

chandler

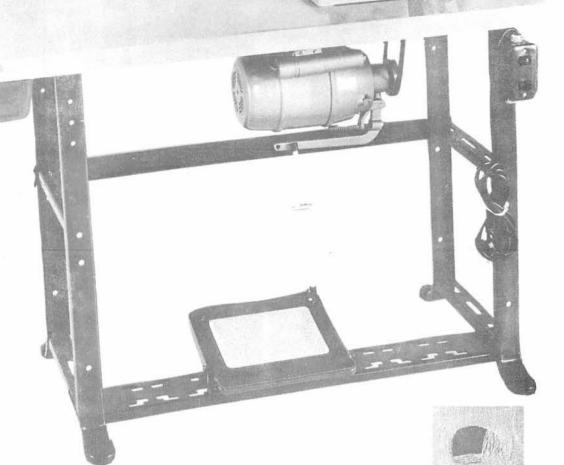
DARNING

MODEL: 671 HEAVY DUTY

for DARNING and MENDING

Shirts • Socks • Coats Aprons • Overalls • Athletic Equipment • Trousers • Towels • Sheets • Pillow Cases • Linens

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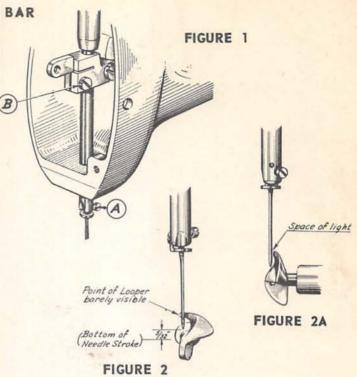
Partially Completed



Completed work

TIMING LOOPER TO NEEDLE BAR

usual procedure for timing the Looper Needle Bar, is and first to time the Looper and then set the (B) height of the Needle point of the to the This Looper. is complished as follows: 1 Insert new Needle length of Needle Bar hole and tighten Screw A (Fig.1) 2 As preliminary a setting, make sure the point of the Needle is approximately in line with the center of the Looper Shaft when the Needle Bar is at the lowest depth of stroke.



Adjustment is made by means of Screw B (Figure 1).

- 3 Turn the machine by hand, rotating the Looper counterclockwise, thus raising the Needle 5/32 of an inch from the bottom of its stroke as shown in Figure 2.
 - At this time, the point of the Looper should be barely visible on the left side of the Needle as shown in Figure 2. To adjust, loosen Screws C (Figure 3) and rotate Knurled Looper Holder desired amount in either direction. Tighten Screws C securely.
- 4 There should be a space of light barely visible between the point of the Looper and the Needle as shown in Figure 2A. Adjust for proper clearance by loosening Screw D (Figure 3) and moving the Looper in or out the desired amount.
- 5 As a final setting, now that the Looper is properly timed in relation to the lift (or up stroke), the Needle Bar can be readjusted (as described in preceeding item 2) so that the point of the looper when passing the Needle is approximately 1/32 of an inch above the Needle Eye.

This final setting may have to be varied slightly depending upon the weight and softness of the thread or material being used.

The break of the loop (or loop formation) at the Needle Eye may vary according to the thread used. This will possibly require setting the point of the Looper closer or further from the eye of the Needle but within a range of approximately 1/32 of an inch.

TIMING THE FINGER

Lateral Setting - (Controlled by Barrel Cam I, Figure 3)

1 When the Finger has reached its most forward lateral position, the point of the Finger should extend approximately 1/32" beyond the front edge of the slot in the Throat Plate as shown below in Figure 3A.

To adjust, loosen Screw EA (Figure 3) and move Shaft F forward or backward the desired amount. (In moving Shaft F forward, make sure that Eccentric Finger G does not bind against shoulder of Eccentric J, otherwise Finger G will have to be moved back the same amount Shaft F is moved forward.)

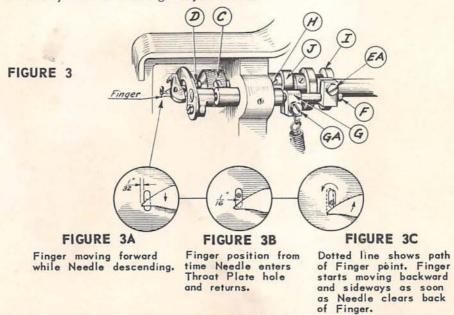
Radial Setting - (Controlled by Eccentric J, Figure 3)

2 When the Needle is at the very bottom of its stroke there should be approximately 1/16" clearance between the Needle and the back edge of the Finger as shown in Figure 3B.

Tc adjust, loosen Clamp Screw GA (Figure 3) and move the Finger into correct position, and tighten Clamp Screw GA securely.

Turning the machine slowly in the direction of normal operation, observe carefully that at the instant the point of the Needle has cleared the Finger, the Finger must start its counterclockwise movement. The Finger should move backwards and sideways at the same time. Dotted line in Figure 3C shows approximate path of Finger point. Barrel Cam I must be adjusted to pull Finger sideways at the same time that Eccentric J moves Finger backward.

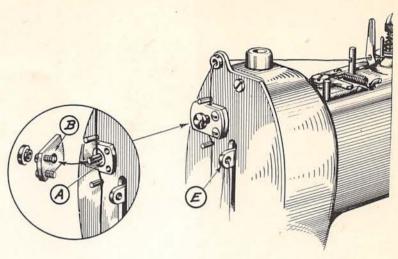
To adjust, loosen 3 Set Screws H (Figure 3) and retard or advance Finger Eccentric on Shaft the desired amount. Retighten Screws securely after making adjustment.



THREAD LOCK TIMING ADJUSTMENT

When the Needle Bar has ascended to within 1/8 or 5/32 inch from the highest point of of the Needle Bar stroke on completion of the last stroke of the sewing cycle, the thread should be locked by the forward pressure of Plunger A against Plate B (Figure 1A).

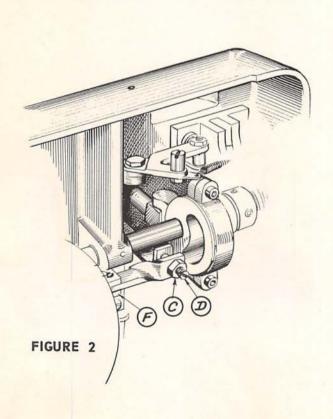
The Thread should be locked when the machine stops, otherwise the thread will not break when the Clamp is lifted.



Caution: Excessive pressure of the Plunger on light or weak thread will have a tendency to fracture the thread causing excessive thread breakage.

FIGURE 1A

To adjust, loosen Lock Nut C (Figure 2) and turn Adjusting Screw D in or out the desired amount. Be sure to tighten Lock Nut C securely.

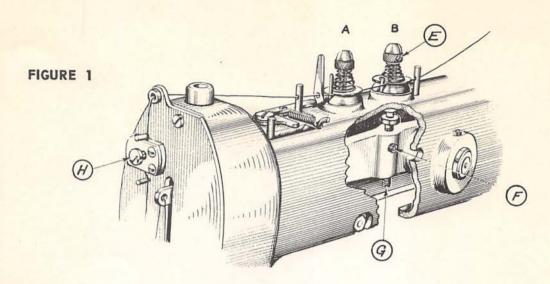


Note: Machines are usually equipped with light Lock Spring for use on light thread. For heavy threads use heavier Lock Spring (See Plate 1).

FIGURE 1

On resuming the first stroke of the new sewing cycle, the Thread Lock must release the thread some time before the Needle Bar reaches the lowest point of the stroke so that the thread is not held tight when the Take-up E (Figure 1) above starts its return upward stroke.

Bracket F (Figure 12) is provided with slots so that the Trip Lock Lever may be retarded or advanced for proper timing.



TIMING OF TOP INTERMITTENT TENSION

On the top of the machine there are two thread tension adjustments...Rear Tension B and Front Tension A (See Figure 1). Rear Tension B is an intermittent thread locking tension which locks the thread prior to the end of each stitch. This prevents the Looper from stealing thread from Spool instead of pulling up the loop at the end of each stitch. The amount of tension for locking the thread is factory set reasonably tight by means of Set Screw E (Figure 1) therefore, do not disturb or attempt to utilize Rear Tension B for adjusting the normal tension explained below. However, the time at which the thread is locked by Tension B may be adjusted as follows:

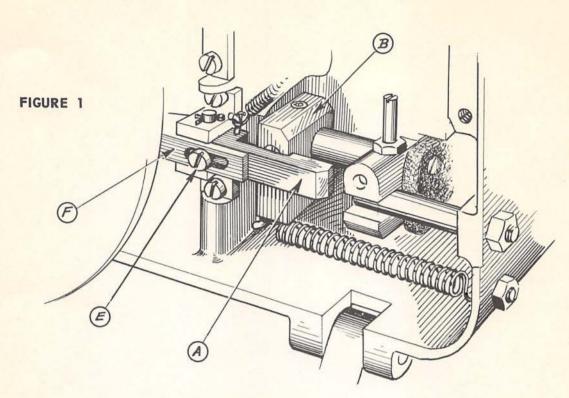
Loosen Set Screw F (Figure 1) and turn Adjusting Screw G up or down until Tension B locks the thread when the Needle Bar has ascended to within 5/32 of an inch from the top of the Needle Bar stroke on light thread but 1/8 of an inch or less on heavy thread.

To prevent thread breakage or extremely light thread, the Intermittent Tension should release the thread when the Needle Bar is at least 5/32 of an inch from the top of its stroke.

ADJUSTMENT OF NORMAL THREAD TENSION

Tightness of the stitch is regulated by Front Tension A. If the Tension Adjustment is too tight the Looper will snap the thread, if too loose the knots on the under side of the button will be loose. Adjustment is made as follows:

Turn handwheel at the end of the Mainshaft until Rear Tension B is in "UP" position. Lower the Button Clamp so the Thread Lock H on the Face Plate is open (center plunger is released). Pull the thread at the Needle to be sure it pulls thru with slight tension. If tension is too tight or too loose, turn Tension A up or down until proper tension is achieved.

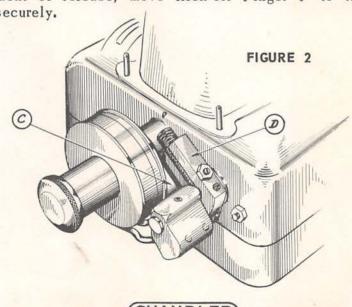


STOP KICK-OFF FINGER MECHANISM

On completion of the Button Sewing Cycle, Latch A should release Block B (Figure 1) just as Stop Finger C (Figure 2) has cleared Bumper Spring Holder D. The illustration shows an earlier model but the same in structions will apply to all models.

To advance moment of release, loosen Screw E (Figure 1) and move Kick-off Finger F to the left.

To retard moment of release, move Kick-off Finger F to the right. Tighten Screw E securely.



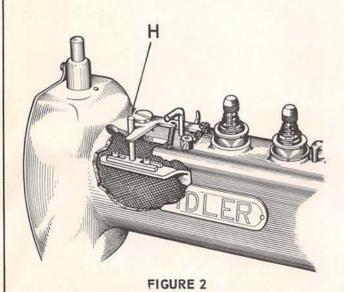
AUTOMATIC CLAMP LIFTER MECHANISM

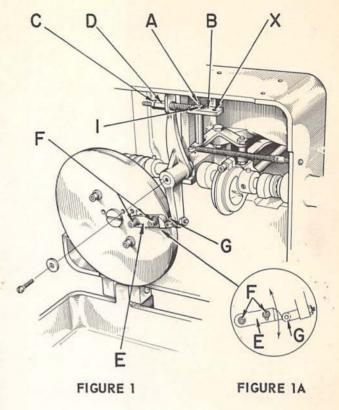
Automatic Operation

To set the automatic clamp lifter mechanism in the automatic operating position (or single pedal control) insert stud A in the forward hole of connecting strap B as illustrated in Fig. 1. With stud A in this position, the amount of clamp lift is controlled by loosening check nut C and turning adjusting nut D in or out as required,

Adjustment of the amount of clamp lift may necessitate a compensating adjustment of the thread slack kick pin H Fig. 2 in order to maintain the proper amount of thread take-off.

The automatic lifter actuating bracket E Fig. 1, controls the timing of the lowering of the clamp in relation to the first needle bar stroke, and the rising of the clamp on the final needle bar stroke. For proper timing, loosen two screws F Fig. 1 and swing bracket E so that its dropoff point is approximately on the centerline of the roller G as shown in Fig. 1A.





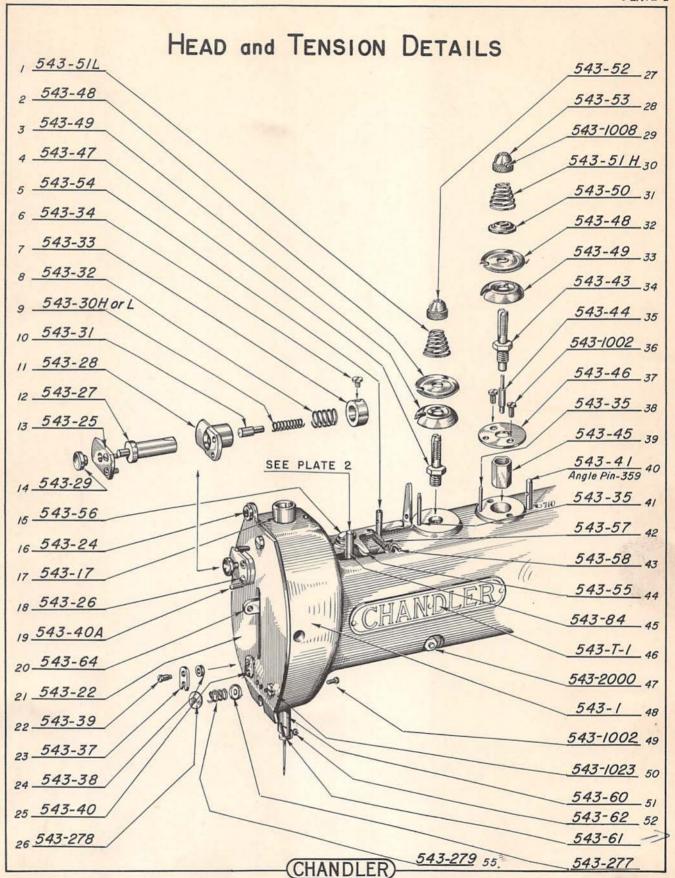
Manual Operation

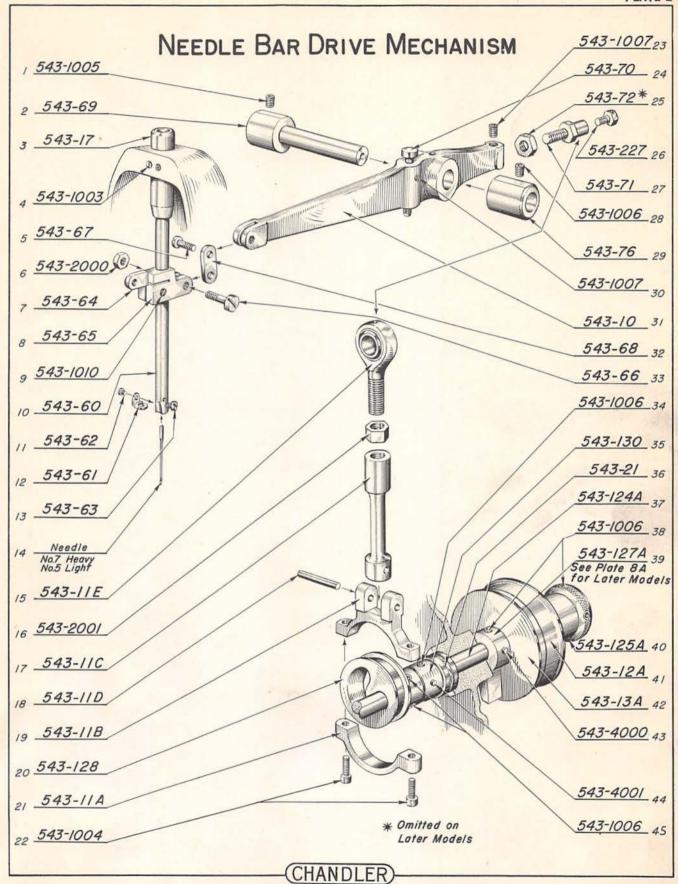
To convert the machine from automatic to manual clamp lift (or two pedal control) remove nut I Fig. 1, lift connecting strap B and insert stud A in hole X. Replace nut I and tighten securely. The automatic function is now inoperative, since roller G no longer contacts bracket E.

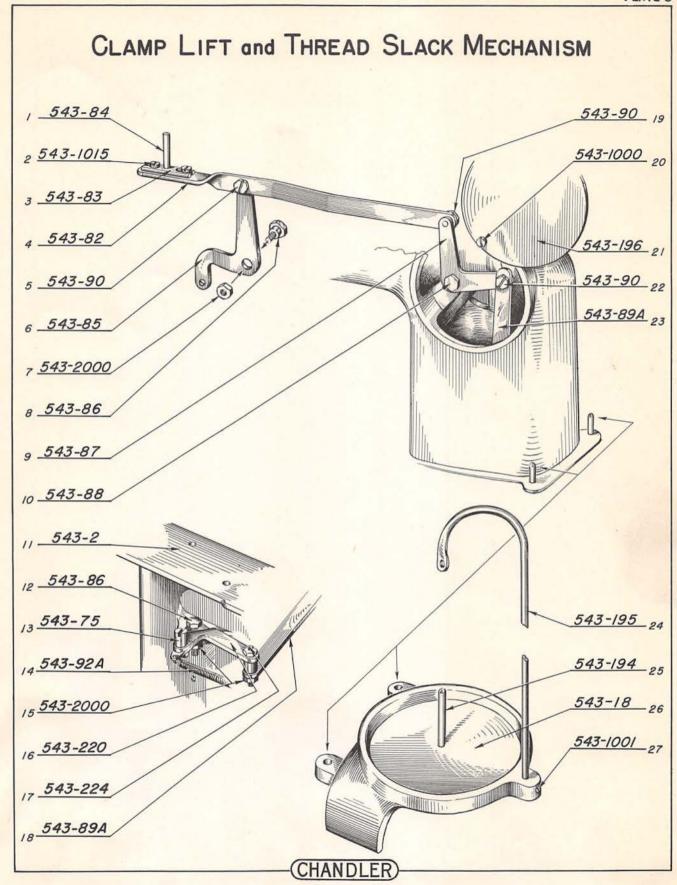
Adjustment for the amount of clamp lift is now made by means of the adjusting screw in the lifting bracket 543-213 located in the base of the machine (See parts plate 9).

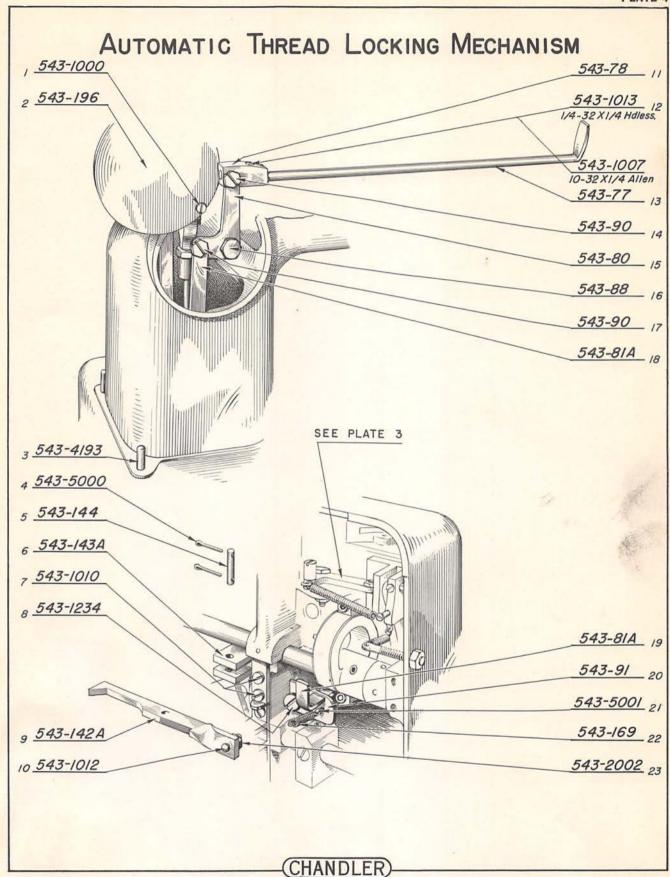
Either of the above adjustments may necessitate a compensating adjustment of the thread slack kick pin H Fig. 2 in order to maintain the proper amount of thread take-off.

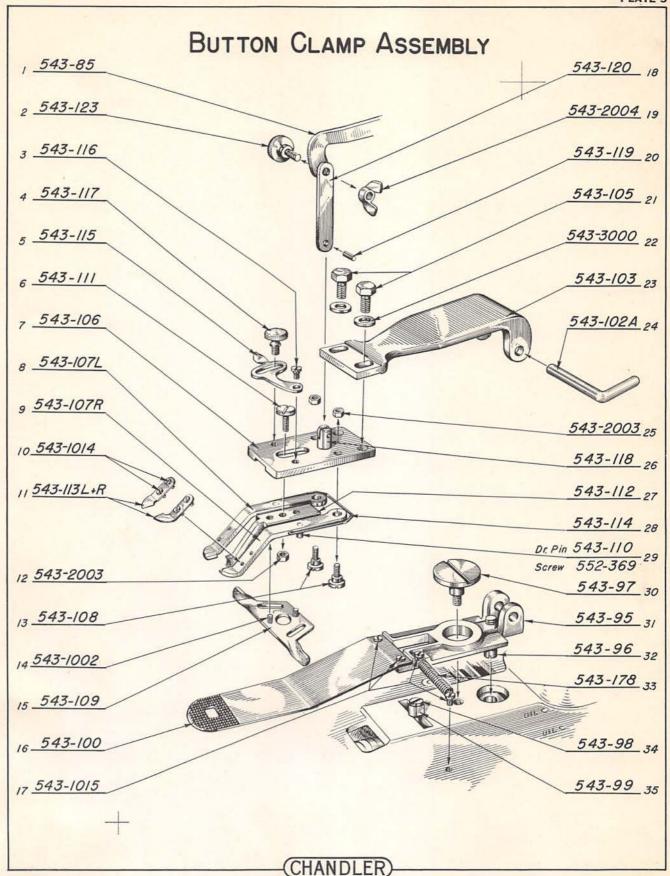
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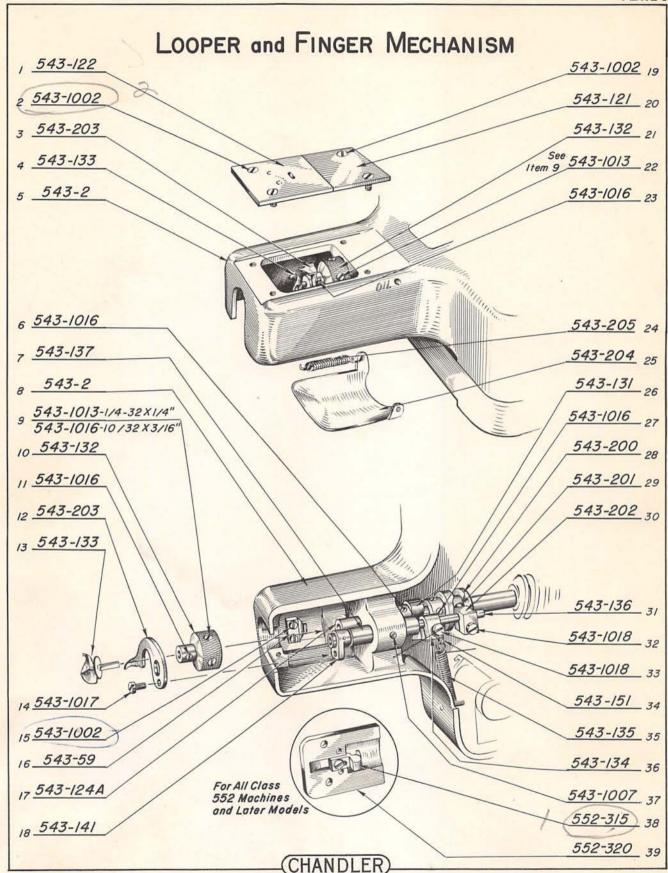


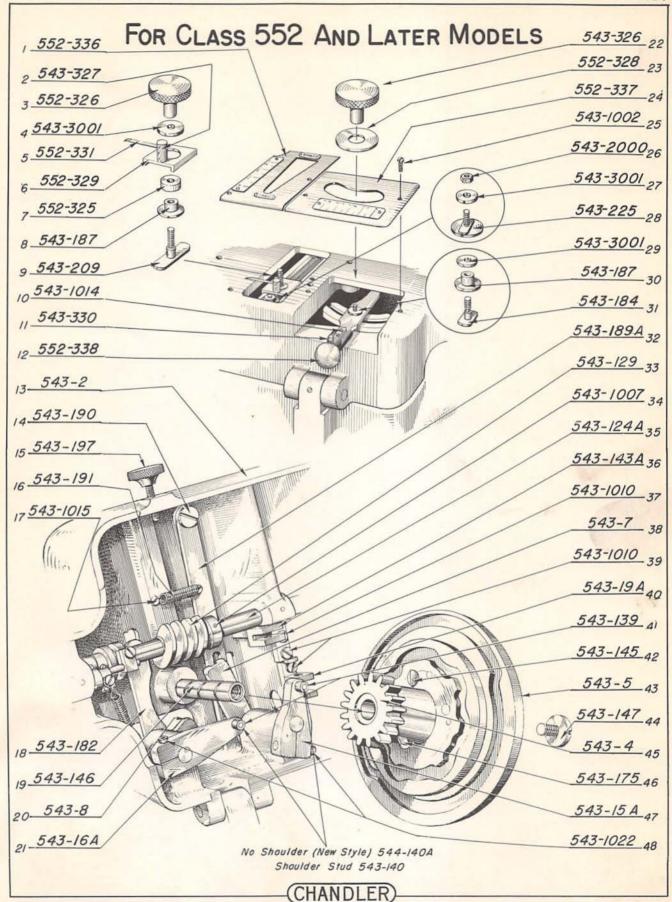


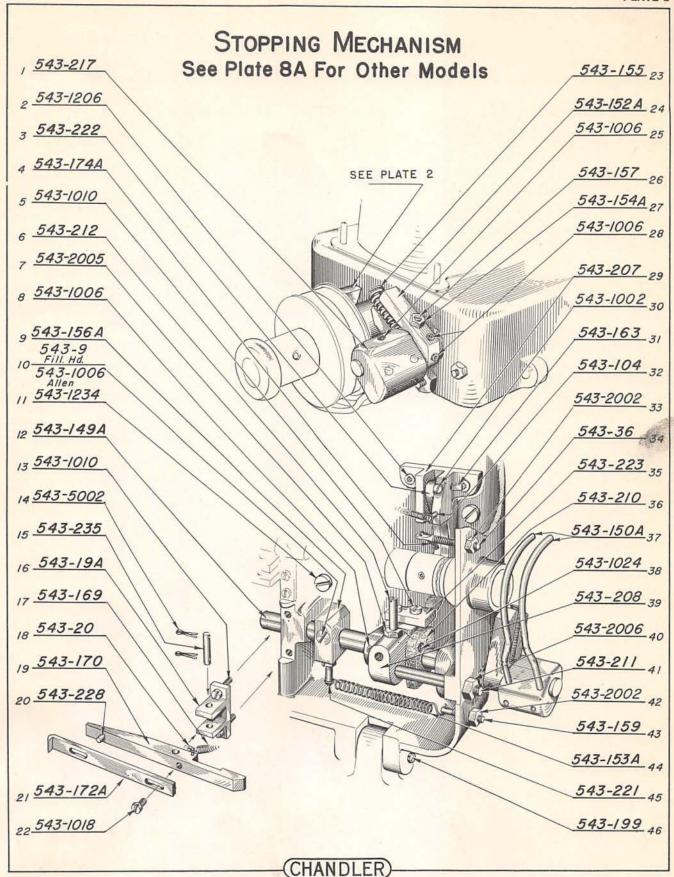


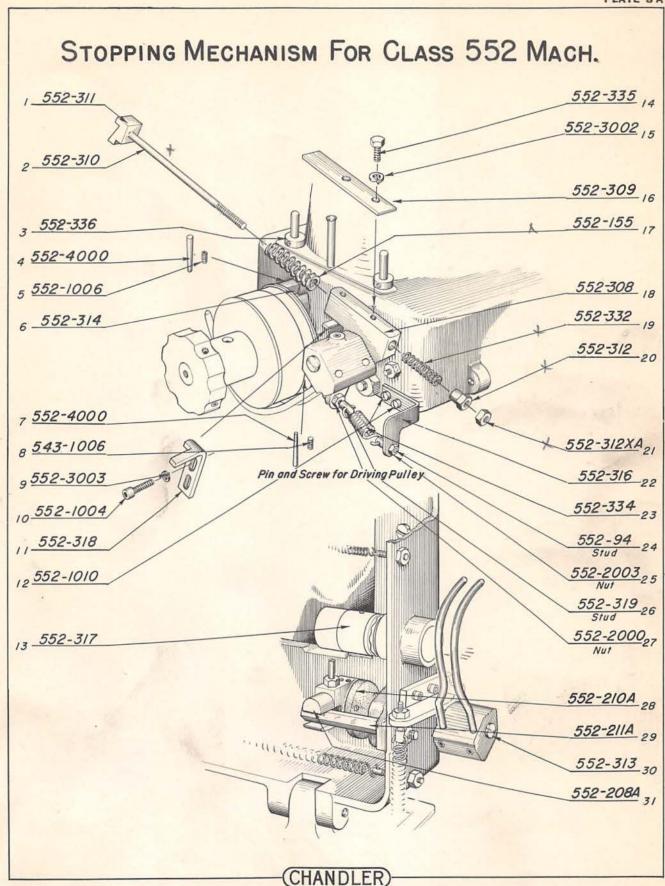


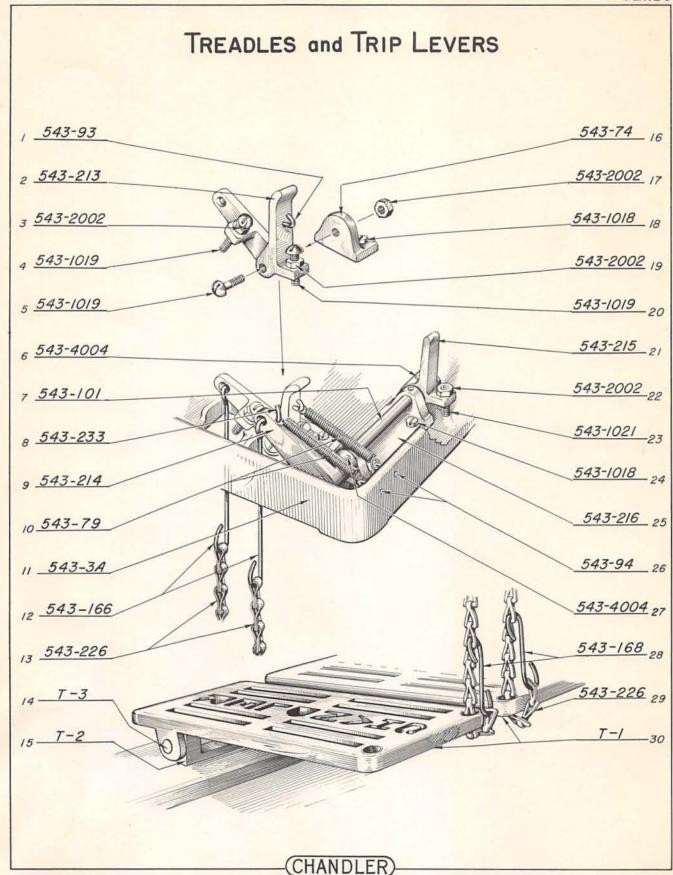
Parts Not Bearing Numbers Are Identified On Plate 5

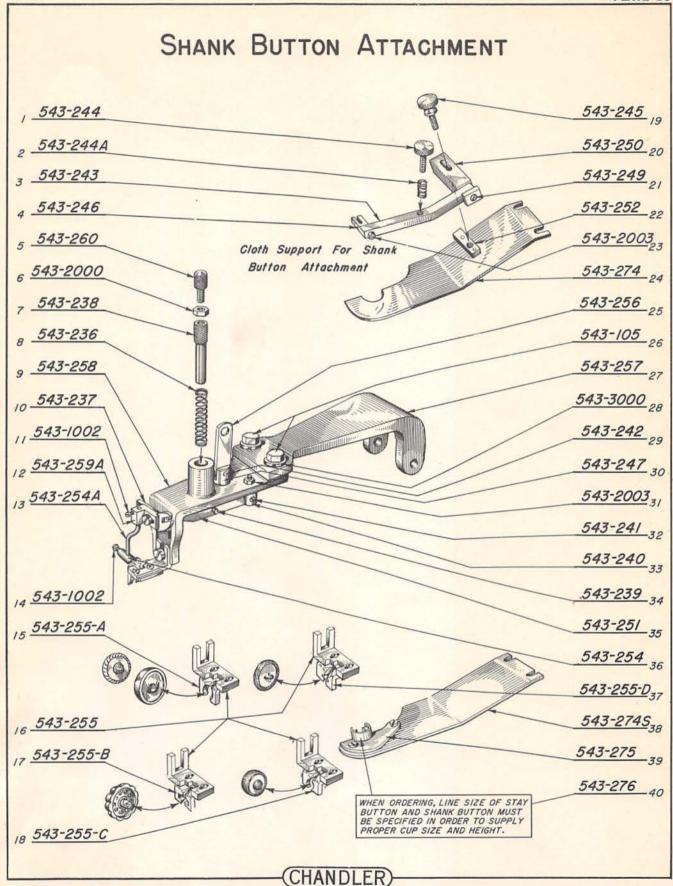


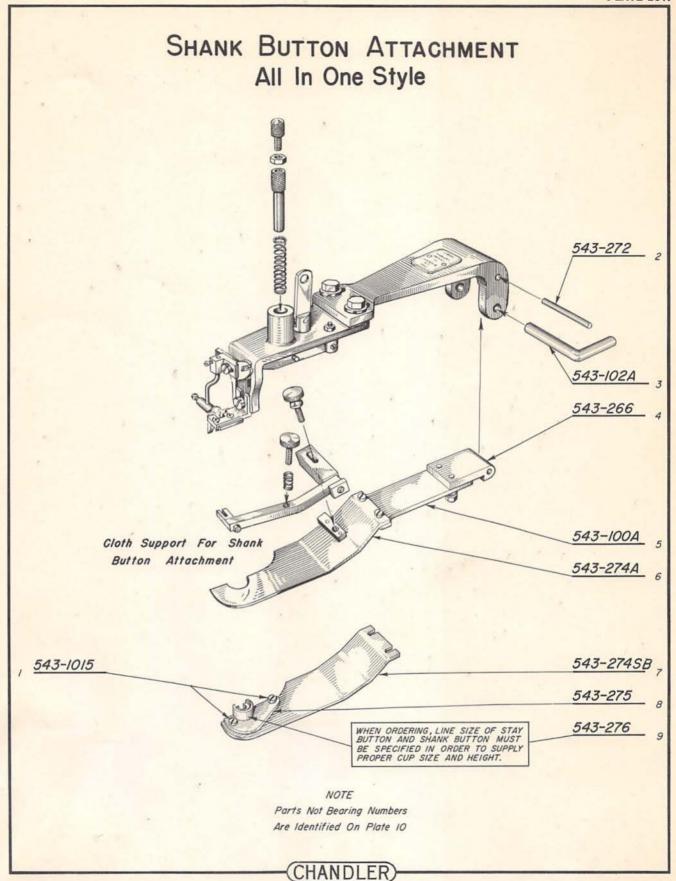


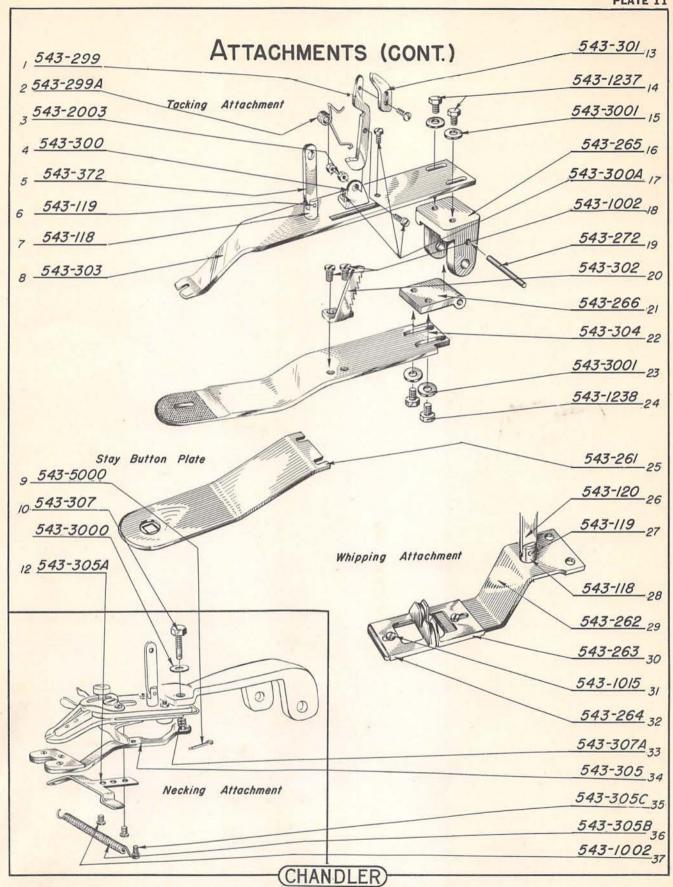


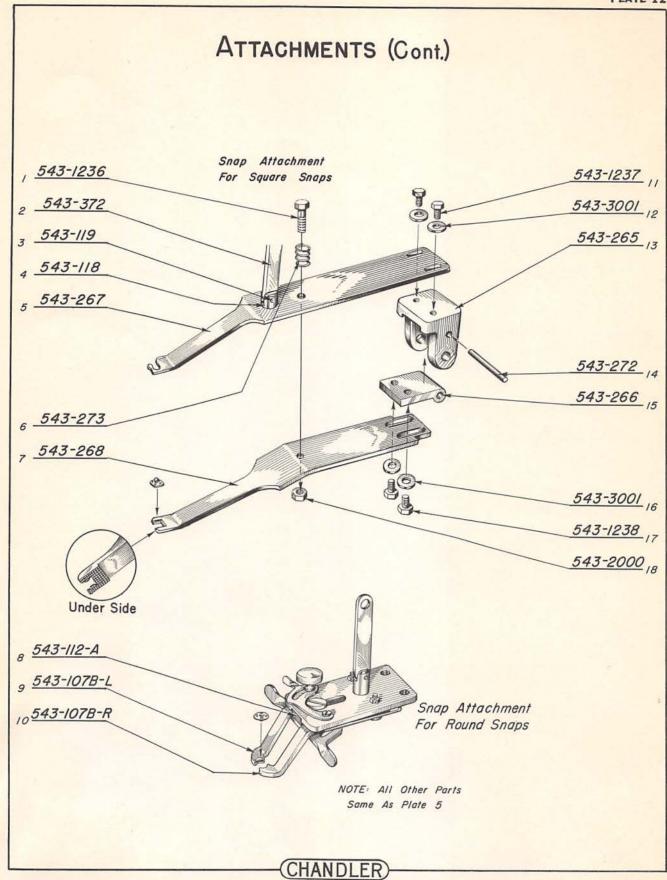


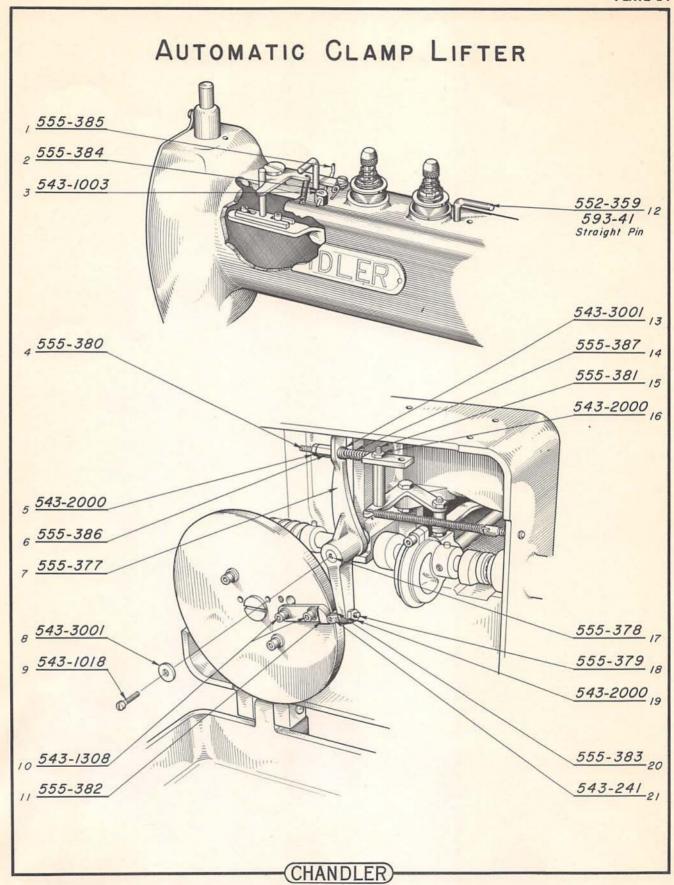


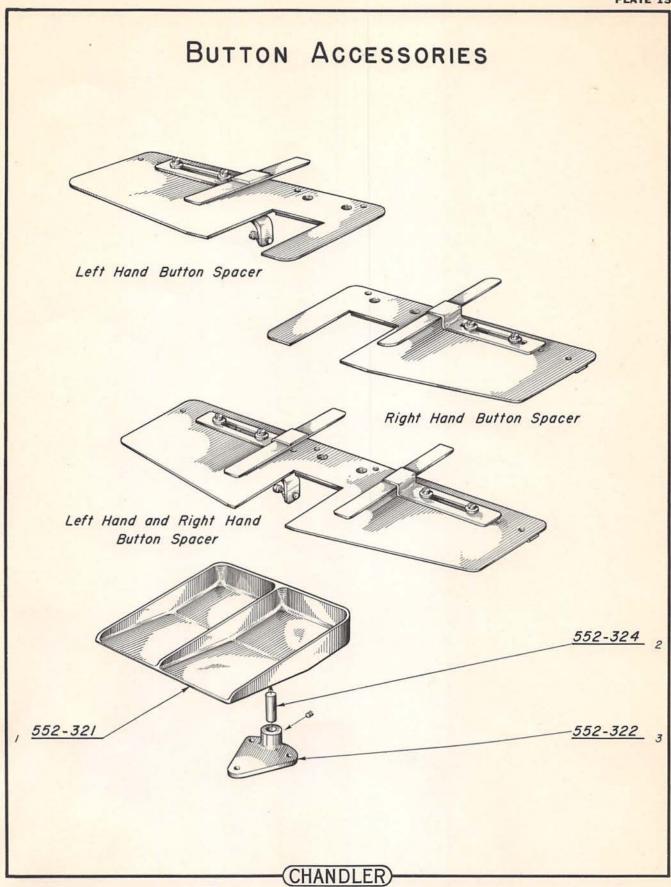












RECOMMENDED NEEDLES

CLASS	N	UMBER	SIZE	APPLICATION
175	x	3	#4	Very Light Work
175	x	3	#5	Light Work
175	x	3	#7	Medium Heavy
175	×	3	#8	Heavy
		-LONG	SHANK (For	Shank Buttons)
175	×	7	#5	Medium
175	×	7	#7	Heavy

RECOMMENDED SPEEDS

Machine classes 543, 546 and 548 are not to be operated in excess of 1000 R.P.M. Model 552 and later models can be operated at speeds up to 1500 R.P.M.

LUBRICATION

Use a light textile oil for all moving parts.

Gears and cam races are lubricated with "Lubriplate" a special non-drying grease, which we can supply. This is the white grease that you see on all new machines.

