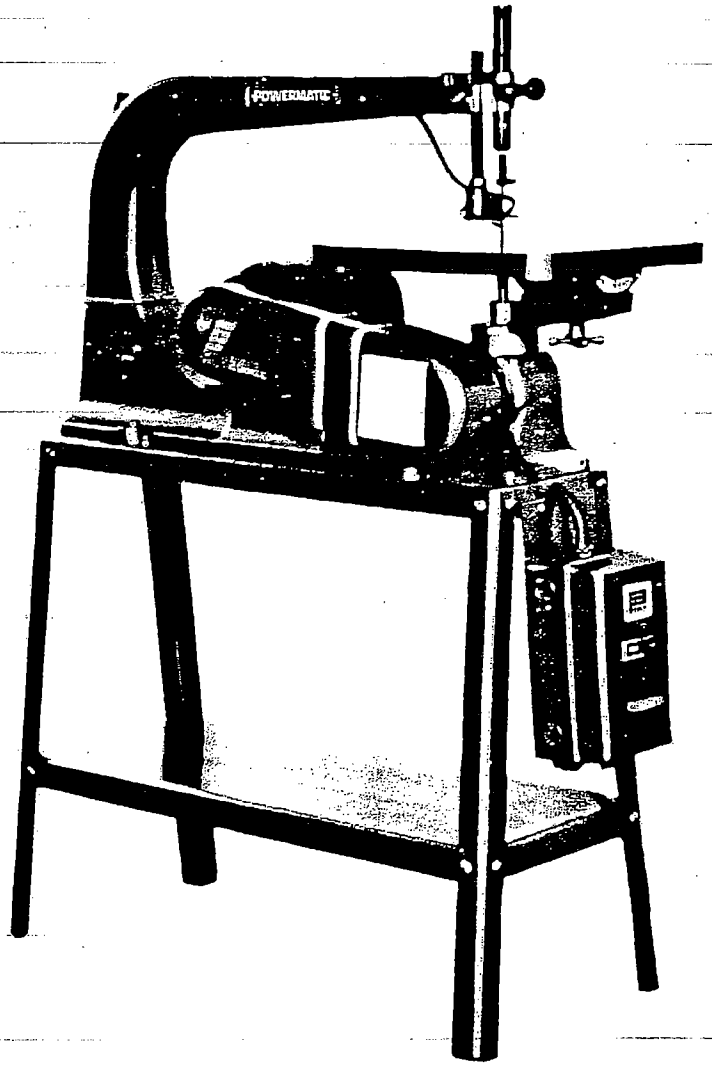
POWERMATIC®

MODEL 95

SCROLL SAW

OPERATING INSTRUCTIONS AND PARTS LIST



#6448005 Adjustable work Light

Better By Design™

POWERMATIC®

McMINNVILLE, TENNESSEE 37110 □ AC 615 473 5551

Operating and Safety Instructions

1. Be sure machine is electrically grounded.
2. Remove or fasten loose articles of clothing such as necktie, sleeves, coat, etcetera.
3. Remove finger rings and watch.
4. Use safety face shield, goggles or glasses to protect eyes.
5. Keep the floor around the machine clean and free from scraps, sawdust, oil or grease to minimize the danger of slipping.
6. Before starting the scroll saw:
   a. Clear the table area of tools, chips and all foreign matter.
   b. Check the blade for general condition, sharpness, proper set, and make sure it is the right blade for the work to be done.
   c. Check the proper depth setting for the depth of material to be cut by rotating by hand.
   d. Adjust the foot to the proper height for the work to be cut.
   e. Check to make sure the blade was installed in the proper direction to cut on the down stroke.
7. Check for proper direction of motor rotation.
8. Keep the work free of chips with the chip blower. Do not try to clear chips around the blade by hand.
9. On small pieces, use a push stick or work holding clamp to feed the part.
10. Use only Powermatic or factory authorized replacement parts and accessories, otherwise the warranty and guarantee are null and void.
11. Do not use this Powermatic scroll saw for other than its intended use. If used for other purposes, Powermatic disclaims any real or implied warranty and holds itself harmless for any injury that may result from that use.
12. Make no adjustments with the saw blade under power and disconnect from power source when servicing to avoid accidental starting.

WARNING: Do not equip or use this machine with a motor larger than 1/3 horsepower at 1800 R.P.M. The use of a larger and/or higher speed motor voids the warranty and Powermatic holds itself harmless from any injury that may result.

GENERAL SET-UP AND ALIGNMENT

1. RECEIVING
   Uncrate and check for shipping damage. Clean all coated and greased surfaces. Read instructions thoroughly. Locate all lubrication points; adjustments; methods of drive.
2. MOUNTING
   Mount machine securely to solid foundation. Concrete base mounting preferred. Locate in clean, dry and well ventilated building if possible. Motor and electrical connections should be protected when not in operation or if exposed to weather elements.
3. INSPECTION
   The above machine requires the minimum amount of attention in service. Periodic or regular inspections are recommended to insure machine is in proper adjustment, positive electrical connections; worn or loose "V" belts and bearings heating or loose.
4. BEFORE OPERATING
   Check motor nameplate data or wiring diagram of motor and switch for proper voltage connections before wiring into line. Run motor without load to check the connections and direction of rotation. Always refer to motor nameplate for rotation connections.

OPERATING INSTRUCTIONS

The Powermatic Model 95-24" Scroll Saw is constructed of cast iron and steel for the absolute maximum in rigidity. Streamlined in appearance, all moving parts are completely guarded except cutting portion of blade. Adaptable for use as a Jig Saw, Scroll or Saber Saw and Filing Machine.

POWER DRIVE: The saw is driven by a motor mounted on the frame of the machine. A ⅓ HP motor is sufficient for most jig, saber and filing operations.

INSTALLING BLADE: The saw is designed to use a 5" clamp type blade. Blade chuck (1) fig. 1 has two floating jaws. The inside jaw is used for holding saber blades and the outside jaw for regular jig saw blades. When blade is clamped with screw (2) fig. 1, it should be in alignment with the upper chuck. Blade is clamped in upper chuck (6) fig. 2 with screw (9) fig. 2. Blade tension is set by loosening lock bolt (7) fig. 2 and raising or lowering blade tensioning tube. When upper or lower blade chuck wears to the point they will not hold blades . . . . replace immediately with new chuck assemblies.

HOLD-DOWN: The spring hold-down (10) fig. 2 should be set tight enough to hold work securely against table to prevent vibration. Spring hold-down is set by loosening wing screw (11) fig. 2 and adjusting holddown to proper height. This hold-down may be tilted to left or right, corresponding with any angle of table tilt. Loosen tilt lock screw on back of hold-down for adjustment.

CHIPBLOWER: The chipblower (12) fig. 2 is designed to blow chips and dust from work area when saw is in operation. Air is furnished by a diaphram pump operated by the crank-shaft in base of machine.

TABLE ADJUSTMENTS: Table (16) fig. 1 can be tilted 45° by loosening handwheel (12) fig. 3. Pointer (14) fig. 3 accurately measures degree of tilt. Table may be turned or swiveled 45° by loosening screws (3) fig. 1.

SPEED CHANGE: Speed of saw blade may be changed on the variable speed model by turning handwheel (4) fig. 1 to the left or right. On the step pulley model, remove guard and change belt position for cone pulleys.

LUBRICATION: Lower drive unit and crank-shaft run in oil for smooth operation and long life. Drive unit holds 1½ pints of 10 or 20 weight oil. Fill drive unit through oil cap (15) fig. 3. Upper spring tension assembly should be oiled at regular intervals with a few drops of light machine oil.

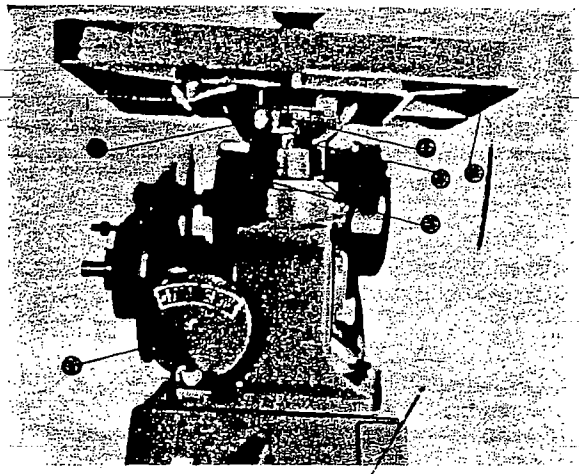


FIGURE 1

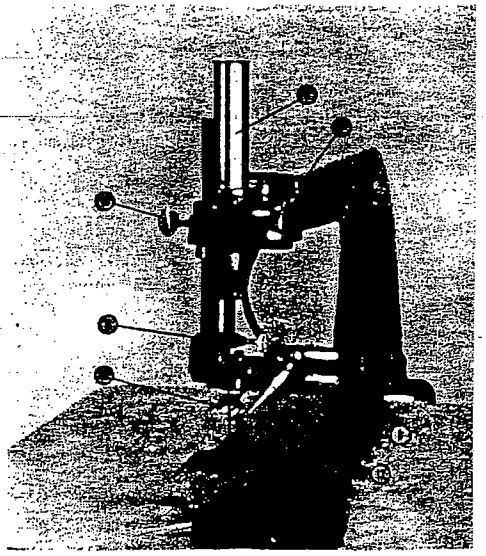


FIGURE 2

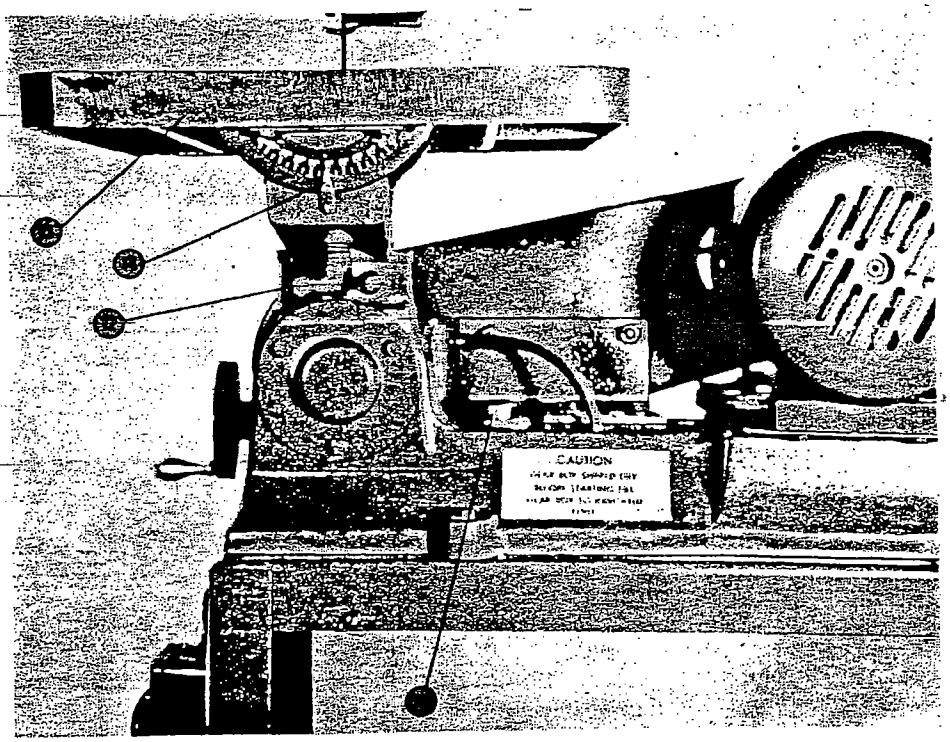


FIGURE 3

MODEL 95 SCROLL SAW – LOWER FRAME & STAND ASSEMBLY

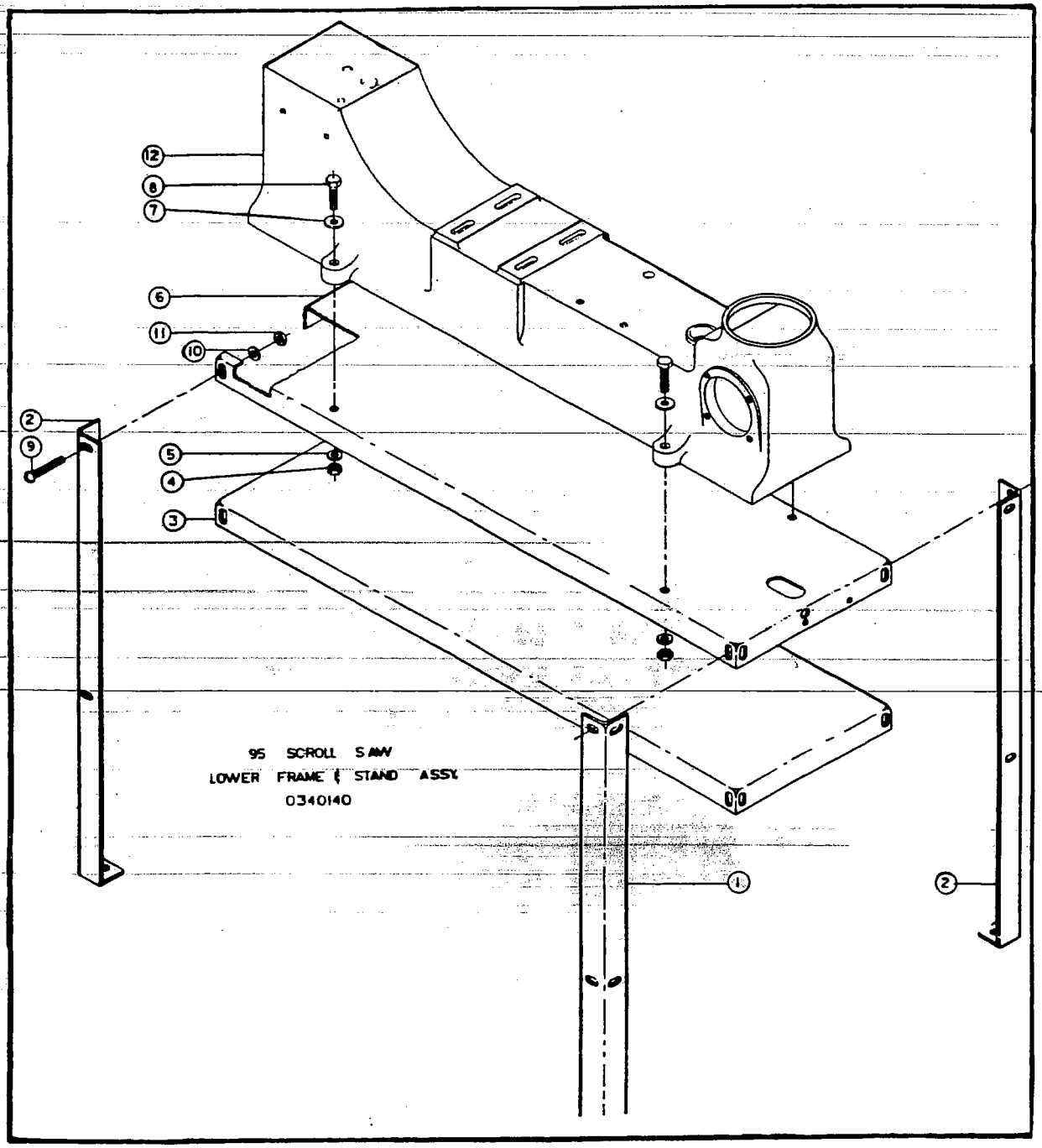


Fig. 1

MODEL 95 SCROLL SAW – LOWER FRAME & STAND ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	2759014	STAND ASSEMBLY (ITEMS 1 THRU 8)	
1	3423006	LEG, STAND, L.H.	2
2	3423005	LEG, STAND, R.H.	2
3	3578046	PANEL, STAND, BOTTOM	1
4	6516009	NUT, HEX JAM, 3/8"	4
5	6861300	WASHER, LOCK, 3/8"	4
6	3578018	PANEL, STAND, TOP	1
7	6861301	WASHER, FLAT, 3/8"	4
8	6716032	SCR., HEX HD. CAP., 3/8–16 X 1-1/2"	4
9	6715166	SCR., TRUSS HD., 5/16–18 X 5/8" (ZINC PLATED)	16
10	6861200	WASHER, LOCK, 5/16"	16
11	6515006	NUT, HEX, 5/16" (PLATED)	16
		NOTE: Nos. 9,10 & 11 ARE SHIPPED AS PART OF SHIPPING KIT 2405041	
12	3218005	FRAME, LOWER MAIN GCI-JS-1	1

MODEL 95 SCROLL SAW – PUMP & PUSH ROD ASSEMBLY

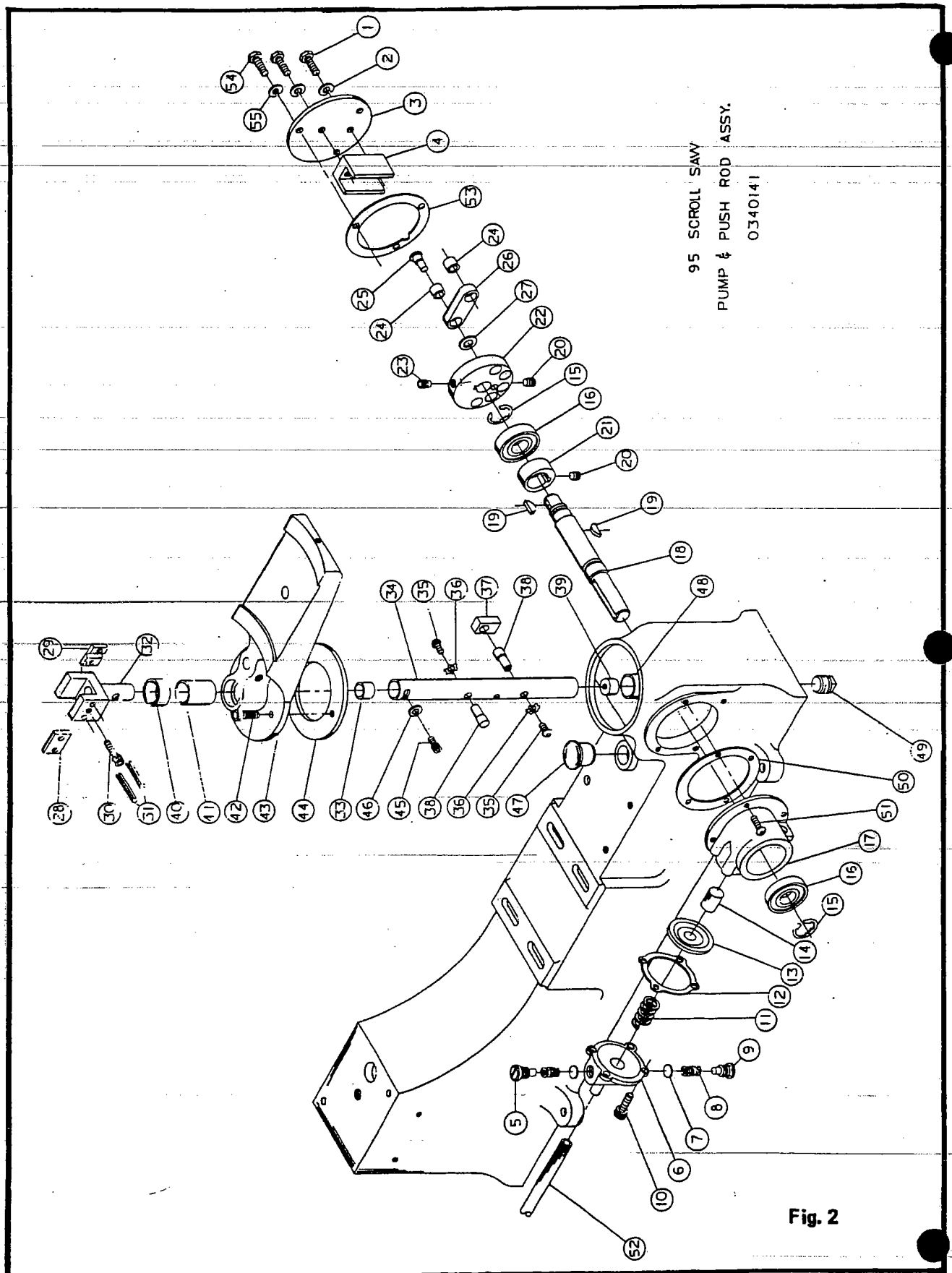


Fig. 2

MODEL 95 SCROLL SAW— PUMP & PUSH ROD ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	2079003	MAIN CAP ASSEMBLY, (ITEMS 1 THRU 4)	
1	6714049	SCR., HEX HD. CAP, 1/4–20 X 3/4"	2
2	6861100	WASHER, LOCK, 1/4"	2
3	3078012	CAP, MAIN FRAME	1
4	3064025	BRACKET, GUIDE, PUSH ROD	1
	2612005	PUMP ASSEMBLY, (ITEMS 5 THRU 27)	
	2612007	PUMP ASSEMBLY, MANIFOLD (ITEMS 5 THRU 9)	
5	3689202	SCREW, MANIFOLD, W/O HOLE	1
6	3462004	MANIFOLD, PUMP	1
7	3825202	VALVE, PUMP DIAPHRAGM	2
8	6813041	SPRING, COMP., JS-5	2
9	3689201	SCR., VALVE PUMP, W/HOLE	1
10	6710015	SCR., SOC. HD. CAP, 10–24 X 1/2"	4
11	6813042	SPRING, COMP., C-2402, 5/16 I.D. X 7/16 O.D. X 1-1/4"	1
12	3234001	GASKET, MANIFOLD (ONE NOT SHOWN)	2
13	2117001	DIAPHRAGM ASSEMBLY (WELDMENT)	1
14	3601007	PLUNGER, PUMP MANIFOLD	1
15	6670025	RING, RETAINING, TRUARC No. 5133-75	2
16	6060051	BEARING, BALL, FAFNIR No. 203NPPG	2
17	3298041	HOUSING, CRANK	1
18	3701030	SHAFT, CRANK	1
19	6420000	KEY, WOODRUFF No. 404	2
20	6714004	SCR., SOC. SET, CUP PT., 1/4–20 X 1/4"	2
21	3076010	CAM	1
22	3100001	COUNTER BALANCE	1
23	6714008	SCR., SOC. SET, CUP PT., 1/4–20 X 5/16"	1
24	6095020	BUSHING, No. PS302-24, 3/8 I.D. X 1/2 O.D. X 3/8"	2
25	3585209	PIN, CRANK ARM	1
26	3025009	ARM, CRANK	1
27	6811281	SPACER, CARNK ARM, DE-STA-CO, 3/8 X 5/8 X .032"	1
	2085002	LOWER CHUCK ASSEMBLY (ITEMS 28 THRU 32)	
28	3350005	JAW, OUTER CHUCK	1
29	3350002	JAW, INNER CHUCK	1
30	6760070	SCR., SOC. HD. CAP, 10–32 X 5/8"	1
31	6626064	PIN, SPRING, 5/32 X 1" LG.	2
32	3084002	CHUCK, LOWER	1
	2670007	PUSH ROD ASSEMBLY, (ITEMS 33 THRU 39)	
33	3078011	CAP, OIL PUMP, UPPER	1
~~34~~	3670066	ROD, PUSH	1
35	6710061	SCR., BUTTON HD., SOC. CAP, 10–24 X 1/4"	2
36	6860801	WASHER, LOCK, EXT. TOOTH No. 10	2
37	3055013	BLOCK, GUIDE	1
38	3585208	PIN, PUSH ROD	2
39	3078010	CAP, OIL PUMP, LOWER	1
40	6804031	SEAL, OIL, NATIONAL 50009	1
41	6095180	BUSHING, BRONZE, POWER–CRAFT, PS-627-16A, 5/8 X 3/4 X 1-1/4"	1
42	6714016	SCR., SOC. HD. CAP, 1/4–20 X 1"	2
43	3064065	BRACKET, TRUNNION, GCI-JS-4	1
44	3661002	RING, LOCK, TRUNNION BRACKET	1
45	6706012	SCR., SOC. HD. CAP, 6–32 X 1/4"	1
46	6860600	WASHER, FLAT, No. 6	1
47	6607007	CUP, OIL, GITS No. 308B	1
48	6095179	BUSHING, BRONZE, POWER-CRAFT, PS-627-44, 5/8 X 3/4 X 11/16"	1
49	6638005	PLUG, PIPE, 3/4–14 NPT	1
50	3234221	GASKET, CRANK HOUSING	1
51	6714085	SCR., BUTTON HD., SOC. CAP, 1/4–20 X 5/8"	4
52	3589013	PIPE, RUBBER, 3/16 I.D. X 5/16 O.D. X 66" LG.	1
53	3234131	GASKET, MAIN CAP, FRAME	1
54	6714049	SCR., HEX HD. CAP, 1/4–20 X 3/4"	3
55	6861100	WASHER, LOCK, 1/4"	3

must order assembly #2670007 includes 33, 34, 35, 36 38, 39 does not include #37

MODEL 95 SCROLL SAW – TABLE & TRUNNION ASSEMBLY

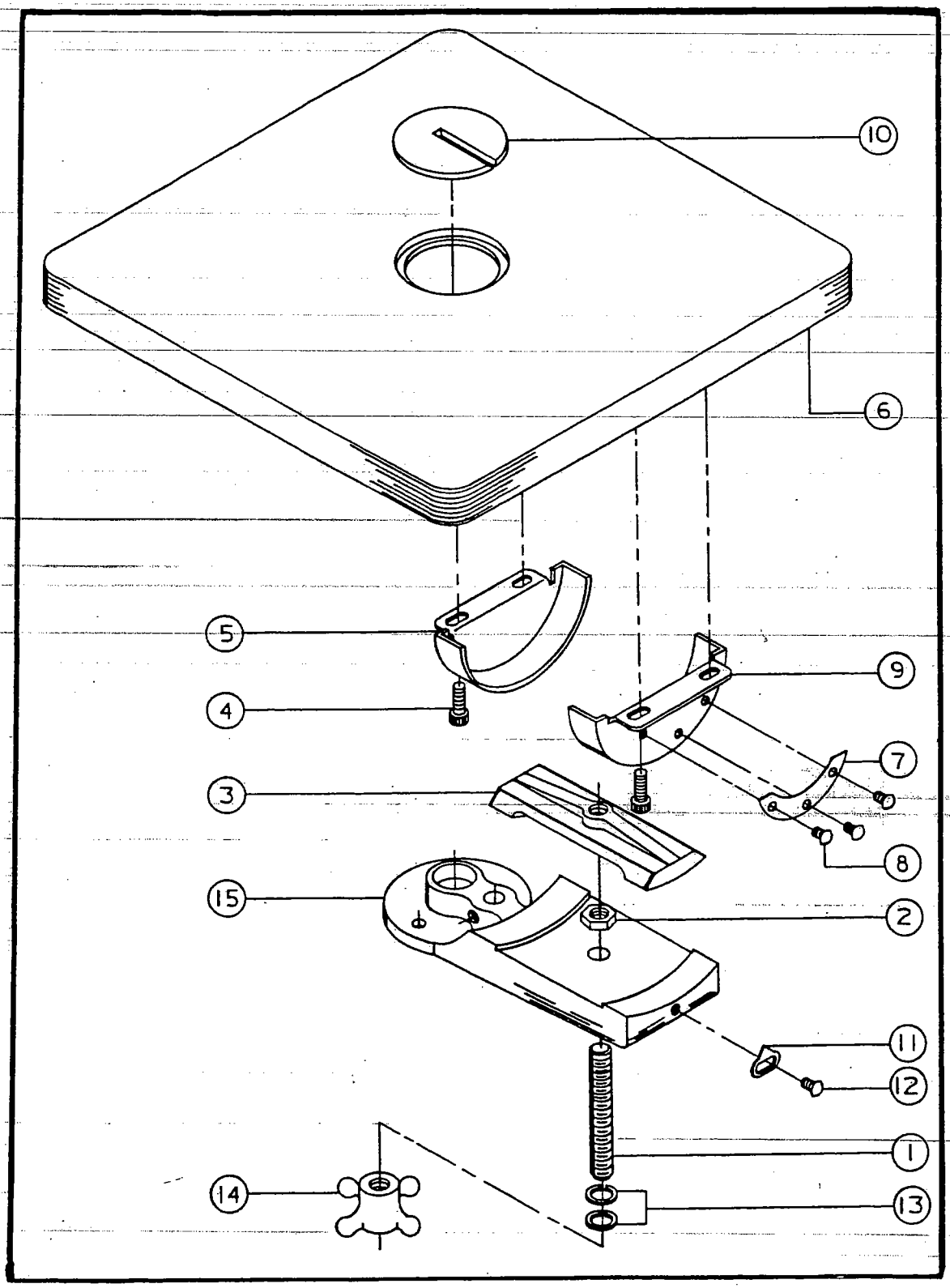


Fig. 3

MODEL 95 SCROLL SAW – TABLE & TRUNNION ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	2092005	CLAMP ASSY., TRUNNION LOCK (ITEMS 1 THRU 3)	
1	3695028	LOCK SCREW, TRUNNION	1
2	6516009	NUT, HEX JAM, 3/8–16 1	1
3	3092008	CLAMP, TRUNNION LOCK	1
	2797020	TABLE ASSY., (ITEMS 4 THRU 9)	
4	6715022	SCR., SOC. HD. CAP, 5/16–18 X 3/8"	4
5	3810002	TRUNNION, W/O HOLES	1
6	3797046	TABLE, GCI-JS-3	1
7	3684202	SCALE, TILRING	1
8	6747000	SCR., DRIVE, 4X 3/16" (NICKEL PLATED)	3
9	3810001	TRUNNION, W/HOLES	1
10	3328203	INSERT, TABLE	1
11	3604005	POINTER, TRUNNION	1
12	6706035	SCR., RD. HD., 6–32 X 1/4" (PLATED)	1
13	6861200	WASHER, LOCK, 5/16"	2
14	3406004	KNOB, TRUNNION LOCK, GCI-JS-4	1
15	3064065	BRACKET, TRUNNION, GCI-JS-4	1

MODEL 95 SCROLL SAW – DRIVE AREA

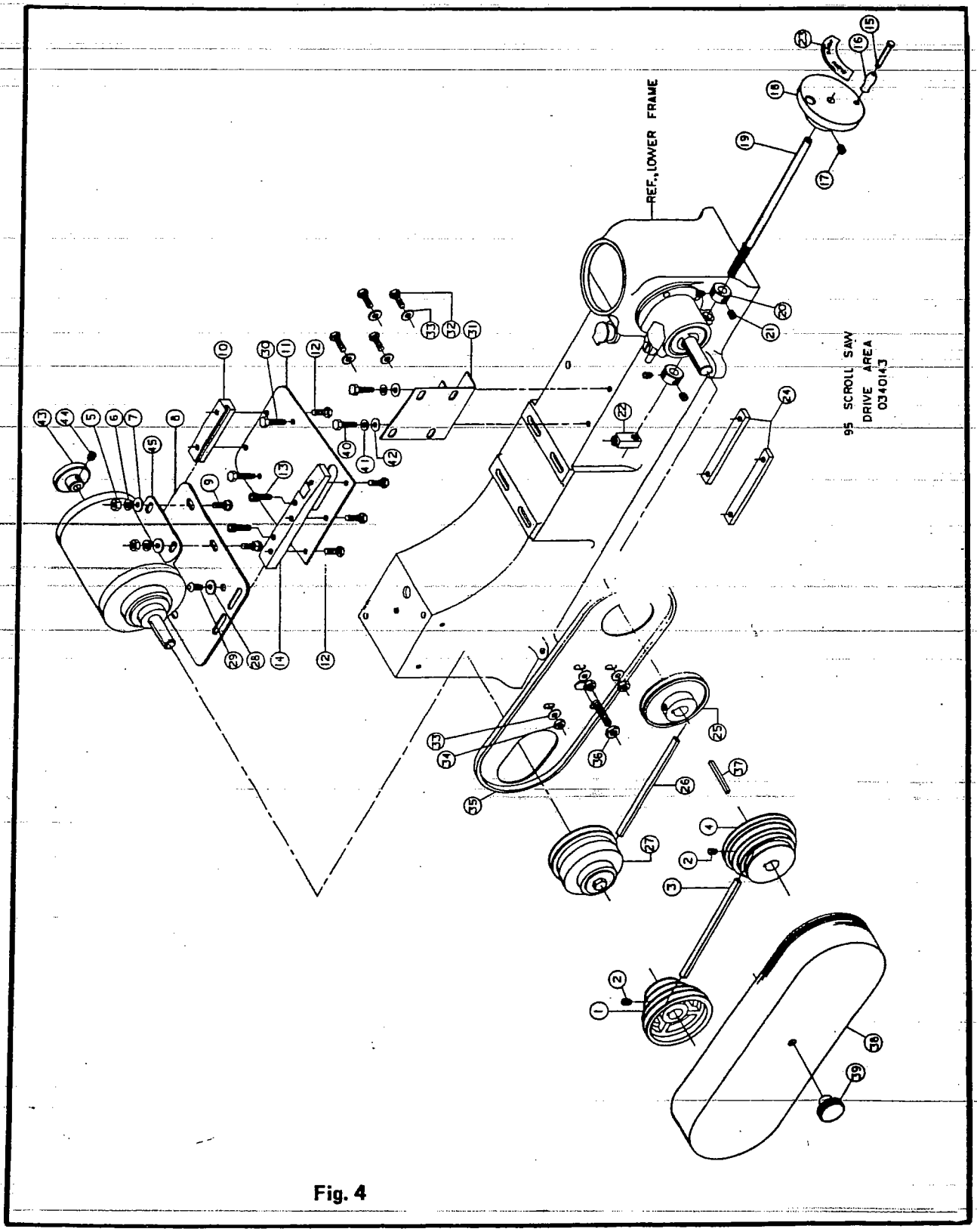


Fig. 4

MODEL 95 SCROLL SAW – DRIVE AREA

ITEM NO.	PART NO.	DECSRIPTION	QTY.
	2387003	STEP CONE SHEAVE KIT (ITEMS 1 THRU 4)	
1	3718001	SHEAVE, MOTOR, STEP CONE	1
2	6715016	SCR., SOC. SET, CUP PT., 5/16–18 X 5/16"	2
3	6077013	BELT, BROWNING, "V" 4L370	1
4	~~3718010~~ 6801116	SHEAVE, STEP CONE, DRIVEN	1
	2404001	V.S.KIT ASSEMBLY (ITEMS 5 THRU 30)	
	2042024	BASE ASSEMBLY, MOTOR, V.S. (ITEMS 5 THRU 14)	
5	6515007	NUT, HEX JAM, 5/16–18	4
6	6861200	WASHER, LOCK, 5/16"	4
7	6861201	WASHER, FLAT, 5/16"	4
8	3595021	PLATE, SLIDING	1
9	6086013	BOLT, CARRAIGE, 5/16–18 X 3/4"	4
10	3044022	BAR, MOTOR BASE, SHORT	1
11	3593020	PLATE, STATIONARY	1
12	6714049	SCR., HEX HD. CAP, 1/4–20 X 3/4"	5
13	6714015	SCR., SOC. HD. CAP, 1/4–20 X 1/2"	2
14	3044023	BAR, MOTOR BASE, LONG	1
	2271011	HANDWHEEL ASSEMBLY, V.S. (ITEMS 15 THRU 22)	
15	6624006	PIN, GROOVE, FLAT HD., 1/4 X 3"	1
16	3268201	HANDLE, NYLON, MACHINE	1
17	6715016	SCR., SOC. SET, CUP PT., 5/16–18 X 5/16"	1
18	3271047	HANDWHEEL, 4" DIA.	1
19	3690003	SCREW, V.S. ADJUSTING	1
20	3096018	COLLAR, V.S. ADJ., SCREW	1
21	6714004	SCR., SOC. SET, CUP PT., 1/4–20 X 1/4"	4
22	3064028	BRACKET, V.S. Adjusting	1
23	3747210	SPEED PLATE	1
24	3767007	STRAP, MOTOR	2
25	6807033	SHEAVE, No. AK34, BROWNING	1
26	6077011	BELT, "V", BROWNING 4L350	1
27	6807069	SHEAVE, V.S. HI-LOW MOD. 30 5/8" BORE	1
28	6861201	WASHER, FLAT, 5/16"	1
29	6715112	SCR., BUTTON HD., SOC. CAP, 5/16–18 X 1/2"	1
30	6715032	SCR., HEX HD. CAP, 5/16–18 X 1"	4
	2250022	BELT GUARD ASSEMBLY (ITEMS 31 THRU 36)	
31	2250025	GUARD ASSY., MOUNTING BRACKET (WELDMENT)	1
32	6715033	SCR., HEX HD. CAP, 5/16–18 X 1/2"	4
33	6861201	WASHER, FLAT, 5/16"	8
34	6515001	NUT, HEX JAM, 5/16–18	4
35	2595007	PLATE ASSY., GUARD MTG., (WELDMENT)	1
36	6516001	NUT, HEX, 3/8–16	1
37	3388009	KEY, CRANKSHAFT, 3/16 X 3/16 X 1-3/4"	1
38	3250050	GUARD, BELT	1
39	3406022	KNOB, BELT GUARD, 75-1	1
40	6715033	SCR., HEX HD. CAP, 5/16–18 X 1/2"	2
41	6861200	WASHER, LOCK, 5/16"	2
42	6861201	WASHER, FLAT, 5/16"	2
43	3406008	KNOB, MOTOR	1
44	6715009	SCR., SOC. SET, CUP PT., 5/16–18 X 5/16"	1
45	6470203	MOTOR, ELEC., 1/3HP, 1PH, 1800RPM, 115/230V, 56 FR., TEFC	1
	6470208	MOTOR, ELEC., 1/3HP, 3PH, 1800RPM, 200V, 56 FR., TEFC	1
	6470215	MOTOR, ELEC., 1/3HP, 3PH, 1800RPM, 230/460V, 56 FR., TEFC	1

MODEL 95 SCROLL SAW – UPPER QUILL & GUIDE ASSEMBLY

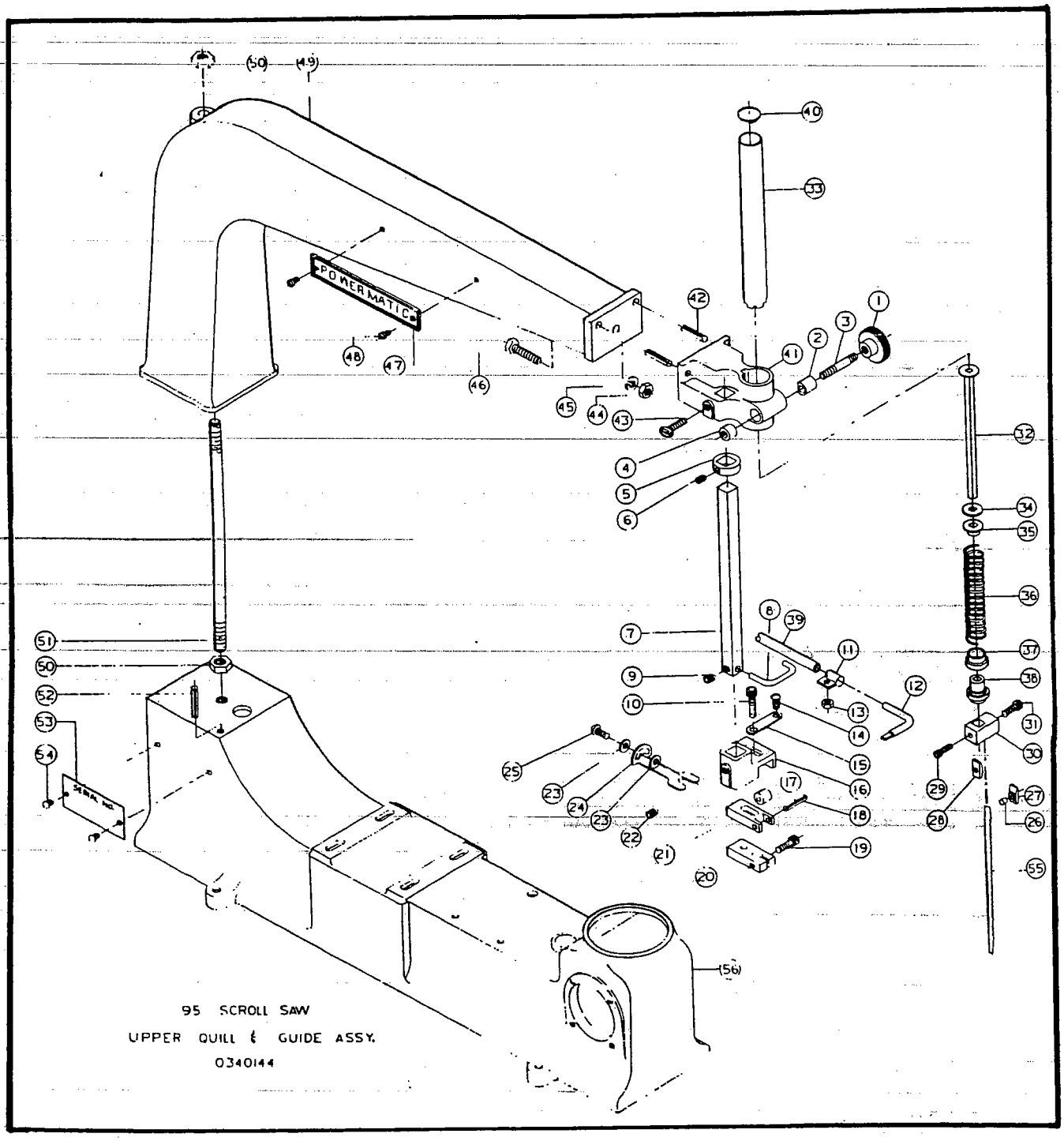


Fig. 5

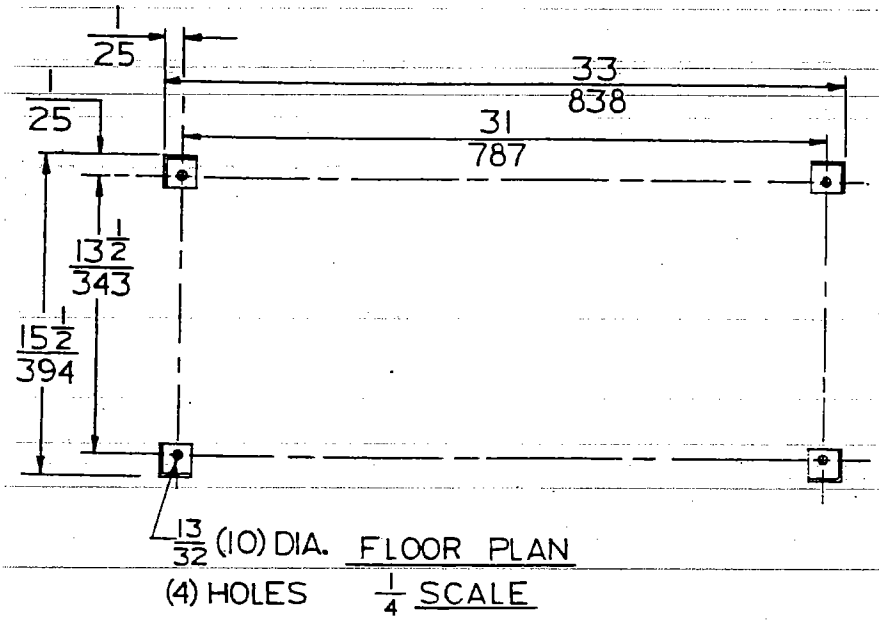
MODEL 95 SCROLL SAW — UPPER QUILL & GUIDE ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	2695024	SCREW LOCK ASSY., QUILL (ITEMS 1 THRU 4)	
1	3406012	KNOB	1
2	3448017	LOCK, PLAIN (QUILL)	1
3	3695229	SCREW, LOCK (QUILL)	1
4	3448016	LOCK, THREADED (QUILL)	1
	2253042	GUIDE ASSEMBLY (ITEMS 5 THRU 25)	
5	3096017	COLLAR, DEPTH ADJ., ROD	1
6	6714008	SCR., SOC. SET, CUP PT., 1/4-20 X 5/16"	1
7	3044021	BAR, GUIDE	1
8	3250205	GUARD, GUIDE BAR	1
9	6710065	SCR., SOC. SET, CUP PT., 10–24 X 1/4"	1
10	6714016	SCR., SOC. HD. CAP, 1/4–20 X1"	1
11	6122025	CLAMP, PIPE, TINNERMAN No. C29 80A-4-27	1
12	3589006	PIPE, DUST BLOWER	1
13	6506001	NUT, HEX, 6–32	1
14	6706079	SCR., RD. HD., 6–32 X 1/4"	1
15	3784001	SUPPORT, PIPE (BLOWER)	1
16	3064026	BRACKET, UPPER GUIDE	1
17	3673207	ROLLER, BEARING (BACKUP)	1
18	6626001	PIN, SPRING, 1/8 X 5/8"	1
19	6708019	SCR., SOC. HD. CAP, 8–32 X 5/8"	1
20	3092009	CLAMP, GUIDE	1
21	3064027	BRACKET, BLADE BACKUP	1
22	6715016	SCR., SOC. SET, CUP PT., 5/16–18 X 5/16"	1
23	6861102	WASHER, FLAT, THIN, 1/4"	2
24	3286201	HOLD DOWN	1
25	6714082	SCR., BUTTON HD., SOC. CAP, 1/4–20 X 3/8"	1
	2085001	UPPER QUILL & CHUCK ASSY. (ITEMS 26 THRU 38)	
	2085003	UPPER CHUCK ASSEMBLY (ITEMS 26 THRU 31)	
26	3583203	PIN, UPPER CHUCK SLIDING	1
~~27~~	3350004	JAW, SLIDING UPPER CHUCK	1
28	3350003	JAW, STATIONARY, UPPER CHUCK	1
29	6756001	SCR., SOC. HD. CAP, 6–40 X 1/4 1/4"	1
30	3084001	CHUCK, UPPER	1
31	6760031	SCR., SOC. HD. CAP, 10–32 X1/2"	1
	2640007	QUILL ASSY., UPPER BLADE TENSION (ITEMS 32 THRU 38)	
32	2601006	PLUNGER & WASHER ASSY. (WELDMENT)	1
33	2640013	QUILL ASSY. (WELDMENT)	1
34	3839001	WASHER, PLUNGER, FIBER	1
35	3253205	GUIDE, LOWER QUILL	1
36	6813039	SPRING, PLUNGER, JS-1	1
37	3253206	GUIDE, LOWER QUILL	1
38	3253204	GUIDE, PLUNGER SPRING	1
39	3589013	PIPE, RUBBER, 3/16 I.D. X 5/16 O.D. X 66" LG.	1
40	6098005	PLUG, BUTTON 7/8"	1
41	3277005	HEAD, UPPER GUIDE	1
42	6626028	PIN, SPRING, 3/16 X 1/2"	2
43	6715106	SCR., THUMB, 5/16–18 X 3/4"	1
44	6518001	NUT, HEX, 1/2–13	1
45	6861500	WASHER, LOCK, 1/2"	1
46	6718017	SCR., HEX HD. CAP, 1/2–13 X 1-3/4"	1
47	3312252	PLATE, I.D. POWERMATIC	1
48	6746001	SCR., PAN HD., SELF TAPPING 6 X 1/4"	2
49	3218008	FRAME, UPPER, MAIN, GCI-JS-2	1
50	6570001	NUT, HEX JAM, 5/8–18	2
51	3689003	SCR., UPPER FRAME, 5/8 –18 X 12-1/2"	1
52	6626041	PIN, SPRING, 1/4 X 1-1/2"	2
53	3312228	PLATE, I.D. SERIAL NO.	1
54	6747000	SCR., DRIVE, 4 X 3/16"	2
55	6080054	BLADE, SAW, (SABER) TROJAN No. 310 (INSTALLED)	1
56	3218005	FRAME, LOWER, MAIN, GCI-JS-1	1

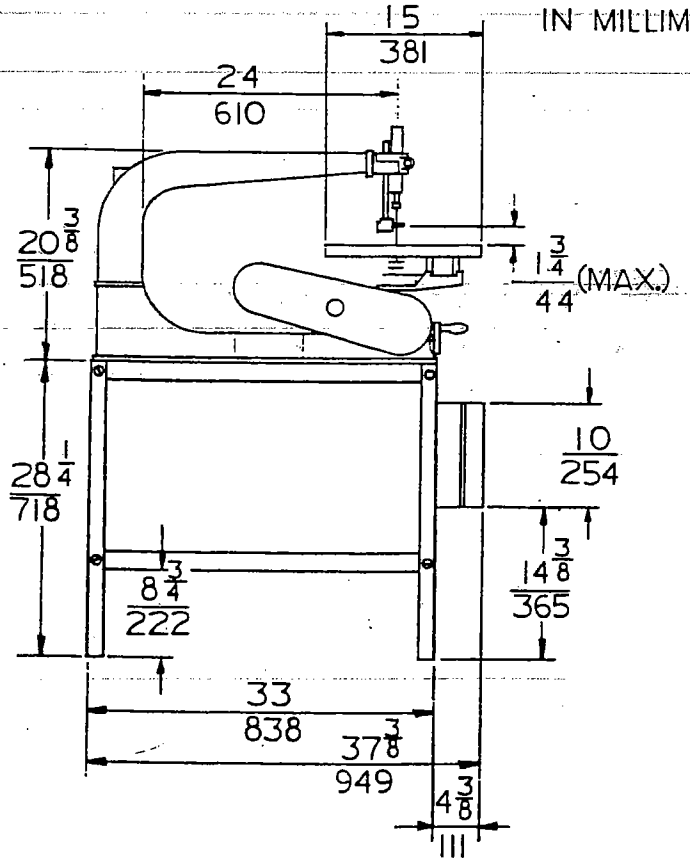
N/A must order 2334004 includes the pin (3583203) item 26

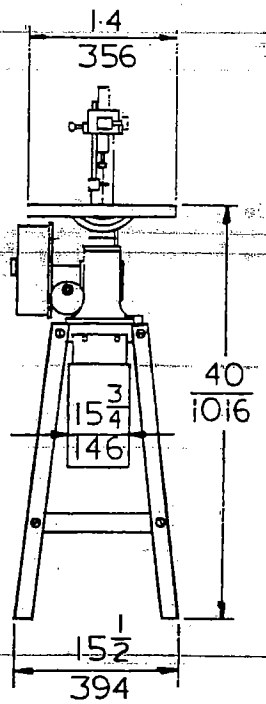
6374010 sold by foot order 6

MODEL 95 SCROLL SAW – DIMENSIONAL DRAWING



NOTE: LOWER DIMENSIONS IN MILLIMETERS





95 SCROLL SAW DIMENSIONAL DWG. 0140055

DEC. 1979

Fig. 6