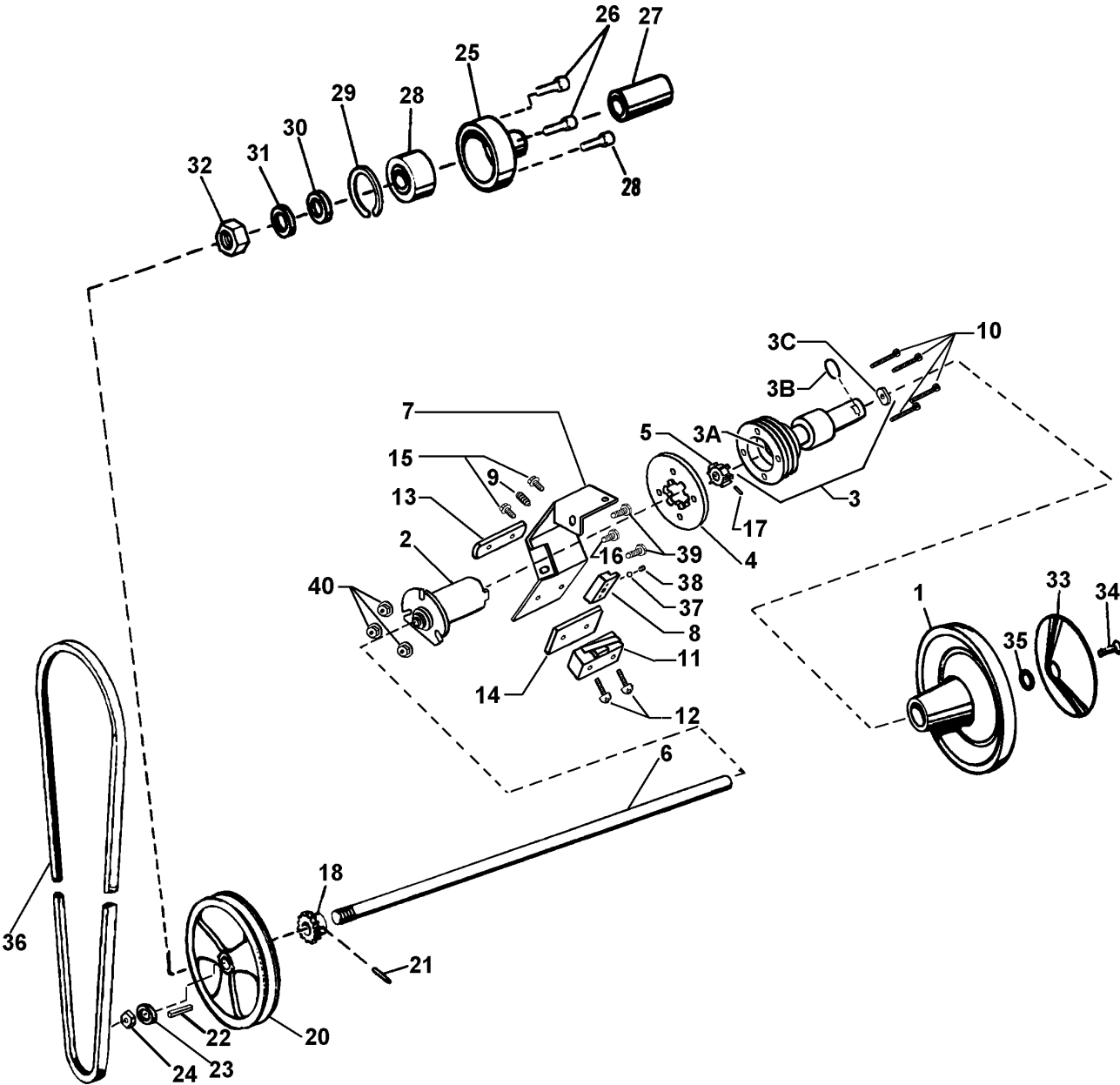


FIGURE 31
Drive Shaft Assembly

Parts Catalog

Index No.	Part No.	Figure 31 Description	Units Per Assy.
1	401997	HANDWHEEL	1
2	400975	BEARING HOUSING ASSEMBLY	1
3	400979	SHAFT EXTENSION ASSEMBLY	1
4	400977	SPLINE - Disc	1
5	400978	SPLINE - Shaft	1
6	400989	SHAFT - Drive	1
7	400984	BRACKET - Switch Assembly	1
8	403292	BLOCK - Ball Pulnger	1
9	403293	BALL - Plunger	1
10	102029	SCREW - Allen Head	4
11	254315	SWITCH	1
12	100961	SCREW - Switch Mounting	2
13	190731	NUT PLATE - Switch	1
14	254475	INSULATOR	1
15	111053	SCREW - Mounting Block	2
16	111055	SCREW	2
17	101331	PIN	1
18	080191	GEAR - Drive Shaft	1
19	400989	DRIVE SHAFT	1
20	083316	PULLEY	1
21	014972	PIN - # 6	1
22	191963	KEY - Pulley, 3/16 Square x 1-3/8	1
23	100648	WASHER	1
24	001847	NUT	1
25	080522	HOUSING ASSEMBLY	1
26	100185	SCREW	1
27	191481	SLEEVE	1
28	190179	BEARING	1
29	100646	RING - Retaining	1
30	079866	SPACER	1
31	014799	WASHER	1
32	196221	NUT	1
33	071398	HANDWHEEL DISC	1
34	195088	SCREW - Handwheel	1
35	001781	SNAPRING	1
36	196633	BELT	1
37	403294	LEAD BALL	1
38	102379	SETSCREW	1

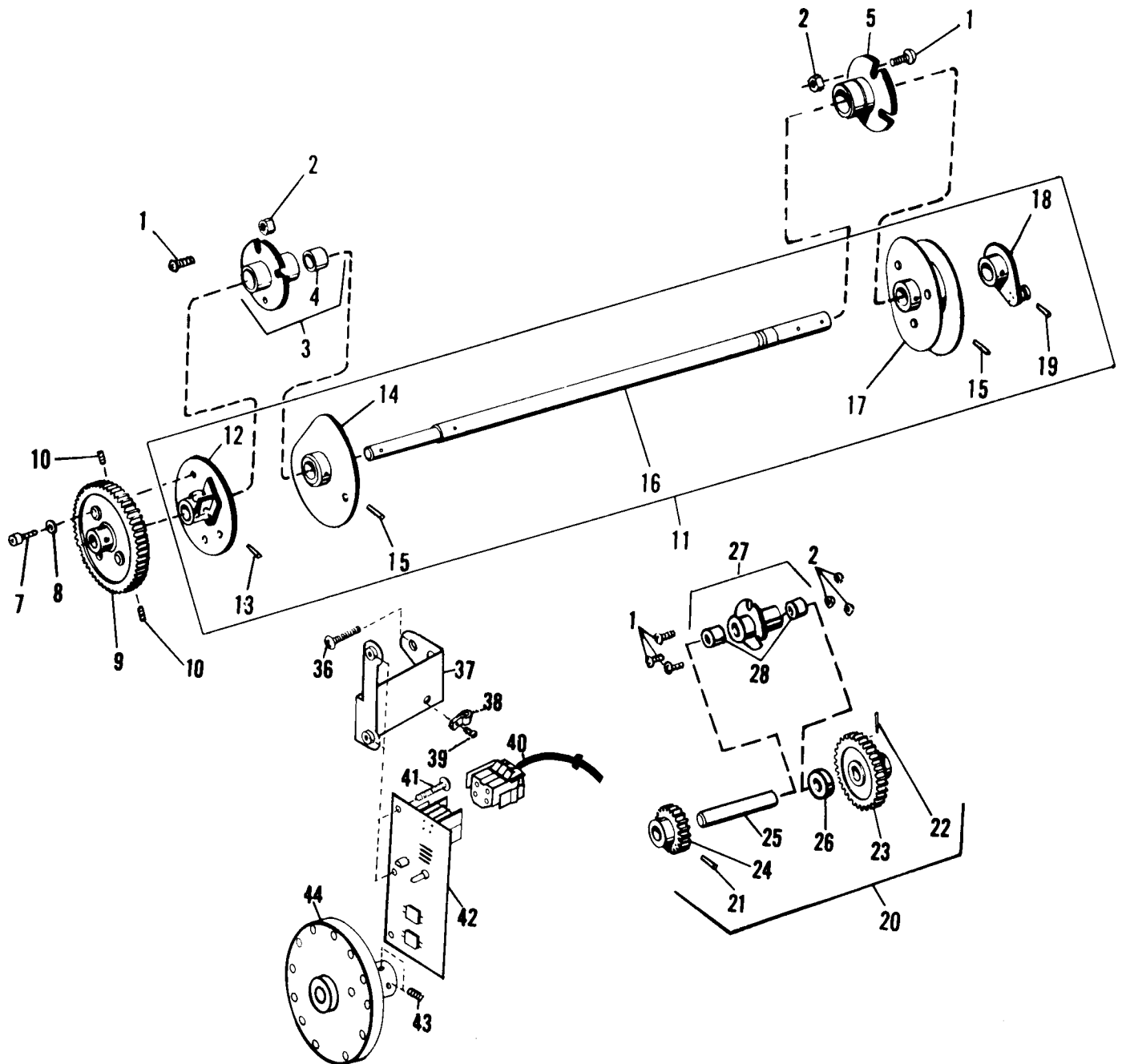


FIGURE 32
Cam Shaft Assembly

Parts Catalog

Index No.	Part No.	Figure 32 Description	Units Per Assy.
1	111055	SCREW - 10-32 x 9/16	9
2	150083	NUT - 10-32	9
3	080376	HOUSING ASSEMBLY - 1/2" Diameter Shaft	1
4	001416	BUSHING - .504 I.D. x .627 O.D. x 1.000 O.A.L.	3
5	072181	HOUSING ASSEMBLY	1
7	111074	SCREW - 1/4-28 x 3/4	3
8	005620	WASHER - .254 I.D. x 5/8 O.D. x .059	3
9	080378	GEAR	1
10	014342	SCREW - 10-32 x 5/8	2
11	017485	SHAFT ASSEMBLY - Cam, Hall Effect CD	1
12	*080414	CAM	1
13	000022	PIN - Taper, .163 O.D. x .790 O.A.L.	1
14	*072787	CAM - TD	1
15	000023	PIN - Taper, .158 O.D. x .978 O.A.L.	2
16	*017484	SHAFT	1
17	*076084	CAM	1
18	*072605	CAM	1
19	000024	PIN - Taper, .154 O.D. x 1.094 O.A.L.	1
20	016380	GEAR SHAFT ASSEMBLY - CD	1
21	014902	PIN - Taper, .110 O.D. x .720 O.A.L.	2
22	000012	PIN - Taper, .123 O.D. x .998 O.A.L.	2
23	*078445	GEAR - CD	1
24	*072338	GEAR	1
25	*072337	SHAFT	1
26	192273	SPACER - TD	1
27	072333	HOUSING ASSEMBLY	1
28	001404	BUSHING - .379 I.D. x .504 O.D. x .500 O.A.L.	2
36	001567	SCREW - 1/4-28 x 3/8	2
37	017478	BRACKET ASSEMBLY - Clock, Hall Effect	1
38	250205	CLAMP - Cable, 3/16	1
39	000895	SCREW - Thread Forming, 6-32 x 3/8	1
40	025303	HARNESS ASSEMBLY	1
41	001541	SCREW - 6-32 x 3/8	2
42	017742	P.C. BOARD ASSEMBLY - Clock/Sync., Hall Effect	1
43	014108	SCREW - Set, 10-32 x 3/8	2
44	017480	WHEEL ASSEMBLY - Hall Effect	1

* Not Procurable Separately

Parts Catalog

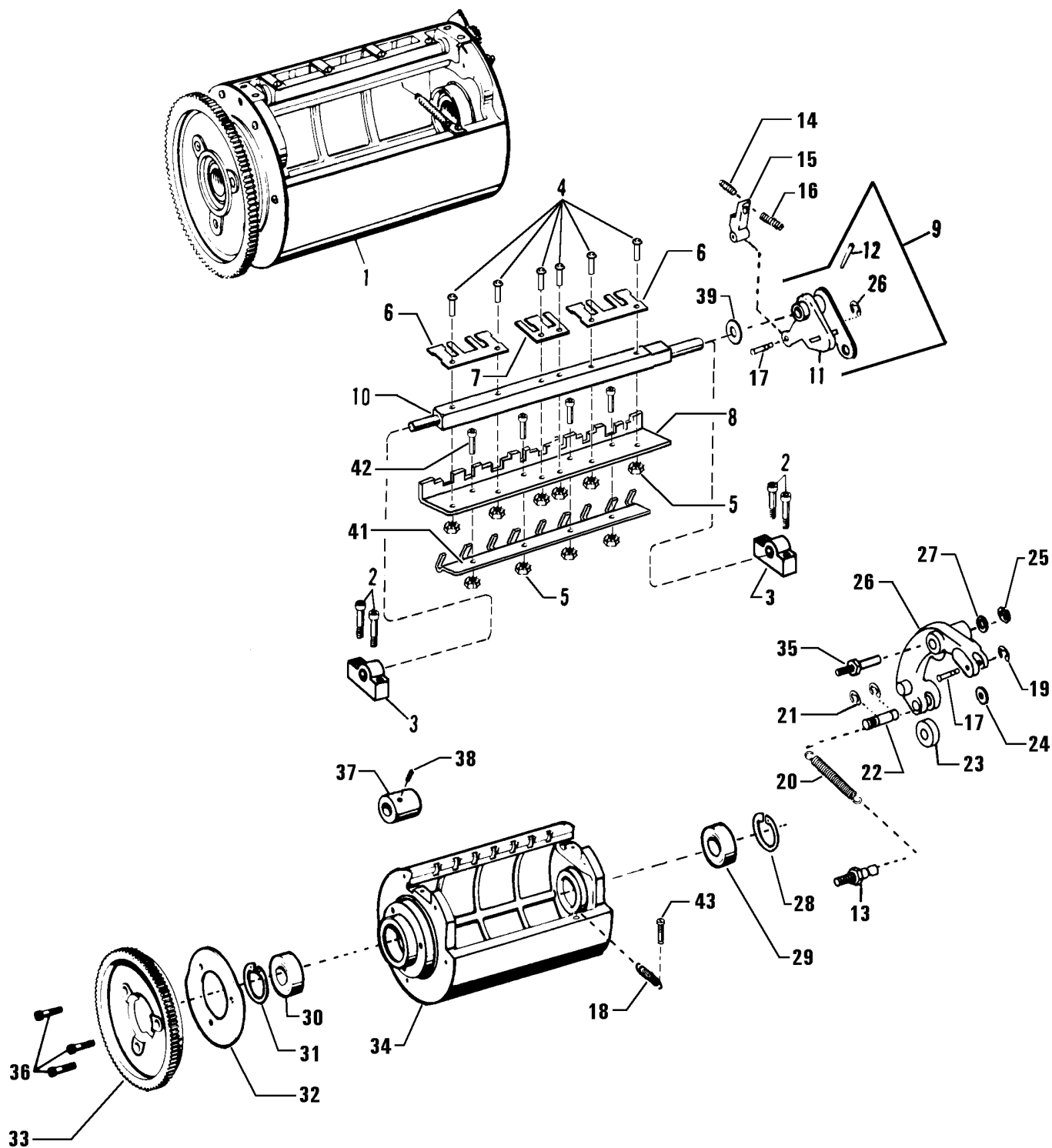


FIGURE 33
Impression Cylinder Assembly

Parts Catalog

Index No.	Part No.	Figure 33 Description	Units Per Assy.
1	***401322	CYLINDER ASSEMBLY - Impression	1
2	014165	SCREW - 1/4-28 x 1.000	4
3	007764	BEARING BLOCK - Gripper	2
4	014205	SCREW - 10-32 x 13/16	6
5	014808	NUT - 10-32	10
6	401707	FINGER - Gripper, Impression Cylinder	2
7	401708	FINGER - Gripper, Impression Cylinder	1
8	401728	PAPER STOP - Gripper, Impression Cylinder	1
9	007613	GRIPPER SHAFT ASSEMBLY	1
10	*007614	GRIPPER SHAFT	1
11	*007664	LEVER ASSEMBLY	1
12	190111	PIN - Taper	1
13	191360	STUD - Spring	1
14	100130	SCREW - Set, 10-32 x 1.000	1
15	081104	ARM - Overload	1
16	190135	SPRING - Compression, .350 O.D. x 1.000 O.A.L. x .045	1
17	194804	PIN - Special	2
18	078744	SPRING - Tension, .406 O.D. x 1.937 O.A.L. x .049	1
19	014504	RING - Retaining, .146 I.D. x .338 O.D. x .027	2
20	191401	SPRING - Tension, 13/32 O.D. x 1-5/16 O.A.L. x .036	1
21	001095	RING - Retaining, .250 I.D. x 1/2 O.D. x .027	1
22	082131	PIN - Special	1
23	081106	TRUCK - Special	1
24	190107	TRUCK - .190 I.D. x 1/2 O.D. x .240	1
25	001075	RING - Retaining, .397 I.D. x .037	1
26	082135	ARM - Operating	1
27	190149	WASHER - .440 I.D. x 11/16 O.D. x .029	1
28	014516	RING - Retaining, 2-7/16 O.D. x .081	1
29	080814	BEARING - Ball, 1.1811 I.D. x 2.440 O.D. x .6299	1
30	078520	BEARING - Ball, .9843 I.D. x 2.0472 O.D. x .5906	1
31	001066	RING - Retaining, 2.250 O.D. x .081	1
32	078712	CAM	1
33	009652	GEAR - Impression Cylinder	1
34	009651	CYLINDER - Impression, CD	1
35	191361	STUD - Chain Delivery	1
36	014157	SCREW - 1/4-28 x 1-1/4	3
37	082128	COLLAR - 1-11/16 O.D. x 1.183 I.D. x 2-5/32 O.A.L.	1
38	014206	SCREW - Set, 1/4-28 x 3/8	2
39	193383	SHIM - .443 I.D. x .625 O.D. x .005	A/R
40	196318	SHIM - .443 I.D. x .625 O.D. x .003	A/R
41	401727	GRIP BAR - Paper	1
42	014215	SCREW	4
43	076100	ANCHOR - Spring	1

* Not Procurable Separately

*** Not Available As An Assembly

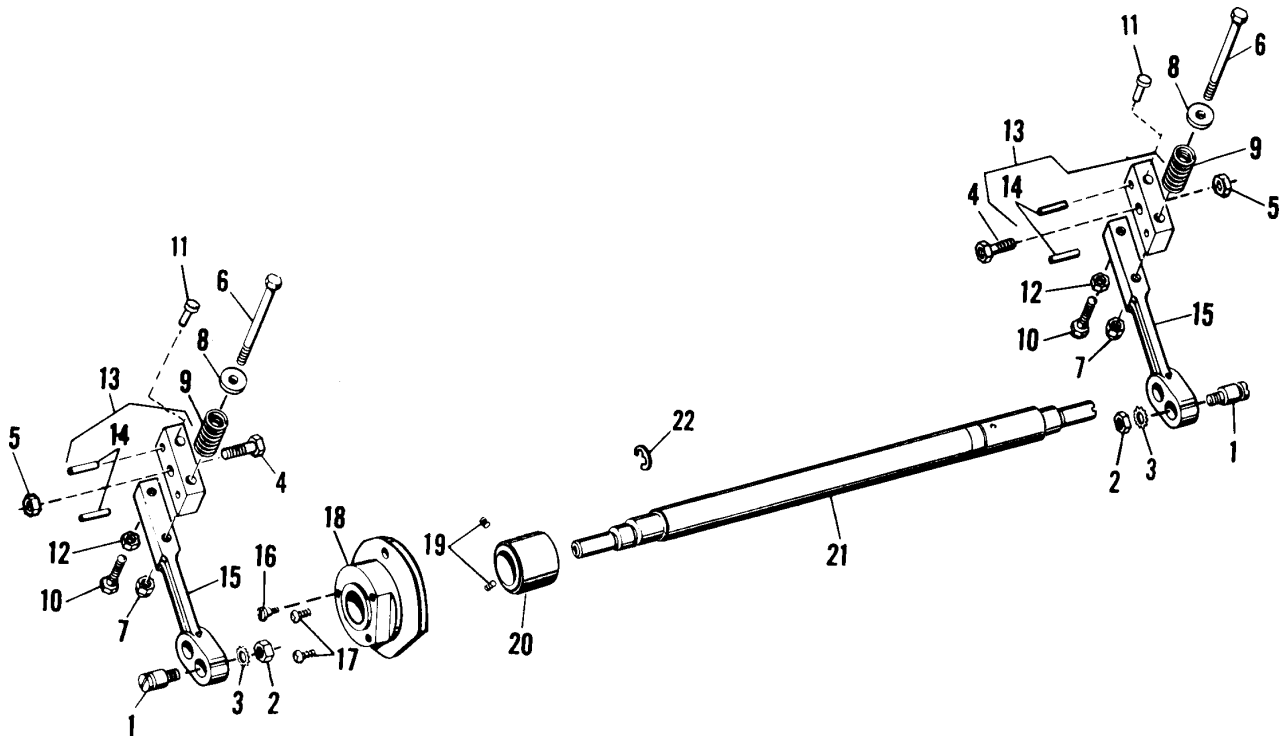


FIGURE 34
Impression Cylinder Shaft and Support Arms

Parts Catalog

Index No.	Part No.	Figure 34 Description	Units Per Assy.
1	080496	STUD - Support Arm	2
2	001845	NUT - 3/8-24	2
3	080495	WASHER - Lock, 25/64 I.D. x 1-1/4 O.D. x .119	2
4	014121	SCREW - 3/8-24 x 1.000	2
5	150089	NUT - 3/8-24	2
6	014172	SCREW - 1/4-28 x 3/4	2
7	001821	NUT - 1/4-28	2
8	080621	GUIDE - Support Arm Spring	2
9	078728	SPRING - Compression	2
10	014173	SCREW - 5/16-18 x 1-1/4	2
11	080447	PIN - Separator	2
12	001840	NUT - 5/16-18	2
13	080486	BLOCK ASSEMBLY - Support Arm, Impression Cylinder	2
14	001981	PIN - Roll, .199 O.D. x .827 O.A.L.	2
15	080498	SUPPORT ARM - Impression Cylinder	2
16	016158	SCREW - Shoulder, 10-32 x .273	1
17	001649	SCREW - 10-32 x .500	2
18	082129	CAM ASSEMBLY - Gripper, CO	1
19	100296	SCREW - Set, 1/4-28 x .500 Sq. Hd.	2
20	082128	COLLAR	1
21	007609	SHAFT - Impression Cylinder	1
22	014517	RING - Retaining, 1.039 I.D. x .052	1

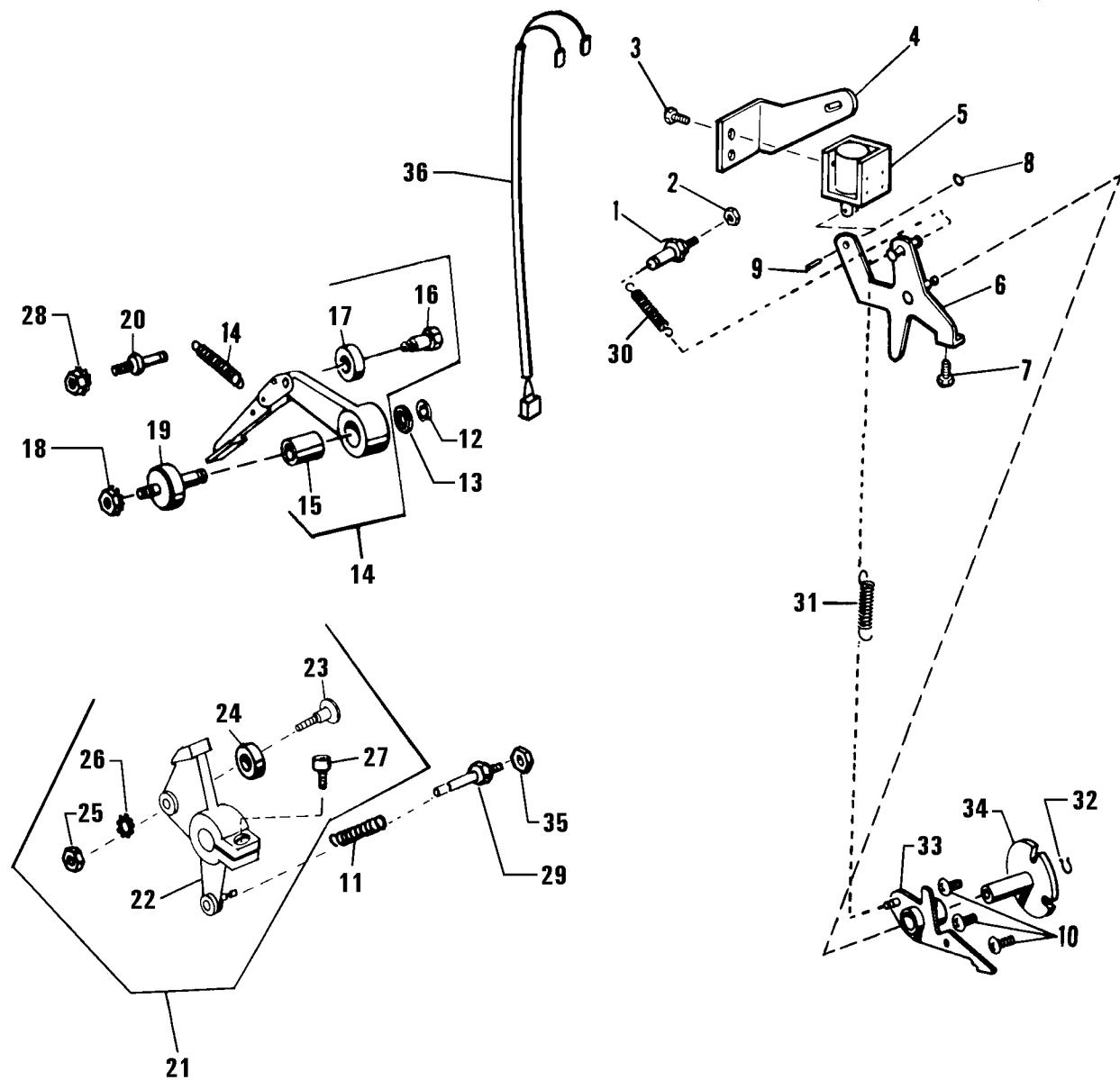


FIGURE 35
Impression Latch and Feed Solenoid

Parts Catalog

Index No.	Part No.	Figure 35 Description	Units Per Assy.
1	196236	STUD - Spring Anchor	1
2	150083	NUT - 10-32	1
3	111033	SCREW - 8-32 x 5/16	2
4	009665	BRACKET - Mounting	1
5	253375	SOLENOID - 115 VAC. 50/60 Hz.	1
6	009662	LEVER ASSEMBLY - Imp. Cyl. Latch	1
7	014174	SCREW - 10-32 x 5/8	1
8	014515	RING - Vinyl, .080 I.D. x .160	2
9	190713	PIN - Solenoid Link	1
10	111054	SCREW - 10-32 x 1/2	3
11	072442	SPRING - Tension, .343 O.D. x 2.000 O.A.L.	2
12	001080	RING - Retaining, .302 I.D. x .660 O.D. x .037	1
13	014727	WASHER - .385 I.D. x .760 O.D. x .032	1
14	072362	POWER LEVER ASSEMBLY - Impression Cylinder	1
15	001446	BUSHING - .503 O.D. x .379 I.D. x .875 O.A.L.	1
16	192323	SCREW - Eccentric, 1/4-28 x 1/4	1
17	072367	TRUCK	1
18	150085	NUT - 1/4-28	2
19	196237	STUD - Power Lever	1
20	072413	SPRING ANCHOR - Power Lever	1
21	072354	LEVER ASSEMBLY - Impression Cyl. Separator	1
22	071561	LEVER - Impression Cyl. Separator	1
23	072357	PIN - Eccentric	1
24	072358	TRUCK - Impression Cyl. Separator Lever	1
25	001818	NUT - 1/4-28	1
26	001740	WASHER - Lock, .267 I.D. x .506 O.D. x .030	1
27	100891	SCREW - 1/4-20 x 1.000	1
28	014808	NUT - 10-32	1
29	196235	STUD - Spring, 1-13/16 O.A.L.	1
30	064673	SPRING - Tension, .375 O.D. x 1.375 O.A.L.	1
31	041774	SPRING - Tension, .250 O.D. x .781 O.A.L.	1
32	001046	RING - Retaining, .283 I.D. x .027	2
33	009664	LEVER ASSEMBLY - Impression Cyl. Latch Lever	1
34	072378	BEARING - Impression Cyl. Latch Lever	1
35	014248	NUT - 10-32	1
36	022833	CABLE ASSEMBLY - Impression Sol. 36"	1

Parts Catalog

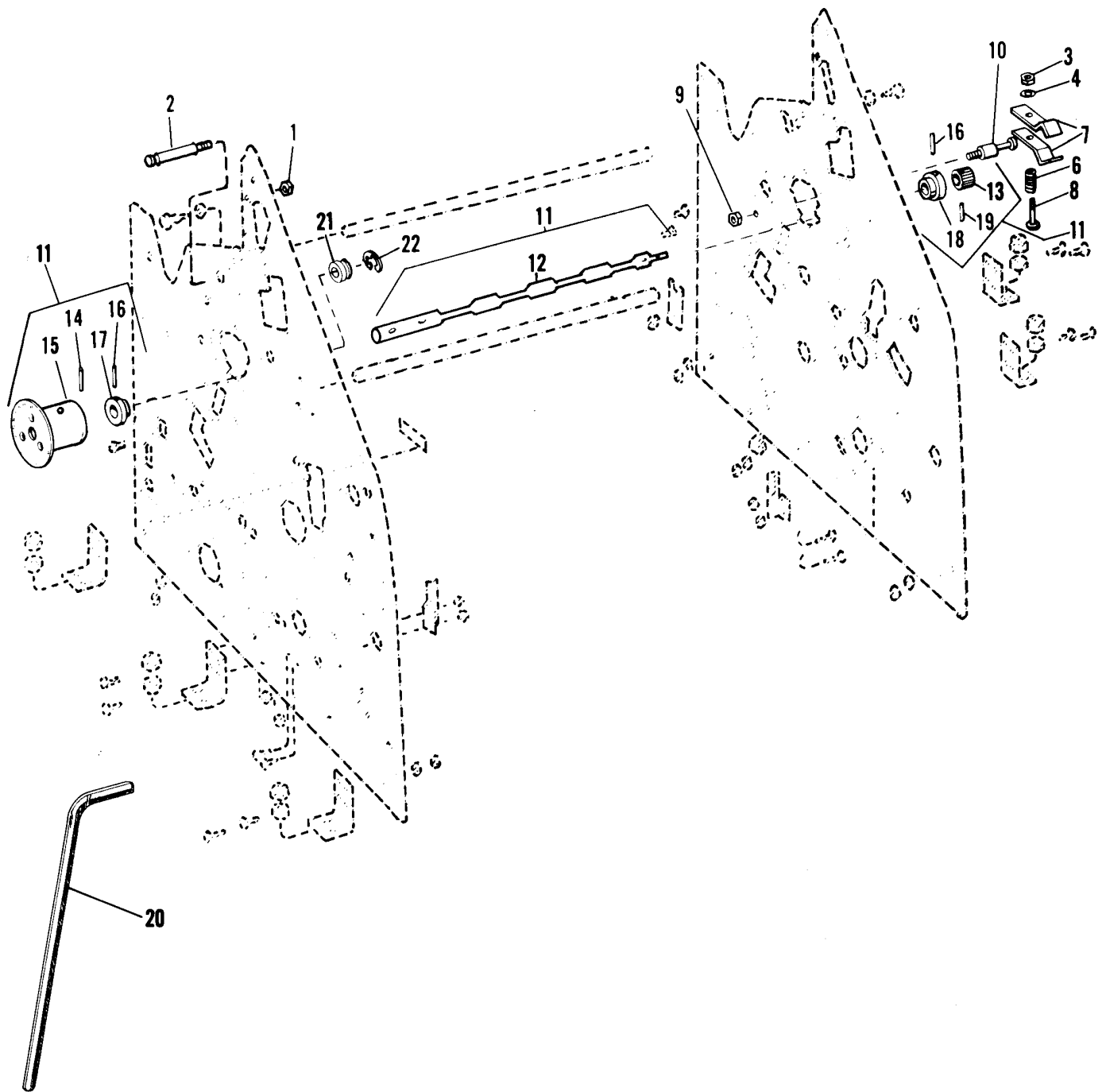


FIGURE 36
Impression Cylinder Gap Control

Parts Catalog

Index No.	Part No.	Figure 36 Description	Units Per Assy.
1	014808	NUT - 10-32	1
2	190768	STUD - 10-32	1
3	101051	NUT - 10-32	1
4	001702	WASHER - .195 I.D. x .500 O.D. x .029	1
6	077836	SPRING - Compression, .400 O.D. x .718 O.A.L.	1
7	080452	CLAMP - W/Teeth	2
8	077301	SCREW - Shoulder, 10-32	1
9	150085	NUT - 1/4-28	1
10	193323	STUD - 1/4-28	1
11	017815	SHAFT ASSEMBLY - Gap Control	1
12	*017816	SHAFT - Gap Control	1
13	073551	DRAG - Gap Clamp	1
14	141573	PIN - Roll, .199 O.D. x .890 O.A.L.	1
15	*072169	DIAL	1
16	001992	PIN - Roll, .135 O.D. x 1.015 O.A.L.	2
17	080448	CAM - R.H.	1
18	080449	CAM - L.H.	1
19	001980	PIN - Roll, .135 O.D. x .640 O.A.L.	1
20	195421	Allen Key For Adjusting Gap Control	1
21	195142	PULLEY - Nylon	1
22	100110	RING - Retaining, .474 I.D. x .768 O.D. x .053	1

* Not Procurable Separately

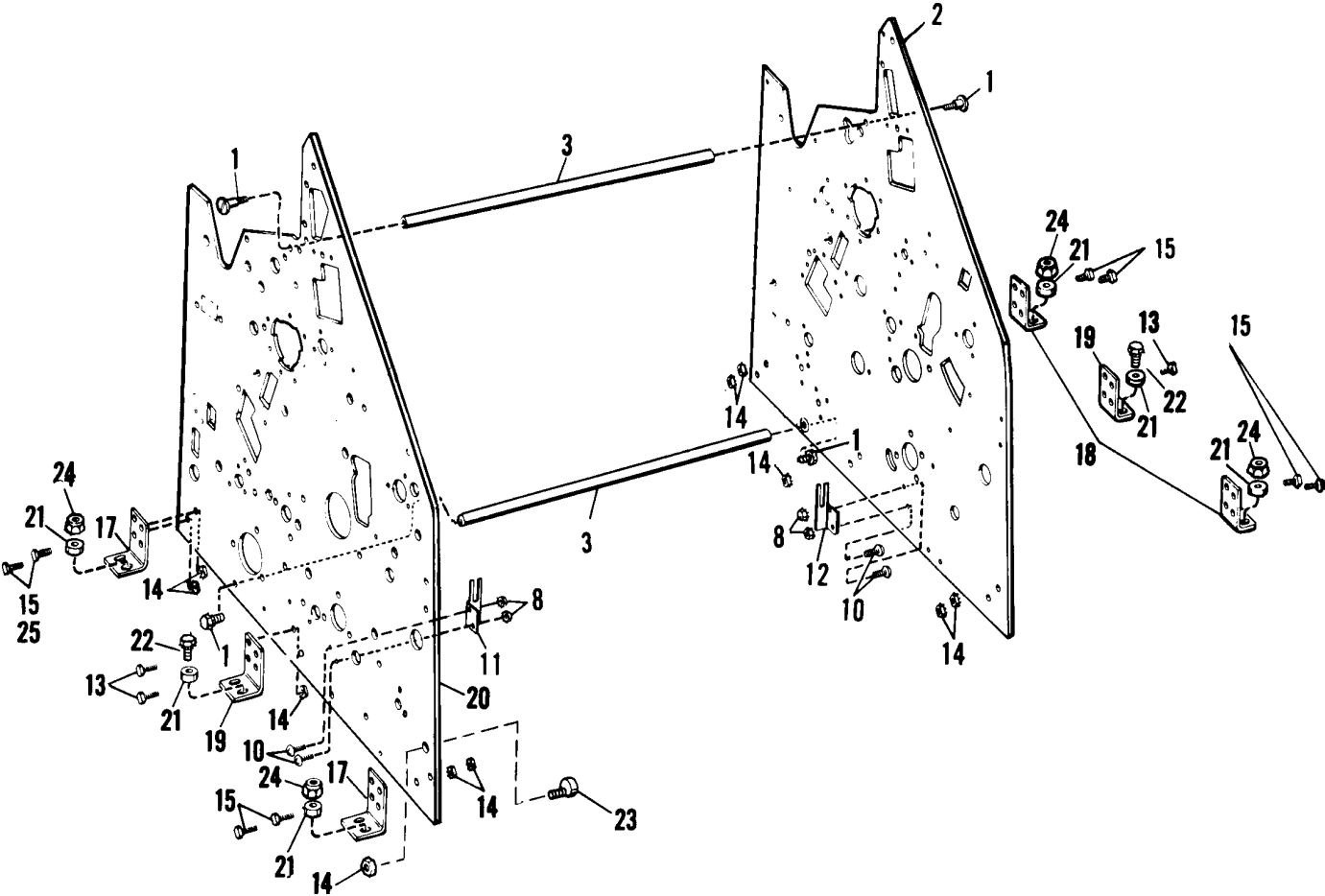


FIGURE 37
Mid Section Side Frames

Parts Catalog

Index No.	Part No.	Figure 37 Description	Units Per Assy.
1	193601	SCREW - Shoulder, 5/16-24	4
2	016205	FRAME - Machine, N.O.S.	1
3	007575	TIE BAR - CD	2
8	150081	NUT - 8-32	4
10	111036	SCREW - 8-32 x 1/2	4
11	072055	GUARD - R.H.	1
12	072056	GUARD - L.H.	1
13	111073	SCREW - 2/4-28 x 5/8	3
14	150085	NUT - 1/4-28	12
15	195296	SCREW - 1/4-28 x 3/4, Tray Delivery	8
17	011055	BRACKET - Foot, O.S.	2
18	011056	BRACKET - Foot, N.O.S.	2
19	011229	BRACKET - Foot, Center	2
20	016204	FRAME - Machine, O.S.	1
21	193808	SPACER - .343 I.D. x 9/16 x .125	6
22	111089	SCREW - 5/16-24 x 5/8	2
23	190116	STOP - Height Regulator	1
24	001824	NUT - Lock, 5/16-18	4
25	196393	SCREW - Dowel, 1/4-28 x 5/8 - Chain Delivery	4

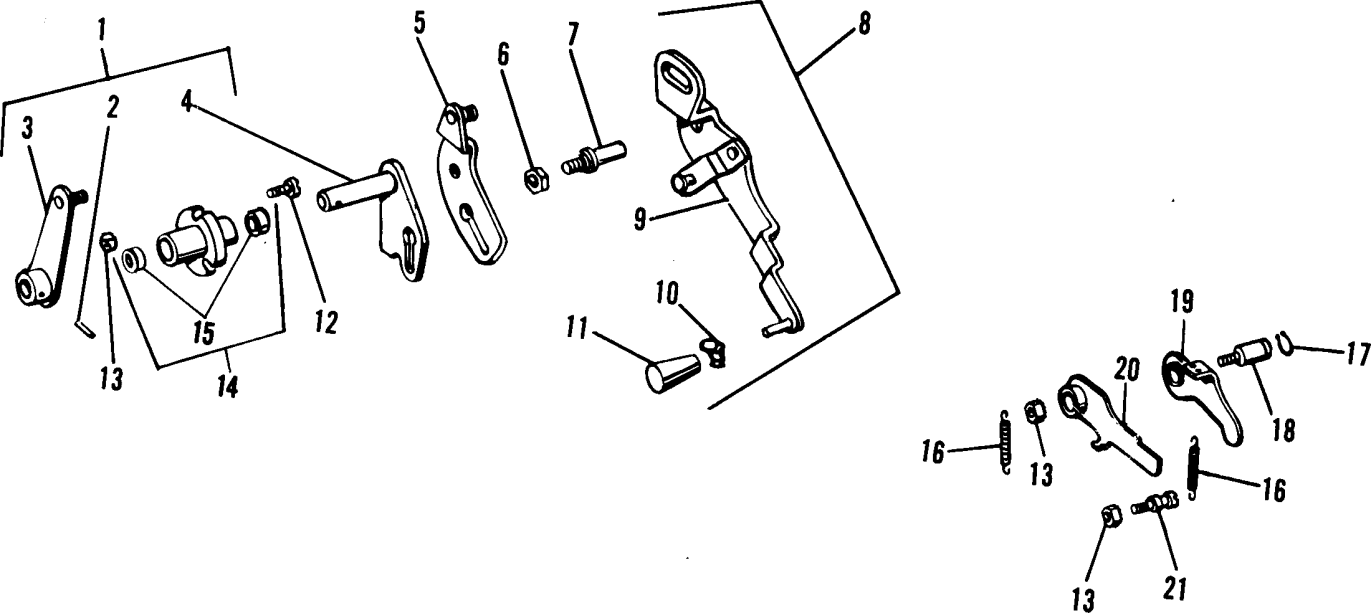


FIGURE 38
Paper Height Adjustment

Parts Catalog

Index No.	Part No.	Figure 38 Description	Units Per Assy.
1	080396	LEVER ASSEMBLY - Table Raising	1
2	014921	PIN - Roll, .135 O.O. x .890 O.A.L.	1
3	*080400	LEVER	1
4	*080397	LEVER	1
5	080404	LEVER - Adjusting	1
6	150085	NUT - 1/4-28	1
7	080409	PIVOT PIN	1
8	011405	LEVER ASSEMBLY - Dwell Control	1
9	081152	LEVER	1
10	072052	SPRING LOCK	1
11	011371	HANDLE	1
12	015034	SCREW - 10-32 x 1/2	3
13	150083	NUT - 10-32	5
14	080402	BEARING ASSEMBLY - Table Raising Lever	1
15	001412	BUSHING - .441 I.D. x .565 O.D. x .375 O.A.L.	2
16	072511	SPRING - Tension, .250 O.D. x 1.125 O.A.L.	2
17	001047	RING - Retaining, .340 I.D. x .033	1
18	072481	STUD - 10-32	1
19	072478	LEVER ASSEMBLY - Contact	1
20	080032	LEVER ASSEMBLY - Lower Latch	1
21	072482	SPRING ANCHOR - Contact Levee Spring	1

* Not Procurable Separately

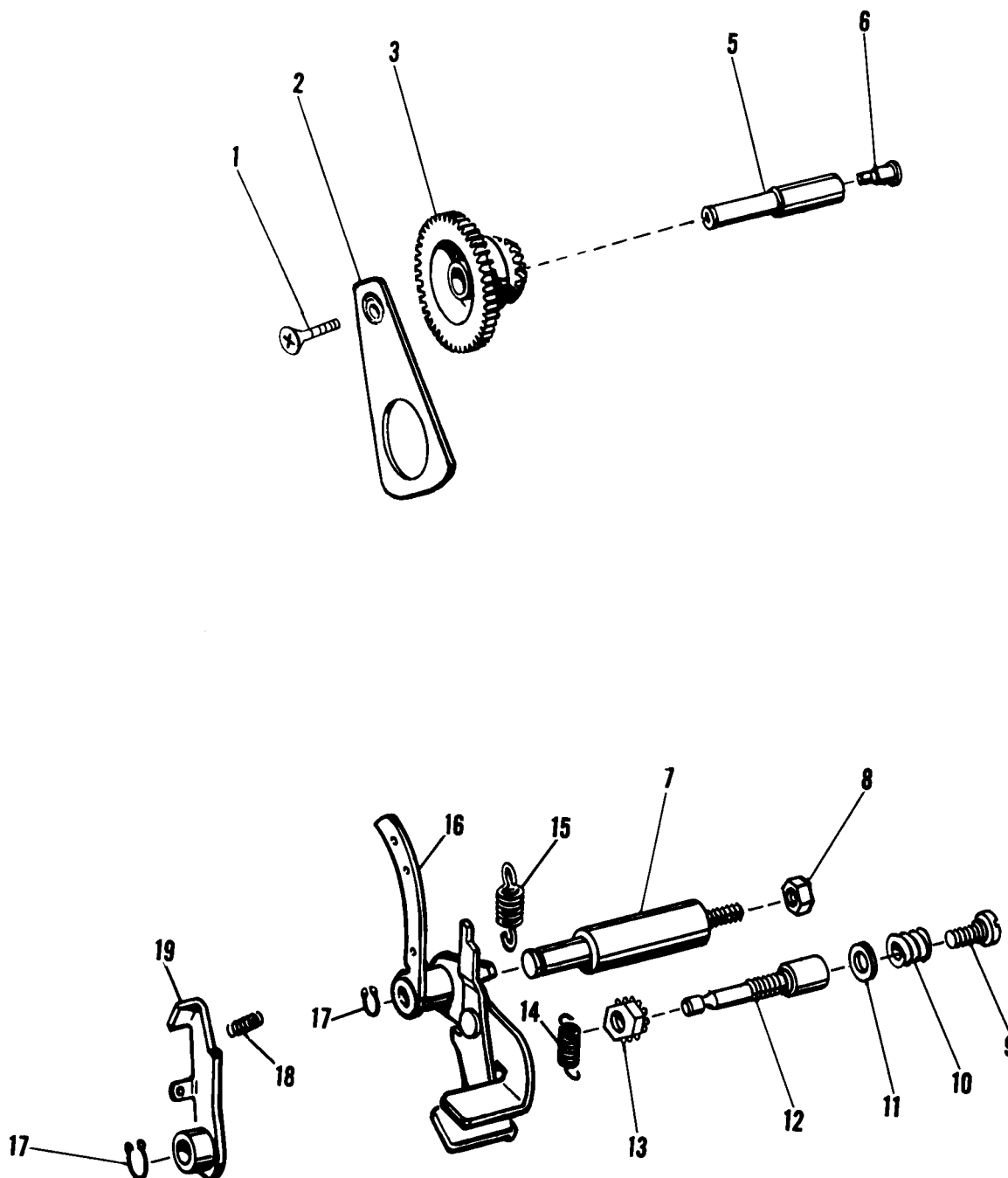


FIGURE 39
Feed Table Release Lever

Parts Catalog

Index No.	Part No.	Figure 39 Description	Units Per Assy.
1	001542	SCREW - 10-32 x 7/16	1
2	080184	PLATE	1
3	072561	MITER AND SPUR GEAR	1
5	007937	STUD - Miter and Spur Gear	1
6	194805	SCREW - Shoulder, 3/8-24	1
7	072610	STUD - Table Release Lever, 3/8-24	1
8	150089	NUT - 3/8-24	1
9	080408	SCREW - 5/16-24	1
10	080410	SPRING - Compression, .728 O.D. x 1.062 O.A.L.	1
11	001797	WASHER - .515 I.D. x .812 O.D. x .059	1
12	080407	STUD - Table Release Lever Spring	1
13	014810	NUT - 3/8-24	1
14	072626	SPRING - Tension, .300 O.D. x .937 O.A.L.	1
15	041291	SPRING - Tension, .343 O.D. x .968 O.A.L.	1
16	013827	TABLE RELEASE LEVER ASSEMBLY	1
17	001047	RING - Retaining, .340 I.D. x .027	2
18	041777	SPRING - Compression, .312 O.D. x 1.344 O.A.L.	1
19	072484	UPPER LATCH LEVER	1

Parts Catalog

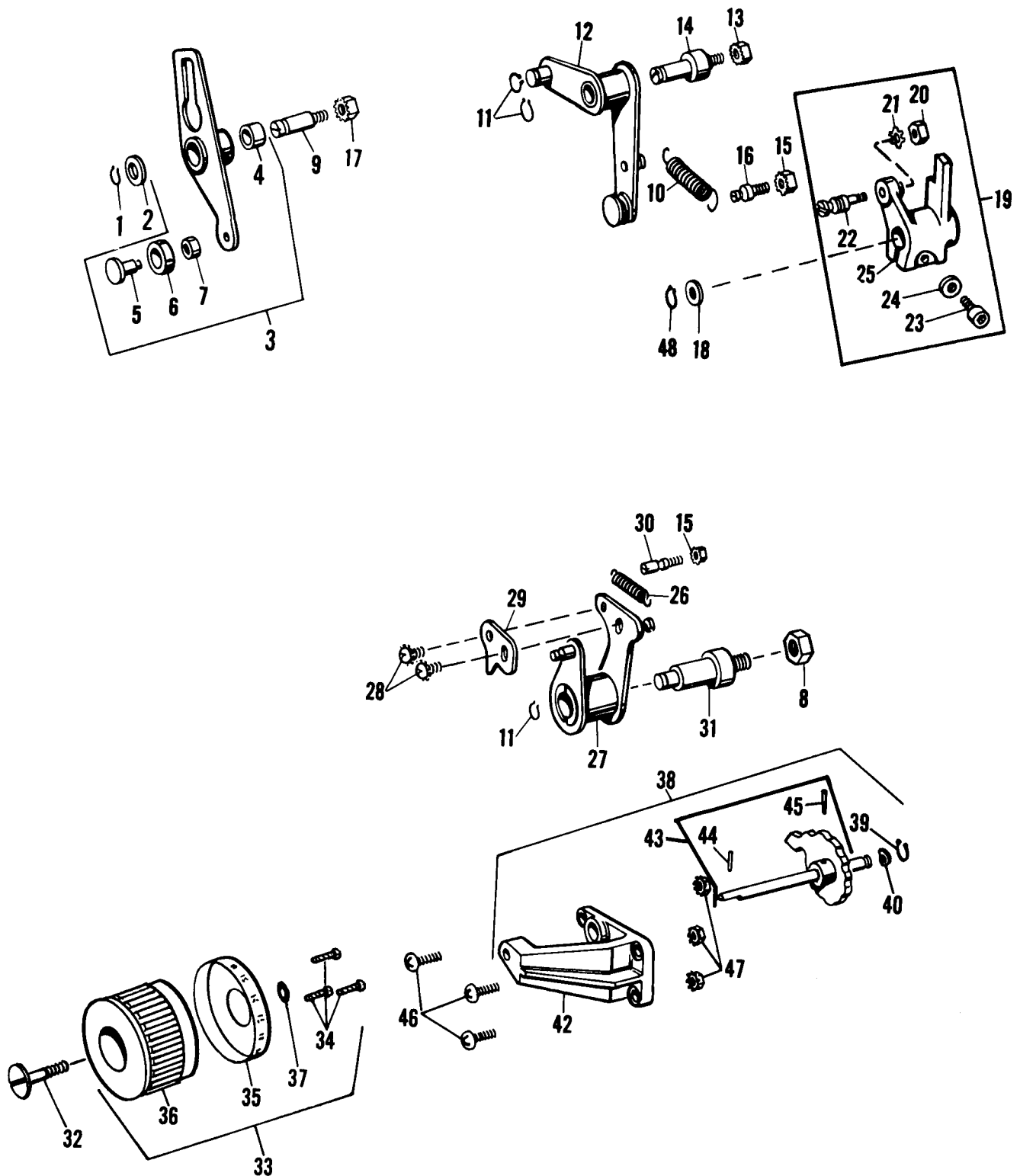


FIGURE 40
Buckle Adjusting and Lever Assemblies

Parts Catalog

Index No.	Part No.	Figure 40 Description	Units Per Assy.
1	001075	RING - Retaining, .397 I.D. x .027	1
2	190149	WASHER - .441 I.D. x .687 O.D. x .029	1
3	007743	LEVER ASSEMBLY - Forwarding	1
4	001493	BUSHING	1
5	*072790	RIVET	1
6	072176	TRUCK	1
7	072175	BUSHING	1
8	150089	NUT - 3/8-24	1
9	190110	STUD - Forwarding Lever Assembly	1
10	078744	SPRING - Tension, .406 O.D. x 1.937 O.A.L.	1
11	001047	RING - Retaining, .340 I.D. x .027	3
12	072199	HUB ASSEMBLY - Buckle Adjustment	1
13	150085	NUT - 1/4-28	1
14	072201	STUD - Buckle Adjustment Hub	1
15	014808	NUT - 10-32	2
16	072186	SPRING ANCHOR - Buckle Adjustment Hub Spring	1
17	001847	NUT - 3/8-24	1
18	016574	WASHER - .315 I.D. x .687 O.D. x .047	1
19	072382	LEVER ASSEMBLY - Counter Operating	1
20	014844	NUT - 8-32	1
21	001722	WASHER - Lock, .172 I.D. x .375 O.D. x .020	1
22	072427	PIN - Eccentric	1
23	014219	SCREW - 1/4-20 x 3/4	1
24	005071	WASHER - .253 I.D. x .500 O.D. x .059	1
25	072383	LEVER - Counter Operating, (M-9865/69)	1
26	073333	SPRING - Tension, .296 O.D. x 1.187 O.A.L.	1
27	072488	LEVER ASSEMBLY - Double	1
28	001691	SCREW - 10-32 x 1/4	2
29	072491	PLATE - Contacting Regulator	1
30	072482	SPRING ANCHOR - Double Lever Spring	1
31	080153	STUD - Double Lever	1
32	196247	SCREW - Special, 10-32 x 1-1/8	1
33	***017806	KNOB ASSEMBLY - Buckle Adjusting	1
34	014529	SCREW - Drive, #2 x 1/4	3
35	017750	DIAL - Buckle Adjusting Knob	1
36	017738	KNOB - Buckle Adjusting	1
37	039642	RING - Vinyl, .155 I.D. x .075	1
38	076605	CAM SHAFT AND HOUSING ASSEMBLY	1
39	001046	RING - Retaining, .283 I.D. x .027	1
40	195645	WASHER - Spring, .324 I.D. x .510 O.D. x .085	1
42	072207	HOUSING ASSEMBLY - Cam	1
43	072205	SHAFT ASSEMBLY - Cam	1
44	001990	PIN - Roll, .135 O.D. x .515 O.A.L.	1
45	014902	PIN - Taper, .110 O.D. x .720 O.A.L.	1
46	014149	SCREW - 10-32 x 11/16	3
47	150083	NUT - 10-32	3
48	001062	RING - Retaining, .258 I.D. x .027	1

* Not Procurable Separately

*** Not Available As An Assembly

Parts Catalog

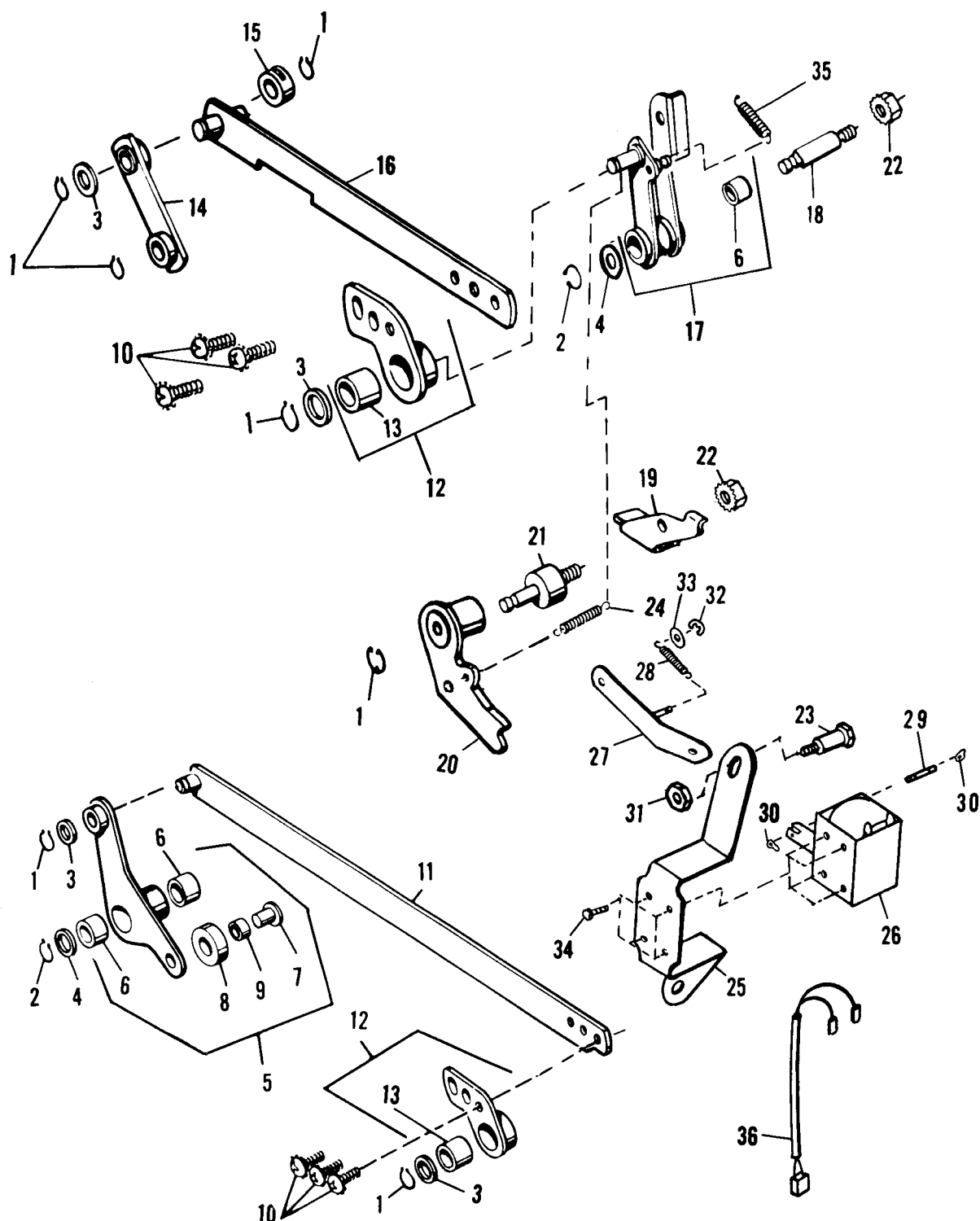


FIGURE 41
Feed Solenoid and Link Assemblies

Parts Catalog

Index No.	Part No.	Figure 41 Description	Units Per Assy.
1	001047	RING - Retaining, .340 I.D. x .027	7
2	001075	RING - Retaining, .397 I.D. x .027	1
3	014703	WASHER - .384 I.D. x .562 O.D. x .029	4
4	190149	WASHER - .441 I.D. x .687 O.D. x .029	2
5	072177	LEVER ASSEMBLY - Follower, Feed	1
6	001412	BUSHING - .441 I.D. x .565 O.D. x .375 O.A.L.	2
7	*072790	RIVET	1
8	072176	ROLLER	1
9	072175	BUSHING - .220 I.D. x .313 O.D. x .324 O.A.L.	1
10	111035	SCREW - 8-32 x 7/16	6
11	072243	LINK ASSEMBLY - Feed, Long	1
12	072233	ADJUSTING PLATE ASSEMBLY	2
13	001404	BUSHING - .379 I.D. x .504 O.D. x .500	2
14	072189	LINK ASSEMBLY - Buckle Adjusting	1
15	072210	BEARING - .380 I.D. x .750 O.D.	1
16	072230	LINK ASSEMBLY - Forwarding, Short	1
17	072239	LEVER ASSEMBLY - Feed Forwarding	1
18	196233	STUD - Lever	1
19	076887	BRACKET - Stop	1
20	009530	LATCH ASSEMBLY	1
21	072534	STUD - Eccentric	1
22	150085	NUT - 1/4-28	2
23	195140	SCREW - Shoulder	1
24	196469	SPRING - Tension, 19/64 O.D. x 1 17/32 O.A.L.	1
25	009527	SOLENOID BRACKET	1
26	253578	FEED SOLENOID - 115 VAC. 50/60/Hz.	1
27	009531	LINK	1
28	192181	SPRING	1
29	190713	PIN - Solenoid	1
30	014515	RING - Plastic, .080 I.D. x .160 O.D. x .025	2
31	014807	NUT - 1/4-28	1
32	014504	RING - Retaining, .146 I.D. x .027	1
33	021563	WASHER - .194 I.D.	1
34	111033	SCREW - 8-32 x 5/16	2
35	072442	SPRING - Tension, .343 O.D. x 2.000 O.A.L.	1
36	022824	CABLE ASSEMBLY - Feed Sol. 16"	1

* Not Procurable Separately

Parts Catalog

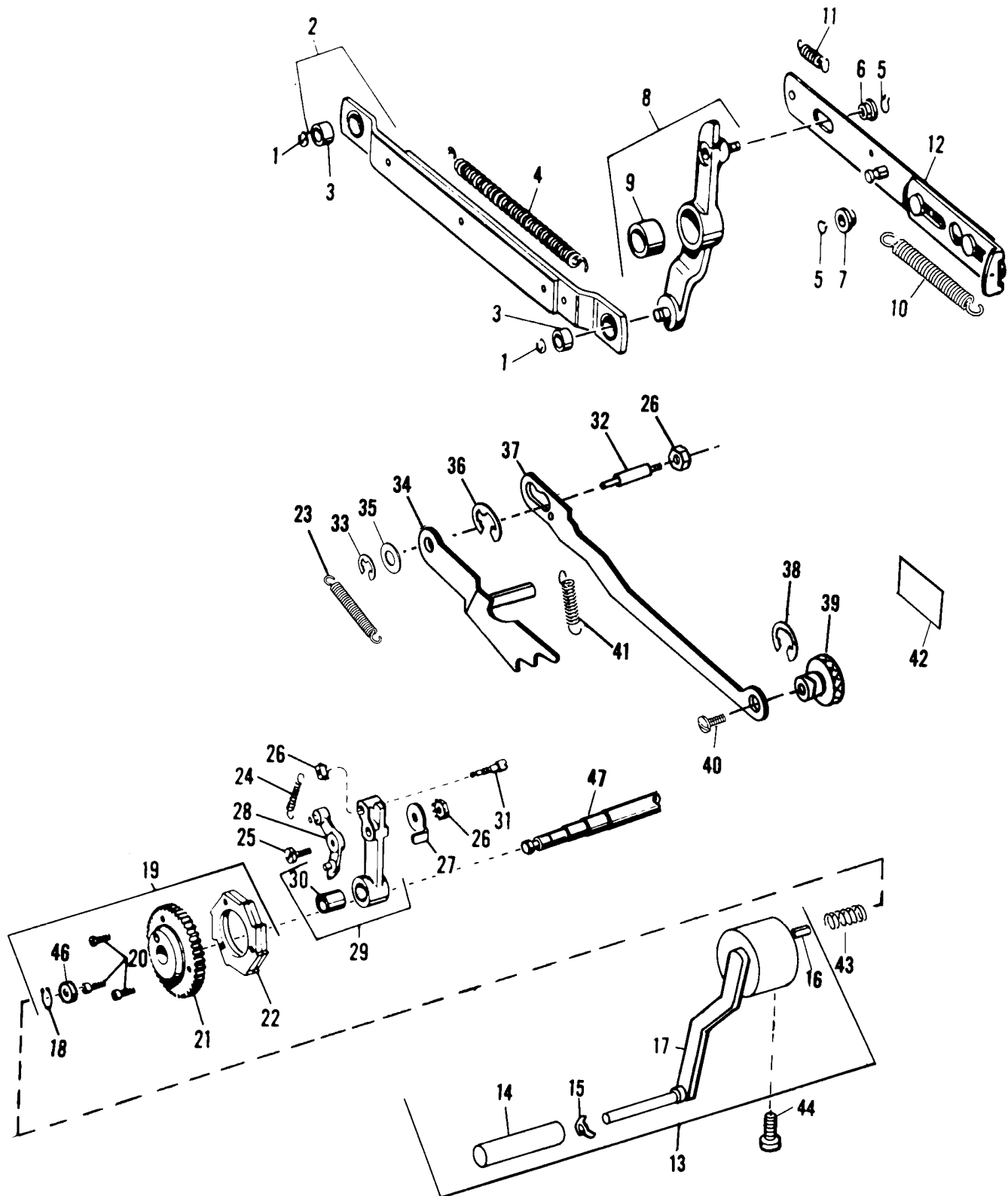


FIGURE 42
Feed Mechanism and Power Link

Parts Catalog

Index No.	Part No.	Figure 42 Description	Units Per Assy.
1	001095	RING - Retaining, .245 I.D. x .500 O.D. x .027	2
2	073373	LINKASSEMBLY	1
3	001472	BUSHING	2
4	073381	SPRING - .500 O.D. x 4.687 O.A.L.	1
5	001049	RING - Retaining, .227 I.D. x .027	2
6	072471	BUSHING	1
7	072472	BUSHING	1
8	072589	LEVERASSEMBLY	1
9	001469	BUSHING	1
10	072512	SPRING - .343 O.D. x 3.031 O.A.L.	1
11	041777	SPRING - .312 O.D. x 1.344 O.A.L.	1
12	072504	LINKASSEMBLY	1
13	083432	HAND CRANK ASSEMBLY	1
14	017715	HANDLE	1
15	003042	SPRING LOCK	1
16	014909	PIN - Roll, .264 O.D. x .702 O.A.L.	1
17	*	HAND CRANK WITH STUD	1
18	001048	RING - Retaining, .463 I.D. x .037	1
19	017644	RATCHET AND GEAR ASSEMBLY - 32 Tooth	1
20	014158	SCREW - 10-32 x 1/2	1
21	080144	GEAR	1
22	017645	RATCHET - 32 Tooth	1
23	072544	SPRING - .406 O.D. x 3.125 O.A.L.	1
24	064590	SPRING - .218 O.D. x .937 O.A.L.	1
25	072586	SCREW - Shoulder, 1/4-28	1
26	150085	NUT - 1/4-28	1
27	072580	ANCHOR - Spring	1
28	017647	PAWL ASSEMBLY	1
29	072576	LEVERASSEMBLY	1
30	001470	BUSHING	1
31	072579	STUD - Spring	1
32	072621	STUD	1
33	001080	RING - Retaining, .302 I.D. x .660 O.D. x .037	1
34	075836	PAWL	1
35	192202	WASHER - .385 I.D. x .625 O.D. x .010	1
36	001094	RING - Retaining, .388 I.D. x .800 O.D. x .040	1
37	010142	LINK	1
38	001785	RING - Crescent, .880 I.D. x 1.130 O.D. x .044	1
39	017125	KNOB	1
40	054147	SCREW - Shoulder, 8-32	1
41	006987	SPRING - .296 O.D. x 1.468 O.A.L.	1
42	017783	METAL CAL	1
43	190329	SPRING - Compression, 13/32 O.D. x 3/8 O.A.L.	1
44	072620	SCREW - Shoulder, 10-32	1
46	194868	SPACER - .520 I.D. x .687 O.D. x .125	1
47	017151	SHAFT ASSEMBLY - Table Raise	1

* Not Procurable Separately

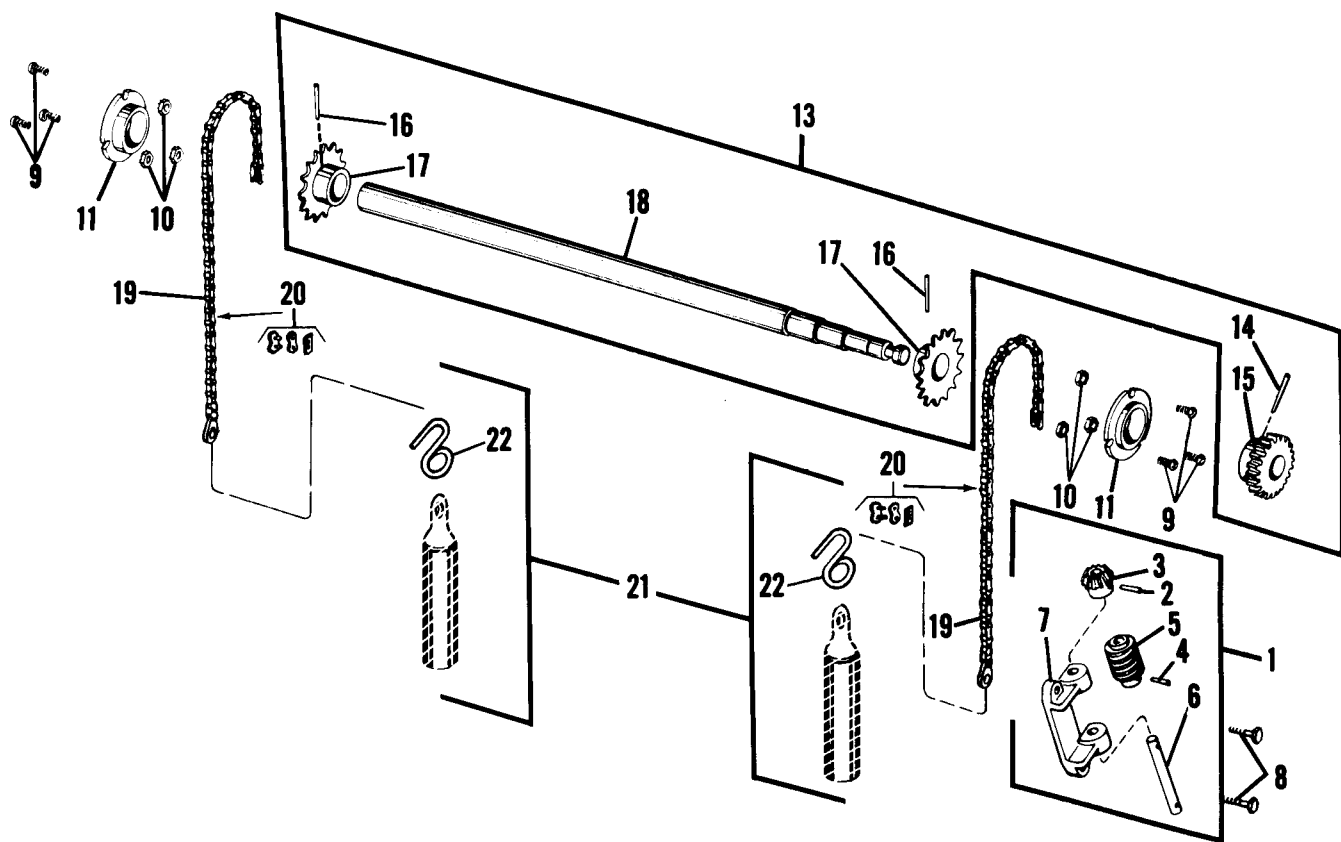


FIGURE 43
Feed Table Raising Mechanism

Parts Catalog

Index No.	Part No.	Figure 43 Description	Units Per Assy
1	080334	MITER AND WORM GEAR ASSEMBLY	1
2	100966	PIN - Spiral, .182 O.D. x .822 O.A.L.	1
3	*081607	GEAR	1
4	001920	PIN - Taper, .149 O.D. x .786 O.A.L.	1
5	*072636	GEAR - Worm	1
6	*072574	SHAFT	1
7	080337	BRACKET - Miter and Worm	1
8	072575	SCREW - 1/4-28	2
9	001555	SCREW - 10-32 x 1/2	6
10	014248	NUT - 10-32	6
11	072599	BEARING ASSEMBLY	2
13	017151	SHAFT ASSEMBLY - Table Raising	1
14	149385	PIN - Spiral, .152 O.D. x 1.250 O.A.L.	1
15	*080336	GEAR	1
16	001936	PIN - Taper, 1.250 O.A.L.	2
17	*072041	SPROCKET	2
18	*017150	SHAFT	1
19	072035	CHAIN ASSEMBLY - Table Raising	2
20	071576	LINK - Master	1
21	072077	WEIGHT ASSEMBLY	2
22	194835	HOOK	1

* Not Procurable Separately

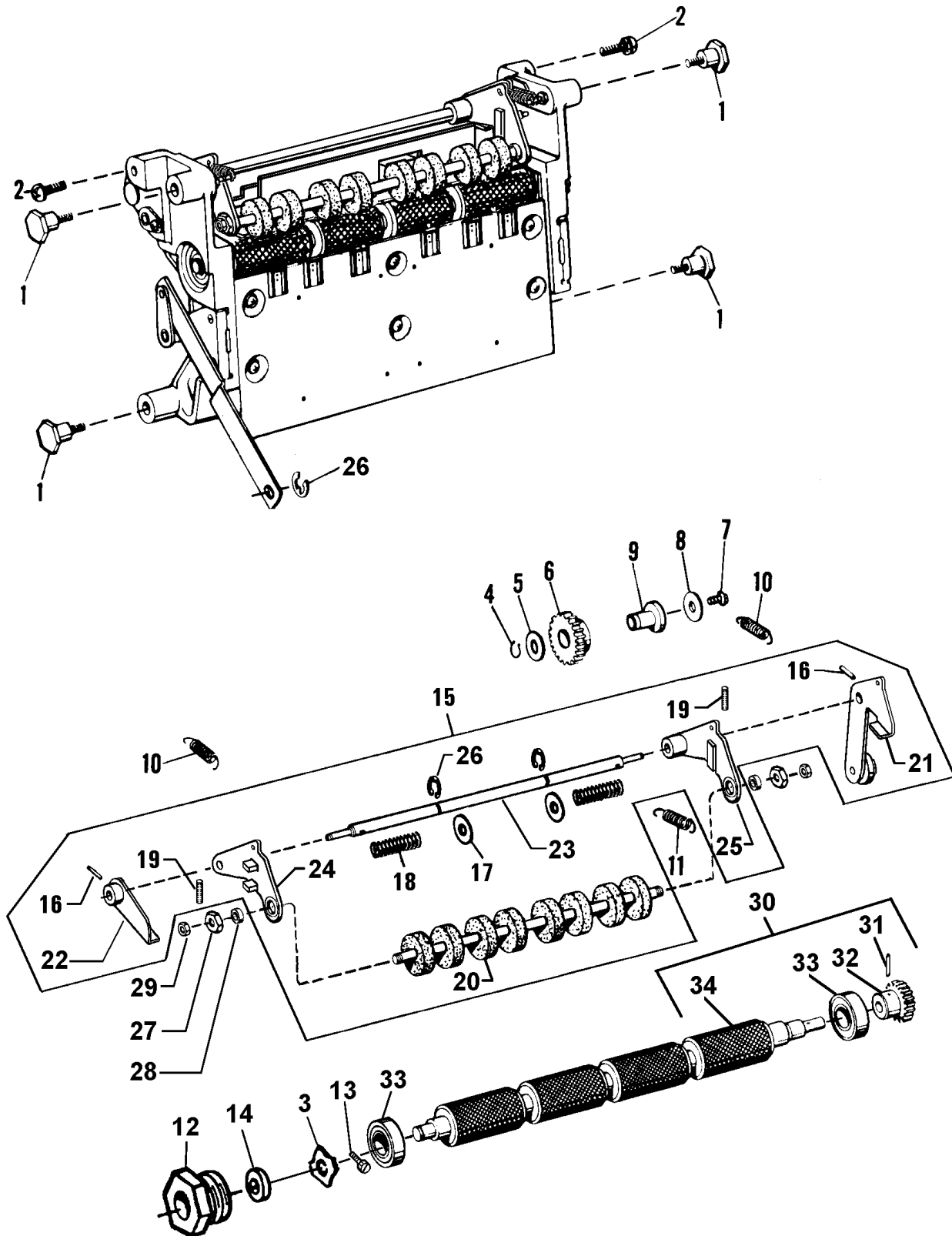


FIGURE 44
Main Tie Bar Assembly - Part I

Parts Catalog

Index No.	Part No.	Figure 44 Description	Units Per Assy.
1	072154	SCREW - Shoulder	4
2	111073	SCREW - 1/4-28 x 5/8	2
3	196780	SPRING - Wave	1
4	001047	RING - Snap, .340 I.D. x .027	1
5	014727	WASHER - .380 I.D. x .750 O.D. x .029	1
6	072126	GEAR ASSEMBLY - Idler	1
7	111074	SCREW - 1/4-28 x 3/4	1
8	016572	WASHER - .255 I.D. x .875 O.D. x .059	1
9	072220	STUD	1
10	041776	SPRING - Tension, .343 O.D. x 1.375 O.A.L.	2
11	050435	SPRING - Tension, .250 O.D. x 1.375 O.A.L.	1
12	022758	CAP - Bearing	1
13	022842	SCREW	
14	196790	BEARING - Thrust, 5/16 I.D. x 11/16 O.D. x 7/32	1
15	022778	SHAFT ASSEMBLY - Operating Lever	1
16	100554	PIN - Roll, .136 O.D. x .760 O.A.L.	2
17	001755	WASHER - .385 I.D. x .625 O.D. x .047	2
18	196444	SPRING - Compression, .382 I.D. x 1-5/32 O.A.L.	2
19	196784	SCREW - Set, 10-32 x 1"	2
20	022779	SEGMENT ROLLER ASSEMBLY	1
21	*022763	OPERATING LEVER ASSEMBLY - L.H.	1
22	*022762	LEVER ASSEMBLY - R.H.	1
23	*022775	SHAFT	1
24	022766	LEVER ASSEMBLY - Segment Roll, O.S.	1
25	022767	LEVER ASSEMBLY - Segment Roll, N.O.S.	1
26	001080	RING - Retaining, .302 I.D. x .660 O.D. x .037	4
27	022772	RETAINER - Nut, 13/16-32	2
28	196783	BEARING - Ball, 1/4 I.D. x .5/8 O.D. O.A.L.	2
29	022773	NUT - Special, 1/4-28	2
30	022759	ROLLER ASSEMBLY	1
31	100554	PIN	1
32	*072125	GEAR	1
33	072124	BEARING - Lower Forwarding Roller	1
34	*007648	ROLLER - Lower Forwarding	1

* Not Procurable Separately

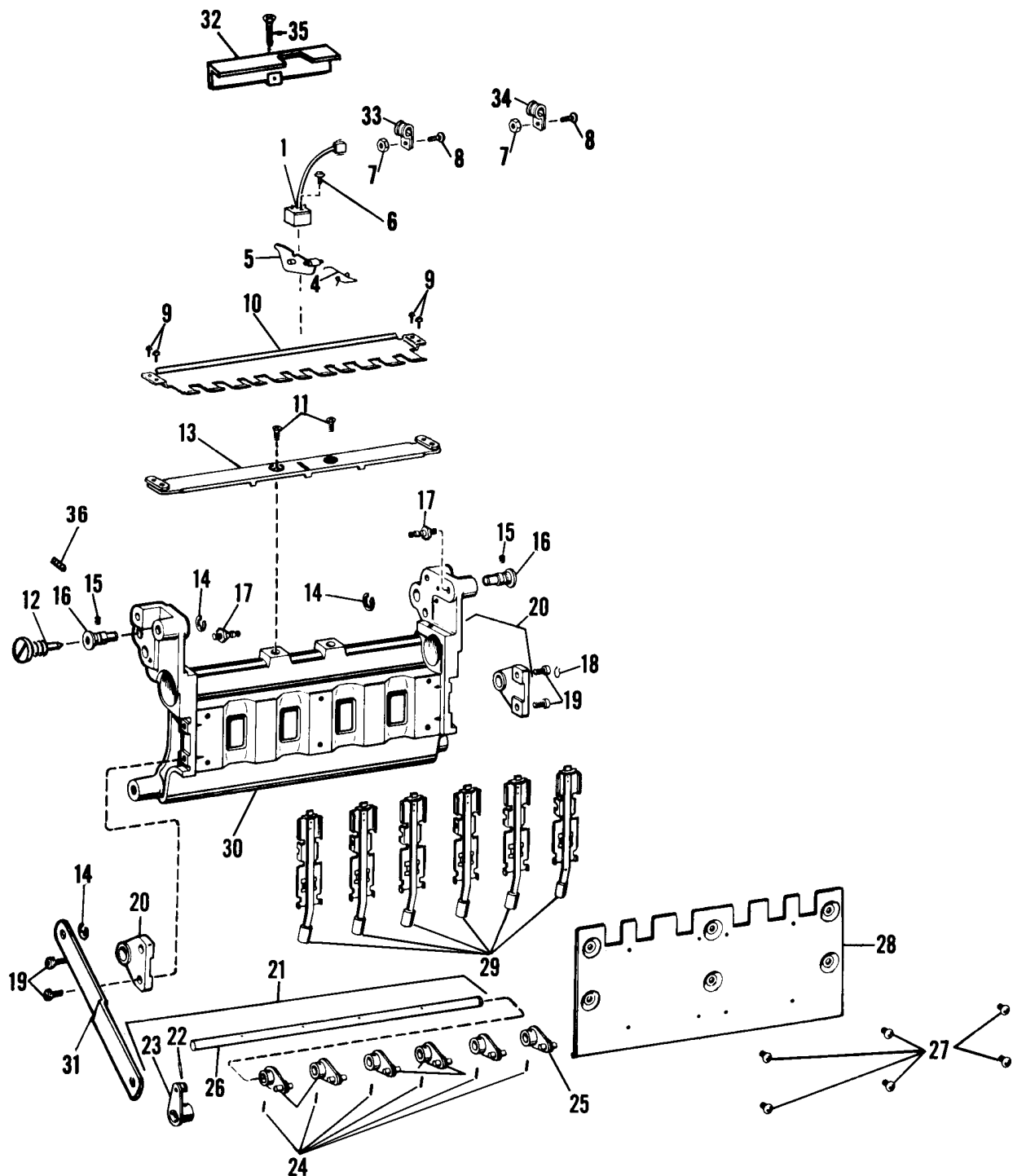


FIGURE 45
Main Tie Bar Assembly - Part II

Parts Catalog

Index No.	Part No.	Figure 45 Description	Units Per Assy.
1	009532	PAPER SENSOR	1
4	009535	SPRING - Torsion, Interrupter	1
5	009536	INTERRUPTER - Sensor	1
6	100678	SCREW - 4-40 x 5/8	1
7	014811	NUT - 8-32	2
8	014369	SCREW - 8-32 x 3/8	2
9	014359	SCREW - 8-32 x 5/8	4
10	009538	PAPER CHUTE - Upper	1
11	001542	SCREW - 10-32 x 7/16	1
12	022770	SCREW - Pivot	2
13	009540	PAPER CHUTE - Lower	1
14	001080	RING - Retaining, .302 I.D. x .660 O.D. x .037	3
15	130033	SCREW - Set, 8-32 x 1/4	2
16	022788	INSERT - Segment Roller Shaft	2
17	022771	ANCHOR - Spring	2
18	001046	RING - Snap, .283 I.D. x .027	1
19	014158	SCREW - 10-32 x 1/2	4
20	073712	BEARING BRACKET ASSEMBLY - Finger Operating	2
21	017133	SHAFT ASSEMBLY - Finger Operating	1
22	000020	PIN - Taper, .112 O.D. x .625 O.A.L.	1
23	*072134	LEVER - Finger Operating	1
24	001984	PIN - Roll, .103 O.D. x .640 O.A.L.	6
25	*072136	LEVER - Finger Operating	6
26	*007650	SHAFT - Finger Operating	1
27	001106	SCREW - 10-32 x 5/16	6
28	017134	APRONASSEMBLY	1
29	072143	FINGER AND TUBE ASSEMBLY	6
30	022761	CASTING - Main Tie Bar)	1
31	080411	LINK	1
32	018402	COVER - Plastic	1
33	100483	CLAMP - Cable, 1/8 I.D.	1
34	250202	CLAMP - Cable, 1/8 I.D.	1
35	122502	SCREW - 4-40 x 5/16	1
36	014372	SCREW - Set, 10-32 x 1/4	2

* Not Procurable Separately

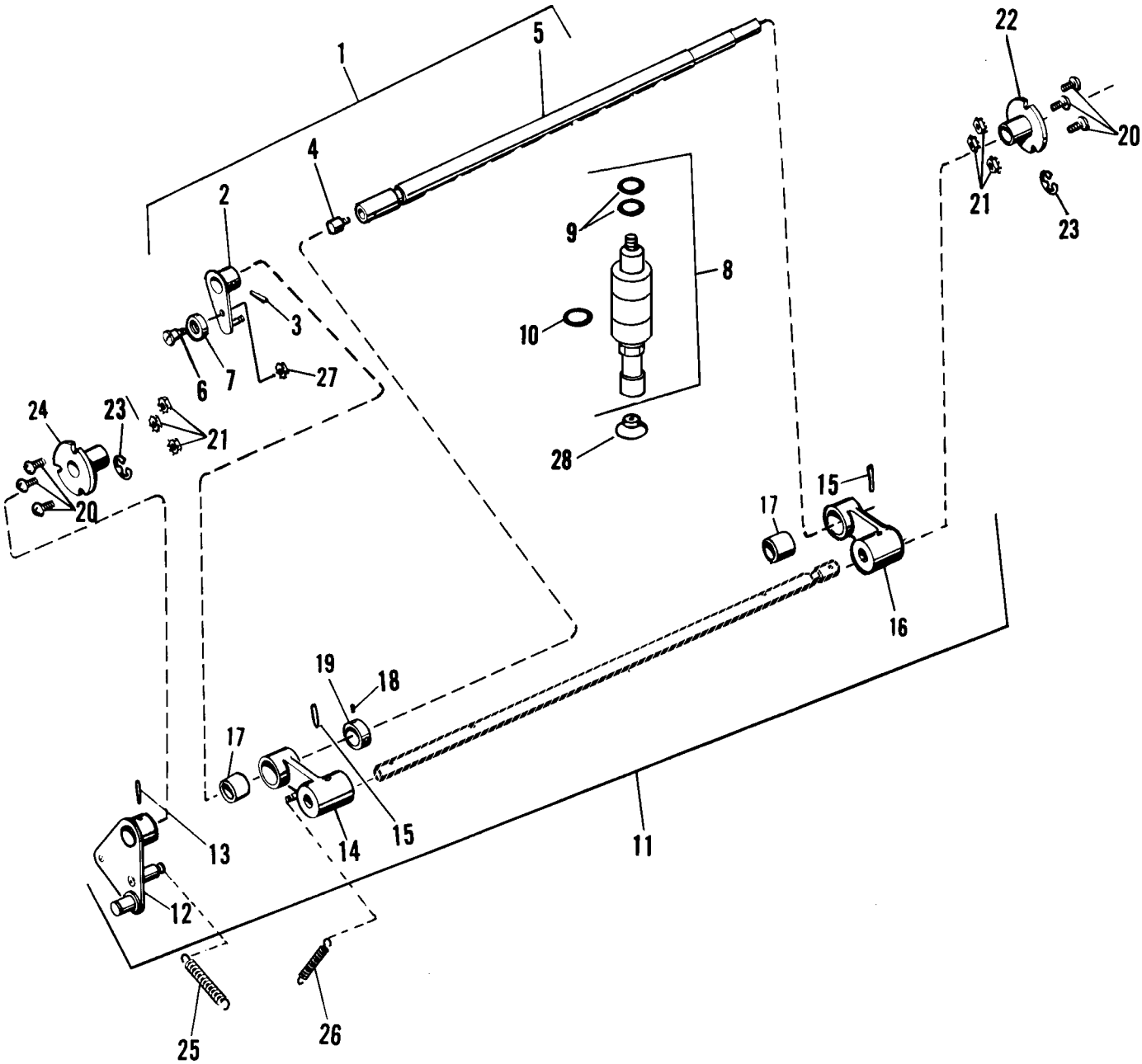


FIGURE 46
Sucker Foot Assembly

Parts Catalog

Index No.	Part No.	Figure 46 Description	Units Per Assy.
1	007601	TUBE ASSEMBLY - Header	1
2	*072710	LEVER	1
3	001956	PIN - Taper, .155 O.D. x .968 O.A.L.	1
4	073478	PLUG - Header Tube	1
5	*007602	TUBE - Header	1
6	191367	STUD - Shoulder	1
7	072712	TRUCK	1
8	403214	SUCKER TUBE	11
9	102031	"O" RING	22
10	102171	"O" RING	11
11	007563	SHAFT ASSEMBLY - Feed Raise	1
12	*072245	LEVER	1
13	101331	PIN - Roll, .167 O.D. x .890 O.A.L.	3
14	*072717	LEVER ASSEMBLY - O.S.	1
15	000014	PIN - Taper, .146 O.D. x 1.094 O.A.L.	2
16	*072720	LEVER ASSEMBLY - N.O.S.	1
17	001495	BUSHING - .609 I.D. x .817 O.D. x .750	2
18	014372	SCREW - Set, 10-32 - 1/4	4
19	072748	COLLAR - Header Tube and Lever	1
20	111055	SCREW - 10-32 x 9/16	6
21	150083	NUT - 10-32	6
22	076882	HOUSING ASSEMBLY - Feed Raise Shaft Bearing	2
23	101611	RING - Retaining, .756 I.D. x .044	2
24	076894	HOUSING ASSEMBLY	1
25	073486	SPRING - Tension, .581 O.D. x 2.437 O.A.L. x .080	1
26	072442	SPRING - Tension, .343 O.D. x 2.000 O.A.L. x .040	1
27	150085	NUT - 1/4-28	1
28	084248	FOOT - Rubber	11

* Not Procurable Separately

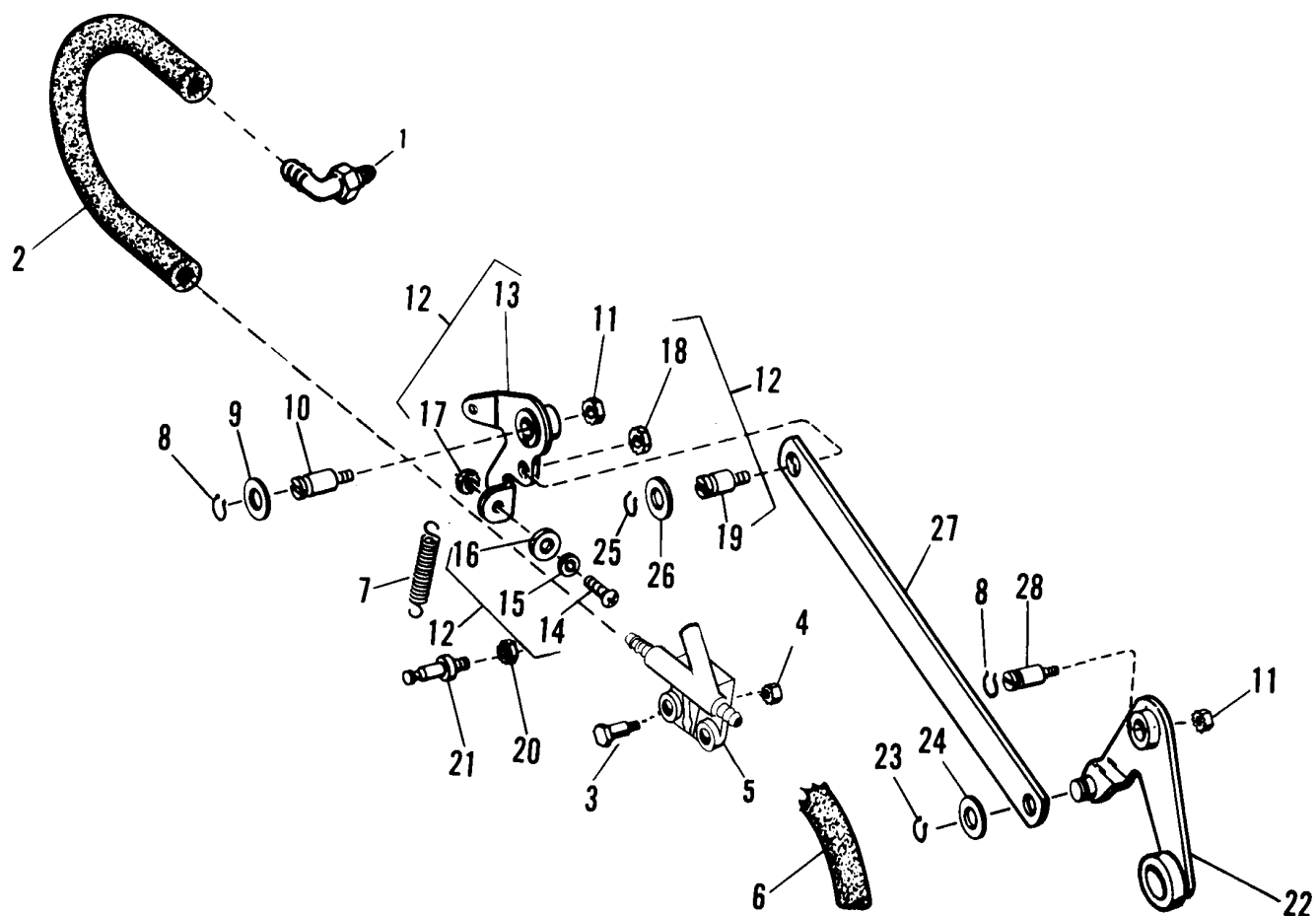


FIGURE 47
Vacuum Make and Break Control

Parts Catalog

Index No.	Part No.	Figure 47 Description	Units Per Assy.
1	191844	ELBOW - Vacuum Hose	1
2	072254	HOSE - Vacuum, 11/16" O.D. x 12-1/4" O.A.L.	1
3	193894	SCREW - Vacuum Valve	2
4	150085	NUT - 1/4-28	2
5	076142	VALVE - Vacuum	1
6	012478	TUBE - Vacuum Valve/Vacuum Break - 7/16 I.D. x 32-1/2 O.A.L.	1
7	072442	SPRING - Tension, .343 I.D. x 2.000 O.A.L.	1
8	001047	RING - Retaining, .340 I.D. x .027	2
9	001755	WASHER - .385 I.D. x .625 O.D. x .047	1
10	073497	STUD - Vacuum Break Lever	1
11	150083	NUT - 10-32	2
12	073496	LEVER ASSEMBLY - Vacuum Break	1
13	071570	LEVER - Vacuum Break	1
14	014369	SCREW - 8-32 x 3/8	1
15	003850	WASHER - .172 I.D. x .375 O.D. x .059	1
16	072704	WASHER - Leather, .172 I.D. x .322 O.D. x .063	1
17	014811	NUT - 8-32	1
18	014808	NUT - 10-32	1
19	073498	PIN - Vacuum Break Lever	1
20	014808	NUT - 10-32	1
21	072412	STUD - Vacuum Break Lever	1
22	073493	LEVER - Cam Roller	1
23	001049	RING - Retaining, .227 I.D. x .027	1
24	021203	WASHER - .254 I.D. x .500 O.D. x .029	1
25	001046	RING - Retaining, .283 I.D. x .027	1
26	001750	WASHER - .328 I.D. x .562 O.D. x .047	1
27	073494	LINK - Vacuum	1
28	072734	STUD - Cam Roller Lever	1

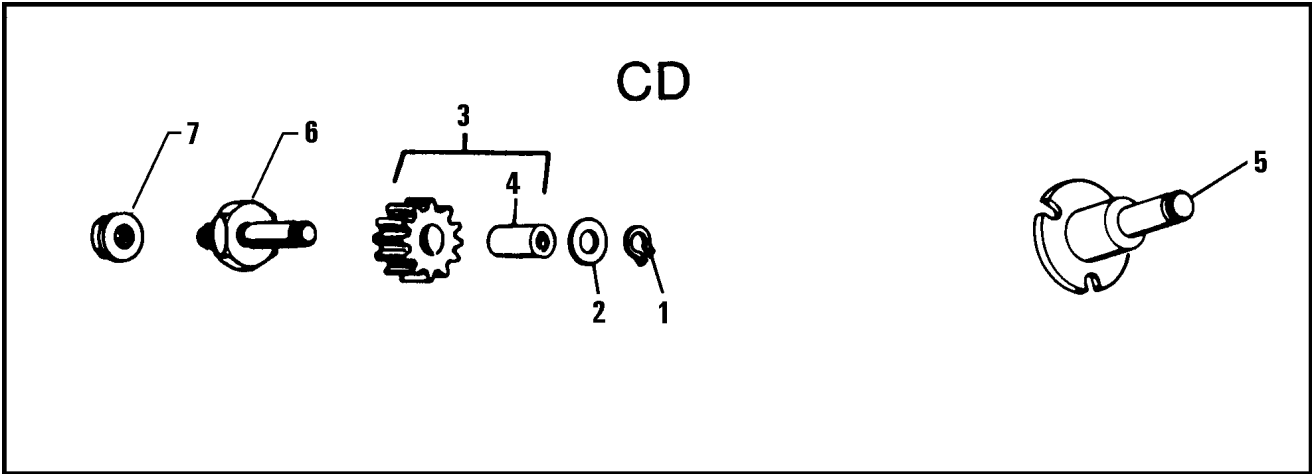
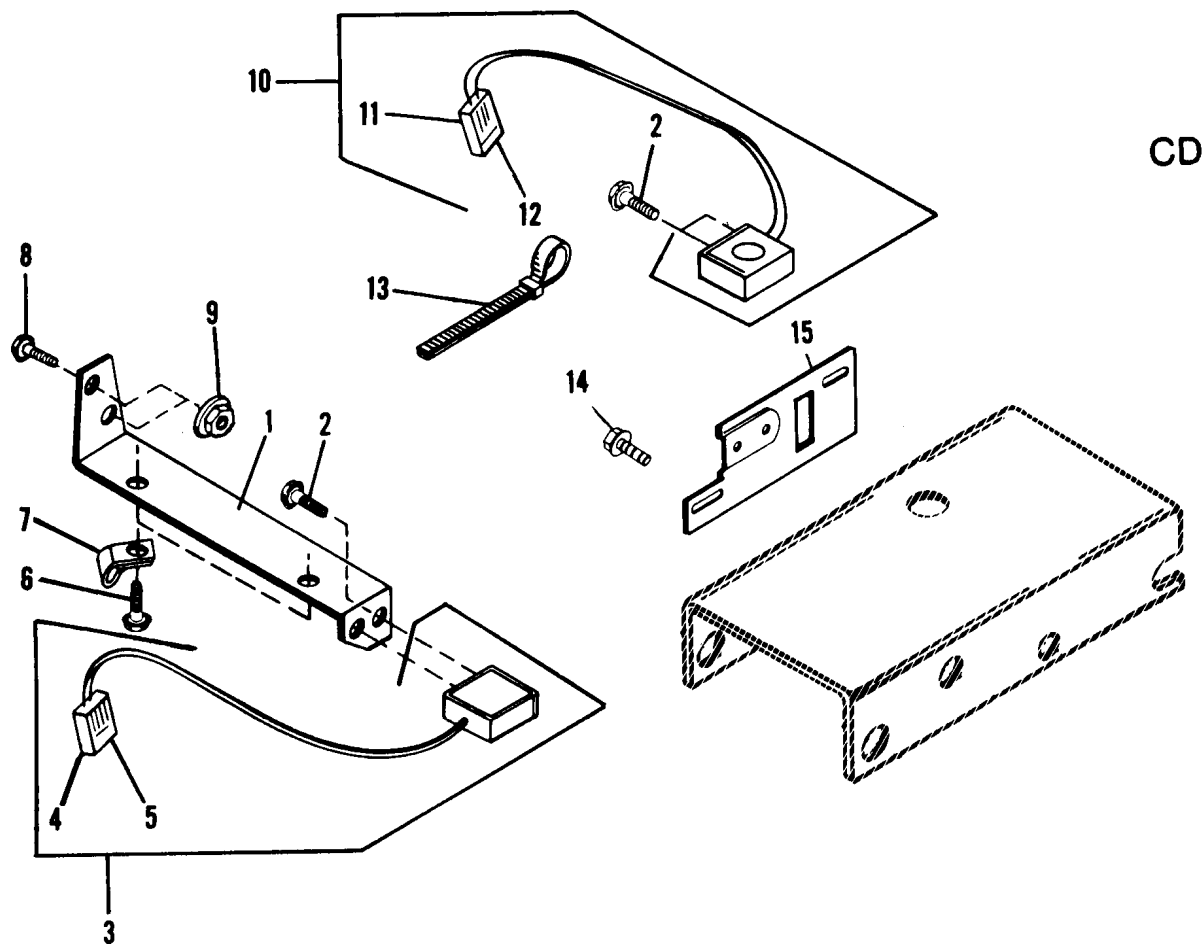


FIGURE 48
Delivery Roller and Stripper Assembly

Parts Catalog

Index No.	Part No.	Figure 48 Description	Units Per Assy.
1	001047	RING - Retaining, .340 I.D. x .027	1
2	014727	WASHER - .382 I.D. x .750 O.D. x .029	1
3	016378	GEAR ASSEMBLY - CD.	1
4	001401	BUSHING - .379 I.D. x .504 O.D. x .750 O.A.L.	1
5	080192	STUD - Follower Lever Pivot, CD.	1
6	196388	STUD - Chain Delivery	1
7	150089	NUT - 3/8-24	1

*** Not Available as An Assembly



CD

FIGURE 49
Jam Detector Assembly

Parts Catalog

Index No.	Part No.	Figure 49 Description	Units Per Assy.
1	016459	BRACKET - Sensor	1
2	000895	SCREW - 6-32 x 3/8	4
3	011506	PHOTOTRANSISTOR ASSEMBLY - Upper	1
4	250256	CONNECTOR HOUSING - Plug	1
5	250259	TERMINAL - Socket	2
6	100666	SCREW - Self-Tapping, 8-32 x 5/16	2
7	250202	CLAMP - Cable, 1/8	2
8	001542	SCREW - Flat Head, 10-32 x 7/16	2
9	150083	NUT - 10-32	2
10	011507	LAMP ASSEMBLY - Infrared, Lower	1
11	250258	CONNECTOR HOUSING - Socket	1
12	250257	TERMINAL - Pin	2
13	250077	TIE - Cable, 3-7/8 O.A.L.	2
14	001541	SCREW - 6-32 x 1/4	2
15	016298	BRACKET - Sensor	1

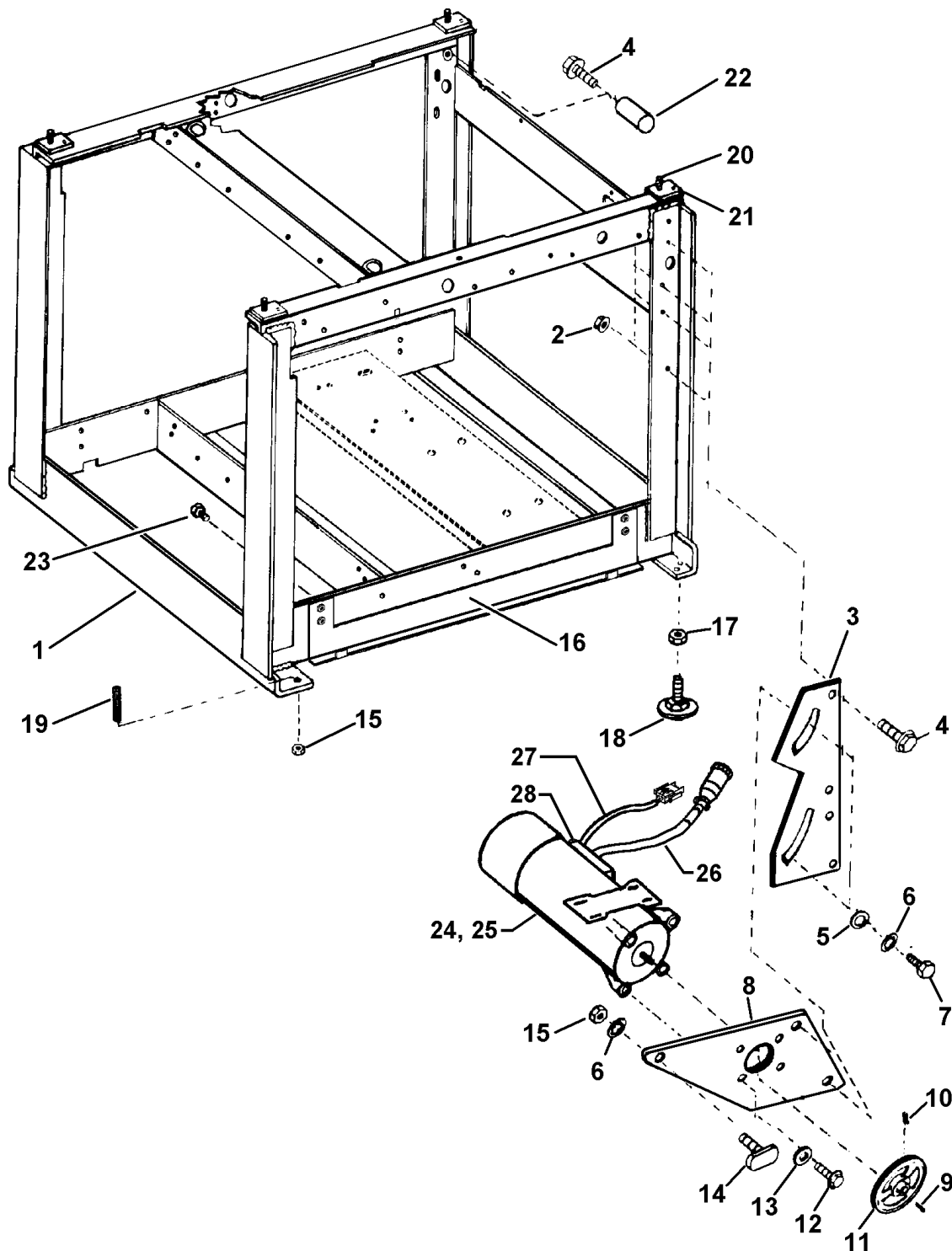


FIGURE 50
Base Frame and Drive Motor

Parts Catalog

Index No.	Part No.	Figure 50 Description	Units Per Assy.
*	403010	BASE ASSEMBLY - Complete with Motor, Pump, Compressor etc. (not illustrated)	1
1	017545	BASE ASSEMBLY - Welded	1
2	150085	NUT - 1/4-28	4
3	083392	PLATE - Spacer	1
4	111074	SCREW - 1/4-28 x 3/4	4
4	111091	SCREW - 5/16-24 x 3/4	4
5	193647	WASHER - Plain, 1/2 I.D. x 1.000 O.D. x .059	2
6	014751	WASHER - Lock, 1/2 O.D.	3
7	101203	SCREW - 1/2-20 x 3/4	2
8	083393	PLATE - Motor Mount	1
9	191963	KEY - 3/16 x 1-1/8	1
10	001523	SCREW - Set, 5/16-18 x 3/8	1
11	025123	PULLEY - 4.4 O.D.	1
12	101869	SCREW - 3/8-16 x 1.000	4
13	001763	WASHER - Lock, 3/8 I.D.	4
14	083394	PIN - Pivot, 1/2-20	1
15	101170	NUT - 1/2-20	3
16	400613	BRACKET ASSY.	2
17	001845	NUT - 3/8-24	1
18	017542	GLIDER	3
19	101913	SCREW - Set, 1/2-20 x 2" O.A.L.	2
20	190129	SCREW - 5/16-18 x 1.000	4
21	011066	SPACER	4
22	196470	STUD - Tray Support	2
23	111073	SCREW - 1/4-28 x 5/8	4
24	402844	MOTOR ASSEMBLY - With Cord	1
25	083389	MOTOR - 180 V.D.C. 1 HP (By itself).	1
26	402845	CORD ASSEMBLY - (With large Plug).	1
27	402883	CABLE ASSEMBLY - Thermostat	1
28	101374	STRAIN RELIEF	1
	083819	BRUSH - Baldor 1HP (Not Illustrated)	2
	083820	BRUSH - Magnetek 1 HP (Not Illustrated)	2
	083821	BRUSH - Kinetic Systems 1 HP (Not Illustrated)	2
	083823	BRUSH - RAE Motors 1 HP (Not Illustrated)	2
	083824	BRUSH - Scott Motors 1 HP (Not Illustrated)	2
	083825	BRUSH - US Electrical Motors 1 HP (Not Illustrated)	2
	083822	BRUSH - Leeson Electric 1HP (Not Illustrated)	2
	083755	BRUSH - Leeson Electric 1-1/2 HP (Not Illustrated)	2
	083756	BRUSH - Baldor 1-1/2 HP (Not Illustrated)	2

Parts Catalog

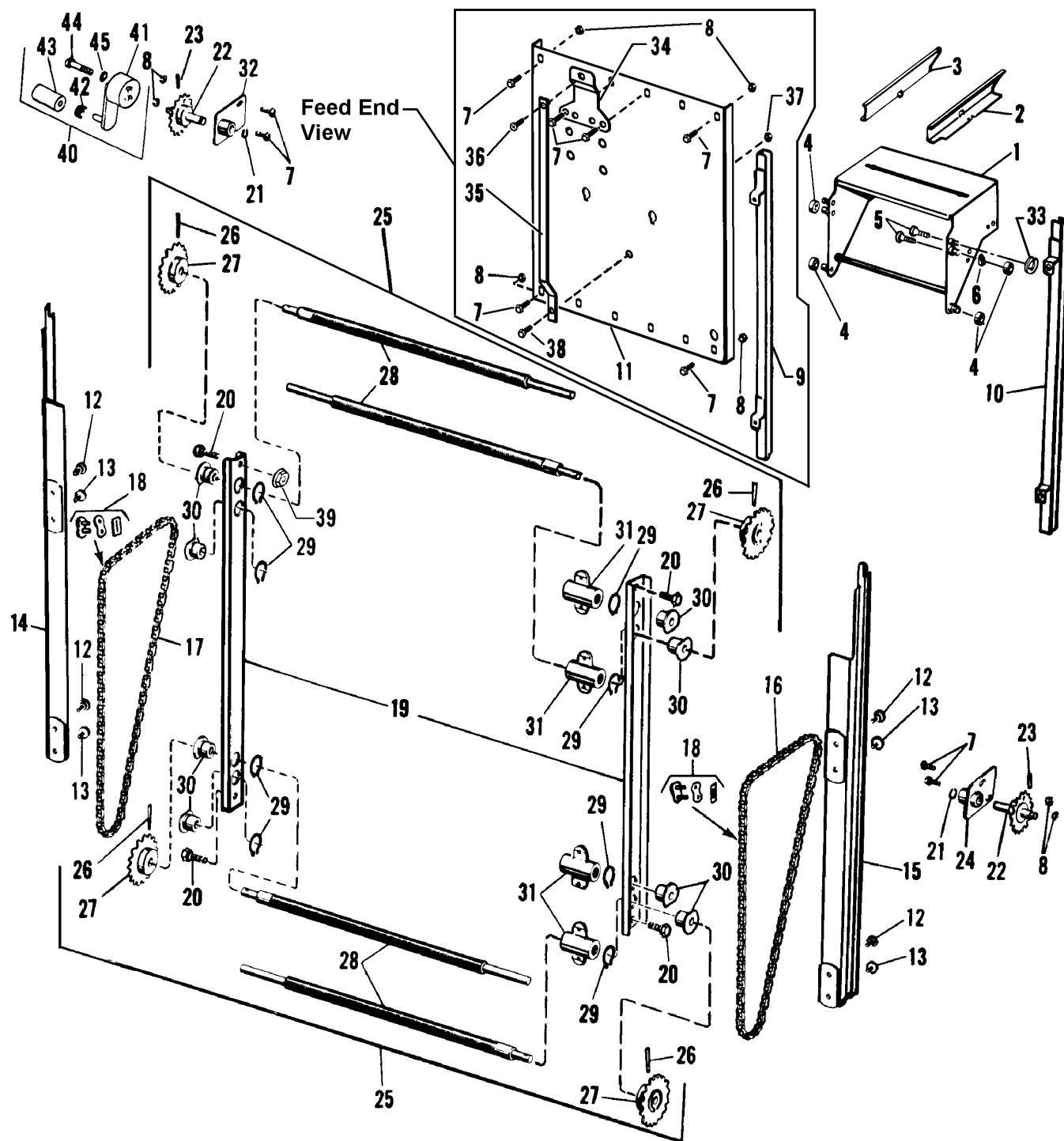


FIGURE 51
Feed Table and Paper Guides

Parts Catalog

Index No.	Part No.	Figure 51 Description	Units Per Assy.
1	017682	FEED TABLE ASSEMBLY	1
2	011431	SUPPORT GUIDE - O.S.	1
3	011432	SUPPORT GUIDE - N.O.S.	1
4	072029	TRUCK - Feed Table	4
5	001690	SCREW - 10-32 x 5/16	2
6	073473	BRACKET - Trip	2
7	111073	SCREW - 1/4-28 x 5/8	12
8	150085	NUT - 1/4-28	12
9	011052	CHANNEL ASSEMBLY - N.O.S.	1
10	011051	CHANNEL ASSEMBLY - O.S.	1
11	025147	PANEL - Cover & Motor Mount	1
12	016327	SCREW - Shoulder, 10-32	4
13	016060	SCREW - 10-32 x 3/8	4
14	087266	GUIDE ASSEMBLY - N.O.S. (with Micro Lateral)	1
15	072069	GUIDE ASSEMBLY - O.S.	1
16	072024	CHAIN - Table Adjusting, O.S.	1
17	072037	CHAIN - Table Adjusting, N.O.S.	1
18	071576	LINK - Master	1
19	072063	BRACKET - Guide Screw Bearing	2
20	111089	SCREW - 5/16-24 x 5/8	4
21	001048	RING - Retaining, .463 I.D.	2
22	013947	SPROCKET ASSEMBLY - Table Adjusting	2
23	001980	PIN - Roll, .135 O.D. x .640 O.A.L.	2
24	011077	BRACKET ASSEMBLY - N.O.S.	1
25	007533	SCREW ASSEMBLY - Feed Table Guide	4
26	000024	PIN - Taper, .176 O.D. x 1.141 O.A.L.	4
27	*072044	SPROCKET - 15 Tooth	4
28	*007534	SCREW	4
29	100119	RING - Retaining, .815 I.D.	8
30	072064	BEARING - Guide Screw	4
31	084473	BEARING - Guide Screw	4
32	011076	BRACKET ASSEMBLY - O.S.	1
33	001095	RING - Retaining, .245 I.D.	2
34	400546	MOUNTING BRACKET ASSEMBLY	1
35	400584	BAR	1
36	001542	SCREW - Phillips.	1
37	150083	NUT	1
38	111053	SCREW	1
39	150087	NUT - 5/16-24	4
40	017595	CRANK ASSEMBLY	2
41	017594	CRANK ARM	2
42	072052	LOCK - Spring	2
43	011371	HANDLE	2
44	196244	SCREW - Special, 10-32 x 1.000 O.A.L.	2
45	039642	RING - Vinyl, .155 I.D. x .295 O.D. x .075	2

*Not Procurable Separately

Supply Items

9122 - 11"x17" Paper Support Boards, 12 per carton
 9123 - 8-1/2"x11", 14" Paper Support Boards 12 per carton

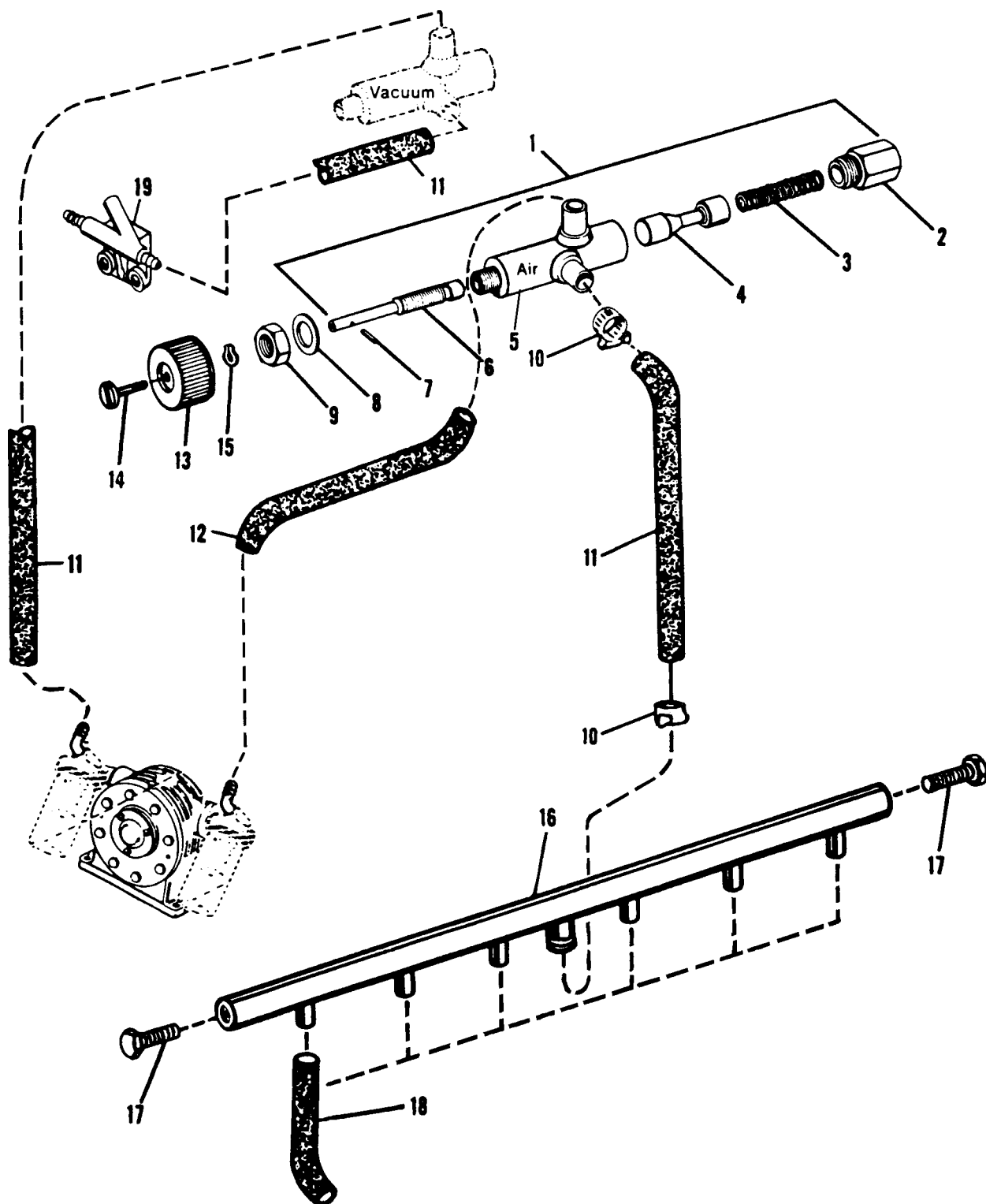


FIGURE 52
Air and Vacuum Valve Assembly

Parts Catalog

Index No.	Part No.	Figure 52 Description	Units Per Assy.
1	016897	AIR AND VACUUM VALVE ASSEMBLY	2
2	013010	PLUG - Air and Vacuum	1
3	080481	SPRING - Compression, .400 O.D. x 2.437 O.A.L.	1
4	013007	VALVE SPOOL - Valve Body	1
5	013434	VALVE BODY - Air and Vacuum	1
6	016898	SHAFT - Air and Vacuum	1
7	001990	PIN - Roll, .131 O.D. x .485 O.A.L.	1
8	021911	WASHER - .578 I.D. x .875 O.D.	2
9	191473	NUT - Nylon	2
10	072741	CLAMP - Hose	6
11	072257	HOSE - 18.000 O.A.L.	2
12	072256	HOSE - 35.000 O.A.L.	3
13	017735	KNOB - Air and Vacuum	2
14	196246	SCREW - Dowel, 1/4-28	2
15	039642	RING - Vinyl, .135 I.D.	1
16	007672	HEADER ASSEMBLY	1
17	111073	SCREW - 1/4-28 x 5/8	2
18	195197	TUBING - 5/16 I.D. x .469 O.D. x 6-3/8 O.A.L.	6
19	076142	VALVE - Vacuum	1
20	012476	TUBING - 15-1/2" O.A.L.	1
21	196612	VALVE SHUT OFF	2

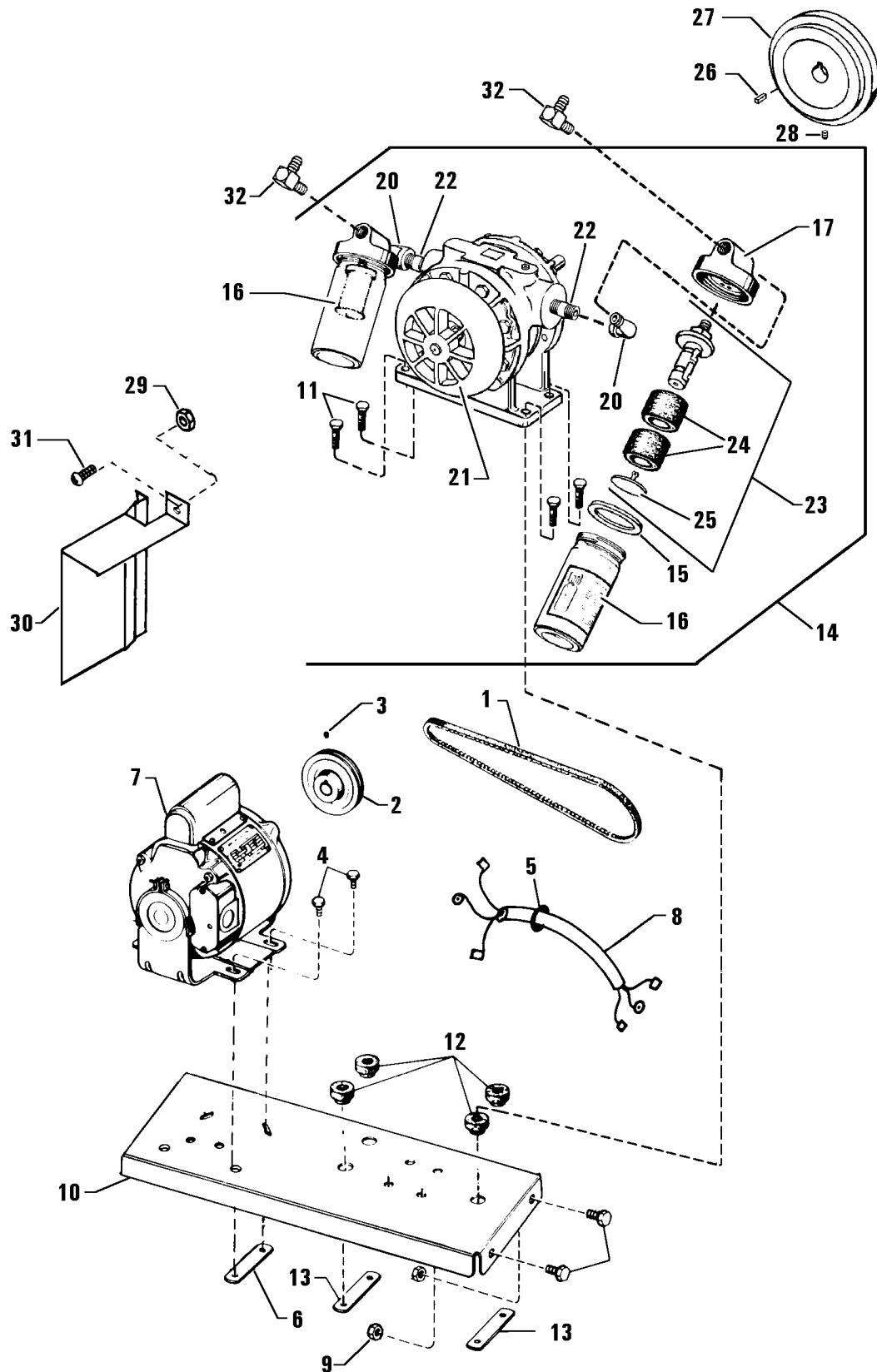


FIGURE 53
Compressor Assembly

Parts Catalog

Index No.	Part No.	Figure 53 Description	Units Per Assy.
1	054479	BELT - Compressor, (3L340) 34" 50/60 Hz.	1
2	403092	PULLEY ASSEMBLY - 4" 50/60 Hz.	1
3	101887	SCREW - Set Dog Point, 5/16-18 x 5/8	1
4	111089	BOLT - Motor Mounting, 5/16-18 x 5/8	8
5	041821	STRAIN RELIEF	1
6	025496	NUT PLATE	2
7	402145	MOTOR ASSEMBLY - Pump, 100/230V. 50/60HZ.	1
8	025354	CORD Motor, 115V.	1
9	150087	NUT - 5/16-24	4
10	008029	BASE - Pump	1
11	014121	BOLT - 3/8-24 x 1-1/2	4
12	072840	GROMMET	4
13	072838	NUT PLATE	2
14	402301	COMPRESSOR ASSEMBLY	1
15	072261	GASKET	2
16	072852	BOTTLE	2
17	072161	COVER	1
18	402300	VANE (Not Illustrated)	4
19	072920	SHIM (Not Illustrated)	1
20	072826	ELBOW	2
21	402400	FAN	1
22	102282	NIPPLE	2
23	072265	FILTER ASSEMBLY	2
24	072855	FILTER	2
25	016569	CAP - Plastic	1
26	190398	KEY - 3/16 X 3/16 X 1-3/8	1
27	403091	PULLEY - Pump	1
28	001523	SETSCREW - 5/16-18 x 3/8	1
29	014811	NUT - 8-32	3
30	025194	GUARD	1
31	001586	SCREW - 8-32 x 5/16	3
32	403357	BARB - 1/2 I.D., Hose to 3/8 NPT	4
33	193810	SLEEVE GROMET - (Not Illustrated)	4

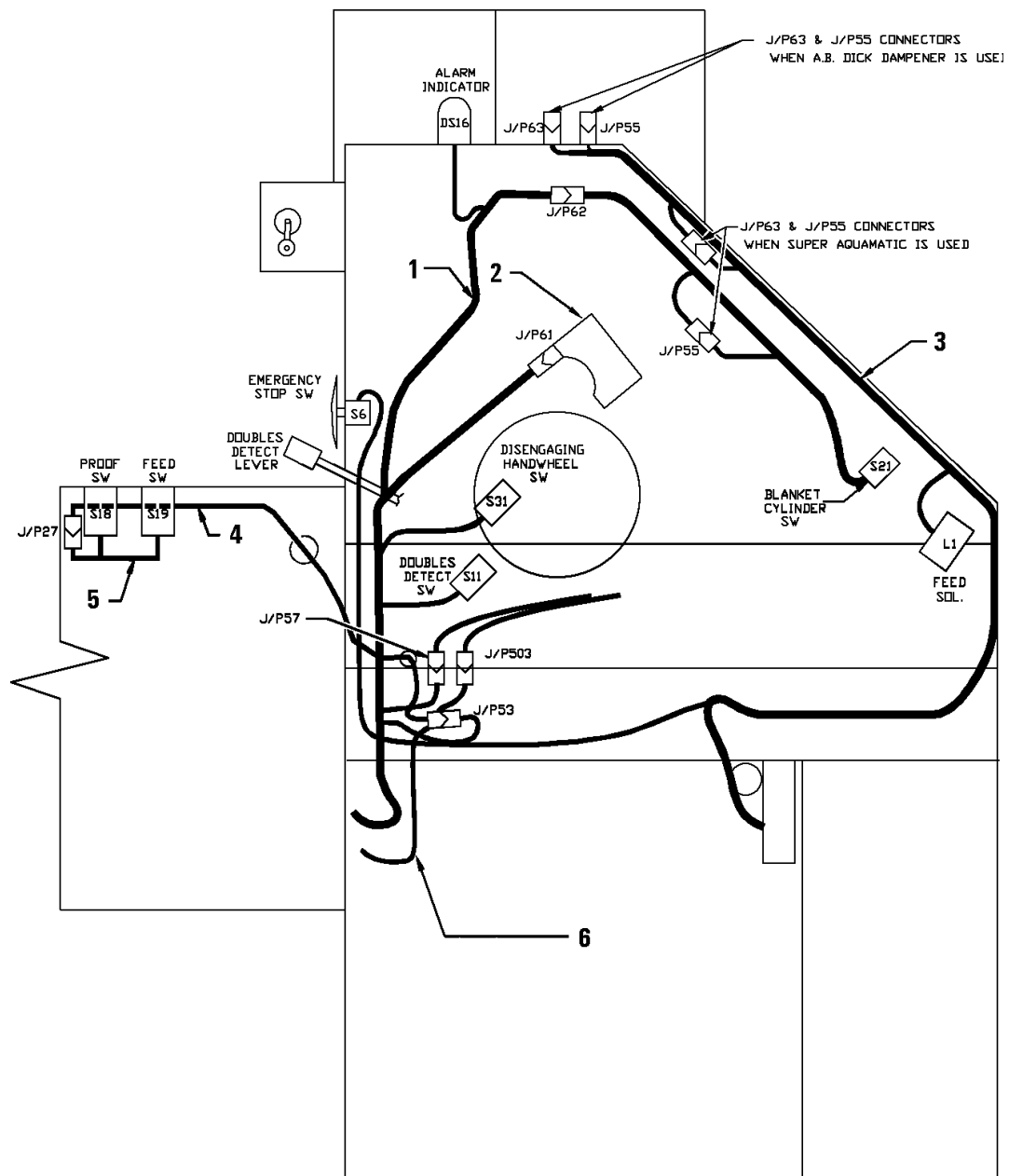


FIGURE 54
Wire Harness - O.S.

Parts Catalog

Index No.	Part No.	Figure 54 Description	Units Per Assy.
1	403451	HARNESS - Low voltage (Side Frame)	1
2	017734	P.C. BOARD ASSY.....	1
3	403450	HARNESS - 115 VAC (Side Frame)	1
4	025658	HARNESS ASSY.	1
5	400887	HARNESS - Feed Proof Switch	1
6	025329	RIBBON CABLE ASSY.	1

Parts Catalog

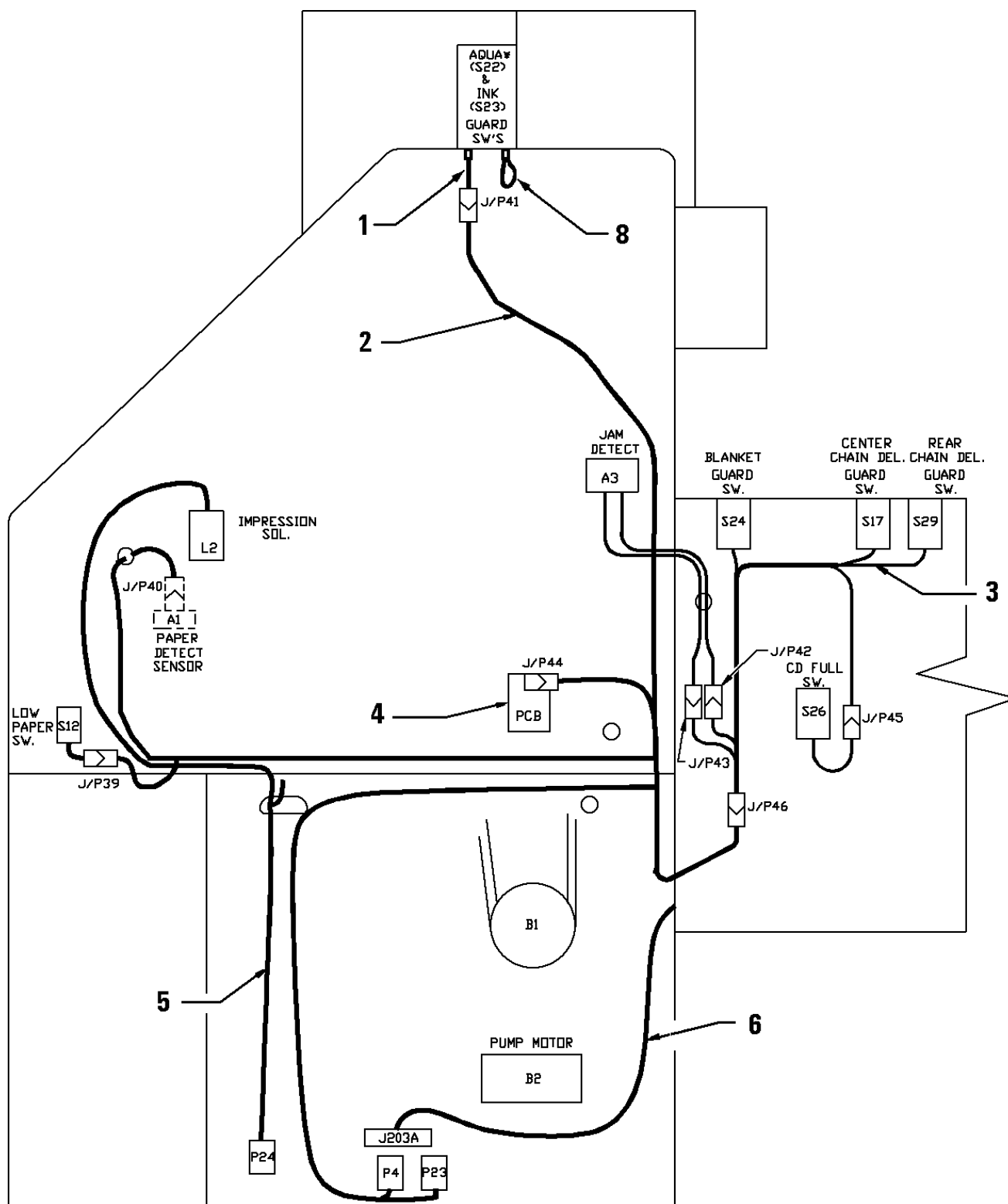


FIGURE 55
Wire Harness - N.O.S.

Parts Catalog

Index No.	Part No.	Figure 55 Description	Units Per Assy.
1	402673	HARNESS ASSY. - Ink / Aqua	1
2	403451	HARNESS - Low Voltage (Side Frame)	1
3	403442	HARNESS - Chain Delivery	1
4	017742	P.C. BOARD ASSY.	1
5	403450	HARNESS - 115 VAC (Side Frame)	1
7	025239	RIBBON CABLE	1
8	196635	WIRE ASSEMBLY.	1

Parts Catalog

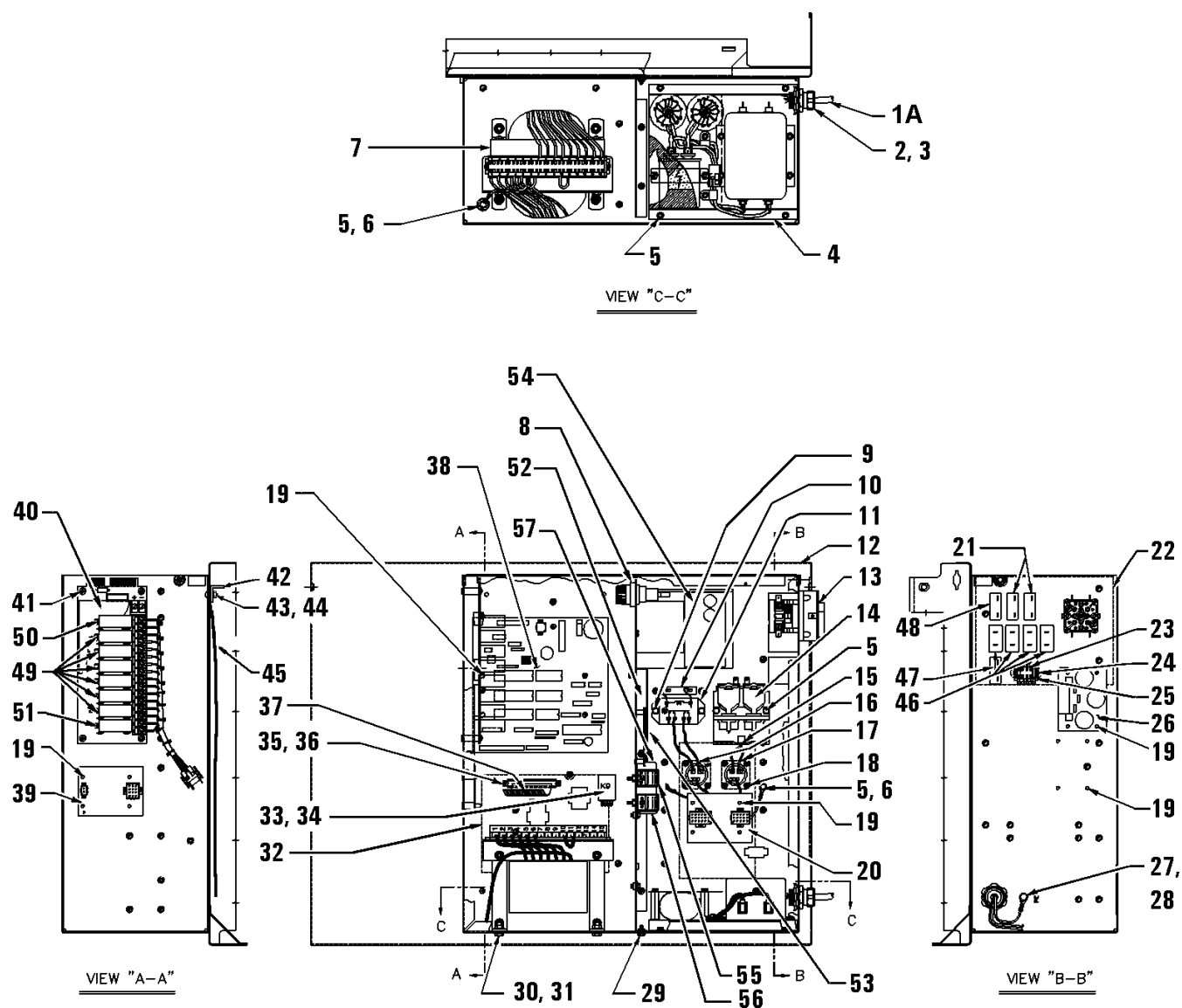


FIGURE 56
Control Box - Part I

Parts Catalog

Index No.	Part No.	Figure 56 Description	Units Per Assy.
1	403420	CONTROL BOX ASSY.	1
1A	025355	POWER CORD	1
2	254504	FITTING - Strain Relief	1
3	254507	LOCKNUT	1
4	403443	FILTER ASSY.	1
5	111033	SCREW - Hex , Washer HD	6
6	001722	WASHER - Lock	3
7	401678	TRANSFORMER ASSY.	1
8	403429	DIVIDER ASSY.	4
9	001548	SCREW - Phillips	2
10	402855	RESISTOR ASSY.	1
11	254559	RELAY	1
12	403439	COVER & CONTROL BOX ASSY. (Welded Shell)	1
13	253952	POWER SWITCH - Main	1
14	254285	CONTACTOR	1
15	402238	DECAL - (Opposite Side)	1
16	402661	RECEPTACLE ASSY. - Pump Motor	1
17	402662	RECEPTACLE ASSY. - Drive Motor	5
18	101151	SCREW	8
19	254211	STANDOFF	21
20	402632	P.C. BOARD ASSY. - J102/107	1
21	253542	CIRCUIT BREAKER	2
22	403418	DECAL - Opposite Side	1
23	400845	MARKER - TS1	1
24	100529	SCREW - Phillips	2
25	400861	TERMINAL BLOCK ASSY.	1
26	403456	P.C. BOARD ASSY. -- Supressor	1
27	111051	SCREW - Hex H D Washer	1
28	100997	WASHER - Lock	1
29	100683	SCREW - Sems, Hex.	5
30	111071	SCREW	4
31	014807	NUT - Keps	4
32	403419	DECAL - (Opposite Side)	1
33	025481	RELAY	1
34	014812	NUT - Keps	1
35	100228	NUT	2
36	100457	SCREW	2
37	401209	RIBBON CABLE	1
38	400700	P.C. BOARD ASSY. - Integrated Interface	1
39	401212	P.C. BOARD ASSY. - 5V Dist. G.T.P. (Green Tag)	1
40	402615	P.C. BOARD ASSY. - SSR	1
41	110035	SCREW - POZ1	1
42	402298	MTG. ANGLE	1
43	001641	SCREW - Phillips	7
44	150081	LOCKNUT	1
45	402297	INSULATOR - Cover	1
46	253543	CIRCUIT BREAKER - 4.0A	4
47	253542	CIRCUIT BREAKER - 2.5A	1
48	250051	CIRCUIT BREAKER -10.0A	1
49	253491	SSR - AC Output Module	6
50	253492	SSR - I/O Module, E-Stop	1
51	254677	SSR - Module A.C. Output Buffered, Dampener	1
52	253726	P.C. BOARD ASSY. - Speed Control, 1.0 H.P.	1
53	022815	P.C. BOARD ASSY. - Digital Speed Control (E ² Pot)	1
54	401212	DC POWER SUPPLY ASSY.	1
55	025481	RELAY ASSY. - Safety Guard	1
56	253468	RELAY - 120V Coil	1
57	403435	FILTER ASSY. - RFI	1

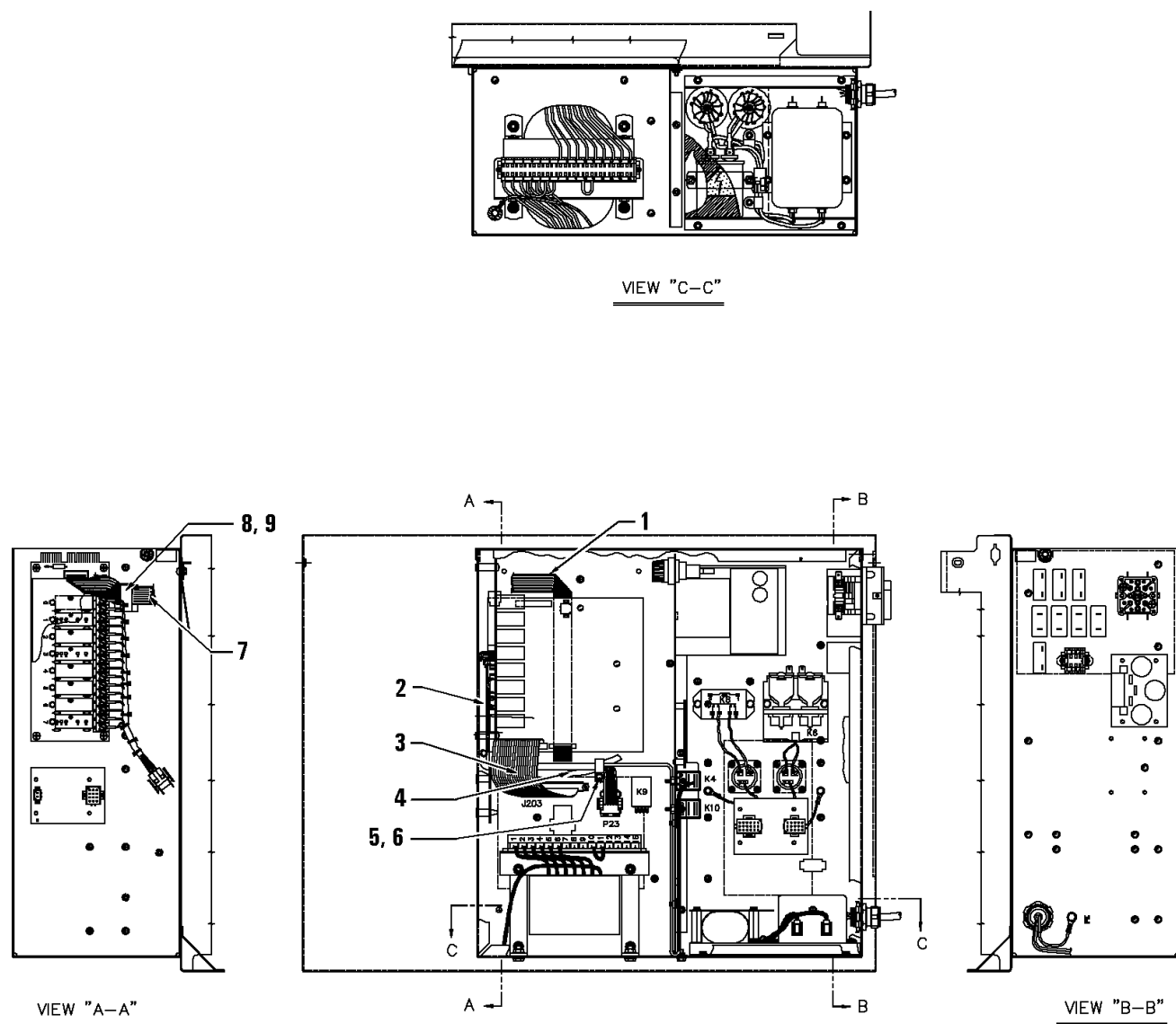


FIGURE 57
Control Box - Part II

Parts Catalog

Index No.	Part No.	Figure 57 Description	Units Per Assy.
1	402665	CABLE ASSY. - Ribbon Cable	1
2	403438	HARNESS - P23 TO P6 & P7	1
3	401209	RIBBON CABLE	1
4	403430	HARNESS - Low Voltage	1
5	250206	CLAMP - 1/2"	1
6	111033	SCREW - Hex Washer HD	1
7	402665	RIBBON CABLE	1
8	252842	CLAMP - Ribbon Cable	1
9	001289	SCREW - #8-32	1

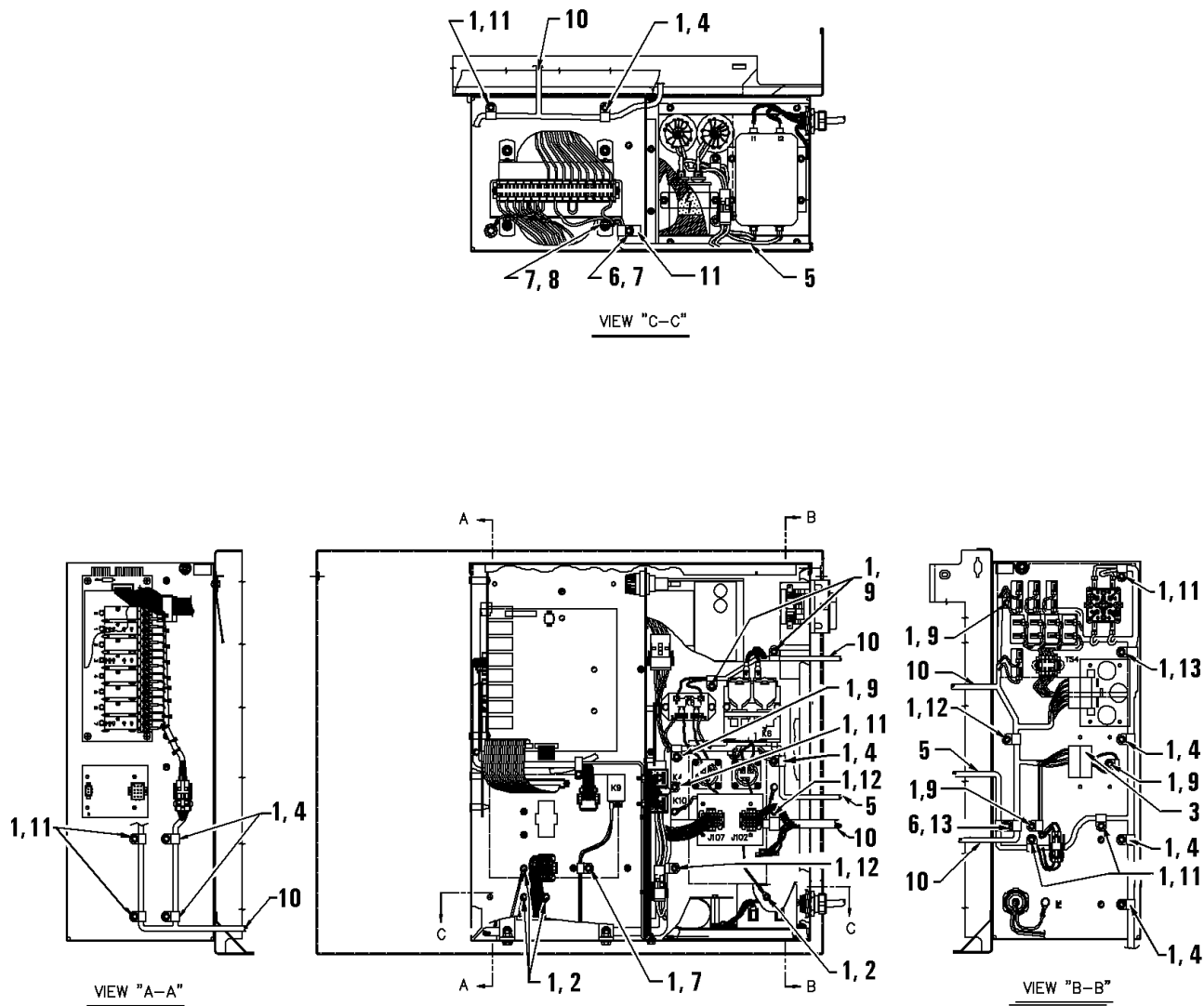


FIGURE 58
Control Box - Part III

Parts Catalog

Index No.	Part No.	Figure 58 Description	Units Per Assy.
1	111033	SCREW - Hex Washer HD	26
2	001722	WASHER - Lock	4
3	403426	JUMPER PLUG	1
4	250204	CABLE CLAMP - 5/16"	5
5	403432	HARNESS - 230 VAC	1
6	111035	SCREW - #8 - 32 Hex, HD.	2
7	253205	CLAMP - 3/16"	3
8	001846	NUT - Hex, 10-24	1
9	250202	CABLE CLAMP - 1/8"	6
10	403431	HARNESS - 115 VAC	1
11	250203	CABLE CLAMP - 1/4"	6
12	250273	CABLE CLAMP - 7/16"	4
13	250206	CABLE CLAMP - 1/2"	2

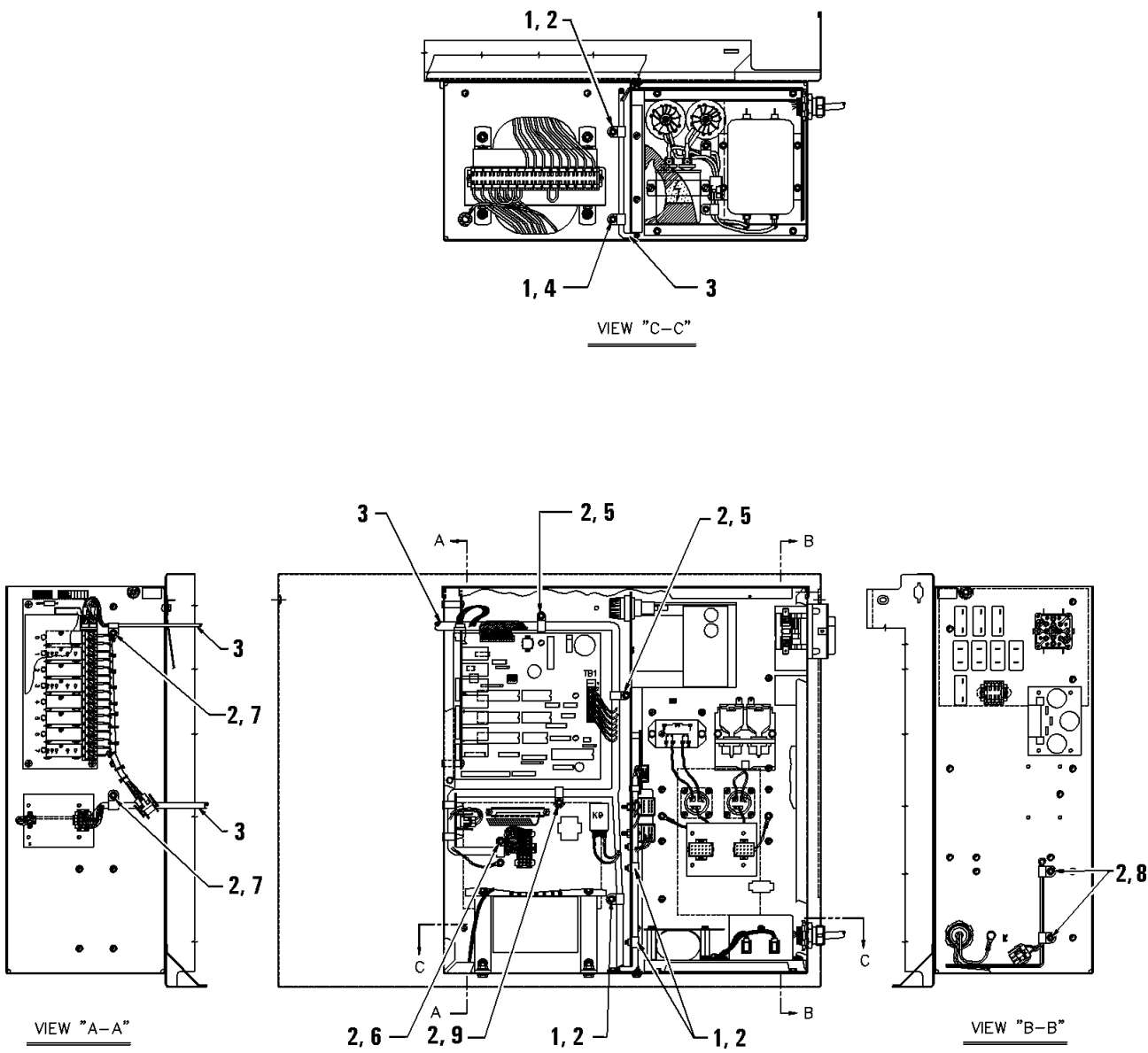


FIGURE 59
Control Box - Part IV

Parts Catalog

Index No.	Part No.	Figure 59 Description	Units Per Assy.
1	250203	CABLE CLAMP - 1/4"	7
2	111033	SCREW - Hex Washer HD	13
3	403430	HARNESS - Low Voltage	1
4	111035	SCREW - #8- 32 Hex, HD	2
5	250273	CABLE CLAMP - 7/16"	3
6	250098	CABLE CLAMP - 3/8"	2
7	250202	CABLE CLAMP - 1/8"	1
8	250205	CABLE CLAMP - 1/8"	2
9	250206	CABLE CLAMP - 1/2"	1

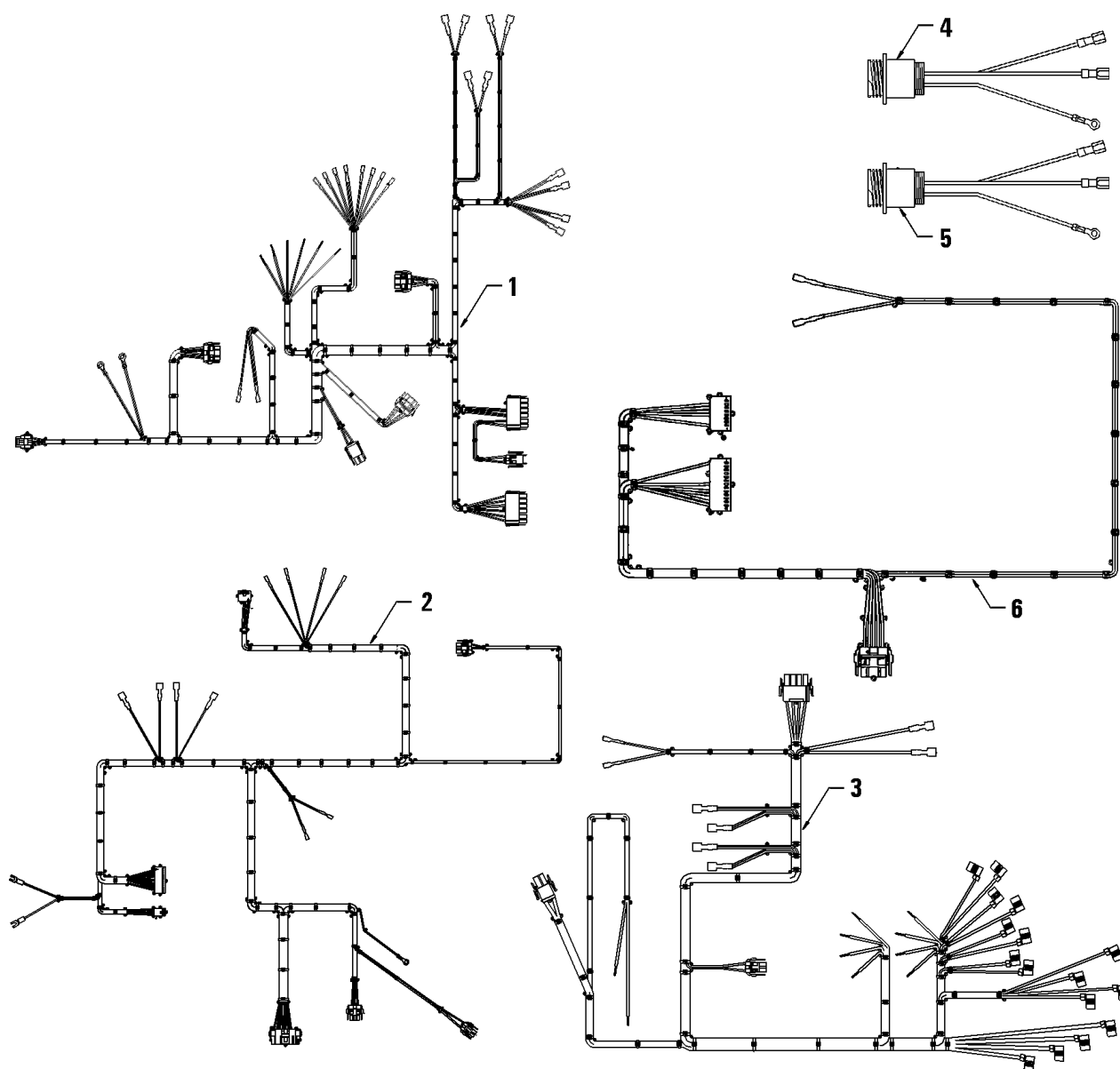


FIGURE 60
Control Box Harnesses

Parts Catalog

Index No.	Part No.	Figure 60 Description	Units Per Assy.
1	403431	HARNESS - 115 VAC	1
2	403430	HARNESS - Low Voltage	1
3	403432	HARNESS - 230 VAC	1
4	402661	RECEPTACLE ASSY. - Pump Motor	1
5	402662	RECEPTACLE ASSY. - Drive Motor	1
6	403438	HARNESS - P6 -P7 To P23	1

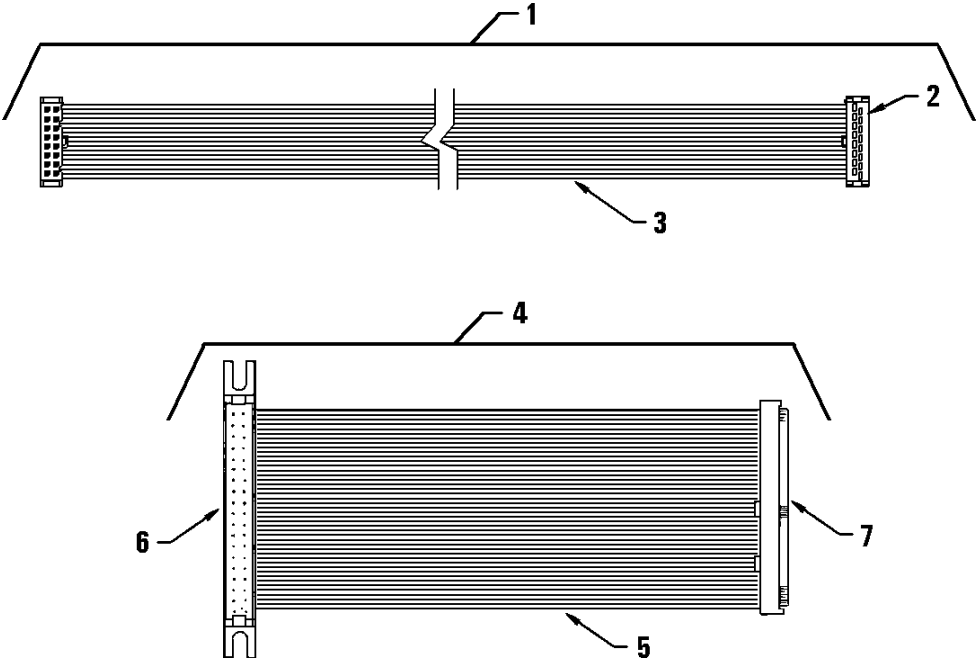


FIGURE 61
Control Box Ribbon Cables

Parts Catalog

Index No.	Part No.	Figure 61 Description	Units Per Assy.
1	402665	CABLE ASSY. - Ribbon cable	1
2	253987	CONNECTOR - Ribbon cable, 16 CKT	2
3	253531	RIBBON CABLE	1
4	401209	RIBBON CABLE ASSY. - Pump Motor	1
5	253529	RIBBON CABLE	1
6	253852	CONNECTOR - Male, 40 CKT, 20 Dual	1
7	253027	CONNECTOR	1

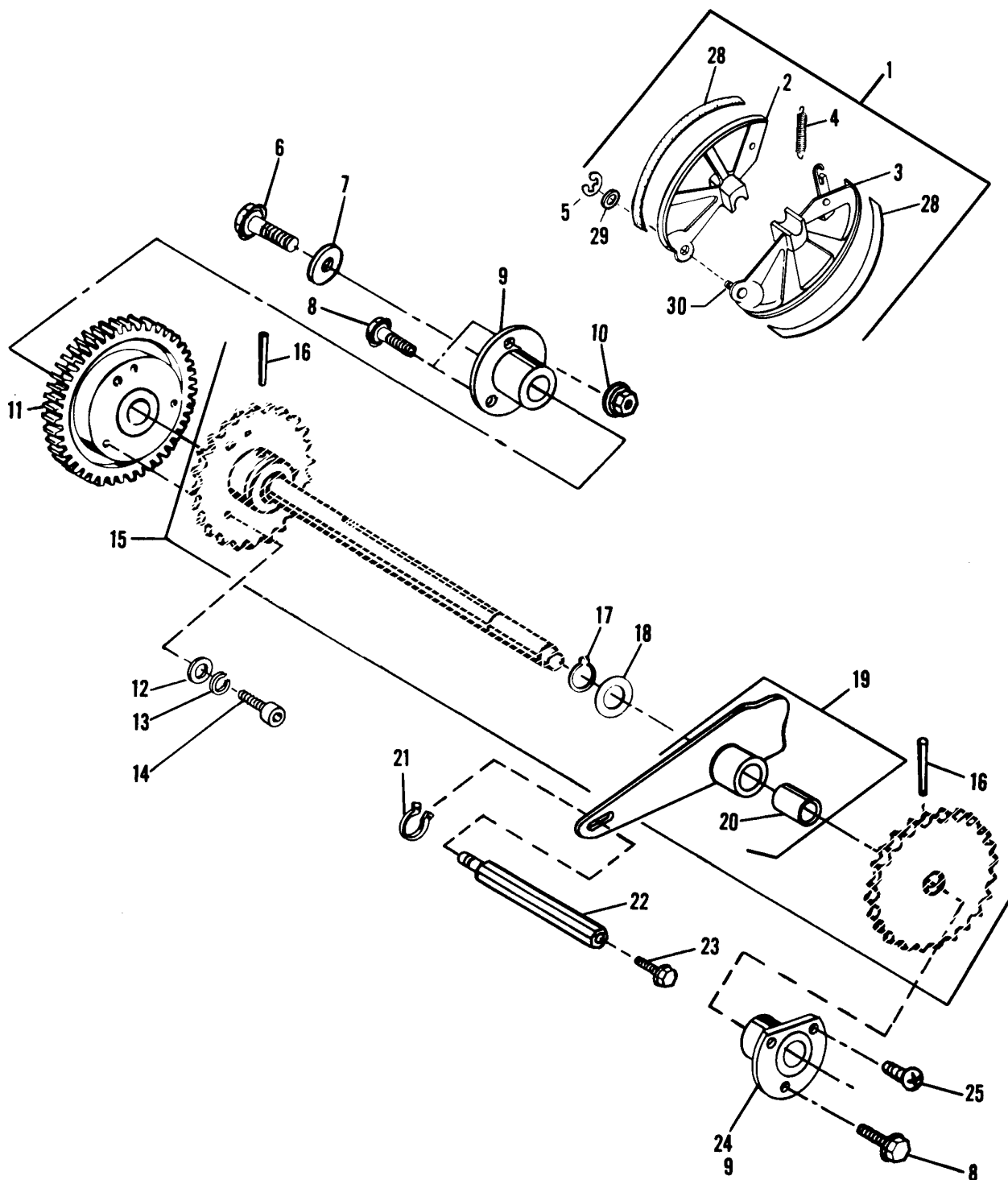


FIGURE 62
Sprocket Shaft and Paper Guides

Parts Catalog

Index No.	Part No.	Figure 62 Description	Units Per Assy.
1	***016290	GUIDE ASSEMBLY - Paper	2
2	016291	GUIDE ASSEMBLY - Upper	1
3	016293	GUIDE ASSEMBLY - Lower	1
4	041776	SPRING - Tension, .343 O.D. x 1.375 O.A.L. x .047	1
5	001060	RING - Retaining	1
6	111087	SCREW - 5/16-24 x 1/2	1
7	014784	WASHER - Plain, .328 I.D. x .812 O.D. x .092	1
8	111055	SCREW - 10-32 x 9/16	6
9	016376	BEARING	2
10	150083	NUT - 10-32	6
11	016374	GEAR - Sprocket Drive	1
12	005620	WASHER - .254 I.D. x .625 O.D. x .059	3
13	001731	WASHER - Lock, .256 I.D. x .453 O.D. x .046	3
14	014219	SCREW - Cap, 1/4-20 x 3/4	3
15	016367	SPROCKET AND SHAFT ASSEMBLY - Drive	1
16	102611	PIN - Taper, #4 x 1.25	2
17	001784	RING - Retaining, .584 I.D. x .037	2
18	014761	WASHER - Plain, .628 I.D. x 1.000 O.D. x .029	2
19	016368	CAM ASSEMBLY - Gripper	1
20	014608	BUSHING - .629 I.D. x .754 O.D. x .875 O.A.L.	1
21	001046	RING - Retaining, .283 I.D. x .027	1
22	196386	STUD - Cam Support	1
23	111054	SCREW - 10-32 x 1/2	1
24	016542	BEARING - O.S. (Machines w/Doubles Detector Switch)	1
25	014327	SCREW - Flat Head, 10-32 x 1/2 (Mach. w/Doubles Det. Switch)	1
28	016429	TAPE - Non Tracking	2
29	014741	WASHER - Special, Spring	1
30	081664	PIN - Guide Pivot	1

*** Not Available As An Assembly

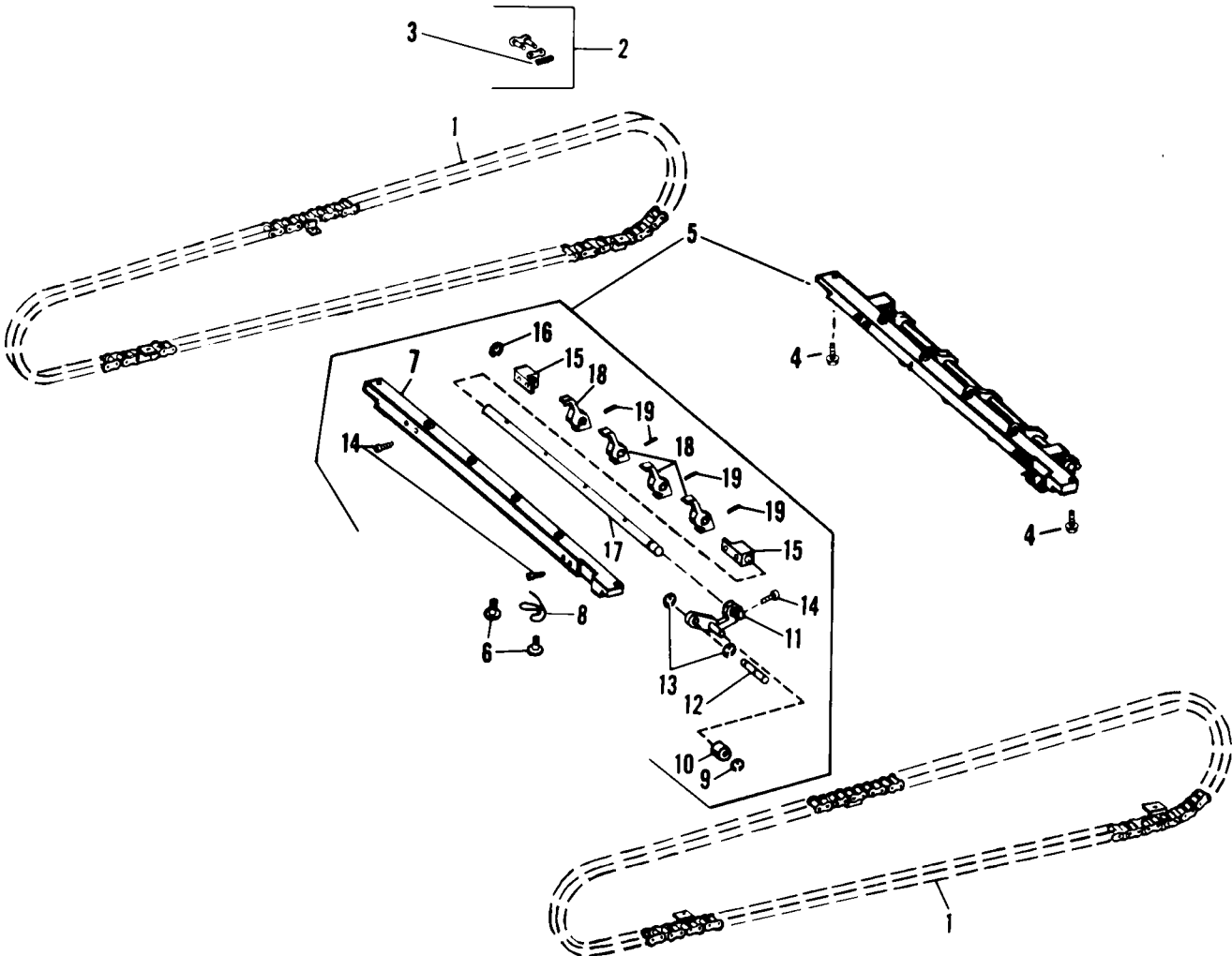


FIGURE 63
Gripper Bar and Chain Assemblies

Parts Catalog

Index No.	Part No.	Figure 63 Description	Units Per Assy.
1	016381	CHAIN ASSEMBLY - Gripper Bar #41	2
2	196473	LINK ASSEMBLY - Chain Coupler #41	1
4	100976	SCREW - Hex Head, NYLOK 10-32 x 5/16	6
5	016690	GRIPPER BAR ASSEMBLY	3
6	041750	SCREW - Shoulder, 8-32	2
7	016691	BAR - Gripper	1
8	007982	SPRING - Gripper Tension	2
9	001049	RING - Retaining, .227 I.D. x .027	1
10	196412	TRUCK - Cam Follower	1
11	016501	CAM FOLLOWER - Gripper	1
12	080564	STUD - Cam Follower	1
13	014504	RING - Retaining, .146 I.D. x .027	2
14	014164	SCREW - 8-32 x 7/16	5
15	081764	BEARING - Gripper Shaft	2
16	001046	RING - Retaining, .283 I.D. x .027	1
17	007727	SHAFT ASSEMBLY - Gripper	1
18	081762	GRIPPER - Paper	4
19	014576	PIN - Driv-Lok, .093 O.D. x 9/16	4

Parts Catalog

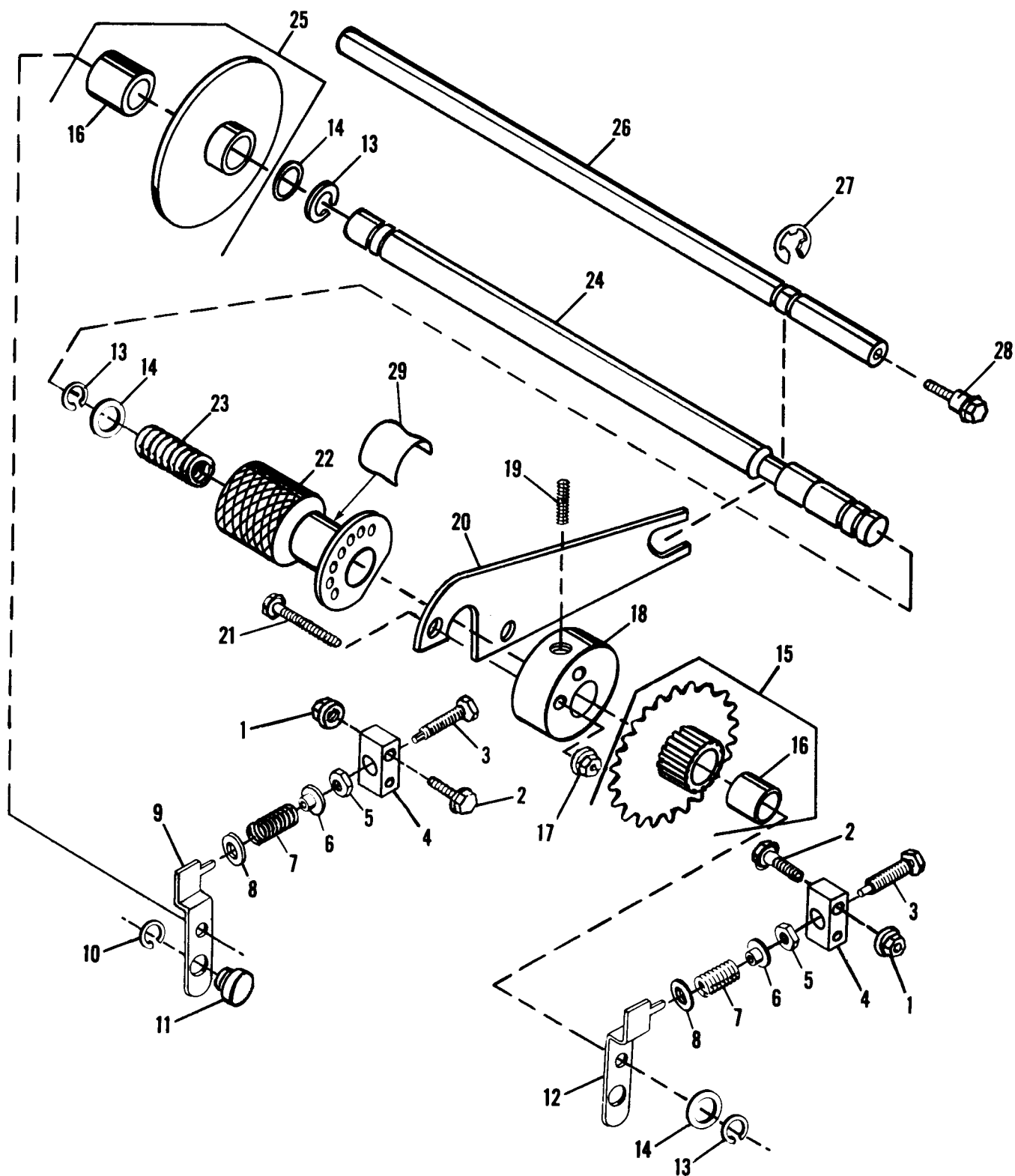


FIGURE 64
Idler Shaft Assembly

Parts Catalog

Index No.	Part No.	Figure 64 Description	Units Per Assy.
1	150083	NUT - 10-32	4
2	001260	SCREW	4
3	081528	SCREW - Tension Adjusting, 5/16-18	2
4	081527	BLOCK - Idler Tension	2
5	001840	NUT - 5/16-18	2
6	081623	RETAINER - Spring	2
7	081836	SPRING - Compression, .750 O.D. x 1.500 O.A.L. x .156	2
8	190157	SPACER - Idler Tension	2
9	016397	LEVER - Tension, N.O.S.	1
10	001076	RING - Retaining, .815 I.D. x .044	2
11	196410	PIVOT - Stud	2
12	016398	LEVER - Tension, O.S.	1
13	001784	RING - Retaining, .559 I.D. x .037	7
14	014761	WASHER - Plain, .628 I.D. x 1.000 O.D. x .029	7
15	016393	SPROCKET ASSEMBLY	1
16	001420	BUSHING - .629 I.D. x .754 O.D. x 1.000 O.A.L.	1
17	150080	NUT - 6-32	2
18	016507	HUB ASSEMBLY - W/Pin	1
19	014247	SCREW - Set, 10-32 x 1/4	1
20	016502	ARM - Roller Guide	1
21	101947	SCREW - Flat Head, 6-32 x 1-1/8	2
22	016504	CAM ASSEMBLY - Release	1
23	190220	SPRING - Compression	1
24	016396	SHAFT - Idler	1
25	016391	ROLLER ASSEMBLY	1
26	016524	TIE BAR	1
27	001094	RING - Retaining, .394 I.D. x .044	2
28	081553	SCREW - Dowel, 1/4-28	2
29	016363	DECAL	1

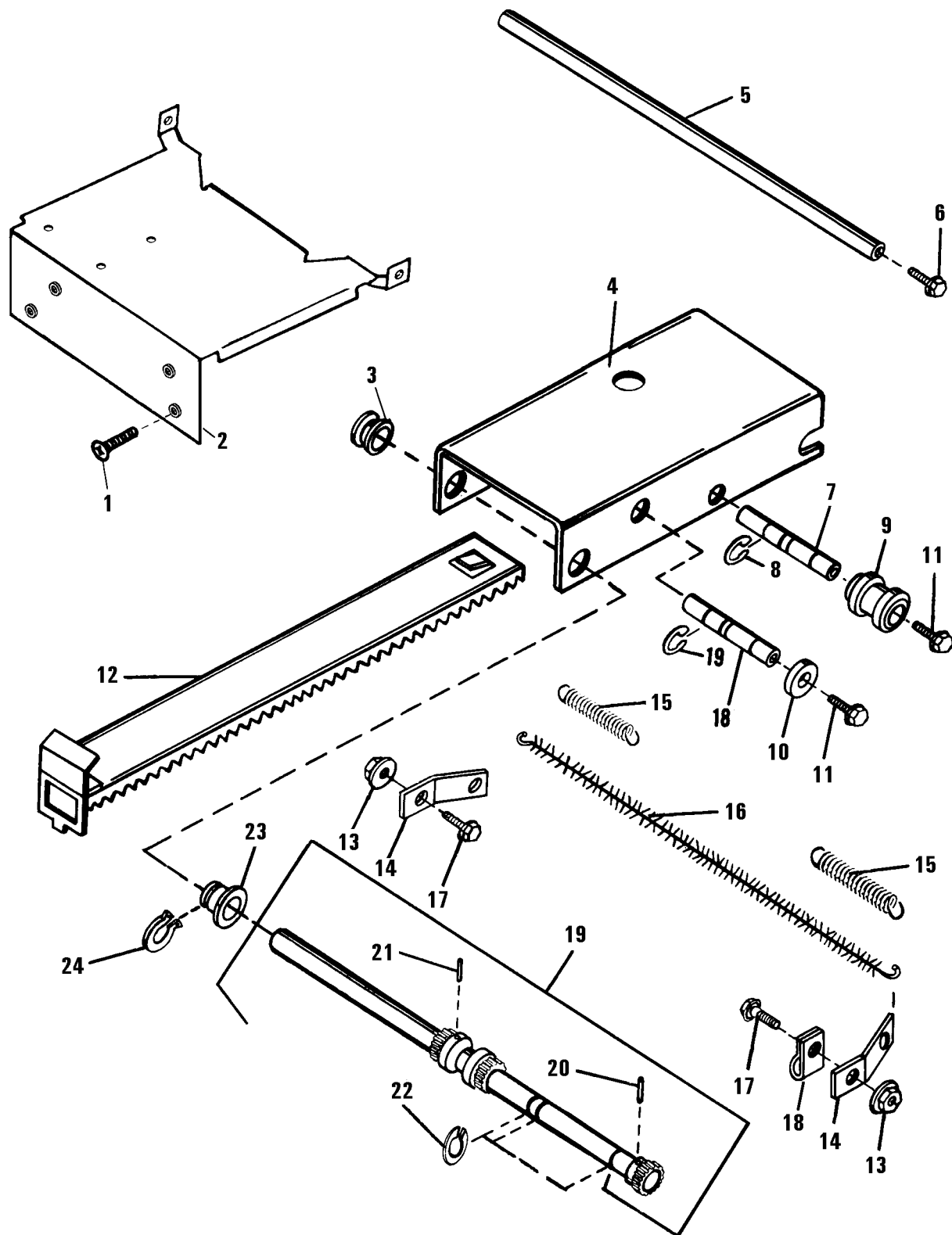


FIGURE 65
Back Jogger Mechanism - Part I

Parts Catalog

Index No.	Part No.	Figure 65 Description	Units Per Assy.
1	101494	SCREW - 1/4-20 x 5/8	2
2	402639	COVER - Shield Base	1
3	100731	BUSHING - Flanged Nylon, .501 I.D. x .562 O.D. x .078	2
4	016299	HOUSING - Back Jogger	1
5	007575	TIE BAR	1
6	193601	SCREW - Shoulder, 5/16-24	2
7	016431	SHAFT	2
8	001776	RING - Retaining, .273 I.D. x .027	4
9	016430	ROLLER - Rear	1
10	196399	ROLLER - Rack, Upper	1
11	111052	SCREW - 10-32 x 3/8	4
12	016421	RACK ASSEMBLY - Jogger	1
13	014808	NUT - 10-32	2
14	081107	CLIP - Spring	2
15	050621	SPRING - Tension, .218 O.D. x 1.218 O.A.L.	2
16	***	TINSEL	A/R
17	111054	SCREW - 10 32 x 1/2	1
18	100960	CLAMP - 1/4	1
19	016424	SHAFT ASSEMBLY - Jogger	1
20	000009	PIN - Taper, .110 O.D. x .750 O.A.L.	1
21	100521	PIN - Taper, .156 O.D. x 1.375 O.A.L.	1
22	100969	RING - Retaining, .447 I.D. x .037	3
23	196397	BUSHING - Special Flange	2
24	101938	RING - Retaining, Bowed	2
25	001541	SCREW - 6-32 x 1/4 (Not Illustrated)	2
26	111056	SCREW - 10-32 x 5/8 (Not Illustrated)	1

*** Order As Supply Item #670 (2 rolls = 12 yds. or 10.9M each)

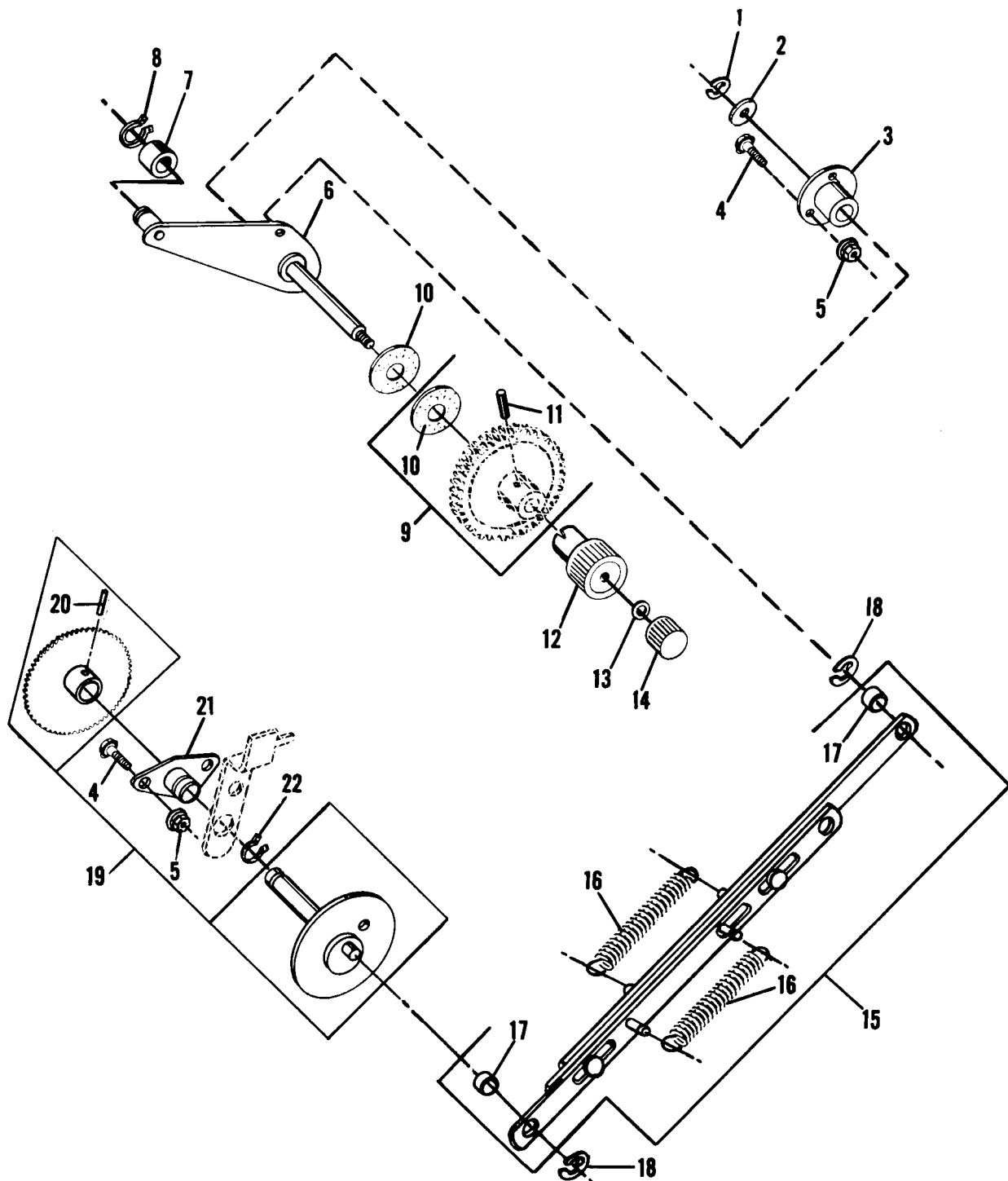


FIGURE 66
Back Jogger Mechanism - Part II

Parts Catalog

Index No.	Part No.	Figure 66 Description	Units Per Assy.
1	014510	RING - Retaining, .483 I.D. x .044	1
2	081789	WASHER - Plain, .630 I.D. x 1.000 O.D. x .064	1
3	016376	BEARING - Sprocket Shaft	1
4	111054	SCREW - 10-32 x 1/2	5
5	150083	NUT - 10-32	5
6	016486	LEVER - ASSEMBLY	1
7	054350	ROLLER	1
8	001049	RING - Retaining, .277 I.D. x .027	1
9	016489	GEAR ASSEMBLY	1
10	081597	PAD - Friction	1
11	149319	PIN - Spiral, 3/16 O.D. x 1/2 O.A.L.	1
12	027582	KNOB ASSEMBLY - Back Jogger Adjusting	1
13	016574	WASHER - .315 I.D. x .687 O.D. x .047	1
14	016933	KNOB - Back Jogger	1
15	016494	LINK ASSEMBLY - Drive	1
16	196405	SPRING - Tension, 15/32 O.D. x 2-7/8 O.A.L.	2
17	001472	BUSHING - .315 I.D. x .439 O.D. x .250	2
18	001095	RING - Retaining, .245 I.D. x .027	2
19	016472	CAM CRANK ASSEMBLY	1
20	001956	PIN - Taper, .157 O.D. x 1.000 O.A.L.	1
21	016441	BEARING ASSEMBLY	1
22	001076	RING - Retaining, .815 I.D. x .044	1

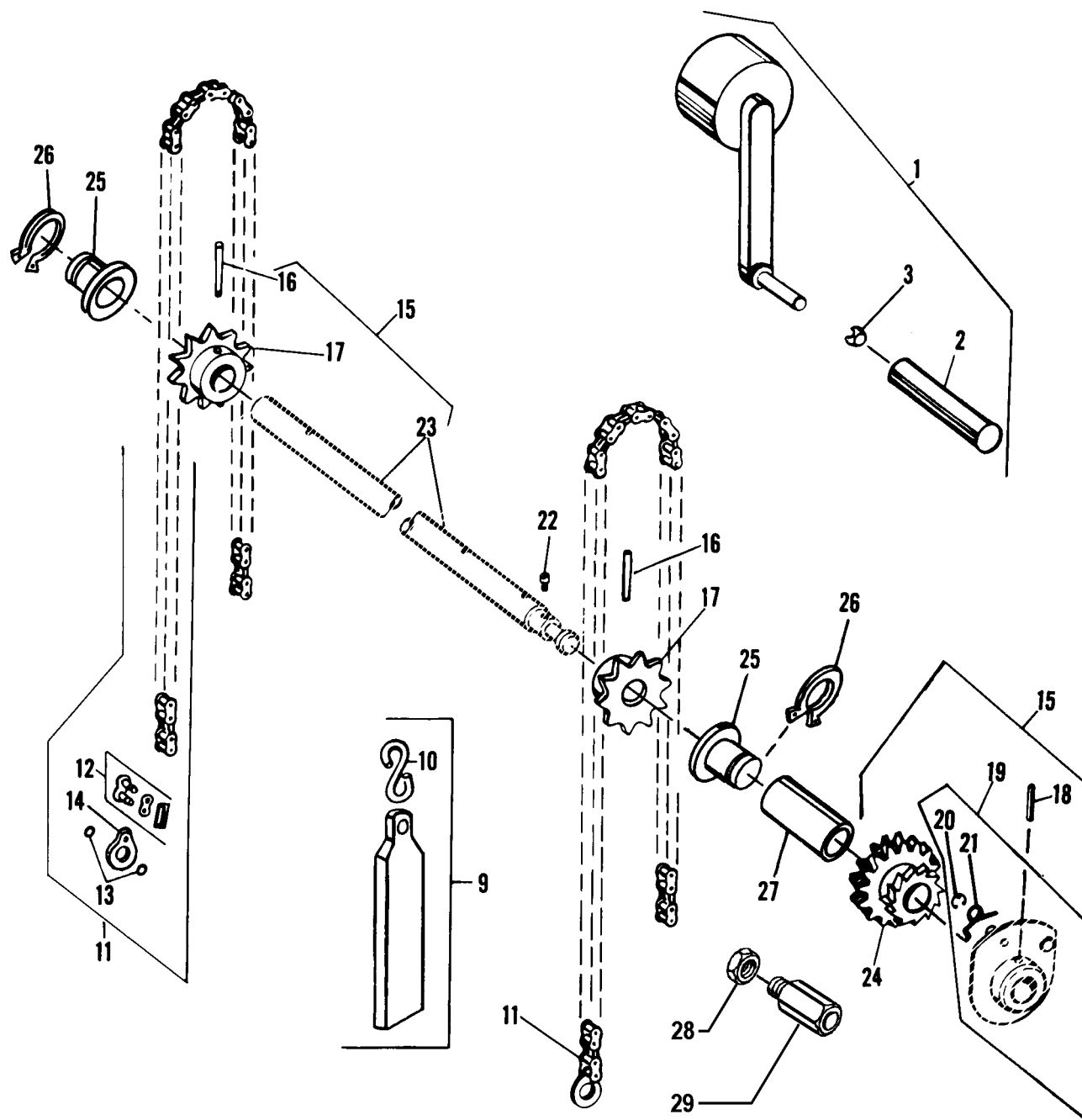


FIGURE 67
Dolly Raise Shaft Assembly

Parts Catalog

Index No.	Part No.	Figure 67 Description	Units Per Assy.
1	017714	CRANK ASSEMBLY - Table Raise	1
2	017715	HANDLE - Crank Assembly	1
3	003042	SPRING LOCK - Crank Handle	1
9	016399	WEIGHT ASSEMBLY	2
10	194835	HOOK - Chain Weight	2
11	072035	CHAIN ASSEMBLY	2
12	071576	LINK - Chain Coupler	1
13	001054	WASHER	2
14	072036	TABLE CONNECTOR	1
15	016409	SHAFT ASSEMBLY - Table Raise Crank	1
16	000014	PIN - Taper, .146 O.D. x 1.127 O.A.L.	2
17	*016411	SPROCKET - Chain Drive	2
18	001983	PIN - Roll, .167 O.D. x 1.015 O.A.L.	1
19	*016410	MOUNT ASSEMBLY - Gear Pawl	1
20	014504	RING - Retaining, .095 I.D. x .019	1
21	081720	SPRING - Pawl Pressure	1
22	101281	PIN - Drive Lock, .250 O.D. x .750 O.A.L.	1
23	*016414	SHAFT - Table Raise Crank	1
24	016412	GEAR ASSEMBLY - Crank Shaft	1
25	196397	BUSHING - Special Flange	2
26	101938	RING - Retaining, Bowed	2
27	196396	SPACER - .521 I.D. x .687 O.D. x 1.252 O.A.L.	1
▲28	197038	NUT - 11/16-24	1
▲29	400644	HUB ASSEMBLY	1
30	400579	CHAIN GUARD - Guide N.O.S. (Not illustrated)	1
31	400578	CHAIN GUARD - Guide O.S. (Not illustrated)	1
32	101165	SCREW (Not illustrated)	4

* Not Procurable Separately

▲ If spacer 196396 is required, both 197038 and 400644 are used as replacements

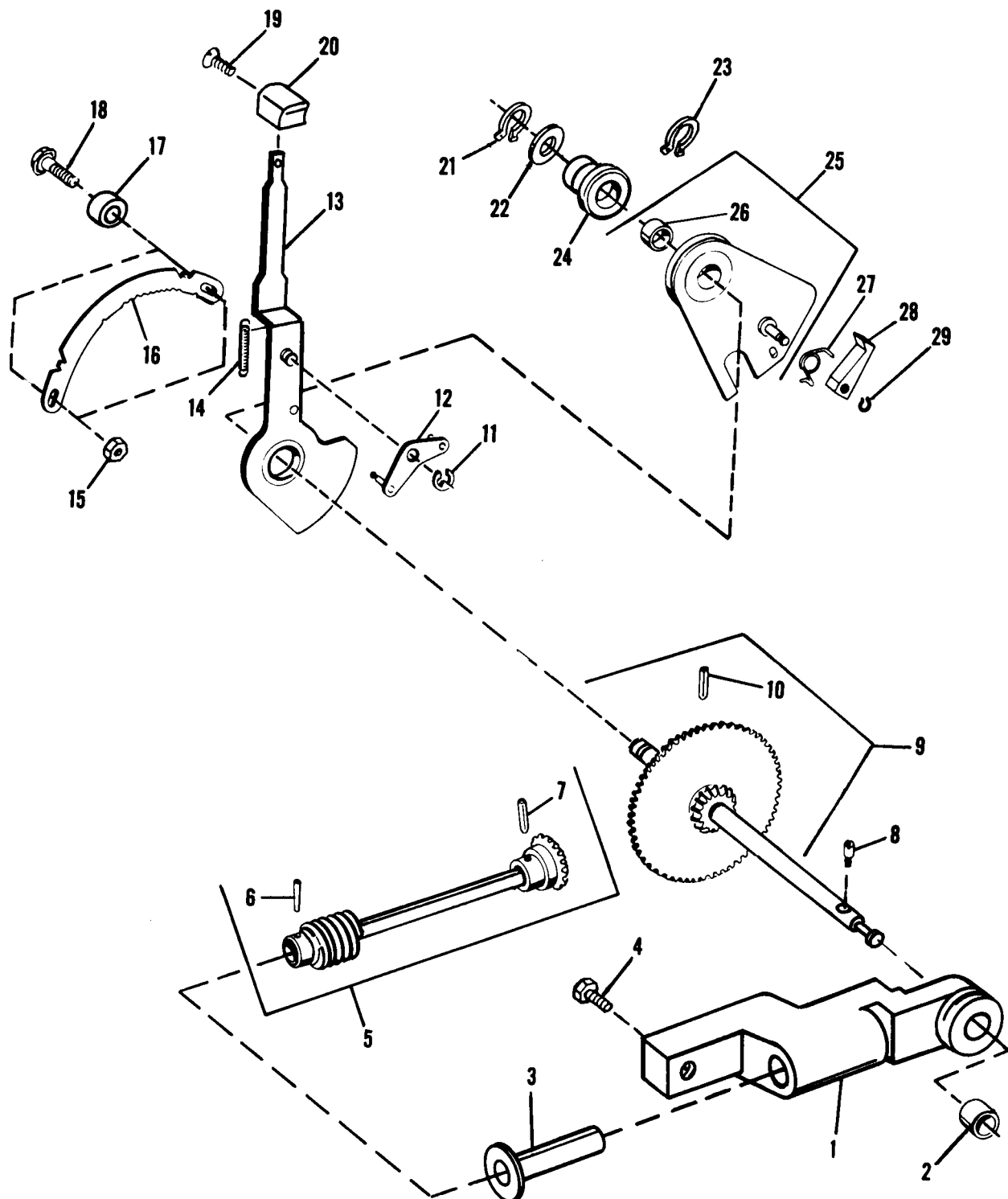


FIGURE 68
Dolly Raise Control

Parts Catalog

Index No.	Part No.	Figure 68 Description	Units Per Assy.
1	016416	SUPPORT - Worm Gear	1
2	001432	BEARING - .504 I.D. x .629 O.D. x .500	1
3	196398	BEARING - Flanged	1
4	081553	SCREW - Dowel, 1/4-28	2
5	016418	SHAFT ASSEMBLY - Worm Gear	1
6	001920	PIN - Taper, .149 O.D. x .750	1
7	001981	PIN - Roll, .199 O.D. x .827	1
8	081609	PIN - Handle Lock	1
9	016481	SHAFT ASSEMBLY - Table Control Ratchet	1
10	001978	PIN - Roll, .135 O.D. x .765	1
11	001095	RING - Retaining, .245 I.D. x .027	1
12	081575	LEVER - Locking	1
13	016521	LEVER - Table Control	1
14	021369	SPRING - Tension, .250 O.D. x 1.062 O.A.L. x .033	1
15	014248	NUT - Lock, 10-32	2
16	081604	RATCHET - Control Lever Holding	1
17	196403	SPACER	2
18	111058	SCREW - 10-32 x 7/8	2
19	001552	SCREW - 8-32 x 3/8	1
20	016921	KNOB - Brown	1
21	001047	RING - Retaining, .340 I.D. x .027	1
22	001755	WASHER - .385 I.D. x .625 O.D. x .047	1
23	014461	RING - Retaining Bowed, .526 I.D. x .037	1
24	196402	BUSHING - Flanged	1
25	016477	MOUNT - Ratchet Pawl	1
26	014639	BEARING - .504 I.D. x .629 O.D. x .307	1
27	081833	SPRING - Pawl Tension	1
28	081567	PAWL - Ratchet Holding	1
29	001049	RING - Retaining, .227 I.D. x .027	1

Parts Catalog

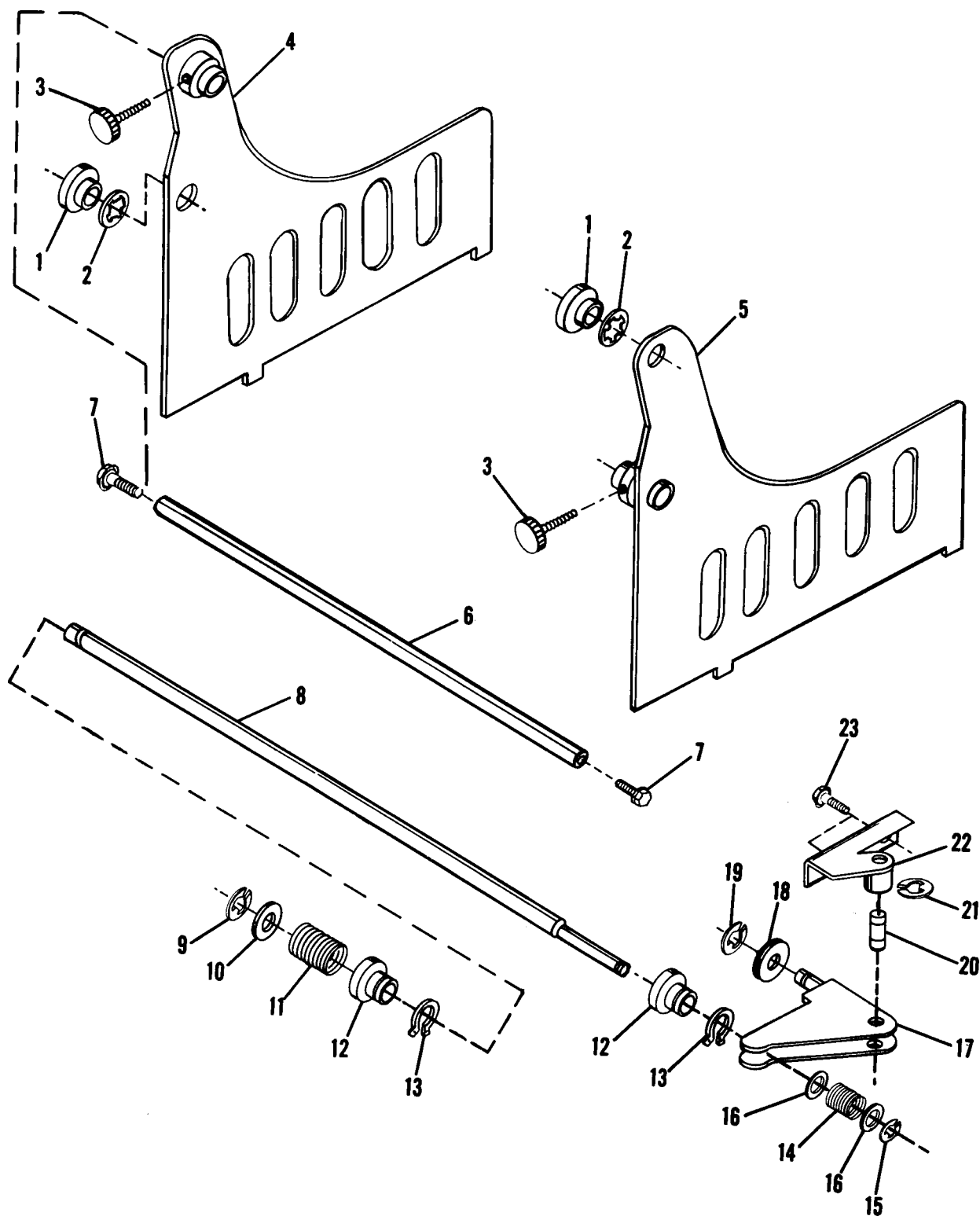


FIGURE 69
Paper Guides Chain Delivery

Parts Catalog

Index No.	Part No.	Figure 69 Description	Units Per Assy.
1	195401	BUSHING - Flanged	2
2	101023	RING - Self Locking, Push-On .627 I.D..	2
3	016450	KNOB	1/4-282
4	016462	JOGGER ASSEMBLY - N.O.S.	1
5	016461	JOGGER ASSEMBLY - O.S.	1
6	016466	TIE BAR	1
7	081553	SCREW - Dowel, 1/4-28	2
8	016452	SHAFT	1
9	001094	RING - Retaining, .394 I.D. x .044	1
10	014712	WASHER - Plain, .515 I.D. x .750 O.D. x .029	1
11	196443	SPRING - Compression, 33/64 I.D. x 2.000 O.A.L.	1
12	196397	BUSHING - Flanged	2
13	101938	RING - Retaining, Bowed	2
14	196444	SPRING - Compression, .382 I.D. x 1-5/32 O.A.L.	1
15	001080	RING - Retaining, .302 I.D. x .037	1
16	001771	WASHER - Plain, .385 I.D. x .875 O.D. x .059	2
17	016471	LEVER ASSEMBLY	1
18	016470	ROLLER ASSEMBLY	1
19	001095	RING - Retaining, .245 I.D. x .027	1
20	196453	SHAFT	1
21	001060	RING - Retaining, .208 I.D. x .027	2
22	016458	SUPPORT ASSEMBLY - Pivot	1
23	111052	SCREW - 10-32 x 3/8	2

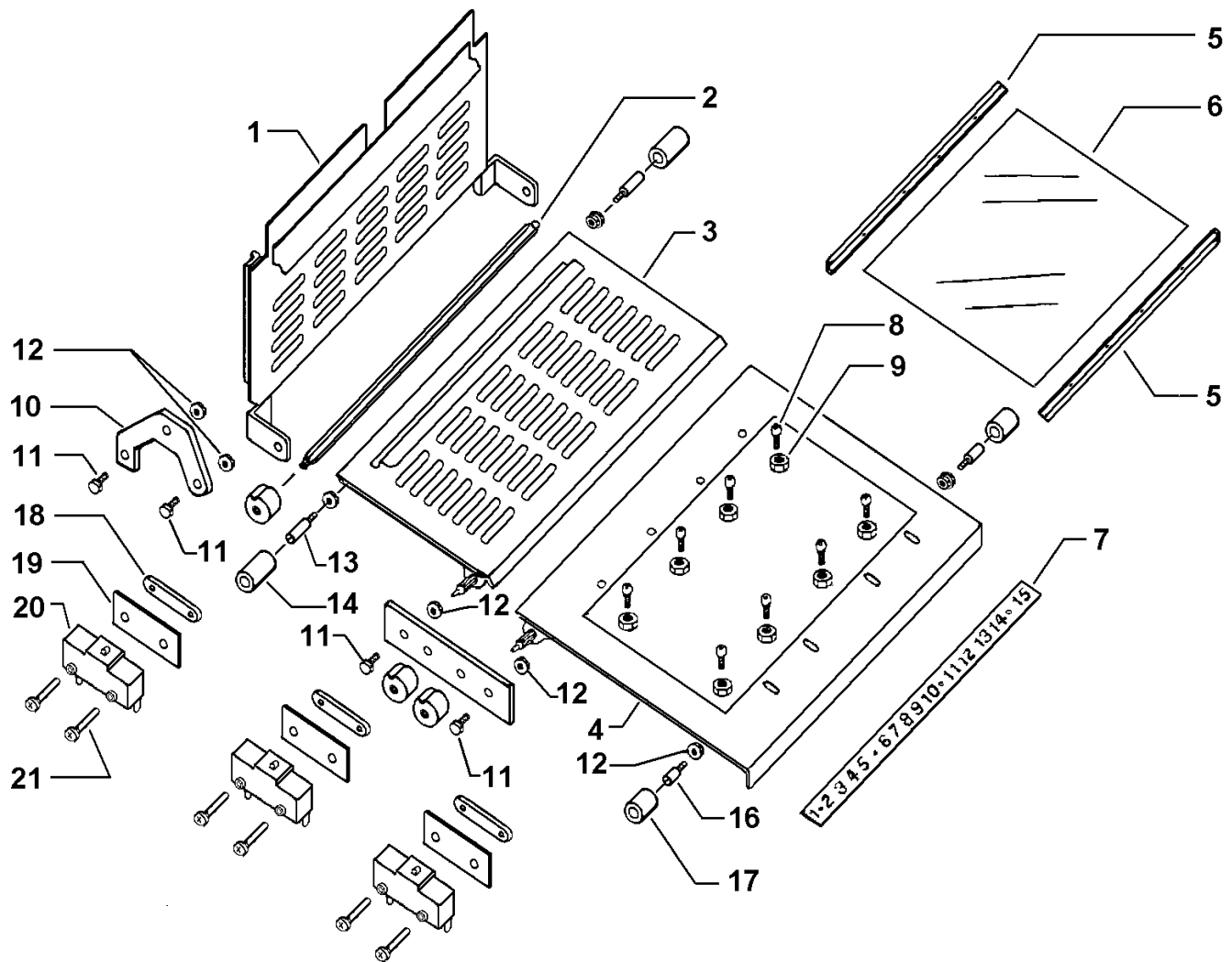


FIGURE 70
Safety Guards and Switches - Chain Delivery

Parts Catalog

Index No.	Part No.	Figure 70 Description	Units Per Assy.
1	402771	GUARD - CD Vertical	1
2	402768	SHAFT - CD CAM - GUARD	1
3	402772	GUARD - CD Front	1
4	402774	GUARD - CD Rear	1
5	402776	CLAMP - Window	2
6	402777	WINDOW	1
7	022854	SCALE	1
8	101689	SCREW - Window Clamp	8
9	100716	NUT - Window Clamp	8
10	402779	RETAINER - Guard Vertical	1
11	111054	SCREW - Retainer	4
12	150083	NUT	8
13	197458	STUD	2
14	402761	BUMPER	2
15	402780	RETAINER - C.D. Dual	1
16	074717	STUD	2
17	402755	BUMPER	2
18	190731	BRACKET	3
19	254475	INSULATOR	3
20	253211	SWITCH - Safety Guard	3
21	100961	SCREW - 6-32 x 7/8"	6

Parts Catalog

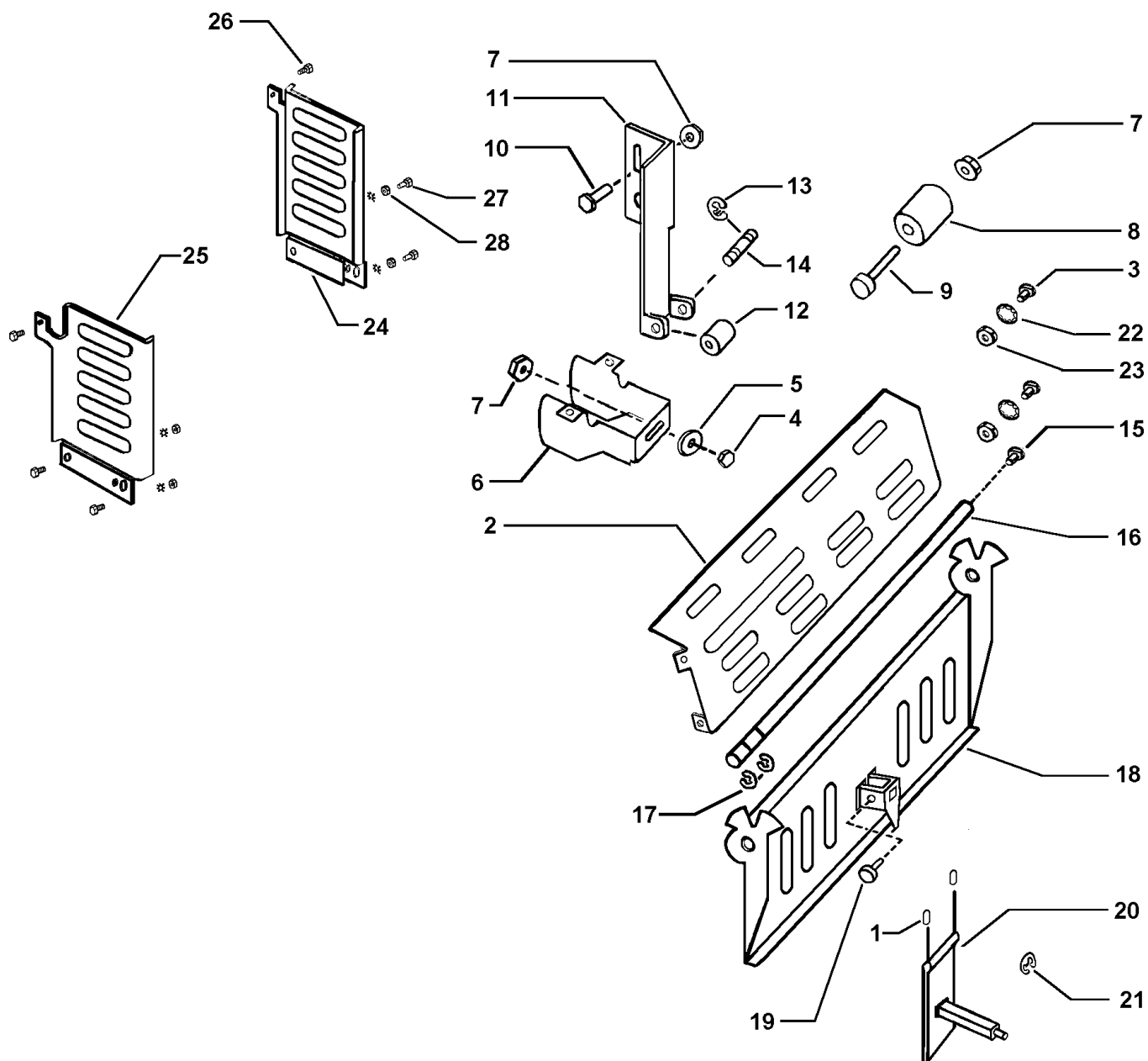


FIGURE 71
Safety Screens and Back Stop - Chain Delivery

Parts Catalog

Index No.	Part No.	Figure 71 Description	Units Per Assy.
1	101944	BUMPER - Vinyl	4
2	016528	GUARD - Rear	1
3	111071	SCREW - Threaded, 10-32	4
4	111055	SCREW - 10-32 x 9/16	1
5	016572	WASHER - Flat, 1/4 I.D. x 7/8 O.D. x .059	1
6	016469	DEFLECTOR	1
7	150083	NUT - 10-32	11
8	196454	SPACER - Guard Stop	6
9	111060	SCREW - 10-32 x 1-1/8	5
10	111052	SCREW - 10-32 x 3/8	4
11	016480	ARM - Spring, O.S.	1
11	016545	ARM - Spring, N.O.S. (Not Illustrated)	1
12	196449	SPACER	2
13	014514	RING - Retaining, .094 I.D. x .270 O.D. x .017	4
14	196450	SHAFT	2
15	081553	SCREW - Dowel, 1/4-28	2
16	016466	ROD - Tie	1
17	100969	RING - Retaining, .447 I.D. x .581 O.D. x .037	2
18	016365	DOOR ASSEMBLY	1
19	016450	KNOB - 1/4-28	1
20	016584	STOP ASSEMBLY - Paper	1
21	001080	RING - Retaining, .302 I.D. x .660 O.D. x .037	1
22	001715	WASHER - Lock 10	4
23	150085	NUT	4
24	402766	NOTCH GUARD - O.S.	1
25	402767	NOTCH GUARD - N.O.S.	1
26	111036	SCREW	2
27	111054	SCREW	4
28	150083	NUT	4

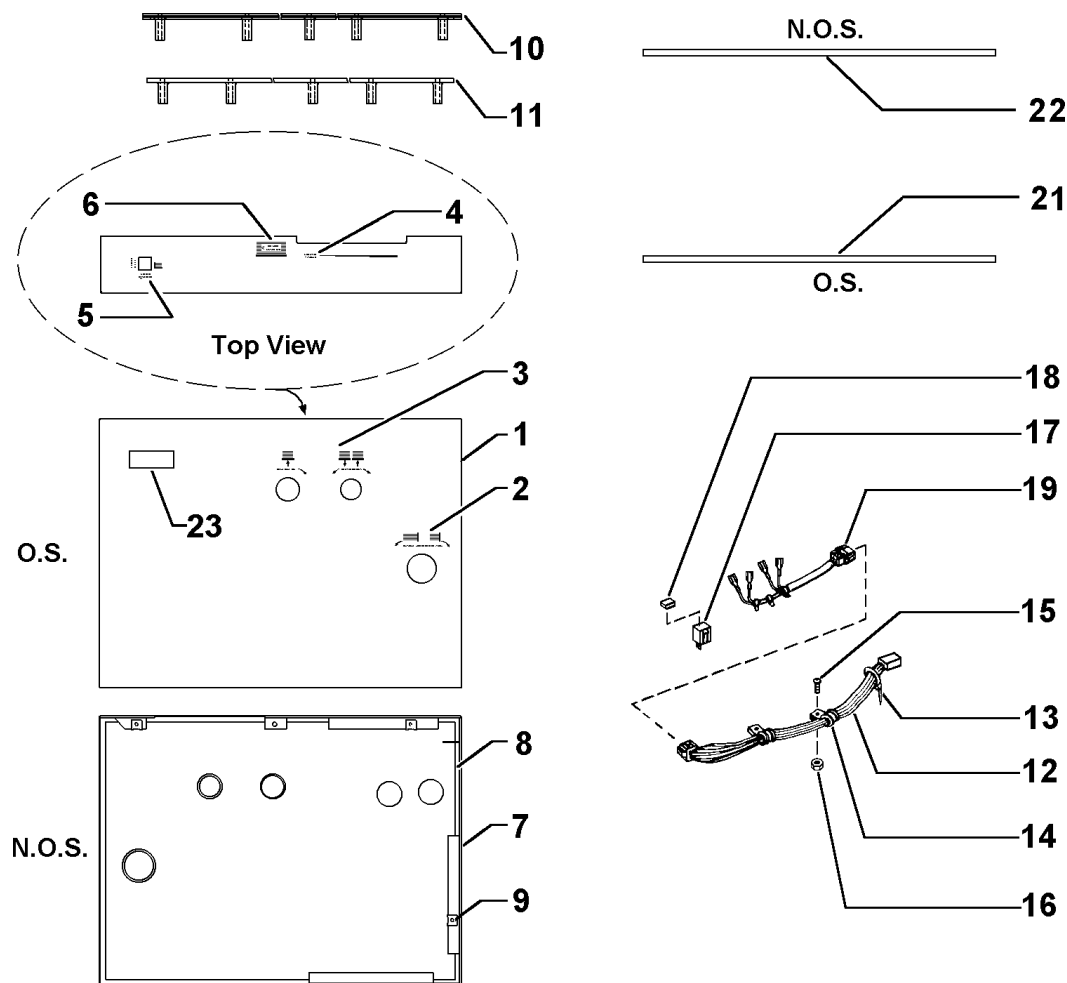


FIGURE 72
MODEL 9970 Covers and Frames - Chain Delivery

Parts Catalog

Index No.	Part No.	Figure 72 Description	Units Per Assy.
1	402982	COVER ASSEMBLY - Chain Delivery, O.S.	1
1	402982B	COVER ASSEMBLY - Chain Delivery, O.S. (Black)	1
2	172850	DECAL - Back Jog	1
3	172852	DECAL - Table Raise/Lower	1
4	016546	DECAL - Table Decent	1
5	017018	DECAL - Feed Auxiliary	1
6	402966	DECAL - Maximum Load	1
7	402981	COVER ASSEMBLY - Chain Delivery, N.O.S.	1
7	402981B	COVER ASSEMBLY - Chain Delivery, N.O.S. (Black)	1
8	402962	SOUND MATERIAL - O.S. and N.O.S.	2
9	101144	CLIP - Speed Nut	6
10	016446	TRACK - Chain (Lower)	2
11	016445	TRACK - Chain (Upper)	2
12	025658	HARNESS ASSEMBLY	1
13	250077	STRAP - Cable Tie	7
14	250205	CLAMP	4
15	111035	SCREW	4
16	150081	NUT	4
17	253002	SWITCH	1
18	253031	LENS	1
19	400887	HARNESS - Feed	1
20	101941	SCREW	16
21	016401	FRAME - O.S.	1
22	016402	FRAME - N.O.S.	1
23	831018	NAMEPLATE - A.B. Dick	1

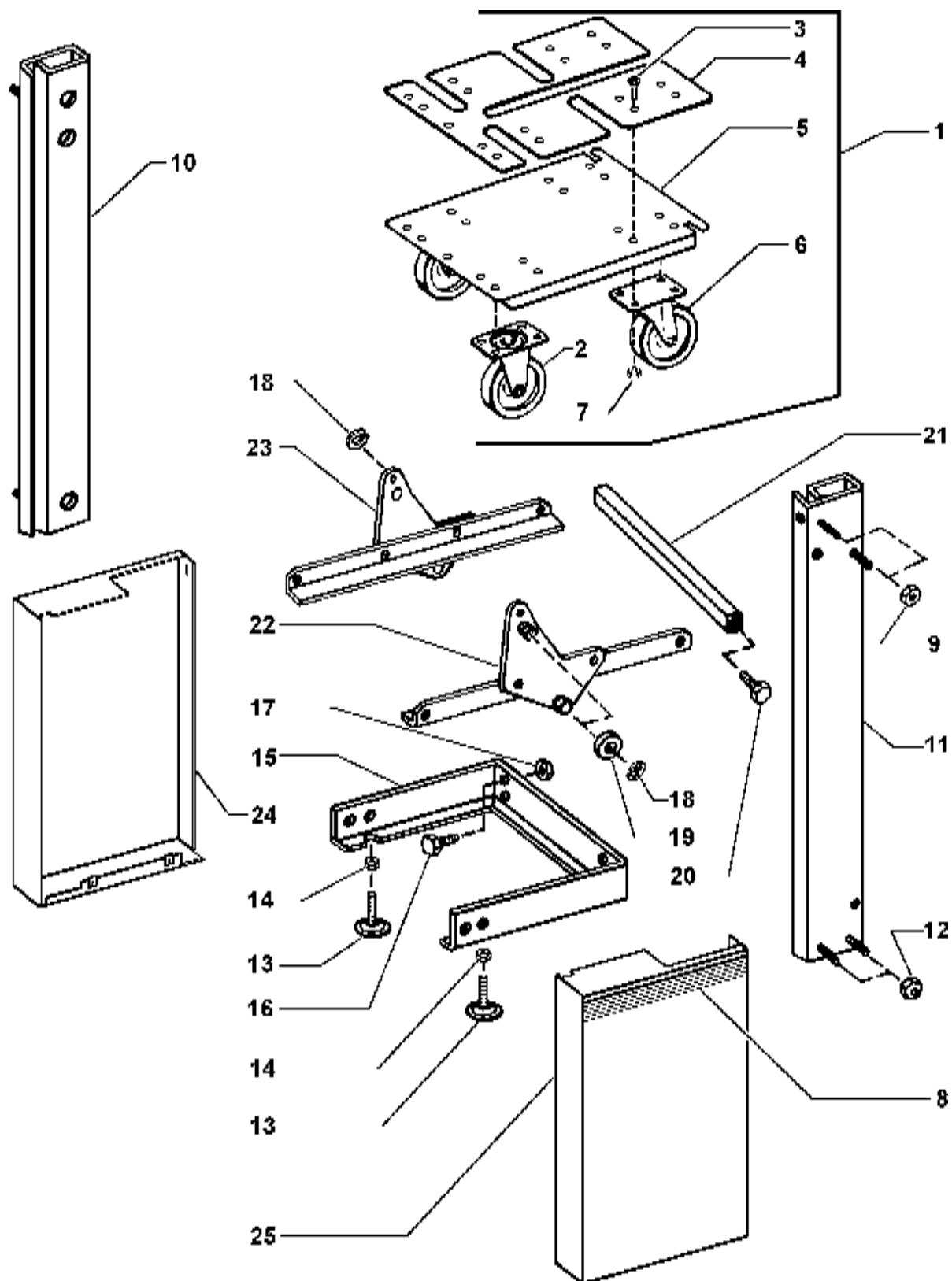


FIGURE 73
Dolly and Frame Assemblies

Parts Catalog

Index No.	Part No.	Figure 73 Description	Units Per Assy.
1	016389	DOLLY ASSEMBLY	1
2	081516	CASTER - Dolly, Swivel	2
3	197185	SCREW - Phillips, Flat Head	16
4	400900	BASE - Dolly, Top	1
5	400901	BASE - Dolly, Base	1
6	081515	CASTER - Dolly, Fixed	2
7	014809	NUT	16
8	403475	PANEL - Blank	1
8	403055	PANEL - Blank (For Black Machine)	1
9	100871	NUT - 1/4-20	4
10	016438	CARRIER ASSEMBLY - N.O.S.	1
11	016437	CARRIER ASSEMBLY - O.S.	1
12	101943	NUT - Acorn, 1/4-20	4
13	017542	GLIDER - Yoke	2
14	001845	NUT - 3/8-24	2
15	016547	YOKE - C. D.	1
16	111091	SCREW - 5/16-24 x 3/4	4
17	150087	NUT - 5/16-24	4
18	001060	RING - Retaining, .208 I.D. x .027	6
19	196390	ROLLER - Nylon	4
20	111073	SCREW - 1/4-28 x 5/8	2
21	016405	ROD - Carrier	1
22	016401	FRAME ASSEMBLY - Carrier, O.S.	1
23	016402	FRAME ASSEMBLY - Carrier, N.O.S.	1
24	402891	COVER ASSEMBLY - C.D. Lower, N.O.S.	1
24	402891B	COVER ASSEMBLY - C.D. Lower, N.O.S (Black).	1
25	402890	COVER ASSEMBLY - C.D. Lower, O.S.	1
25	402890B	COVER ASSEMBLY - C.D. Lower, O.S. (Black)	1

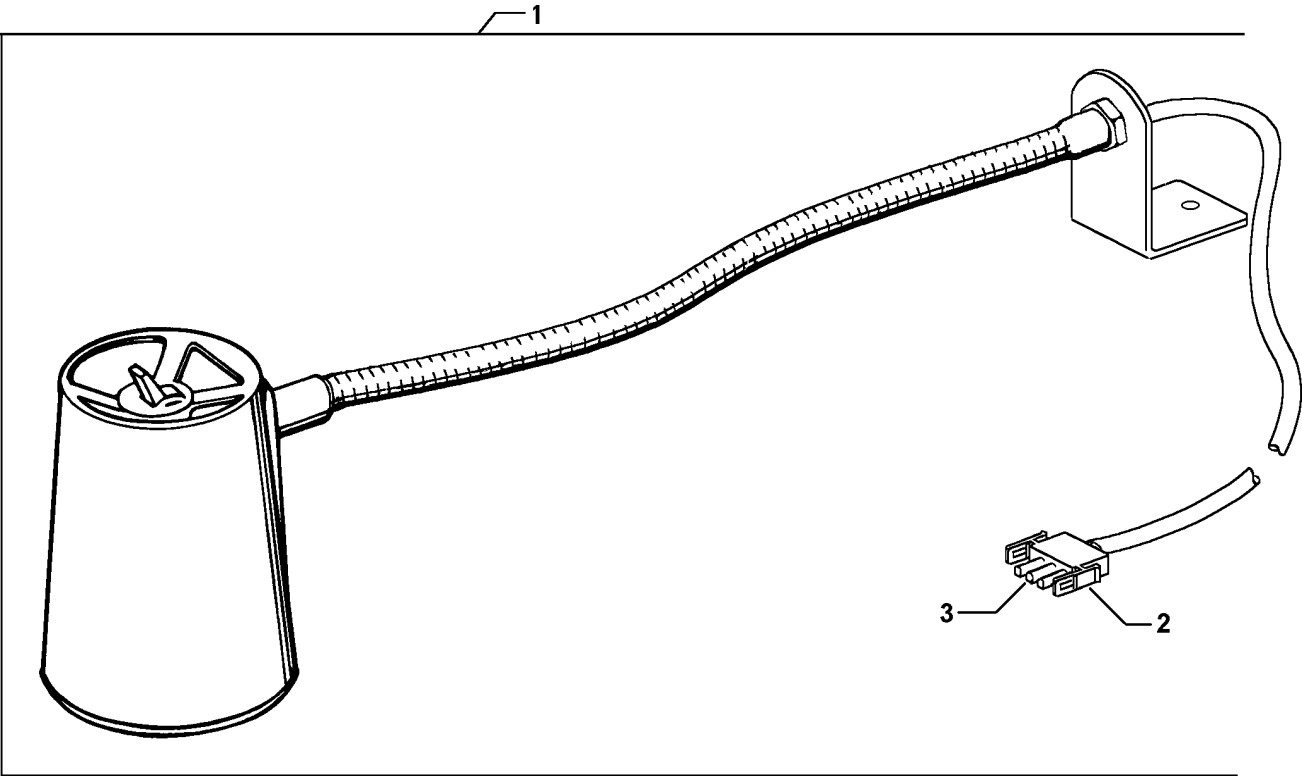


FIGURE 74
MODEL 9970 Worklight Assembly

Parts Catalog

Index No.	Part No.	Figure 74 Description	Units Per Assy.
1	402877	WORKLIGHT ASSEMBLY - Flexible, 115 V	1
2	253277	PLUG	1
3	203602	PIN	3

Index

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