

## Replacement Parts

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	Cannot Furnish	Table Inset, Incl:	70	Cannot Furnish	Front Trunnion, Incl:
2	901-04-410-4561	Set Screw	71	901-04-020-0305	1/4-20 X 1" Sq. Hd. Set Scr.
3	Cannot Furnish	Snap Spring	72	902-01-120-1034	1/4-20 Hex Nut
4	Cannot Furnish	#6-32 X 1/8" Rd. Hd. Scr.	73	Cannot Furnish	Scale
5	Cannot Furnish	Table	74	901-06-450-2250	#4 X 3/16" Drive Screw
6	904-01-010-1605	3/8 x 7/8 x 1/16" Washer	75	904-01-010-1606	7/16 X 1 X 5/64 Steel Washer
7	904-02-020-1704	3/8" Split Lockwasher	76	928-01-021-4125	Coil Spring
8	901-01-060-0658	3/8-24 X 1" Hex Hd. Scr.	77	432-01-027-0004	Serrated Nut
9	Cannot Furnish	Rear Rail	78	981-04-010-3635	Clamp Handle
10	961-01-010-7462	End Plug	79	904-01-010-1603	1/4 X 9/16 X 3/64" Steel Washer
11	422-04-014-9011	Mounting Bracket	80	901-02-010-0509	1/4-20 X 1/2" Rd. Hd. Mach. Scr.
12	901-02-010-0502	1/4-20 X 1/4" Rd. Hd. Scr.	81	422-00-412-5001	Shaft w/Worm
13	Cannot Furnish	Front Rail	82	904-07-011-4248	Fiber Washer
14	422-04-104-5009	Saddle Block	83	434-03-075-5001	Pointer
15	422-04-112-5007	Shoulder Screw	84	904-01-031-2926	21/64" Steel Washer
16	902-01-010-1207	3/8"-24 Hex Nut	85	901-02-010-0517	5/16-18 X 1/4" Rd. Hd. Mach. Scr.
*	422-04-312-5007	Rip Fence Const. of:	86	Cannot Furnish	Screw w/Gear
17	422-04-343-5002	Rip Fence Body	87	929-76-010-6328	Bracket Nut
18	901-01-060-0629	5/16-18 x 3/8" Cap Screw	88	920-51-020-5379	Nice Bearing #502
19	904-01-010-1604	5/16 x 3/4 x 1/16" Washer	89	901-02-050-0704	5/16-18 X 5/8" Fil. Hd. Cap Scr.
*	422-04-312-5002	Fence Block, Const. of:	90	Cannot Furnish	Poluzer Rod
20	901-01-060-0677	3/8-24 x 1-1/2" Cap Screw	91	Cannot Furnish	Sliding Trunnion Bracket
21	904-01-030-1650	Washer	92	41-043	Pulley, Incl.:
22	901-02-010-0551	#10-32 x 1/4" Rd. Hd. Screw	93	901-04-190-0201	5/16-18 x 5/16" Set Screw
23	904-01-010-1610	13/64 x 3/8 x 1/32" Washer	94	902-01-201-2582	Bearing Closure Nut
24	422-04-075-5002	Pointer	95	902-07-020-7176	Spanner Nut
25	422-04-012-5001	Clamp Block	96	920-08-020-5337	New Departure Bearing #87503
26	905-04-101-4453	Eccentric Pin	97	422-00-104-5002	Spacing Sleeve
27	422-04-351-5002	Pinion Assembly	98	927-03-051-3719	3/16 X 3/16 X 1-1/2" Key
28	422-04-042-5001	Eccentric Clamp	99	Cannot Furnish	Arbor
29	422-04-111-5001	Clamp Handle Stud	100	Cannot Furnish	Stud
30	931-01-011-4091	Ball Handle	101	Cannot Furnish	Clb
31	422-04-027-5002	Clamp Shoe	102	422-00-112-5005	1/4-28 X 3/8" Set Scr.
32	901-04-150-0202	1/4-20 x 1/2" Set Screw	103	951-02-010-7816	Height Scale
33	928-01-041-4117	Spring	104	901-06-450-2250	#4 X 3/16" Drive Scr.
34	422-04-112-5002	Clamp Screw	105	902-01-201-2571	Jam Nut
35	901-02-010-0569	8-32 X 3/16" Rd. Hd. Scr.	106	422-04-103-5009	Blade Flange
36	904-01-010-1603	1/4 X 9/16 X 3/64" Steel Washer	107	34-105	Blade
37	1087534	Knurled Knob	108	920-08-020-5337	New Departure Bearing #87503
38	422-04-108-5001	Clamp Rod	109	422-01-079-0001	Hog Ring
39	422-04-010-5002	Rear Slide Block	110	928-07-011-4130	Bearing Loading Spring
40	905-04-071-4459	Clamp Lever Pin	111	Cannot Furnish	Nameplate
41	928-01-041-4118	3/8 X 1" Coil Spring	112	901-06-450-2250	#4 X 3/16" Drive Scr.
42	422-04-067-5001	Rear Clamp Lever	113	901-02-010-0514	1/4-20 X 3/8" Rd. Hd. Mach. Scr.
43	422-03-027-0001	Rear Clamp Hook	114	Cannot Furnish	Guard Plate
44	Cannot Furnish	Rear Trunnion	115	Cannot Furnish	Base
45	Cannot Furnish	Stud	116	Cannot Furnish	Arm
46	Cannot Furnish	Clamp Shoe	117	Cannot Furnish	Guard Basket
47	Cannot Furnish	Coil Spring	118	Cannot Furnish	Steel Pin
48	904-01-010-1606	7/16 X 1 X 5/64" Steel Washer	119	905-05-040-2101	3/32 X 5/8" Cotter Pin
49	422-02-379-0001	Cap Nut, Incl:	120	Cannot Furnish	Nameplate
50	901-04-190-0207	5/16"-18 Set Screw	121	903-01-102-2693	Rivet
51	928-05-001-4106	Spring Washer	122	Cannot Furnish	Pivot Arm
52	904-01-031-2946	Steel Washer	123	904-10-991-5961	Collar, Incl.:
53	901-02-010-0509	1/4-20 X 1/2" Rd. Hd. Mach. Scr.	124	901-04-190-0201	5/16-18 x 5/16" Set Screw
54	904-01-010-1603	1/4 X 9/16 X 3/64" Steel Washer	125	Cannot Furnish	Mounting Bracket
55	981-04-010-3635	Clamp Handle	126	Cannot Furnish	Lock Bolt
56	432-01-027-0004	Serrated Nut	127	904-10-021-5960	Collar
57	928-01-021-4125	Coil Spring	128	901-04-260-1520	5/16-18 x 1/2" Thumb Screw
58	422-00-017-5001	Steel Bushing	129	901-01-060-0673	3/8-24 x 1-1/4" Hex Hd. Screw
59	Cannot Furnish	Eyebolt	130	904-02-020-1704	3/8" Lockwasher
60	980-05-991-4787	Ball Crank Incl:	131	Cannot Furnish	Screw
61	901-04-190-0201	5/16"-18 Set Scr.	132	Cannot Furnish	Finger
62	904-07-010-5568	1/2" Fiber Washer	133	Cannot Furnish	Finger
63	Cannot Furnish	1-1/8"-20 Jam Nut	134	Cannot Furnish	Finger
64	Cannot Furnish	Bushing	135	Cannot Furnish	Finger
65	Cannot Furnish	Pinion Shaft w/Collar	136	Cannot Furnish	Finger
66	904-07-011-4248	Fiber Washer	137	Cannot Furnish	Splitter
67	Cannot Furnish	Collar, Incl:	138	902-01-120-1209	1/4-28 Hex Nut
68	901-04-150-0231	5/16-18 X 3/8" Set Scr.	139	902-01-120-5436	#8-32 Hex Nut
69	Cannot Furnish	Stud	140	422-04-071-5006	Steel Pin
			141	422-04-083-5001	Shim Washer
			**	49-035	V-Belt

\* NOT SHOWN ASSEMBLED

\*\* Not Shown

LITHO U. S. A.

## 10" TILTING TABLE CIRCULAR SAW Operating and Maintenance Instructions

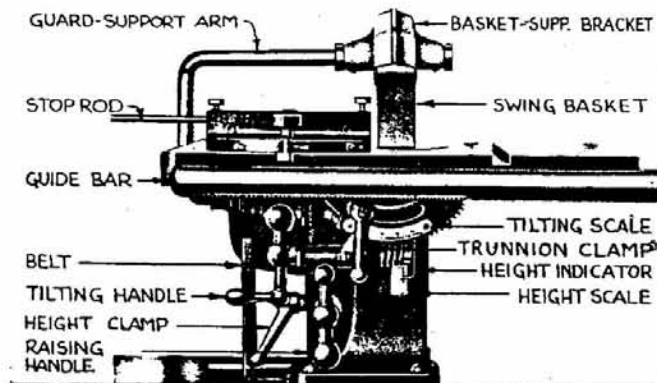


Fig. 1

Front and rear rip fence guide bars are packed in a separate carton inside the main crate. The bar with the teeth and graduations goes to the front, with the graduations on top. Slip the screws through the holes drilled in the edges of the table and tighten the nuts firmly. Remove the rip fence from its wrapping and slide it over the right end of the guide bars. See that the bakelite knob of the clamp is up, to release the clamp, while doing this, and that the screw knob operating the rear clamp is loose so that the rear clamp hook will slide easily under the rear guide bar. The rip fence can be used on either side of the saw blade, but it is more usual to place it on the right.

### PLACING TABLE ON SAW

Remove the rear trunnion clamp nut, NCS-357, together with its washer and spring, and the trunnion clamp TCS-206, all of which are on the rear trunnion clamp stud on the table. Unscrew the front-trunnion clamp lever, SR-217, then lift the table and set it in place, moving it from front to back so that the front trunnion clamp stud slips through the slot in the front trunnion; then let the rear trunnion down onto its seat. Replace the rear-trunnion clamp, spring, washer and nut. Run nut up *hand tight* only, or with a very light wrench pressure, so that the table will swing freely on the trunnions.

To replace the front clamp lever, loosen the round-head screw and washer SP-509 and SP-1603 holding the lever to the serrated nut. Do not unscrew the round-head screw completely, but back it out a few turns, then turn the lever upside down and give the screw a smart rap on the bench; this will knock the serrated nut out from the lever. Now remove the screw completely, take out the serrated nut and screw it onto the clamp stud until it is hand tight. Replace the clamp lever over the nut in any convenient position and re-insert screw and washer.

### POWER AND SPEED

For the average run of small work encountered in the home workshop a  $\frac{1}{2}$  H. P. repulsion-induction motor will furnish ample power. Where the full  $3\frac{1}{4}$ " capacity of the saw is used, as for example, in small cabinet-shop work, it should be equipped with a  $\frac{3}{4}$  H. P. motor. In commercial and industrial shops it is recommended that a  $\frac{3}{4}$  H. P. or 1 H. P. three phase motor be installed, especially if the machine is to be placed in permanent position.

The saw is built to operate at a speed of 3100 r.p.m., which gives a cutting speed of 8100 feet per minute with the 10" saw blade. Our No. 5500 (5" diam.) pulley, when used with a 1725 r.p.m. motor will drive the saw at the correct speed. Some factories use higher speeds than this, but it should be borne in mind that the higher the speed the more power is required.

The saw blade should revolve toward the front of the machine, so if the motor turns the wrong way it should be turned around, or, if this is impossible owing to the location of the switch, etc., it should be reversed in accordance with the maker's instructions. Do not twist the V-belt. It is important that the saw blade be kept sharp at all times, as a dull blade requires from two to five times as much power as a sharp one. It takes only a few minutes to touch up a dull saw with a file, following the original shape of the teeth carefully, and the result is worth while in making easier work and in the saving of power.

### CHOICE OF BLADES

The No. 1015 blade furnished with the machine is a combination blade, suitable for either ripping or crosscutting, and saves a great deal of time in the general shop, where the amount of ripping and cross-cutting is about equal.

A 10" smooth cutting blade of the hollow-ground type No. 1016 should be used only for fine, exact work in comparatively thin material, say up to 2" thick. When doing work using heavy material up to 3 1/4" which is the full capacity of the 10" blade, the No. 1015 combination blade furnished with the machine is recommended . . . or . . . when the saw is used almost exclusively for either ripping or crosscutting it is advisable to purchase a standard ripping blade No. 1017 or a cross-cut blade No. 1018.

#### PLACING BLADE ON ARBOR

To place the blade on the arbor, remove the metal insert in the saw table by pressing upward on the front of the insert from below. Remove the arbor nut and washer, then slip the blade in place with the teeth pointing forward, and replace the washer and nut.

The hollow side of the washer should be toward the saw blade. It is not necessary to raise the saw to remove or replace the saw blade, as there is plenty of room to do this through the opening.

#### ADJUSTING INSERT

If the insert is not exactly level with the saw table, it can be made so by turning it upside down and screwing in or out the four headless setscrews on the underside a little at a time until the insert lies perfectly level with the table surface. When replacing the insert, slip the short pin on one end under the machined recess in the rear end of the table opening, then press down on the front edge to snap it in place.

#### ADJUSTING TABLE HEIGHT

To raise or lower the table, loosen the clamp lever SR-217 on the left side of the machine, then turn the ball-crank handle DDL-160-C-S clockwise to raise and counter-clockwise to lower the table. When the table is at the desired height, tighten the clamp lever again to lock the height adjustment.

The scale and pointer will be found of great value in setting the table height for certain types of work. The pointer should be set for each blade or cutter as soon as the latter has been tightened on the arbor. Raise the table until the table surface is exactly even with the top teeth of the blade, then set the pointer to the zero mark on the scale. Then, as the table is lowered, the pointer will indicate exactly how much the saw blade projects above the table. This is of especial value in dado and similar grooving, as it eliminates guesswork.

#### TILTING THE TABLE

By loosening the clamp lever SR-217 on the front trunnion, and turning the ball-crank handle DDL-160-C-S on the worm shaft the table can be tilted to any angle up to 45 degrees. The front clamp lever only need be tightened when the table has been tilted to the required angle.

To set the adjustable pointer accurately to the tilting scale, set the table square with the blade by using an accurate square, then cut a trial piece of wood and check the setting by testing the cut with the square. When the table has been accurately set, adjust the pointer to the zero mark on the scale and tighten it firmly.

Set the stop screw J-160 at the same time, so as to bring the table to the level position automatically after tilting. Once this adjusting screw has been properly set and locked with its lock nut, the table is always square thereafter, without reference to the scale.

Set the table to 45 degrees, check the setting on a trial cut, then set the 45-degree stop screw and it with its nut. The table will now be set to stop automatically at 45 degrees.

#### IMPORTANT

When returning the table to the level position after tilting, do not **force** the table against the stop, but be sure that it is just lightly against the stop screw. If the table is forced against the stop by turning hard on the crank handle after the stop has been reached, it is possible to raise the trunnions slightly from their seats, and thus throw the table out of alignment.

#### ADJUSTING TABLE

The table of this saw is made so that it can be accurately aligned with the saw blade, should it ever become out of adjustment. To adjust the table, loosen the capscrews SP-658 on the underside of each trunnion, Fig. 2, just enough so that the table can be moved to one side or the other by striking the edge with a block or mallet.

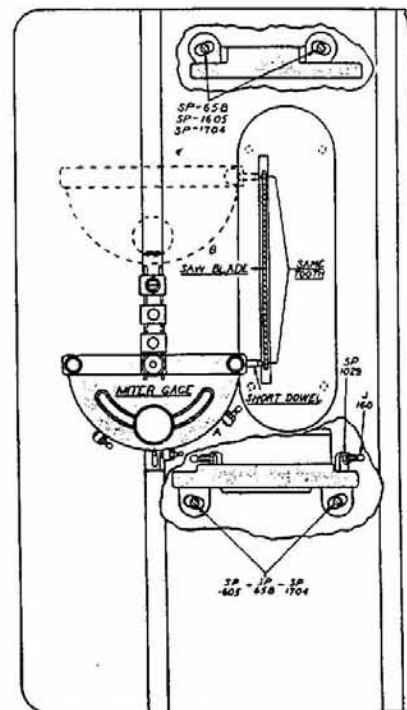


Fig. 2

Cut a short length of 1/4" or 5/16" dowel rod and insert in the stop-rod hole of the miter gage as shown in Fig. 2. Run the gage up alongside the front edge of the saw blade and adjust the dowel until it just touches the point of a tooth which is set toward the gage. Now turn the saw blade backward until the **same tooth** comes to the rear of the table slot, move the gage with the dowel back to the position shown by the dotted lines, and see if the dowel point touches the tooth exactly as it did at the front. If it does not, tilt the table sidewise at either front or rear and test with the gage until the dowel touches the tooth equally at front and rear of slot. When adjusting, watch that the saw blade stays central in the table slot.

Once adjusted, re-tighten the capscrews SP-658 and adjust the rip fence as described below:

### ADJUSTING RIP FENCE

To re-align the rip fence, loosen the two front cap screws SP-677 on top of the bar, clamp the front block to the guide bar by pressing down the clamp lever, and see that the rear clamp is loose. Measure from a tooth on the front of the saw to the rip fence bar, and then, turning the saw backwards, *from the same tooth* to the rip fence at the rear of the table slot. Move the rear end of the fence to one side or the other until measurements are alike, then re-tighten cap screws.

Set and tighten the rip gage, after adjustment, so that it just touches the right-hand side of the saw blade, then set the pointer to zero mark on guide-bar scale and tighten it securely.

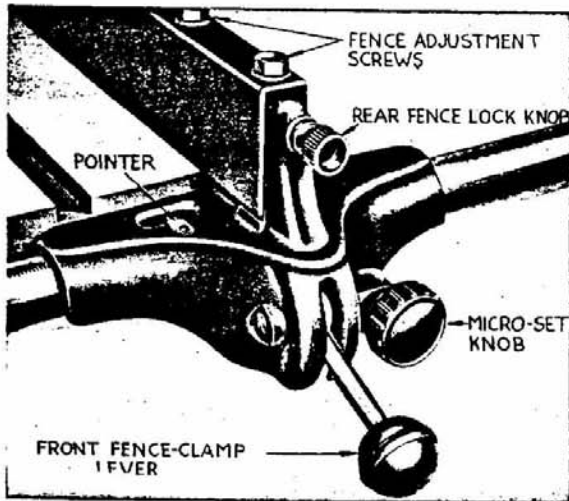


Fig. 3

### USING MICRO-SET ADJUSTMENT

See that the rip fence clamps are both loosened sufficiently for free movement, then press in on the "Micro-Set" knob, Fig. 3, to engage the pinion with the rack teeth. Turn the knob clockwise to move the bar to the left and counter-clockwise to move it to the right. Pull out the knob to disengage the pinion when making quick adjustments of the fence.

### ADJUSTING MITER GAGE

The miter gage furnished with this saw is the most useful tool of its kind ever designed. The stop screws, Fig. 4, should be adjusted very carefully the first time it is used, as the usefulness of the gage depends upon the accuracy of this adjustment. The stop screws are not accurately set when the gage is received.

Flip the stop link NCS-170 away from the 90 degree stop screw, and set the gage to 90 degrees. Make a trial cut on a piece of wood, check the cut with a square, and re-set the gage until the cut is accurate. Now turn the stop link up, and adjust the stop screw SP-723 against it, then lock the screw with the nut and make another trial cut to check the setting. If correct, set the pointer to the 90-degree mark by loosening the screw that locks it in the bar and moving the pointer, then tighten the screw again.

To adjust the 45-degree stops, proceed in the same manner. Make trial cuts and re-set the gage until the trial cuts are absolutely accurate, then set the stop screws, lock them, and check them by trial cuts.

The graduations are as accurate as it is possible to make them commercially, but no graduations can approach the accuracy it is possible to obtain by means

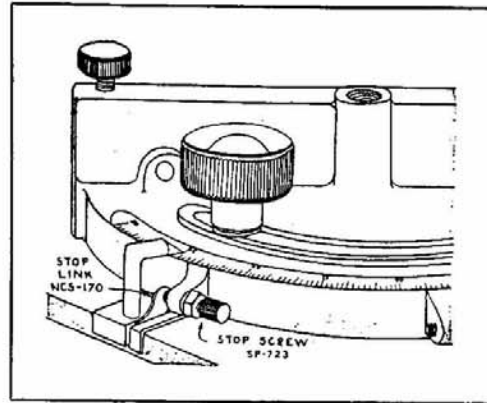


Fig. 4

of the stop screws and link. Once made, the stop-screw settings are permanent, and need only be checked if the miter gage receives a severe jar.

The pivot screw (NCS-168) that holds the miter-gage head to the bar is adjustable to compensate for wear, or to make the degree of looseness of the head to suit the wear. To adjust this screw, loosen the headless setscrew (NCS-177) in front face of the miter-gage body, which locks the pivot screw.

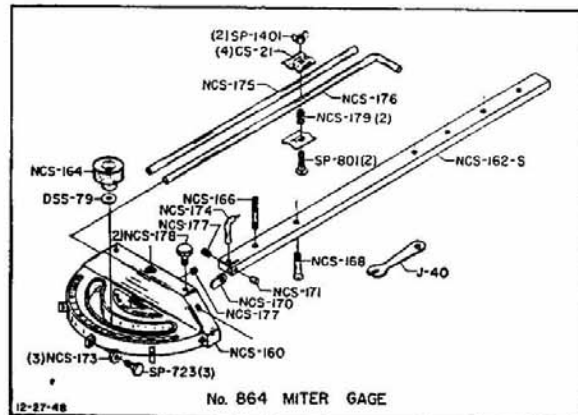


Fig. 5.

### STOP RODS

The miter gage stop rods are used to cut a number of pieces to any desired length. They may be used on either side of the miter gage.

### CAUTION

When setting the stop rods, see that they do not come in contact with the blade when the gage is moved forward. This is a very common cause of damage to saw blades.

### MITER GAGE CLAMP ATTACHMENT

When bevel mitering the ends of wide work, and in other operations where accurate miters or angle cuts are required, the No. 865 Clamp Attachment for the miter gage should be used. This accessory is not furnished with the machine, but may be ordered extra.

The clamp attachment consists of the shaded parts shown in Fig. 6. It is mounted on the No. 864 miter gage to hold the piece of work as indicated. Installation or removal requires only a few minutes.

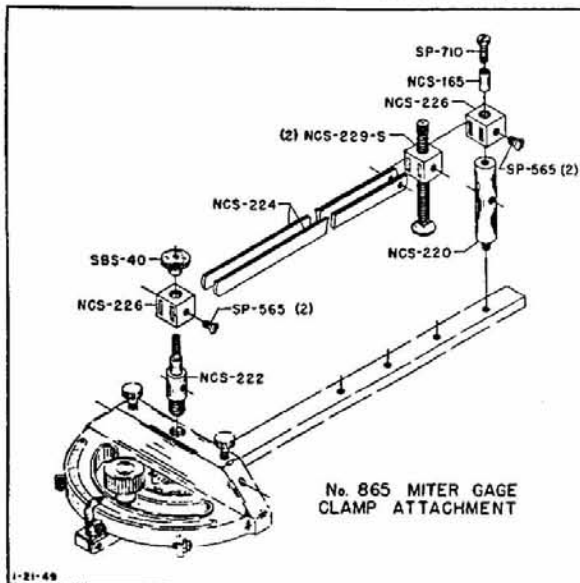


Fig. 6

Turn the  $\frac{1}{2}$ "-20 threaded end of the clamp rail post NCS-222 into the large center hole of the miter gage body. Thread the other clamp rail post NCS-220 into the miter gage bar, selecting the hole according to the width of the work. Use a drift pin through the side holes of these posts when tightening or removing them.

Mount the clamp screws NCS-229-S on the rails by means of their sliding blocks. Slip the rail mounting blocks NCS-226 onto the ends of the rails. Attach the front block over the threaded upper end of the front post and tighten with the knurled hand knob SBS-40. Fasten the rear block, with spacing sleeve NCS-165 inside, to the rear post, using the fillister screw SP-710.

It is not necessary to dismantle the attachment when removing it or adjusting for width of work. Merely loosen the hand knob and fillister screw so that the posts may be turned by means of the drift pin.

Set the rear post and clamp screws as close to the edge of the work as possible, to avoid springing the miter gage bar and rails. For the same reason, tighten the clamps by hand just enough to hold the work firmly; very little pressure is required.

Loosen both knobs SBS-40 and NCS-164 (Fig. 5) when changing the miter gage angle setting.

The miter gage clamp attachment should always be used for work that must be cut off or mitered to exact measurements. It eliminates completely any tendency of the work to creep toward or away from the blade, makes miter and other joints absolutely accurate, and makes the operation safe, since the hands need not come near the blade.

#### SWING GUARD

The No. 1165 Swing Guard is shown in Fig. 10, upper right corner. To install, the mounting bracket TCS-242 should be attached to the left side of the machine with the cap screws SP-673. The bent arm TCS-243 is then slid through the bracket, the end

collar on the arm removed and the guard-basket bracket slid in place. Adjust the basket and arm so that the basket covers the saw blade properly, then set and lock the collars keeping the basket bracket on the arm and the arm in the guard-support bracket as shown in the drawing. The basket should be adjusted so that it clears the left side of the blade by about  $\frac{1}{8}$ "; it will then cover the dado head also.

#### SPLITTER ATTACHMENT

The No. 1166 splitter is an extra attachment not furnished with the machine. Mount it as shown at the top of Fig. 10, by sliding one collar onto the lower portion of the bent arm TCS-243, hooking the upper part of the splitter blade under the upper part of the arm, below the basket-support bracket, then slipping the hole in the blade over the lower end of the arm and putting on the outer collar. The splitter should be adjusted exactly in line with the saw blade, and the collars holding it should be adjusted so that the blade "floats" slightly. The anti-kickback fingers are attached to the blade by means of screw TCS-251, with the teeth pointing as indicated in the drawing.

#### USE OF MOULDING CUTTER

Since there is no cutout in the rip fence body, it is necessary when using the moulding cutter to add a wooden face to each side. These should be 1" thick and  $2\frac{1}{2}$ " wide, planed straight and true and fastened on each side of the fence with screws through the holes drilled in the fence. Each face should be cut out as indicated in Fig. 7 over the cutter head.

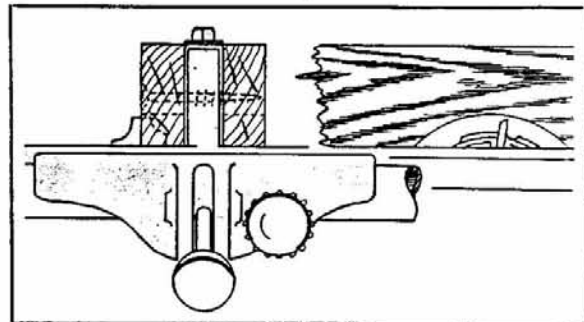


Fig. 7

Care should be taken in adjusting the fence that the bar does not strike the revolving cutter.

#### EXTENSION TABLES

The guide bars are provided with brackets (TCS-283) so that, if necessary, an extension can be added to the side of the regular table as shown in the photo, Fig. 8. This illustration shows all of the space between the guide bars filled in with a wood table  $\frac{3}{4}$ " thick. When the saw is mounted on the No. 891 steel stand as a separate unit, the whole space should not be filled in as shown, or else the table cannot be tilted to a full 45 degrees, as the auxiliary table will then strike the edge of the stand. If any additional support is necessary when the saw is used on the No. 891 steel stand, this should be provided by a wood strip about  $\frac{3}{4}$ " by 6", fastened between the guide bars on the outer brackets only.

Since this additional support is necessary only for wide or long work, this strip will be found to provide all that is necessary. It does not add as much weight

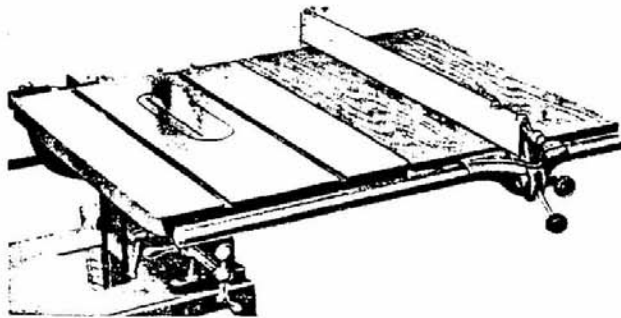


Fig. 8

to the right-hand side of the table as a complete auxiliary table, and it is preferable for that reason.

#### USE OF TENONING JIG

With the use of the tenoning jig, Fig. 9, on the circular saw the cutting of tenons becomes perfectly safe, because the hands never come near the saw table as they do in the ordinary method of cutting tenons, and the cuts are exactly parallel and vertical.

The work is set with its lower end resting on the base plate, and with its rear edge against the vertical the ball crank and screw clamp, the jig body unclamped and slid forward toward the blade until the guide surface of the jig body. It is then clamped by work is in the correct position, then re-clamped. The

whole jig may then be slid across the table, making the tenon cut quickly and safely.

Both cheeks of the tenon may be cut at the same time by using two blades with a collar between. Tenon-Collar Set No. 1171 consists of one  $\frac{1}{4}$ " and one  $\frac{3}{8}$ " collar, to be used between sawblades for making  $\frac{3}{4}$ " and  $\frac{5}{8}$ " tenons. Tenons may be made tight or loose by adding paper washers between the blade and collar. The collars are slightly undersize in thickness to permit adding the paper washers to make the proper fit.

#### LUBRICATION

The New Departure sealed ball bearings used on the arbor of this saw are packed with enough lubricant at the factory for the entire life of the bearing, and require no attention until they are replaced.

A drop of light oil occasionally applied to the bearings of the shaft operating the raising mechanism, the tilting-worm shaft, etc., will keep them operating properly, and a drop of oil should occasionally be placed on the ways on which the table is raised and lowered, the raising screw and the helical gear and worm.

#### REPLACING BEARINGS

Remove the arbor pulley with its key, also the saw blade, and take off the table for greater convenience. Loosen and remove nut TCS-224 on the pulley end of the arbor and the nut BG-12 that holds the left-hand bearing in place in the housing. Tap gently on the pulley end of the arbor to move it to the right; it will come out carrying with it the right-hand bearing, bearing loading spring SR-250 and spacing sleeve

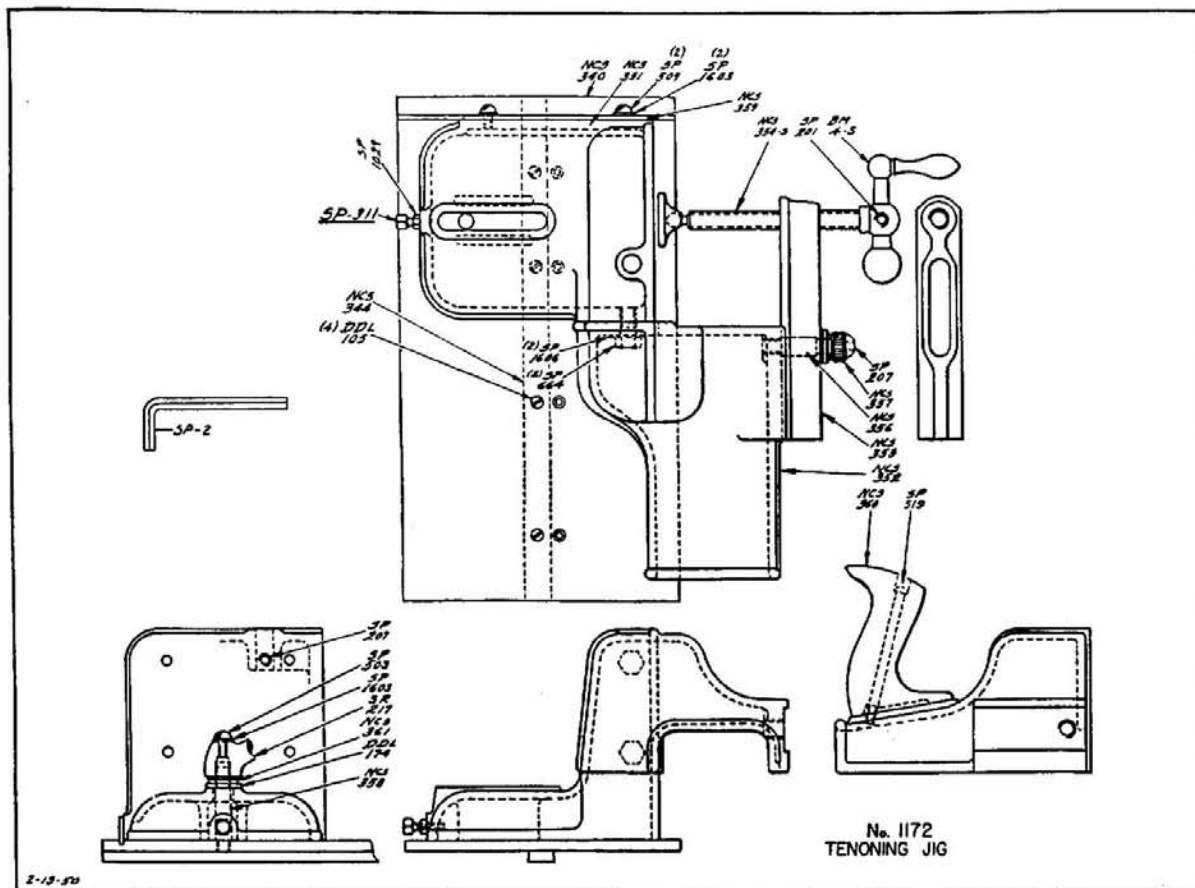
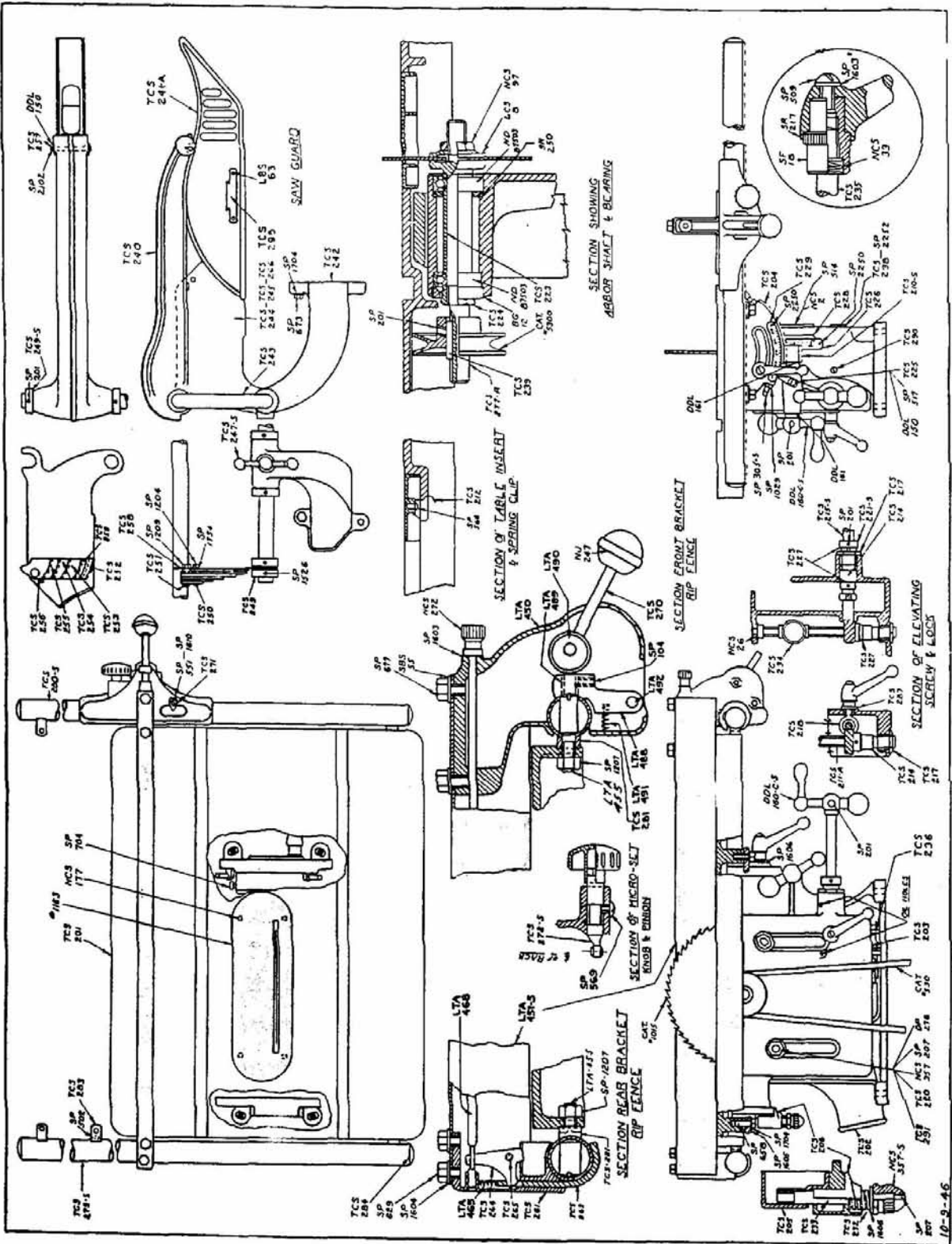


Fig. 9





TCS-223. The left hand bearing may be removed by tapping gently through the housing with a wooden drift, and the right-hand bearing removed from the arbor in an arbor press.

When installing the new bearings, be very careful not to spring them in any way. Note that the longer side of the inner races goes to the outside of the arbor in each case, the longer side of the race in the

right-hand bearing pointing to the right and the longer side of the left-hand bearing to the left. Slide the left-hand bearing in place straight and true and do not force it if it becomes "edged" in the housing. Slip the right-hand bearing on the arbor, see that it seats properly against the flange, then slip on the spacer sleeve and the pre-loading spring and replace the arbor in the housing.

**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.
<b>BASE</b>			<b>TABLE</b>		
TCS-202	Base.....	1	TCS-201	Tilting Table, 27 x 20".....	1
TCS-220	Stud, 3/16" x 4 1/8", Threaded Both Ends.....	2	TCS-212	Snap Spring, 3/16" Wide, for Table Inserts.....	1
TCS-223	Spacing Sleeve, .685" I.D., 3/8" O.D. x 2.7".....	1	TCS-279	Rear Guide Rail, 1 3/8 x 36" Steel Tube.....	1
TCS-224	Bearing Closure Nut, Hexagon Head.....	1	TCS-279-S	Rear Guide Rail, w/End Plugs, Saddle Blocks and Mounting Screws, Complete.....	1
TCS-226	Height Scale, 3/4 x 4 3/8".....	1	TCS-280	Front Guide Rail, with Rack & Scale Divs.....	1
TCS-236	Gib, 3/16 x 1/2 x 9 1/4", for Table.....	1	TCS-280-S	Front Guide Rail, with End Plugs, Saddle Blocks and Mounting Screws, Complete.....	1
TCS-238	Name Plate, 1 3/4 x 6 13/16", Horizontal.....	1	TCS-281	Saddle Block for Guide Rail.....	4
TCS-239	3/16 x 3/16 x 1 1/8" Straight Key.....	1	TCS-283	Mounting Bracket for Wooden Table Ext.....	4
TCS-277-R	Arbor, 8 1/2" Long, with Saw Blade Flange.....	1	TCS-284	End Plug for Guide Rail.....	4
TCS-290	Special 1/4-28 x 3/8" Headless Set Screw.....	3	LTA-455	Special 3/8-24 x 1 1/4" Fill. Head Cap Screw.....	4
BG-12	Spanner Nut, 1 1/2" I.D., 1.6" O.D.-20 Thrd.....	1	NCS-177	Special 1/4-28 x 1/4" Headless Set Screw.....	4
LCS-8	Saw Blade Flange, 1 3/4" Diam., 5/8" Bore.....	1	SP-502	1/4-20 x 1/4" Round Head Machine Screw.....	4
NCS-2	Guard Plate, 3 3/8 x 9 3/8", Hook Ends.....	1	SP-566	#6-32 x 1/2" Round Head Machine Screw.....	1
NCS-97	Special .630"-12 Hex. Jam Nut, Acme Thrd.....	1	SP-658	3/8-24 x 1" Hexagon Head Cap Screw.....	4
NCS-357	Special 3/16"-20 Cap Nut, 3/16"-18 Tapped Hd.....	2	SP-1207	3/8"-24 Hexagon Nut.....	4
NCS-357-S	Special 3/16"-20 Cap Nut, with Set Screw.....	2	SP-1605	3/8" Steel Washer.....	4
SR-250	Bearing Loading Spring, 1" I.D.....	2	SP-1704	3/8" Split Lockwasher.....	4
ND-87503	New Departure Ball Bearing.....	2	<b>RIP FENCE</b>		
SP-207	3/16-18 x 1/2" Hexagon Socket Set Screw.....	2	TCS-261	Rear Clamp Block.....	1
SP-514	1/4-20 x 3/8" Round Head Machine Screw.....	2	TCS-261-R	Rear Clamp, Hook, Spring & Mtg. Screws.....	1
SP-2250	#4 x 3/16" Drive Screw.....	5	TCS-263	Hook for Rear Clamp.....	1
<b>TRUNNION BRACKET</b>			TCS-264	Lever for Rear Clamp.....	1
TCS-203	Sliding Trunnion Bracket.....	1	TCS-265	Steel Pin, 1/4 x 3/64".....	1
TCS-204-S	Front Trunnion, with Tilt Scale & Stop Screw.....	1	TCS-270	Stud, 3/8-24 x 3 3/8", Threaded Both Ends.....	1
TCS-205	Rear Trunnion.....	1	TCS-271	Pointer, 3/8 x 3/8", Bent.....	1
TCS-206	Clamp Shoe for Rear Trunnion.....	1	TCS-272-S	Pinion Shaft, with Hand Knob.....	1
TCS-210-S	Worm, with Shaft, for Tilting Mechanism.....	1	LTA-450	Front Clamp Block.....	1
TCS-211-A	Screw, w/Spiral Gear, for Raising Mechanism.....	1	LTA-450-R	Front Clamp, with Mounting Screws.....	1
TCS-214	Bushing, 1 1/2" I.D., 1 1/8" O.D.-20 Thread.....	2	LTA-450-S	Rip Fence, 30 1/2" Long, Complete.....	1
TCS-215-S	Pinion Shaft, w/Collar, for Raising Mechanism.....	1	LTA-451-S	Rip Fence Body, 1 x 2 1/2 x 30 1/2".....	1
TCS-217	Special 1 1/8"-20 Hexagon Jam Nut.....	2	LTA-465	Coil Spring, 3/8" Diameter, 1" Free Length.....	1
TCS-218	3/16-14 x 1 3/8" Eye Bolt, .660" Eyelet.....	1	LTA-468	Rear Clamp Rod, 1/4-20 x 32 1/2", with Slot.....	1
TCS-220	Stud, 1/8-20 x 4 1/8", Threaded Both Ends.....	2	LTA-488	Front Clamp Shoe.....	1
TCS-221-S	Set Collar, 1 1/2" I.D., with Set Screw.....	1	LTA-489	Special 3/8-27 x 1 1/4" Headless Set Screw.....	1
TCS-225	Pointer, 1/2 x 1 1/2", 3/64" Hole, Flat.....	1	LTA-490	Eccentric Collar, for Front Clamp.....	1
TCS-227	Special 3/64" Fiber Washer.....	3	LTA-491	Coil Spring, 1/8" Diam., 1 1/2" Free Length.....	1
TCS-228	Pointer Rod, 3/16 x 3 3/4", Bent.....	1	LTA-492	Steel Pin, 3/8 x 1 1/2", Knurled One End.....	2
TCS-229	Tilt Angle Scale, 3/16 x 3 3/4".....	1	NCS-272	Knurled Hand Knob, 3/4" Dia., 1/4"-20 Thrd.....	1
TCS-232	Coil Spring, 1 1/8" Diam., 1 1/2" Free Length.....	1	NJ-247	Handle Ball, 1 1/2" Dia., 3/8"-24 Tapped Hole.....	1
TCS-233	Stud, 1/8-20 x 3 3/4", Threaded Both Ends.....	1	SBS-55	Special 3/64" Steel Washer.....	2
TCS-234	Bracket Nut, for Table Raising Mechanism.....	1	SP-104	1/4-20 x 1/2" Headless Set Screw.....	1
TCS-235	Stud, 3/16-14 x 2 3/8", Threaded Both Ends.....	1	SP-551	#10-32 x 1/4" Round Head Machine Screw.....	1
TCS-287	Steel Bushing, 1 1/2" I.D., Flanged.....	1	SP-569	#8-32 x 3/8" Round Head Machine Screw.....	1
TCS-291	Special 3/64" Steel Washer.....	2	SP-629	3/16-18 x 3/8" Hexagon Head Cap Screw.....	2
DDL-150	Special 3/64" Steel Washer.....	1	SP-677	3/8-24 x 1/2" Hexagon Head Cap Screw.....	2
DDL-160-C-S	Ball Crank, with Loose Grip and Set Screw.....	2	SP-1603	1/4" Steel Washer.....	1
DDL-161	Special 1/8" Fiber Washer.....	2	SP-1604	3/16" Steel Washer.....	2
DP-276	Special 3/64" Spring Washer.....	2	SP-1610	1 3/64" Steel Washer.....	1
NCS-26	Combination Ball Bearing, Nice #502.....	1	<b>NO. 1173 BELT GUARD</b>		
NCS-33	Coil Spring, 3/4" Diameter, 1/2" Free Length.....	1	TCS-316-A	Belt Guard Pan, with Mounting Bracket.....	1
NCS-357	Special 3/16"-20 Cap Nut, 3/16"-18 Tapped Hd.....	1	TCS-317-A	Belt Guard Cover, with Hinges and Stops.....	1
NCS-357-S	Special 3/16"-20 Cap Nut, with Set Screw.....	1	TCS-318	Spacing Sleeve, 1 1/2" I.D., 3/4" O.D. x 1 1/8".....	2
SP-18	3/16"-18 Serrated Nut, 1/4"-20 Tapped Head.....	2	LBS-177	Hand Knob, 1 1/2" Diameter, 3/8"-16 Thread.....	1
SR-217	Ball-End Adjustable Clamp Handle.....	2	LBS-230	Spacing Collar, 1 1/2" I.D., 3/4" O.D. x 1 1/2".....	1
SP-201	3/16-18 x 3/16" Hexagon Socket Set Screw.....	1	PF-62	Snap Spring, 5/8" Wide.....	1
SP-207	3/16-18 x 1/2" Hexagon Socket Set Screw.....	3	SP-506	3/16-18 x 3/8" Round Head Machine Screw.....	3
SP-305-S	Screw Assembly.....	2	SP-512	3/16-18 x 1/2" Round Head Machine Screw.....	1
SP-509	1/4-20 x 1/2" Round Head Machine Screw.....	2	SP-523	3/16-18 x 1 1/2" Round Head Machine Screw.....	3
SP-517	3/16-18 x 1/4" Round Head Machine Screw.....	1	SP-561	#10-32 x 3/8" Round Head Machine Screw.....	4
SP-704	3/16-18 x 5/8" Filister Head Cap Screw.....	1	SP-642	3/8-16 x 1" Hexagon Head Cap Screw.....	1
SP-1029	1/4"-20 Hexagon Nut.....	2	SP-1030	3/16"-18 Hexagon Nut.....	4
SP-1603	1/4" Steel Washer.....	2	SP-1203	#10-32 Hexagon Nut.....	4
SP-1606	1/16" Steel Washer.....	2	SP-1605	3/8" Steel Washer.....	1
SP-2250	#4 x 3/16" Drive Screw.....	2			
SP-2420	#2 x 1 1/4" Taper Pin.....	1			

Continued on Next Page

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.
SP-1701	$\frac{3}{16}$ " Split Lockwasher.....	4	NCS-226	Rail Mounting Block, Tapped #6-32.....	2
SP-1703	$\frac{3}{16}$ " Split Lockwasher.....	4	NCS-229-S	Sliding Block, with Clamp Screw, Complete..	2
<b>NO. 1165 SWING GUARD</b>			SBS-40	Knurled Hand Knob, $\frac{1}{4}$ "-20 Thread.....	1
TCS-240	Arm for Swing Guard Basket.....	1	SP-565	#6-32 x $\frac{3}{16}$ " Round Head Machine Screw.....	4
TCS-241-A	Swing Guard Basket, Pressed Steel.....	1	SP-710	$\frac{1}{4}$ "-20 x $\frac{3}{8}$ " Fillister Head Machine Screw.....	4
TCS-242	Mounting Bracket.....	1	<b>NO. 1172 TENONING JIG</b>		
TCS-243	Pivot Arm, $\frac{3}{8}$ " Bent Steel Rod.....	1	NCS-340	Base Plate, $\frac{3}{16}$ x 8 x 14 $\frac{3}{8}$ ", Cast Iron.....	1
TCS-247-S	Lock Bolt, $\frac{3}{4}$ "-16 x 1", with Ball-End Handle	1	NCS-340-A	Base Plate, With Key, Assembled.....	1
TCS-249-S	Set Collar, $\frac{1}{8}$ " I.D., with Set Screw.....	4	NCS-340-S	Base Plate, with Key, Stop Link & Pointer..	1
TCS-257	Steel Pin, $\frac{3}{16}$ x 2 $\frac{1}{2}$ $\frac{1}{2}$ ", $\frac{3}{32}$ " Holes.....	1	NCS-342-S	Stop Link, with Post, Assembled.....	1
TCS-295	Name Plate, 1 $\frac{3}{4}$ x 4", Horizontal.....	1	NCS-344	Base Plate Key, $\frac{3}{8}$ x $\frac{3}{4}$ x 14 $\frac{3}{8}$ ".....	1
DDL-150	Special $\frac{3}{4}$ " Steel Washer.....	2	NCS-351	Clamp Body.....	1
LBS-63	$\frac{3}{16}$ x $\frac{3}{16}$ " Tubular Brass Rivet.....	2	NCS-352	Guard Body.....	1
SP-201	$\frac{3}{16}$ -18 x $\frac{3}{16}$ " Hexagon Socket Set Screw.....	4	NCS-353	Adjustable Bracket for Clamp Screw.....	1
SP-673	$\frac{3}{16}$ -24 x 1 $\frac{1}{4}$ " Hexagon Head Cap Screw.....	2	NCS-354-S	Clamp Screw, $\frac{1}{2}$ "-13 Thread, with Pad.....	1
SP-1704	$\frac{3}{16}$ " Split Lockwasher.....	2	NCS-356	Stud, $\frac{1}{16}$ "-20 x 2 $\frac{3}{16}$ ", Threaded Both Ends....	1
SP-2102	$\frac{1}{16}$ x $\frac{1}{2}$ " Cotter Pin.....	2	NCS-357	Special Hexagon Cap Nut.....	1
<b>NO. 1166 SPLITTER ATTACHMENT</b>			NCS-357-S	Special $\frac{1}{16}$ "-20 Cap Nut, with Set Screw.....	1
TCS-244	Splitter Blade, $\frac{1}{16}$ " Thick.....	1	NCS-358	Stud, 2 $\frac{1}{2}$ " Long, $\frac{1}{16}$ "-14 & $\frac{5}{16}$ "-24 Threads..	1
TCS-245	Splitter Blade, $\frac{3}{64}$ " Thick.....	1	NCS-359	Guide Key, $\frac{1}{8}$ x $\frac{3}{4}$ x 5 $\frac{1}{4}$ ".....	1
TCS-246	Splitter Blade, $\frac{3}{64}$ " Thick.....	1	NCS-360	Wooden Hand Grip.....	1
TCS-249	Set Collar, $\frac{1}{8}$ " I.D., Tapped $\frac{3}{16}$ "-18.....	1	NCS-361	$\frac{1}{16}$ "-14 Serrated Nut, $\frac{1}{4}$ "-20 Tapped Head..	1
TCS-249-S	Set Collar, $\frac{1}{8}$ " I.D., with Set Screw.....	1	BM-4-S	Ball Crank, with Loose Grip and Set Screw..	1
TCS-250	Steel Pin, $\frac{1}{8}$ x $\frac{1}{16}$ ", Threaded #8-32.....	1	DDL-105	Special #10-32 x $\frac{1}{16}$ " Fill. Hd. Cap Screw.....	4
TCS-251	Special $\frac{1}{4}$ "-28 x $\frac{3}{64}$ " Shoulder Screw.....	1	DDL-174	Special $\frac{3}{64}$ " Steel Washer.....	1
TCS-252	Anti-Kickback Finger, 3 $\frac{3}{16}$ " Blade.....	1	SR-217	Ball-End Adjustable Clamp Handle.....	1
TCS-253	Anti-Kickback Finger, 2 $\frac{1}{16}$ " Blade.....	1	SP-2	$\frac{5}{16}$ " Hex. Wrench for Socket Screws.....	1
TCS-254	Anti-Kickback Finger, 2 $\frac{1}{16}$ " Blade.....	1	SP-201	$\frac{3}{16}$ -18 x $\frac{3}{16}$ " Hex. Soc. Set Sc. Fl. Pt.....	1
TCS-255	Anti-Kickback Finger, 1 $\frac{3}{16}$ " Blade.....	1	SP-207	$\frac{3}{16}$ -18 x $\frac{1}{2}$ " Hexagon Socket Set Screw.....	2
TCS-256	Anti-Kickback Finger, 1 $\frac{1}{16}$ " Blade.....	1	SP-311	$\frac{1}{4}$ "-20 x 1 $\frac{1}{4}$ " Square Head Set Screw.....	1
TCS-258	$\frac{1}{4}$ " Shim Washer, $\frac{3}{16}$ " O.D. x .010" Thick..	5	SP-503	$\frac{1}{4}$ "-20 x $\frac{3}{16}$ " Round Head Machine Screw.....	1
TCS-259	Anti-Kickback Finger, 3 $\frac{3}{16}$ " Blade.....	1	SP-509	$\frac{1}{4}$ "-20 x $\frac{1}{2}$ " Round Head Machine Screw.....	3
SP-201	$\frac{3}{16}$ -18 x $\frac{3}{16}$ " Hexagon Socket Set Screw.....	1	SP-519	$\frac{1}{4}$ "-20 x 3 $\frac{1}{4}$ " Round Head Machine Screw..	1
SP-1204	#8-32 Hexagon Nut.....	1	SP-664	$\frac{1}{4}$ "-20 x 1" Hexagon Head Cap Screw.....	2
SP-1209	$\frac{1}{4}$ "-28 Hexagon Nut.....	1	SP-1029	$\frac{1}{4}$ "-20 Hexagon Nut.....	1
SP-1526	$\frac{3}{16}$ -18 x $\frac{3}{16}$ " Thumb Screw, Flat Point.....	1	SP-1603	$\frac{1}{4}$ " Steel Washer.....	3
SP-1754	$\frac{1}{16}$ " Lockwasher, Internal Teeth.....	2	SP-1606	$\frac{1}{16}$ " Steel Washer.....	2
<b>NO. 864 MITER GAGE</b>			<b>WRENCHES</b>		
CS-21	Clamp Plate for Stop Rod.....	4	J-40	$\frac{5}{16}$ " Open End Stamped Steel Wrench.....	1
CS-21-S	Stop Rod Clamp, Complete.....	2	LTA-430	D'ble End $\frac{1}{8}$ " Open & $\frac{3}{8}$ " Hex. Box Wrench 1	
DSS-79	Special $\frac{1}{4}$ " Fiber Washer.....	1	SBS-47	Double End $\frac{1}{16}$ & $\frac{3}{16}$ " Hexagon Box Wrench 1	
NCS-160	Miter Gage Body, 7" Face.....	1	SP-2	$\frac{5}{16}$ " Hexagon Wrench for Socket Screws.....	
NCS-160-A	Miter Gage Body, with Stop Screws.....	1	<b>MISCELLANEOUS</b>		
NCS-162-S	Miter Gage Bar, w/Stop Link, Pointer, Stud	1	No. 530	V-Belt, 54 $\frac{3}{4}$ " Outside Circumference.....	1
NCS-164	Knurled Hand Knob, $\frac{1}{4}$ "-28 Thread.....	1	No. 864	Miter Gage, Complete.....	1
NCS-166	Stud, $\frac{1}{4}$ "-28 x 1 $\frac{1}{16}$ ", Threaded Both Ends....	1	No. 865	Miter Gage Clamp Attachment, Complete..	1
NCS-168	Special #8-32 Tapered Pivot Screw.....	1	No. 886	Cast Iron Stand.....	1
NCS-170	Stop Link, $\frac{3}{4}$ " Long, $\frac{1}{4}$ " Hole.....	1	No. 50-891	Steel Stand.....	1
NCS-171	Steel Pin, .197 x $\frac{1}{4}$ ", Chamfered Ends.....	1	No. 1015	10" Combination Rip & Crosscut Blade.....	1
NCS-173	Special #8-32 Hexagon Jam Nut.....	3	No. 1016	10" Hollow Ground Blade.....	1
NCS-174	Pointer Rod, $\frac{3}{16}$ x 1", Bent.....	1	No. 1017	10" Rip Blade.....	1
NCS-175	Steel Rod, $\frac{3}{16}$ x 11 $\frac{1}{16}$ ", Round Ends.....	1	No. 1018	10" Crosscut Blade.....	1
NCS-176	Steel Rod, $\frac{3}{16}$ x 11", Round Ends, Bent.....	1	No. 1161	Table Insert, with 1 x 5 $\frac{1}{2}$ " Dado Head Slot	
NCS-177	Special $\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Headless Set Screw.....	2	No. 1162	Table Insert, with Moulding Cutter Hd. Slot	
NCS-178	Knurled Head Screw, $\frac{1}{4}$ "-28 x $\frac{3}{16}$ ".....	2	No. 1163	Table Insert, with $\frac{1}{4}$ x 10" Saw Blade Slot..	
NCS-179	Coil Spring, $\frac{1}{16}$ " Diameter, $\frac{3}{8}$ " Free Length	2	No. 1165	Swing Guard, Complete.....	1
SP-723	#8-32 x $\frac{1}{2}$ " Fillister Head Machine Screw... 3				
SP-801	$\frac{3}{16}$ -24 x $\frac{1}{4}$ " Carriage Bolt.....	2	No. 1166	Splitter Attachment, Complete.....	1
SP-1401	$\frac{3}{16}$ "-24 Wing Nut.....	2	No. 1172	Tenoning Jig, Complete.....	1
<b>NO. 865 MITER GAGE CLAMP ATTACHMENT</b>			No. 1173	Belt Guard, Complete.....	1
NCS-165	Spacing Sleeve, $\frac{1}{4}$ " I.D., $\frac{3}{16}$ " O.D. x $\frac{1}{4}$ ".....	1	No. 5300	3" Arbor Pulley, with Set Screw (Specify	
NCS-220	Clamp Rail Post, $\frac{5}{8}$ x 2 $\frac{3}{16}$ ".....	1	5" Bore).....	1	
NCS-222	Clamp Rail Post, $\frac{5}{8}$ x 2 $\frac{3}{16}$ ".....	1	No. 5500	5" Motor Pulley, with Set Screw (Specify	
NCS-224	Clamp Rail, $\frac{1}{8}$ x $\frac{1}{2}$ x 13 $\frac{3}{8}$ ".....	2	1 $\frac{1}{2}$ , $\frac{5}{8}$ or $\frac{3}{4}$ " Bore).....	1	
			SP-201	$\frac{3}{16}$ -18 x $\frac{3}{16}$ " Hexagon Socket Set Screw.....	1

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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