

17" DRILL PRESS

Operating and Maintenance Instructions

The 17" drill press of either the bench or floor type reaches you completely assembled. All that is necessary is to raise the head to the operating position desired. On floor-type drills without raising mechanism in the head, loosen clamp nuts DP-828, raise head to position by sliding upward on the column, then re-tighten clamp nuts. On drills with raising mechanism in head, loosen clamp bolt on thrust collar below rack and operate ball-crank handle DDL-160-S to feed rack up through head. When rack is through head as far as necessary, re-tighten collar clamp bolt, then loosen the head clamp nuts and operate ball-crank handle to move head upward on the column. By alternately feeding the rack through the head and the head up and down on the column in this manner, the head and the rack can be set in the most convenient manner for the job. It is not necessary to move the rack, once set, except for extreme movements of the head.

POWER REQUIRED

For light shop work up to $\frac{1}{2}$ " in cast iron, a $\frac{1}{2}$ -H.P. motor of the type of our No. 82-710 or No. 84-510 motor may be used. For medium duty work a $\frac{3}{4}$ -H.P. motor is recommended. Use only a ball-bearing motor, preferably one with sealed ball bearings. For work up to $\frac{3}{4}$ " in cast iron, and for heavy continuous work a 1 H.P. motor is recommended. The motor should turn in a clockwise direction, viewed from the top of the motor, when installed. Our motors with built-in switches should be installed so that the switch is at the left-hand side as you face the machine. If motor turns the wrong way, reverse its rotation in accordance with the instructions accompanying the motor.

Install the motor pulley with the largest step at the top, and align it carefully with the spindle pulley to avoid undue wear on the sides of the belt. The motor bracket is adjustable back and forward for correct belt tension. Longer belt life will be obtained if the tension is not too great.

Refer to drawings and Table 1 for replacement parts.

OPERATING DRILL PRESSES IN GANGS

When a number of drill presses are to be used in gangs, as for production work, they should be provided with three-phase motors for the following reasons: Three-phase motors will save from 20 to 30 percent of the current required by ordinary single-phase motors, besides delivering more power. Since they have no brushes, commutators, starting switches or short-circuit switches they are practically trouble-free, thus reducing upkeep cost. They are installed on a power line and thus do not flicker lights. A number of drill presses should not be operated with single-phase motors, taking the current from the lighting circuit; in fact, this practice is prohibited by many electric companies.

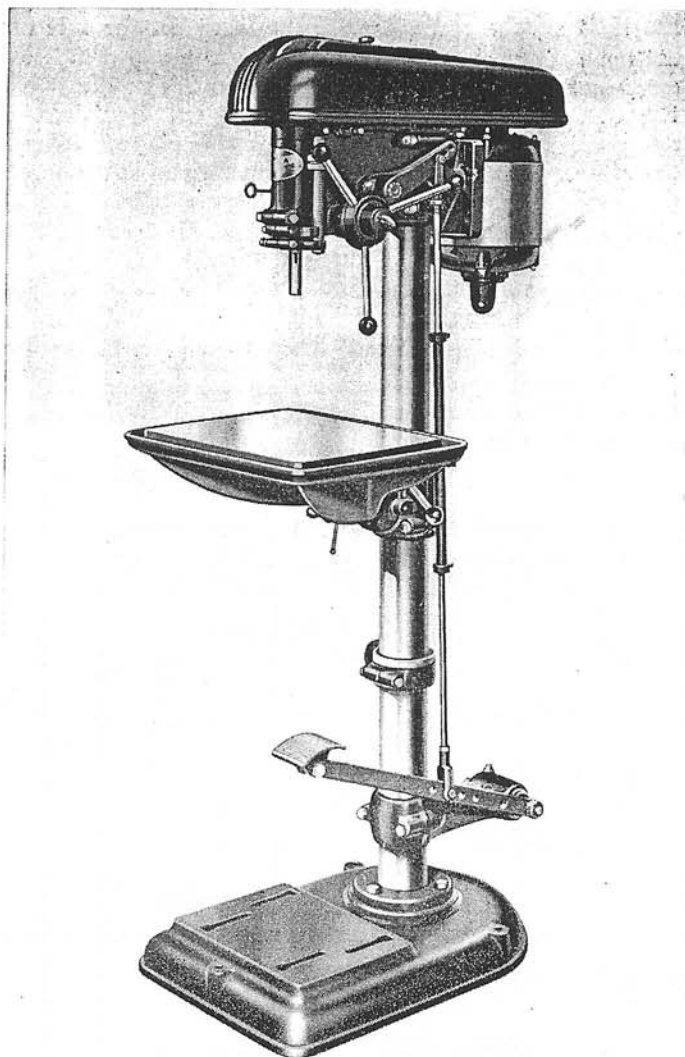


Fig. 1. 17" Drill Press

Three-phase motors, being wound for 220 volts, must be operated from a power line. They should be wired by a licensed electrician and provided with three-phase switches, as they have no built-in switches or extension cords.

INSTALLING PRODUCTION TABLE

Production table No. 1372 may be installed on the floor-type machine instead of the regular tilting table. To install, remove index pin DP-666-S and clamp nut and washer SP-1027 and SP-1707, then remove the regular table. Install production table and replace clamp nut and washer and index pin. The production table has a $12\frac{1}{2}$ " x 17" table surface and is provided with a $1\frac{1}{2}$ " oil trough; it is especially suitable for the

handling of jigs in regular production work. Oil troughs are tapped for $\frac{1}{2}$ " drain pipe at the rear. See Fig. 3.

CHANGING SPINDLES

Drill presses fitted with No. 2 Morse-taper sockets may be changed to $\frac{1}{2}$ " capacity Jacobs-chuck equipment, or vice versa. It is best to exchange the complete quill assembly, so as to avoid disturbing the preloading of the bearings, and to avoid damage to the bearings that might be caused if the attempt is made to withdraw the bearings without proper equipment.

To remove the quill, remove the head knob NJ-220 holding the return spring housing on the left of the head. Loosen the screw holding the depth indicator pointer and turn the pointer down out of the way. Remove the spring housing, carrying the depth scale, the plate covering the spring and the washer inside the plate. Now release the tension on the spindle return spring by turning the worm screw DP-621 (Fig. 4). This will be found in the head at the rear of the spring housing and is turned with a screwdriver. Back the worm screw completely out, when the entire spring in its case may be withdrawn. Quill-pinion shaft DP-618 (Fig. 4) may then be withdrawn with one hand while holding the quill with the other. Run off the knurled stop nuts DP-629 and withdraw the quill and spindle assembly.

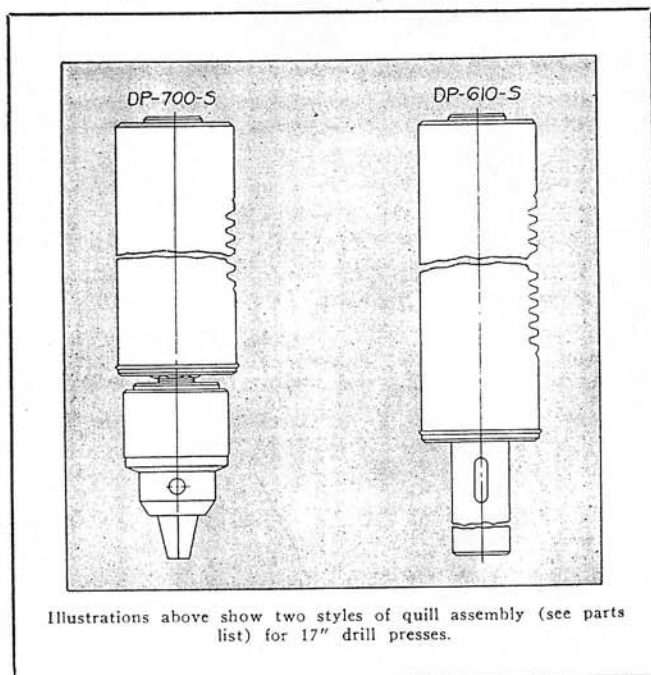


Fig. 2.

To re-install, insert the quill assembly from the bottom of the head and install the pinion shaft. Install stop-rod bracket, then slip the spring and its casing into the head. Insert the worm screw, and screw up until the proper spring-return tension is obtained. This should be just sufficient to return the quill to the top position; do not make this tension too strong. Replace the spring-housing washer, plate, cover, star wheel and spring, and set the indicator pointer at zero when the spindle is at the top position. Travel of the quill on standard drill press is 5".

For mortising attachment to this 17" drill press, refer to PM-1523.

INSTALLING RAISING MECHANISM

The following instructions apply to the installation of the raising gear in the table bracket of the floor-type machine. The parts shown by the reference numbers, and the method of installation, are exactly the same when the mechanism is installed in the drill-press head as shown in Fig. 4. When installing the head, the motor and bracket should first be removed.

Referring to Figs. 4 and 5, loosen the clamp bolts holding table bracket to column and remove bracket. Remove table from bracket and place bracket, flat side down, on the bench. Fasten spanner nut DP-638, setting nut down firmly. Slide worm-shaft DP-636 through bearing, keeping the flats to the outside. Slip collar DP-637 onto shaft, then slip on worm DP-635. (WORM HUB AND SHAFT ARE CENTER-PUNCHED TO INDICATE LARGE END OF TAPER-PIN HOLE. CENTER-PUNCH MARK ON SHAFT SHOULD BE FILED OFF TO INSURE WORM GOING ON EASILY. BE SURE TO FIT TAPER PIN INTO HOLES CORRECTLY). Push shaft through opposite plain bearing, putting a drop of oil on it first. Put collar DP-639 on shaft outside of spanner nut and fasten in place with taper pin. Put taper pin in place in worm hub. Fasten ball-crank handle in place, and, if shaft turns freely, drive the taper pins home.

Set compound gear assembly DP-640-F in place to mesh with worm DP-635, and slide shaft DP-642 through worm gear and collar into the bearing. Place table bracket in position against column, put clamp cap in place, replace clamp bolts and tighten socket setscrew SP-207 against worm shaft DP-642. Loosen thrust collar DP-678, slip safety hook of DP-641-S over clamp collar and thrust bearing as in Fig. 5, then slide rack DP-641 through bracket from below. Tighten thrust collar on column.

To remove mechanism, reverse these instructions, removing rack, clamp cap, bracket, worm gear and shaft, worm and shaft in the order named. To install mechanism in head, follow the same instructions, first removing head from column and sliding thrust collar and bearing over the end of the column.

INSTALLING FOOT FEED

Slip gear quadrant DP-687 up through opening in bottom of drill-press head, then slip the splined shaft DP-688 through the bearings and quadrant, from the right-hand side of the machine. The shouldered end of the splined shaft goes through the left-hand side of the head as shown in Fig. 6. Tighten the clamp screw holding the quadrant to the shaft.

Slip lever DP-686 over the outer splined end of the shaft with the quadrant positioned as indicated. Pulling down on the lever should now move the drill-press quill down. Tighten lever DP-686 on shaft, and assemble one clevis DP-693 to the lever as shown, with stud DP-694 and cotter pin SP-2108.

Assemble lower bracket DP-685 to the column, about 2 inches up from the bottom, and tighten temporarily in this position. Assemble foot lever DP-692 to stud DP-690, but do not tighten the nut that holds the lever to the stud as yet. Assemble lower clevis and reach rod to the foot lever, then slip the connecting tube DP-696 over the rods, set the foot lever approximately level, the upper feed lever DP-686 in the

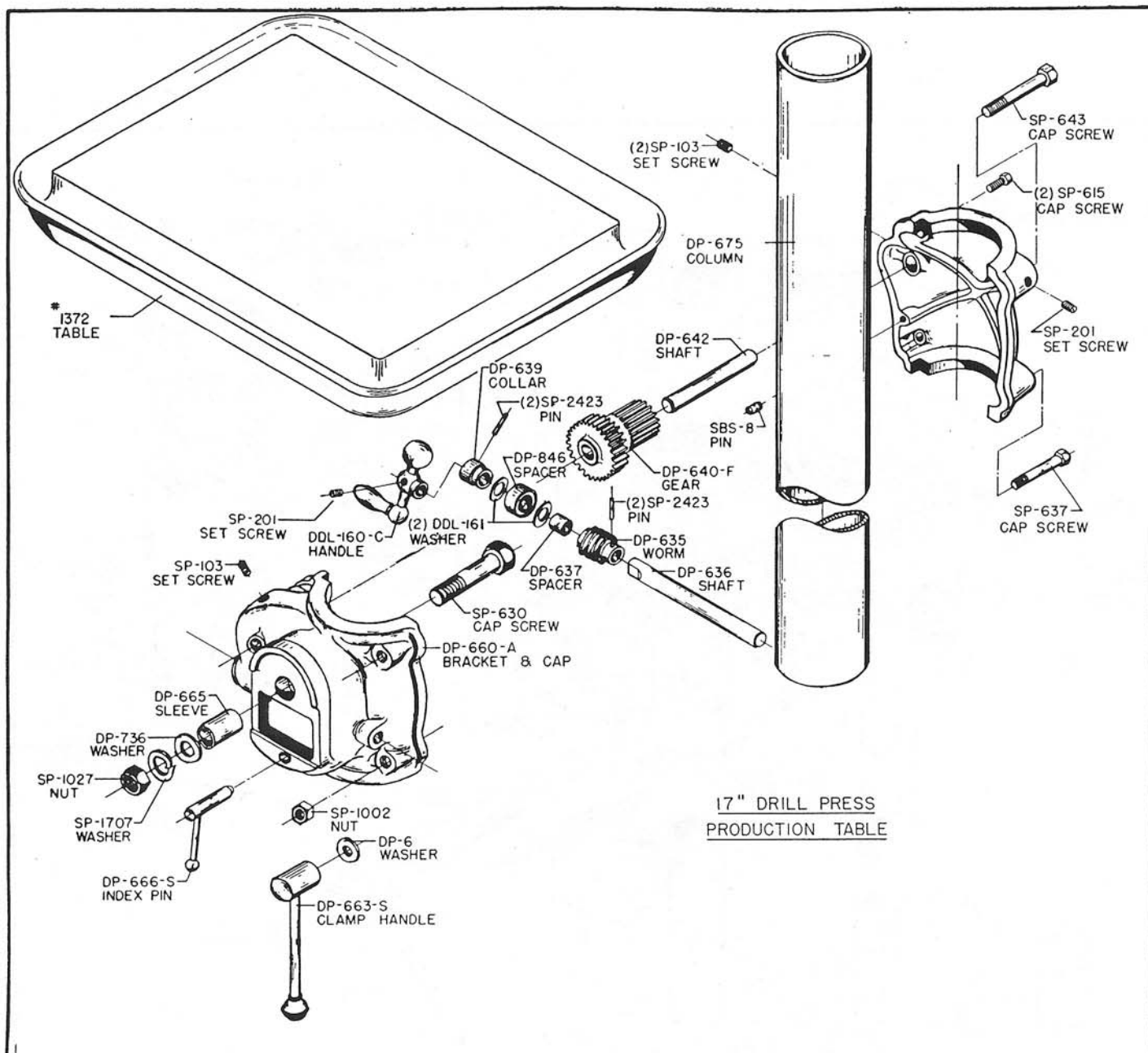


Fig. 3.

position shown in the side view, and tighten the set-screws SP-310 on the connecting tube, centering the tube between upper and lower reach rods.

To tension the foot-lever spring, have the nut SP-1027 loose, as instructed above, put a wrench on the flats of the stud DP-690, and turn the stud forward (toward the column) about half a turn. Tighten nut SP-1027 and, if tension is not enough, loosen nut again and turn stud further.

Height of the foot-feed lever can be adjusted both by the position of the bracket on the column and the holes into which the lower clevis is placed. Altering

the adjustment of the clevises in the holes in upper lever and foot lever also permits a wide range of stroke adjustment for the quill.

LUBRICATION

The self-sealed ball bearings in the quill and spindle-pulley are packed at the factory with enough lubricant for the life of the bearings, and require no attention. A drop of oil may occasionally be placed on the pinion shaft and quill rack and on the raising-mechanism shafts, as well as on the pivots of the foot-feed mechanism. No other lubrication is necessary.

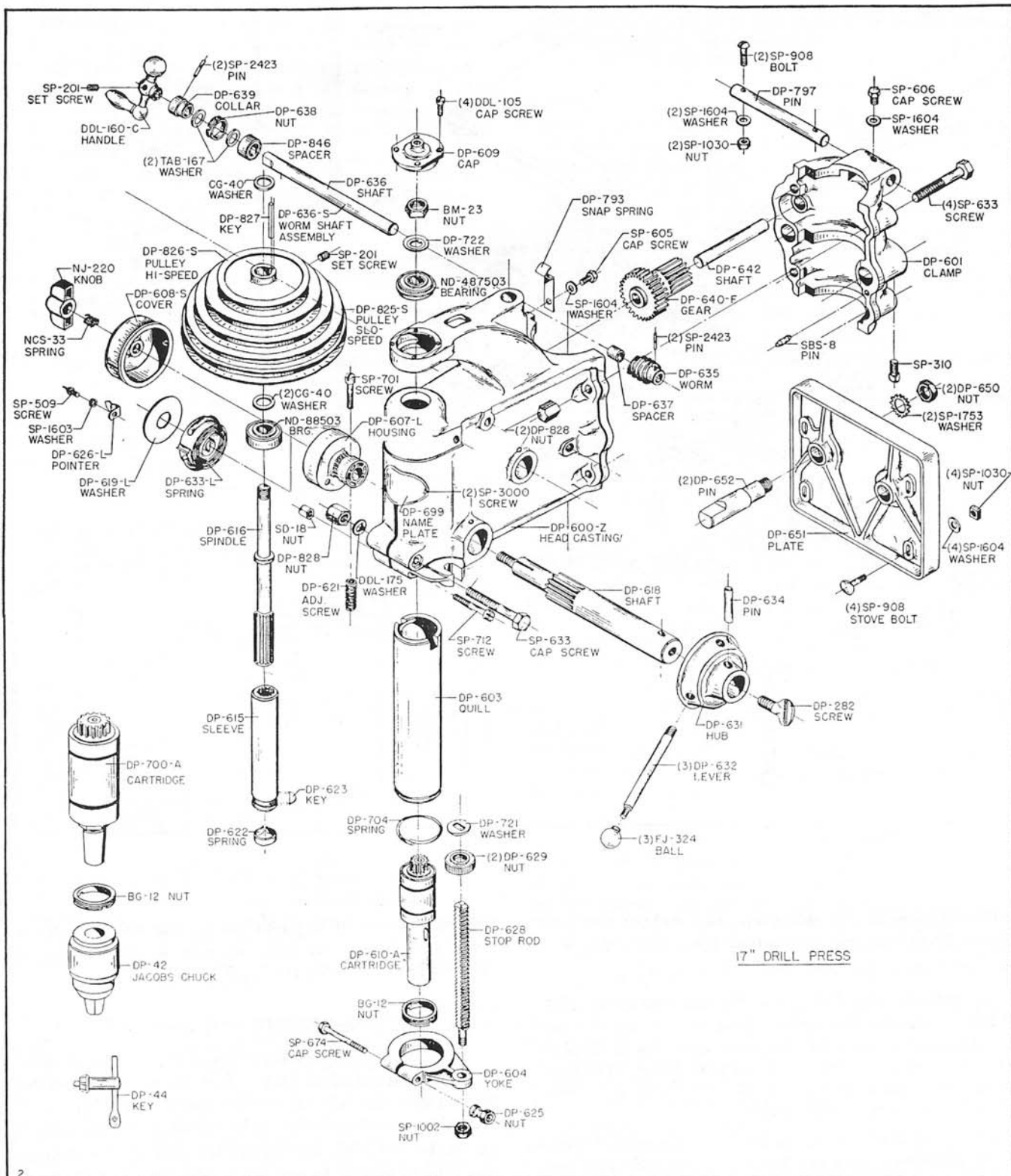


Fig. 4.

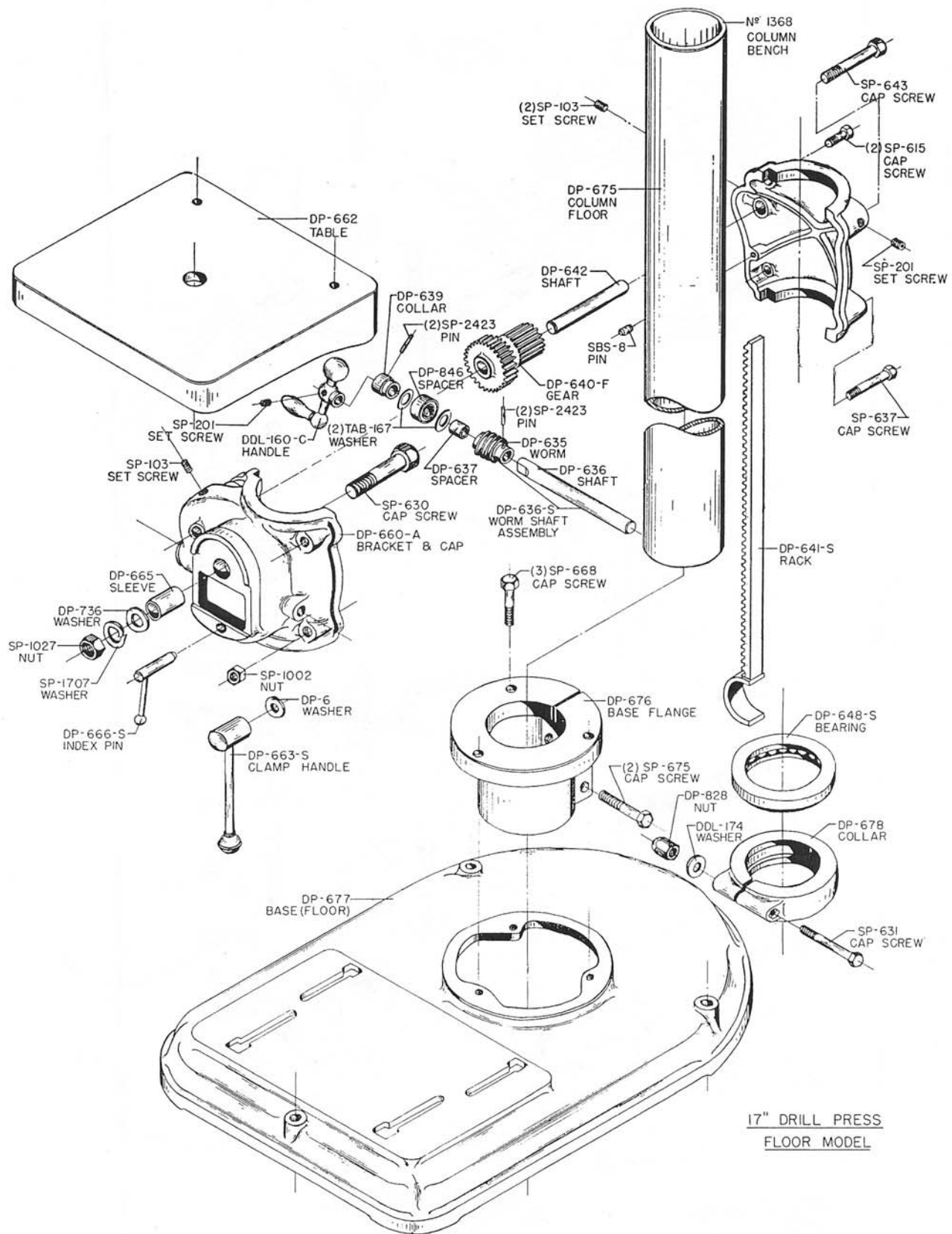


Fig. 5.

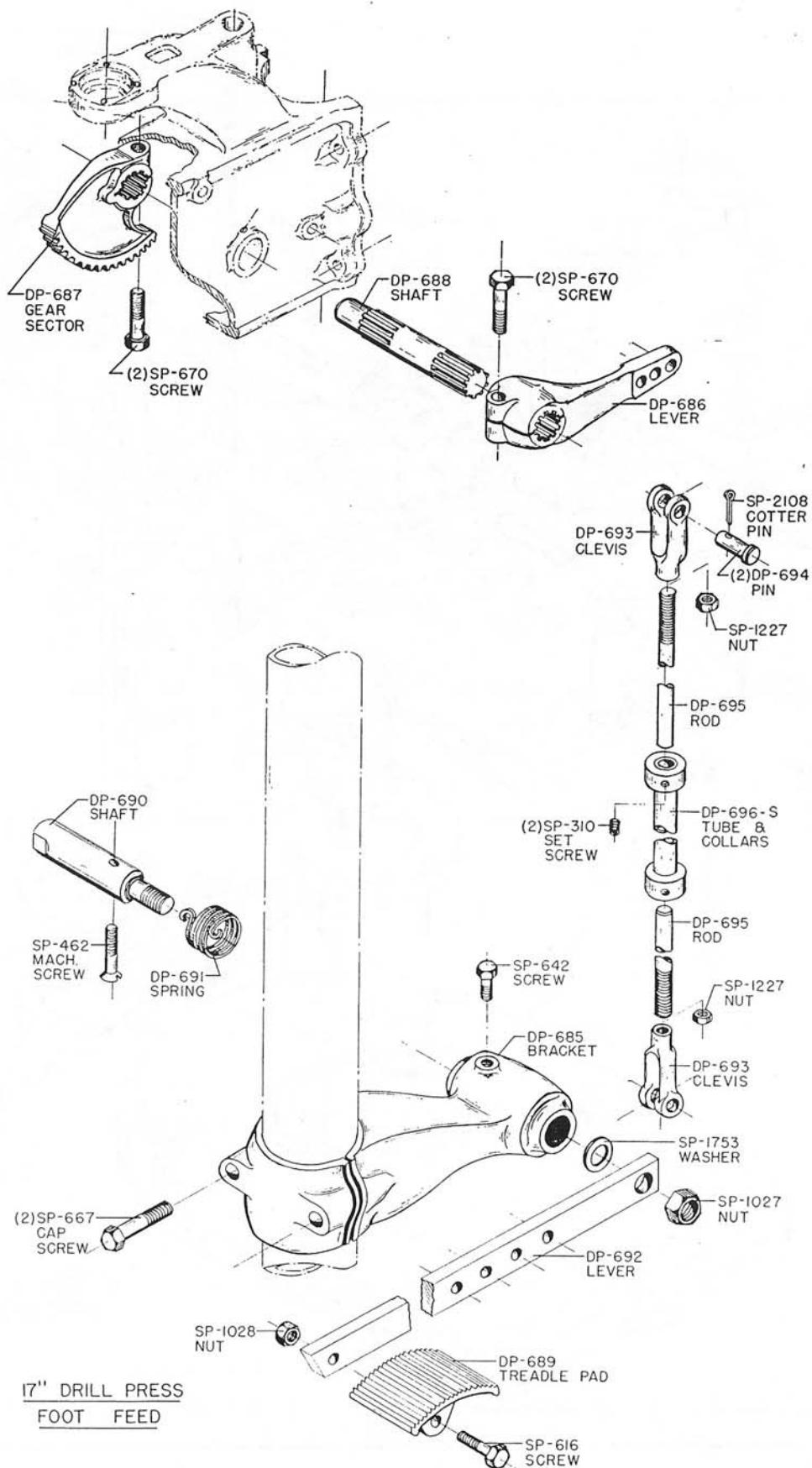


Fig. 6.
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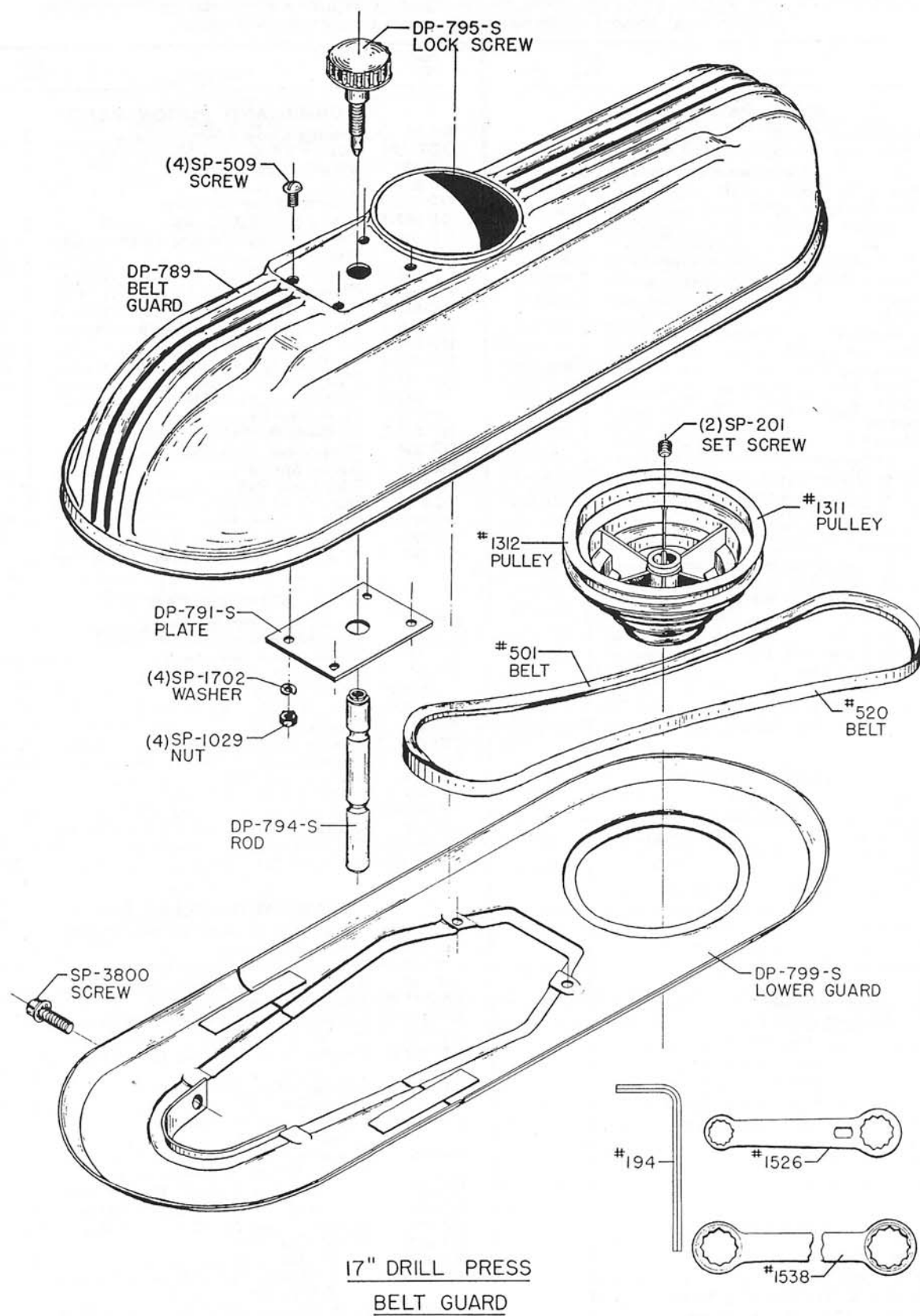


Fig. 7.
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Table 1. REPLACEMENT PARTS

IMPORTANT: Give both the Part Number and the Description of each item when ordering from this list; also the Serial Number of the machine on which the parts are to be used.

Part No.	Description	No. Req.	Part No.	Description	No. Req.
HEAD PARTS			QUILL AND PINION PARTS		
DDL-160-S	Ball Crank Handle	1	BG-12	Bearing Closure Nut	1
DDL-175	29/64 Steel Washer	1	DDL-174	29/64 x 1/8" Special Washer	1
DP-600-Z	Head Casting with matching cap....	1	DP-282	Thumb Screw	1
DP-601	Clamp for Head Casting	1	DP-603	Quill	1
DP-609	Cap for spline shaft bearing.....	1	DP-607-L	Return Spring Housing	1
DP-626-L	Indicator Pointer	1	DP-607-S	Return Spring Housing Assembly	1
DP-635	Worm	1	DP-608-S	Return Spring Housing Cover Assbly.	1
DP-636	Worm Shaft	1	DP-611	Sleeve	1
DP-636-S	Worm Shaft Assembly	1	DP-614	Pinion	1
DP-637	Spacer	1	DP-618	Pinion Shaft	1
DP-639	Collar	1	DP-619-L	Spacer Disk	1
DP-640-F	Compound Gear Assembly	1	DP-620	Fiber Washer for spring housing....	1
DP-641-S	Rack with Hook	1	DP-621	Spring-adjusting Screw	1
DP-642	Compound Gear Shaft	1	DP-630-L	Depth Scale for spring housing.....	1
DP-699	Name Plate	1	DP-631	Hub for pilot wheel	1
DP-828	1/8-14 Special Clamp Nut	3	DP-631-S	Pilot Wheel Assembly	1
DP-846	Spacer	1	DP-632	Pilot Wheel Lever	3
SBS-8	Dowel Pin	1	DP-633-L	Pinion-shaft Return Spring	1
SD-18	1/4-20 Special Nut	2	DP-634	Pilot-wheel Hub Pin	1
DDL-161	Fiber Washers	2	DP-704	Garner Spring	1
SP-103	1/8-18 x 1/4" Hd. Less Set Screw	1	FJ-324	Pilot Lever Ball	3
SP-309	1/8-18x5/8" Sq. Hd. Set Screw.....	2	NCS-33	Star Wheel Spring	1
SP-310	3/8-16 x 5/8" Sq. Hd. Set Screw	2	ND-87503	Quill Ball Bearing	2
SP-509	1/4-20x1/2" Rd. Hd. Machine Screw....	1	NJ-220	Hand Knob	1
SP-606	1/8-18 x 5/8" Hex. Hd. Cap Screw	1	SP-701	1/4"-20x3/4" Fillister Head Cap Screw	1
SP-629	1/8-18 x 3/8" Hex. Hd. Cap Screw	1	SPINDLE PARTS		
SP-615	1/8-14 x 1 1/4" Hex. Hd. Cap Screw	2	BM-23	Special Nut .679"-28 Thread	1
SP-633	1/8-14 x 3 3/4" Hex. Hd. Cap Screw	2-1	CG-40	Special 43/64" Washer .09" Thick	2
SP-637	1/8-14 x 3 3/4" Hex. Hd. Cap Screw	1	DP-42	Jacobs Chuck with key.....	1
SP-712	1/4-20 x 2 3/4" Fil. Hd. Cap Screw....	1	DP-44	Key for DP-42 Jacobs Chuck	1
SP-1002	1/8-14 Hex. Nut	1	DP-610-A	Lower Spindle Assembly	1
SP-1603	1/4" Washer	1	DP-610-S	Quill Assembly, #2 M. T. Hole	1
SP-2423	Taper Pin for Worm and Collar	2	DP-615	Spindle Sleeve	1
SP-3000	No. 6 Rd. Hd. Self-tapping Screw....	2	DP-616	Spindle only	1
TABLE PARTS			DP-622	Garner Spring, 1" Dia. 1/4" Wide	1
DDL-166	Pin	1	DP-623	Drive-pinion Key	1
DP-6	1 x 33/64 x 1/8 Steel Washers.....	1	DP-700-A	Lower Spindle Assembly	1
DP-660	Table Bracket	1	DP-700-S	Quill with Jacobs Chuck Assembly ...	1
DP-660-A	Table Bracket Assembly	1	DP-722	1 1/8 I.D., 1 1/8 O.D. x 1/8" Th. Lockwasher	1
DP-662	Table only	1	ND-88503	Special Sealed Ball Bearing.....	1
DP-663-S	Clamp Handle for table bracket.....	1	ND-C-487503	Special Snap Ring Bearing.....	1
DP-665	Sleeve	1	GUARD AND PULLEY PARTS		
DP-666-S	Index Pin for table.....	1	DDL-105	Special #10-32 x 1/8" Fil. Hd. Cap Sc.	4
DP-736	Washer	1	DP-789	Upper Belt Guard	1
1372	Production Table Only	1	DP-791-S	Mounting Plate Assembly	1
SBS-8	Dowel Pin	1	DP-793	Snap-Spring for guard support rod..	1
SP-103	1/8-18 x 1/4" H'dless Set Screw Cup Pt..	2	DP-794-S	Guard Support Rod	1
SP-201	1/8-18 x 1/8" Soc Set Screw	1	DP-795-S	Guard Support Rod with knob.....	1
SP-615	1/8-14 x 1 1/4" Hx. Hd. Cap Screw....	2	DP-797	Pin for Belt Guard	1
SP-630	3/4-10 x 3 1/2" Hex. Hd. Cap Screw	1	DP-799-R	Front & Rear Parts for Lower Half	1
SP-633	1/8-14 x 3 1/4" Hex. Hd. Cap Screw	1		Guard	1
SP-637	1/8-14 x 3 3/4" Hex. Hd. Cap Screw	1	DP-825-R	Spindle Pulley (Slo-Speed)	1
SP-643	1/2-13 x 4 Hx. Hd. Cap Screw.....	1		Max. Dia. 8 1/8"	1
SP-1002	1/8-14 Hx. Nut	1	DP-826-R	Spindle Pulley (Hi-Speed)	1
SP-1027	3/4-10 Hx. Nut	1		Max. Dia. 6 1/2"	1
SP-1707	3/4 Lock Washer	1	DP-827	1/8 x 1/8 x 2" Straight Key	1
BASE PARTS			SP-201	1/8-18 x 1/8" Soc. Set Screw	1
DP-676	Base Flange	1	SP-509	1/4"-20 x 1/2" Rd. Head. Mach Screws	4
DP-677	Floor-type Base	1	SP-605	1/8"-18 x 1/2" Hex. Head Cap Screw...	1
SP-668	1/2-20 x 1 1/4 Hx. Hd. Cap Screw.....	3	SP-908	1/8" x 1" Round Head Stove Bolt....	2
SP-675	1/8-20 x 3 Hx. Hd. Cap Screw.....	2	SP-1029	1/4"-20 Hex. Nut	4
#1367	3 1/2" x 60" Column—For Floor	1	SP-1030	1/8"-18 Hex. Nut	2
#1368	3 1/2" x 38 1/2" Column for bench mach.	1	SP-1604	Steel Washer 3/4" O.D. x 1/8" I.D. x	3
				1/8" Thick	3
			SP-1702	Lock Washer 1/8" O.D. x 1/4" I.D. x	4
				1/8" Thick	4
			SP-3800	1/8"-18 x 7/8" Trimmed Hex. Head Ex-	1
				ternal Washer	1

(Continued on Next Page)

Table 1. REPLACEMENT PARTS (Continued)

IMPORTANT: Give both the Part Number and the Description of each item when ordering from this list; also the Serial Number of the machine on which the parts are to be used.

Part No.	Description	No. Req.	Part No.	Description	No. Req.
#1311	Motor Pulley, Max. Dia. 6"	1	#1371 FOOT-FEED PARTS		
#1312	Motor Pulley, Max. Dia. 6½"	1	DP-685	Column Bracket only	1
	Specify Bore Size of ½", ⅝" or ¾" for above pulleys.		DP-686	Spline-shaft Lever	1
STOP PARTS			DP-687	Gear Sector	1
DP-604	Yoke	1	DP-688	Spline Shaft	1
DP-625	Special Nut for stop yoke.....	1	DP-689	Treadle Pad	1
DP-628	Stop Rod	1	DP-690	Shaft for treadle lever	1
DP-629	Knurled Nut for Stop rod.....	2	DP-691	Treadle-lever Return Spring	1
DP-721	Stop Nut Washer	1	DP-692	Treadle Lever	1
DP-790	Shock Ring	1	DP-693	Clevis	2
SP-674	⅝-18 x 2¼ Hx. Hd. Cap Screw.....	1	DP-694	Clevis Pin	2
SP-1002	⅝-14 x ⅜ Hex. Nut	1	DP-695	Reach Rod	2
MOTOR BRACKET PARTS			DP-696	Connecting Tube only	1
DP-650	¾-16 Hx. Nut for motor-plate pin....	2	DP-696-S	Connecting Tube, with collars	1
DP-651	Motor Plate	1	DP-697	Tube Collar	2
DP-651-S	Motor Plate Assembly	1	SP-310	⅝-16 x ⅝ Sq. Hd. Set Screw.....	2
DP-652	Motor Plate Pin	2	SP-462	⅝-24 x 2 Flat Hd. Mach. Screw.....	1
SP-908	⅝"x1" Round Head Stove Bolt.....	4	SP-616	½-13 x 1½ Hex. Hd. Cap Screw.....	1
SP-1030	⅝" Hex. Nut	4	SP-642	⅝-16 x 1 Hex. Hd. Cap Screw	1
SP-1604	⅝ Washer	4	SP-667	½-20 x 2½ Hex. Hd. Cap Screw....	2
SP-1753	¾ Shakeproof Washer	2	SP-670	⅝-24 x 1¾ Hex. Hd. Cap Screw.....	2
RAISING MECHANISM			SP-1027	¾-10 Hex. Nut	1
DDL-160-S	Ball Crank Handle	1	SP-1028	½-13 Hex. Nut	1
DDL-174	⅝" I.D., 1" O.D. x ⅝" Steel Washer..	1	SP-1207	⅝ Hex. Nut	1
DP-636-S	Worm-shaft Assembly	1	SP-1227	½-20 Hex. Jam Nut	2
DP-638	Brg. Closure Spanner Nut	1	SP-1707	¾ Lock Washer	1
DP-640-F	Compound Gear Assembly	1	SP-1753	¾" Lockwasher Internal Teeth	2
DP-641-S	Rack with Hook	1	SP-2108	⅝ x 1 Cotter Pin	2
DP-642	Compound-gear Shaft.....	1	MISCELLANEOUS		
DP-648-S	Rack Thrust Bearing Assembly.....	1	#194	⅝" Socket Wrench (Old SP-2)	1
DP-678	Collar for rack thrust bearing.....	1	#501	V-Belt Cir. in. 49⅞", out. 51⅞".....	1
DP-828	⅝-14 Special Nut	1	#520	V-Belt Cir. in. 52¼", out. 54⅞".....	1
TAB-167	Fiber Washers	2	#1526	Double End Wrench ⅝" and ⅝" openings	1
SP-207	⅝-18 x ½" Socket Set Screw	1	#1538	Double End Wrench, ⅝" and ¾" openings	1
SP-631	⅝"-14 x 4" Hx. Hd. Cap Screw.....	1			
SP-2423	Taper Pin for worm and collar.....	2			

CONSULT YOUR DELTA DEALER FOR PRICES OF REPLACEMENT PARTS, ACCESSORIES AND TOOLS TO FACILITATE HANDLING WE SUGGEST ORDERING ALL PARTS THROUGH YOUR DELTA DEALER

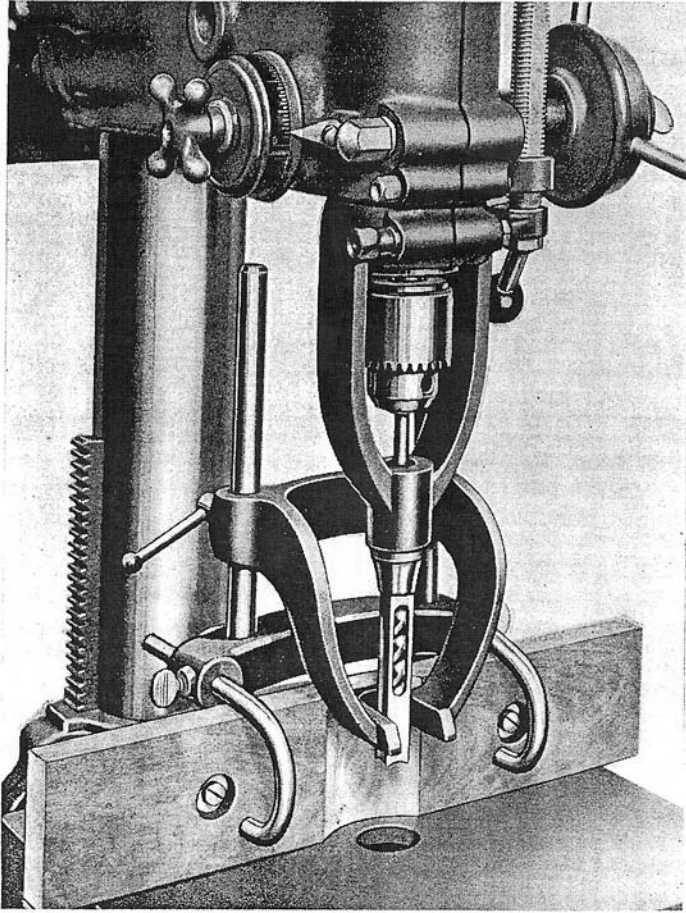


Fig. 8. Mortising Attachment.

The No. 1381 Mortising Attachment for the 17" Drill Press is built for use on all Models of the 17" Drill Press which are equipped with the geared chuck mounted directly on the spindle. There is not enough room to use it with spindles which have the No. 2 Morse taper hole.

If the drill press is equipped with the No. 2 Morse taper spindle, it will be necessary to remove the quill and replace it with the DP-700-S quill which has the $\frac{1}{2}$ inch Jacobs chuck. This procedure makes both spindles available and they can be interchanged with minimum delay. See Fig. 2.

The right is reserved to make changes in design or equipment at any time without incurring any obligation to install these on machines previously sold, and to discontinue models of machines, motors or accessories at any time without notice.

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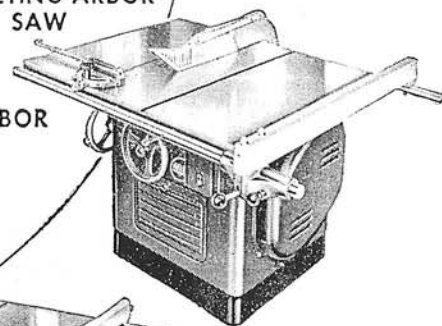
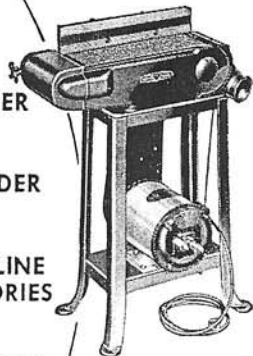
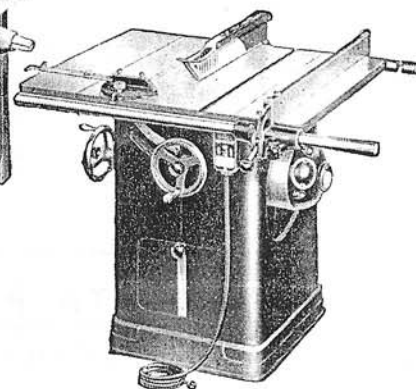
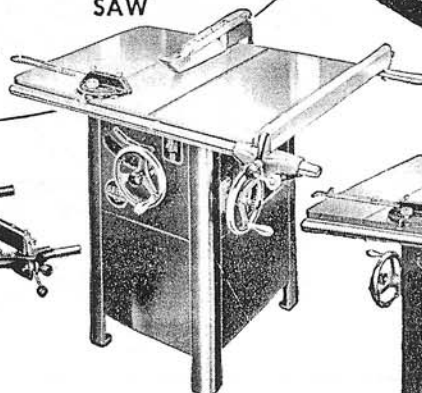
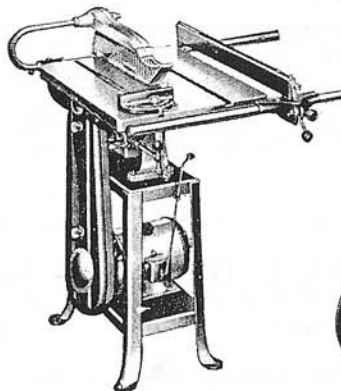
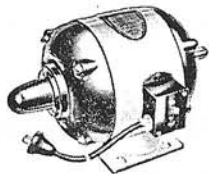
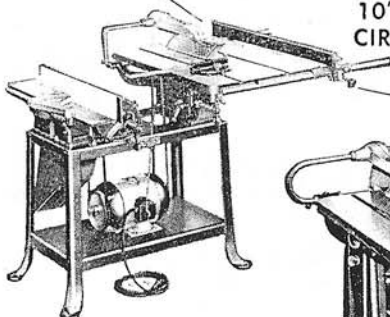
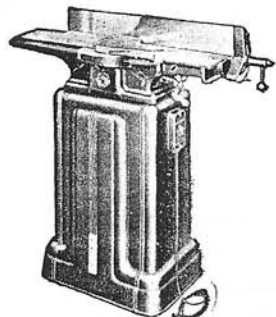
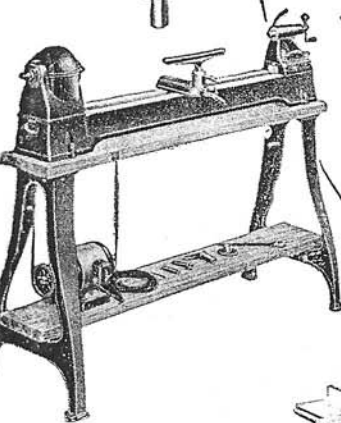
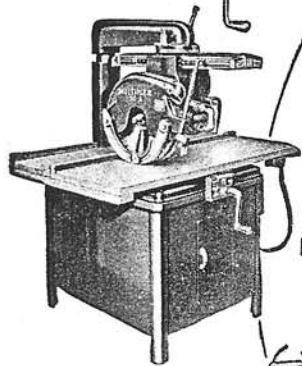
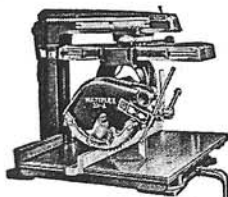
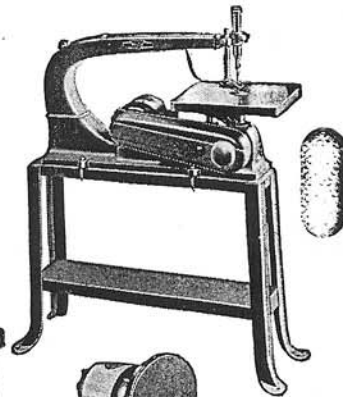
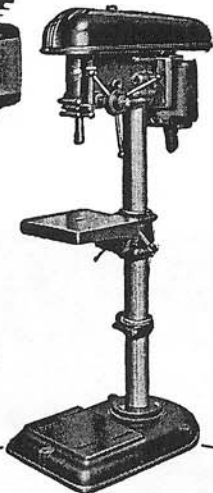
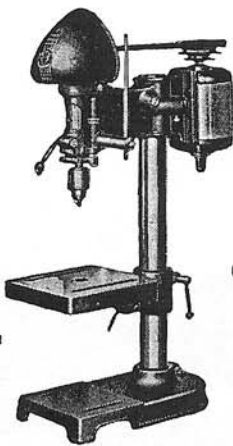
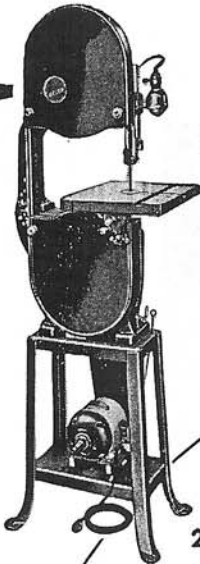
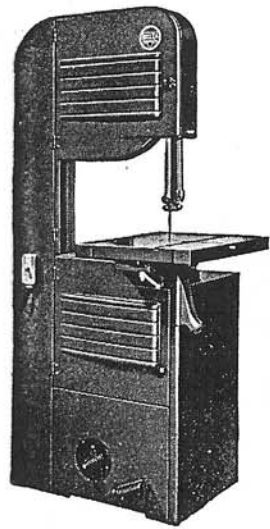


DELTA POWER TOOL DIVISION

Rockwell MANUFACTURING COMPANY

PITTSBURGH 8, PA.

Printed in the United States of America



17" DRILL PRESS

WOOD SHAPER

STANDARD TOOL GRINDER

24" SCROLL SAW

12" DISK SANDER

6" BELT SANDER

COMPLETE LINE OF ACCESSORIES

12" TILTING ARBOR SAW

10" TILTING ARBOR SAW

8" TILTING ARBOR SAW

10" TILT TABLE CIRCULAR SAW

MOTORS

COMBINATION UNIT
6" JOINTER-10" CIR. SAW

6" JOINTER

12" LATHE

BENCH AND FLOOR MODELS

RADIAL ARM SAW

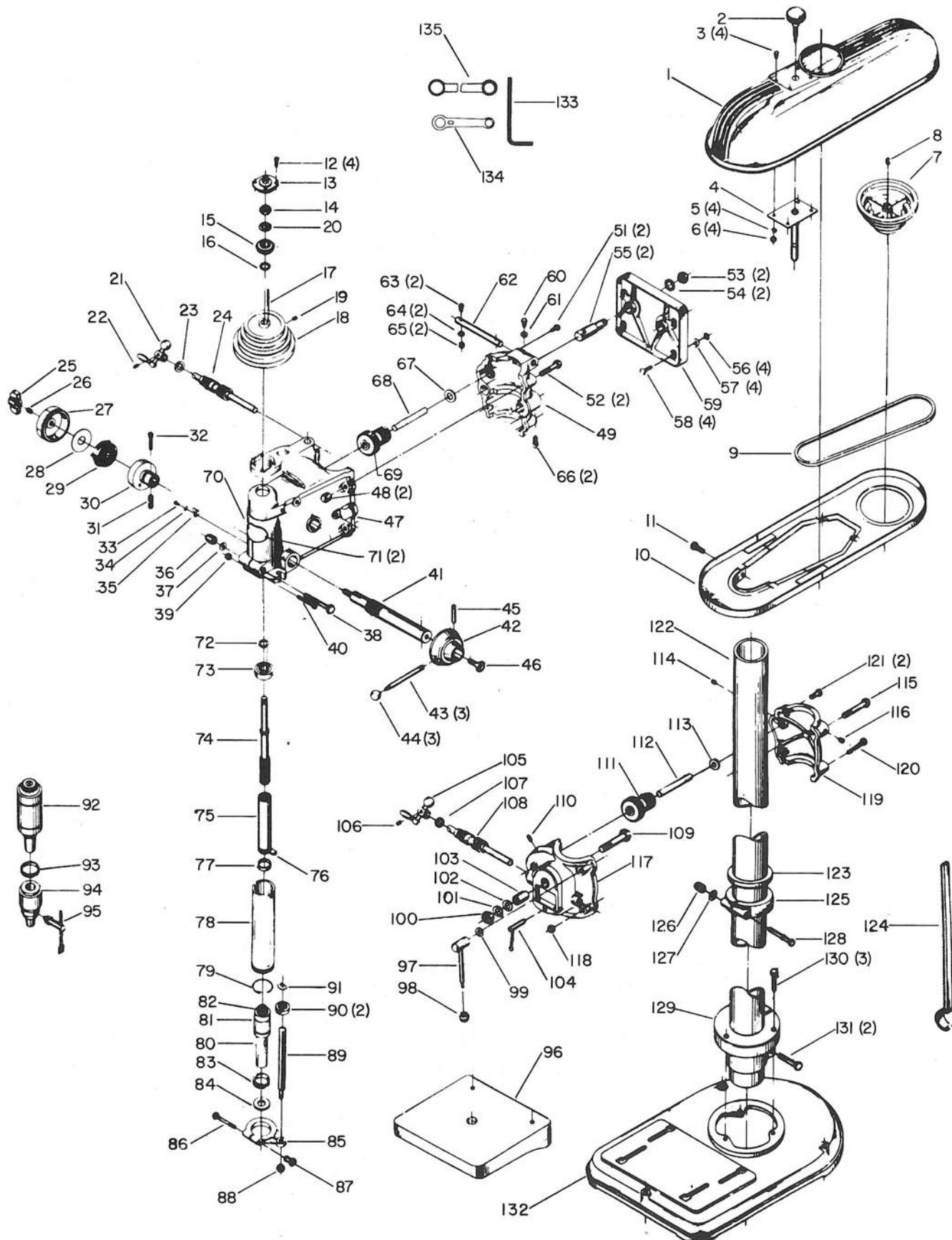
14" BAND SAW

20" BAND SAW

14" DRILL PRESS

DELTA-Milwaukee
Machine Tools for
the Wood Working
Industry

1370, 17-205, 17-206, 17-207 17-208, 17-210, 17-211, 17-212, 17-213 17" DRILL PRESS (old style with DP-600 Z Head Casting)



Replacement Parts

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	400-00-354-5002	Upper Guard	60	901-01-060-0606	5/16-18 X 5/8" Hex Hd. Cap Scr.
2	Cannot Furnish	Pin Assembly	61	904-01-010-1620	11/32 X 11/16 X .0625 Washer
3	901-02-010-0509	1/4-20 X 1/2" Rd. Hd. Scr.	62	402-05-071-5006	Pin for Belt Guard
4	Cannot Furnish	Stud Assembly	63	Cannot Furnish	5/16 X 1" Rd. Hd. Stove Bolt
5	904-02-020-1702	1/4 X 7/16 X 1/16" Lockwasher	64	904-01-010-1620	11/32 X 11/16 X .0625 Washer
6	902-01-120-1034	1/4-20 Hex Nut	65	902-01-010-1300	5/16-18 Hex Nut
7	41-822	1/2" Bore Hi-Speed Motor	66	901-04-020-0310	3/8-16 X 5/8" Set Scr.
		Pulley, Incl:	67	904-07-010-5575	5/8 X 1 X 1/32" Fiber Washer
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	68	402-05-106-5010	Compound Gear Shaft
7	41-823	5/8" Bore Hi-Speed Motor	69	402-05-051-5010	Compound Gear
		Pulley, Incl:	70	Cannot Furnish	Nameplate
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	71	901-06-110-3000	#6 Rd. Hd. Self-Tap. Scr.
7	41-824	3/4" Bore Hi-Speed Motor	72	904-01-030-1645	Special Washer
		Pulley, Incl:	73	920-08-040-5344	Ball Bearing
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	74	402-05-106-5007	Spindle
7	41-825	7/8" Bore Hi-Speed Motor	75	402-05-105-5004	Spindle Sleeve, See Note B
		Pulley, Incl:	76	927-01-201-3720	Drive Pinion Key
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	77	904-15-021-4139	1" Dia. X 1/4" w. Garter Spring
7	Cannot Furnish	1/2" Bore Slo-Speed Motor	78	402-07-077-5001	Quill, See Note B
		Pulley, Incl:	79	904-15-021-4138	Garter Spring
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	80	Use 17-881	Lower Spindle #2 M.T., Incl: (See Note B)
7	41-813	5/8" Bore Slo-Speed Motor	81	402-07-051-5005	Pinion
		Pulley, Incl:	82	901-03-010-0750	5/16-18 X 1" Soc. Hd. Cap Scr.
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	83	902-07-020-7176	Bearing Closure Nut
7	41-814	3/4" Bore Slo-Speed Motor	84	904-07-061-2942	Leather Shock Ring
		Pulley, Incl:	85	402-05-014-5005	Yoke
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	86	901-01-060-0674	5/16-24 X 2-3/4" Hex Hd. Cap Scr.
7	41-815	7/8" Bore Slo-Speed Motor	87	931-02-141-4089	Special Hex Nut
		Pulley, Incl:	88	902-01-040-1004	7/16-14 Jam Nut
8	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	89	402-05-108-5001	Stop Rod
9	49-051	Hi-Speed V-Belt	90	902-08-061-3079	Knurled Nut
9	49-025	Slo-Speed V-Belt	91	904-01-101-4955	Stop Nut Washer
10	400-00-354-5002	Lower Guard	92	Use 17-882	Lower Spindle Ass'y, (See Note B)
11	901-20-210-3800	5/16-18 X 7/8" Fil. Hd. Scr.	93	902-07-020-7176	Bearing Closure Nut
12	901-02-551-2858	#10-32 X 7/16" Fil. Hd. Cap Scr.	94	956-01-011-4153	6A-33 Jacobs Chuck w/Key, See Note B
13	402-05-020-5002	Bearing Cap	95	1200490	Key for Jacobs Chuck
14	902-01-200-9847	Special Nut			
15	920-08-020-5350	Snap Ring Bearing	96	402-05-091-5001	Tilt Table
16	904-01-030-1645	Special Washer	*	402-05-314-5004	Table Bracket Ass'y., Incl:
17	927-03-010-2661	3/16 X 3/16 X 2" Straight Key	97	402-05-327-5002	Handle Incl:
18	926-06-991-4688	Hi-Speed Pulley, Incl:	98	931-01-011-3519	Ball
19	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	99	904-10-031-3893	Special Washer
20	904-05-010-6664	19/32 X 1-3/16 X 1/32" Lockwasher	100	902-01-010-1245	3/4-10 Hex Nut
18	926-06-991-4686	Slo-Speed Pulley, Incl:	101	904-02-020-1707	Lockwasher
19	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.	102	904-01-031-4954	Washer
20	904-05-010-6664	19/32 X 1-3/16 X 1/32" Lockwasher	103	402-05-106-5002	Sleeve
21	930-05-991-4787	Ball Crank, Incl:	104	402-05-371-5002	Index Pin
22	901-04-190-0206	5/16-18 X 5/16" Soc. Set Screw	105	930-05-991-4787	Ball Crank, Incl:
23	902-07-030-7179	Bearing Closure Spanner Nut	106	901-04-190-0206	5/16-18 X 5/16" Soc. Set Scr.
24	402-05-406-5008	Worm Shaft Assembled	107	902-07-030-7179	Bearing Closure Spanner Nut
25	931-03-011-4097	Handknob	108	402-05-406-5008	Worm Shaft Assembled
26	928-01-021-4125	Spring	109	901-01-060-0630	3/4-10 X 3-1/2" Hex Hd. Cap Scr.
27	402-05-331-5002	Return Spring Housing Cover Ass'y.	110	901-04-190-0205	5/16-18 X 1/4" Hdless. Set Screw
28	904-01-021-3581	Spacer Disk	111	402-05-051-5010	Compound Gear
29	928-08-001-4141	Pinion Shaft Return Spring	112	402-05-106-5010	Compound Gear Shaft
30	402-05-012-5003	Return Spring Housing	113	904-07-010-5575	Fiber Washer
31	402-05-112-5003	Spring Adjusting Scr.	114	901-04-190-0207	5/16-18 X 1/2" Soc. Set Scr.
32	901-02-050-0701	1/4-20 X 3/4" Fil. Hd. Cap Scr.	115	901-01-060-0643	1/2-13 X 4" Hex Hd. Cap Scr.
33	901-02-010-0509	1/4-20 X 1/2" Rd. Hd. Scr.	116	901-04-190-0201	5/16-18 X 5/16" Soc. Set Scr.
34	904-01-010-1603	1/4 X 9/16 X 3/64" Washer	117	C.F.† Separately	Bracket, Use 402-05-314-5003
35	402-05-075-5001	Indicator Pointer	118	902-01-020-5438	7/16-14 Jam Nut
36	902-01-040-1004	7/16-14 Clamp Nut	119	C.F.† Separately	Cap, Use 402-05-314-5003
37	904-01-031-2925	29/64 X 3/4 X 1/16" Washer	120	901-01-060-0637	7/16-14 X 3-3/4" Hex Hd. Cap Scr.
38	901-01-060-0633	7/16-14 X 3-1/4" Hex Hd. Cap Scr.	121	901-01-060-0615	7/16-14 X 1-3/4" Hex Hd. Scr.
39	902-01-200-9706	1/4-20 Hex Nut	122	17-763	3-1/2 X 60" Column (Floor Model)
40	901-02-050-0712	1/4-20 X 2-3/4" Fil. Hd. Scr.	122	17-764	3-1/2 X 38-1/2" Column (Bench Model)
41	402-05-406-5006	Pinion, Incl.:	123	920-52-991-3986	Rack Thrust Bearing
**	928-01-021-3378	Spring	124	402-05-351-5003	Rack w/Hook
**	921-01-010-0028	Ball	125	402-05-389-5001	Collar Ass'y., Incl:
42	11-969	Hub Ass'y., Incl:	126	902-01-040-1004	7/16-14 Clamp Nut
43	1202603	Stud	127	904-10-031-2097	Special Washer
44	931-01-011-3519	Ball	128	901-01-060-0631	7/16-14 X 4" Hex Hd. Cap Scr.
45	905-04-041-1983	Pin	129	402-07-005-5002	Base Flange
46	901-04-260-1523	3/8-24 X 5/8" Thumb Scr.	130	901-01-060-0668	1/2-20 X 1-3/4" Hex Hd. Scr.
47	Cannot Furnish	Head	131	901-01-060-0675	7/16-20 X 3" Hex Hd. Cap Scr.
48	902-01-040-1004	7/16-14 Clamp Nut	132	402-07-005-5002	Floor Type Base
49	Cannot Furnish	Cap	133	Cannot Furnish	5/16" Hex Key Wrench
51	901-01-060-0615	7/16-14 X 1-3/4" Hex Hd. Cap Scr.	134	40-526	Wrench
52	901-01-060-0633	7/16-14 X 3-1/4" Hex Hd. Cap Scr.	135	Cannot Furnish	Wrench
53	902-01-201-2583	3/4-16 Hex Nut			
54	904-03-020-1753	3/4" Shakeproof Washer	*	NOT SHOWN ASSEMBLED	
55	402-05-071-5004	Stud	**	NOT SHOWN	
56	902-01-010-1300	5/16-18 Hex Nut	†	C.F. = Cannot Furnish	
57	904-01-010-1620	11/32 X 11/16 X .0625 Washer			
58	901-11-020-0806	5/16-18 X 1-1/2" Car. Bolt			
59	Cannot Furnish	Motor Plate			

SERVICE NOTES:

A - These parts as shown are no longer available. In case of replacement of either the upper or lower guard, part no. 400-00-354-5002 must be ordered as a complete guard assembly.

B - Quill and lower Spindle Assembled use part no. 402-07-377-5001, #2 M.T. and part no. 402-07-377-5002, 1/2" Chuck.