

Single-Needle Lock Stitch with

BOD Z

CONSEW

MODEL 220

CONSOLIDATED SEWING MACHINE CORP 131 West 25th St. New York, N.Y. 10001

ADJUSTMENT OF TENSION RELEASE

such as when sewing very thin materials, this adjustment can be made by the user. the presser foot is raised in excess of 17/64". The machine is normally adjusted at the factory so that the tension of the upper thread will be released when If it is desired to effect thread tension release with a lesser lift

To change the timing of the thread tension release, proceed as follows:

- stances Remove face plate from machine making sure that its gasket will not be damaged under any circum-
- 2. Do not wipe blue-colored sealing compound from the gasket nor from any of the contact surfaces of the face plate and the arm.
- 3. Loosen screw A (Fig. 13) to adjust regulating arm B. Set the height of arm B so that there will be upper thread tension when the presser foot is lifted for tacking. The upper thread tension must be completely released only when the presser foot is in fully raised position.
- 4. Tighten screw A securely and replace face plate makin certain that all its screws are tightened uniformly.

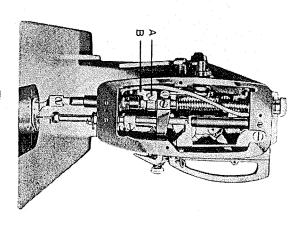


Fig. 13

Adjustment of the knee lifter

itself. mechanism and the related parts of the head This will avoid any possible strain on the lifter all the way but not beyond the maximum. er foot and to allow raising of the presser foot Set stops of knee lifter mechanism so that there is only little play before it starts to lift the pressthe right whenever more knee space is desired. serted from the left, it can also be inserted from for the operator. set screws when in most comfortable position as shown in Fig. 12. locked to the oil pan, insert lever and knee pad in the table top and the head set in place and assembled. After the oil pan has been positioned purposes lever (J) and knee pad (K) are disoil pan of the machine except that for shipping The knee lifter mechanism is assembled to the While lever (J) is shown in-Tighten their respective

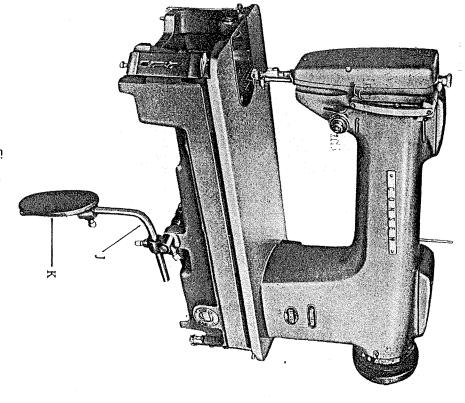


Fig. 12

The Bobbin Winder

pulley will separate from the belt after the bobbin has been wound with sufficient thread (Fig. 11). The bobbin winder is mounted on the table top with its pulley in front of the driving belt so that the

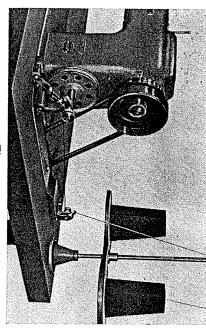


Fig. 11

- 1. Push bobbin on bobbin winder spindle as far as it will go.
- 2 back of the tension discs. Pass thread from thread stand downward through eye in tension bracket, then between and around the ion several times around bobbin. Bring thread forward toward bobbin and wind from below in clockwise direct-
- ယ Push bobbin winder lever downward until wheel contacts the drive belt and start machine
- After bobbin is filled with thread, release will cause wheel to disengage from belt and winding will stop Cut thread and remove bobbin from bobbin winder spindle.
- ဌာ Adjustment screw can be turned in or out to increase or decrease the amount of thread wound on the

tension bracket at the rear of the bobbin winder. When fine thread is wound on bobbins, use light tension. Bobbin can be wound while the machine is sewing. It is regulated by turning the knurled nut on the



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How to Adjust the Length of Stitch

When a change in the length of the stitch is desired, machine must first be brought it a dead stop to avoid serious damage to its internal mechanism. Now press stitch regulater button B (Fig. 10) and turn balance wheel slowly toward you until this button drops into a notch within the arm of the machine. Keeping button depressed, turn balance wheel forward of backward to increase or decrease the length of stitch. Finger F will point to the approximate number of stitch length has been selected.

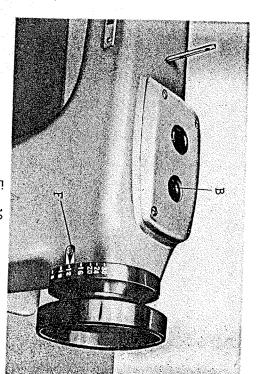


Fig. 10

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A. Tension of the Upper (Needle) thread

"N" on tension device to the right to increase tension and to the left, if you desire to decrease it. presser foot is let down and not in lifted position. Before adjusting the tension of the upper thread, be certain that the Turn serrated nut

B. Tension of the lower (bobbin) thread

case tension spring (see Fig. 8) The tension of the lower thread is regulated by the screw on the bobbin

sion, or loosen it to slacken the tension. Use the small driver to tighten the screw slightly to increase the ten-

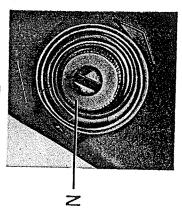
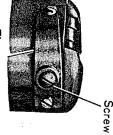


Fig. 7





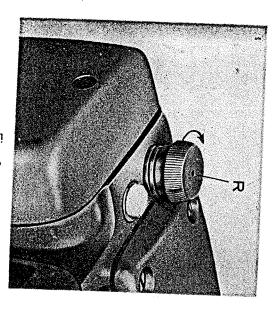


Fig. 9

To Regulate the Pressure of the Presser Foot

The pressure of the presser foot on the material is regulated by the Regulator Screw (R) (Fig. 9) on top of the machine. Turn this regulator to the left to decrease it. Do not employ more foot pressure than is required to feed the material properly.

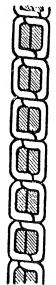




To Regulate the Tensions

threads in the center of the fabric, For ordinary stitching, the tension on the upper and lower threads should be equal so as to lock both

Thus



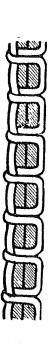
surface of the fabric, tension on the upper thread is greater than that on the lower thread, it will lie straight along the upper If the tension on either thread is stronger than on the other, imperfect stitching will be the result.

Thus



straight along the underside of the fabric, If the tension on the lower thread is greater than that on the upper thread, the lower thread will lie

Thus



Inserting a New Needle

Turn handwheel of machine toward you until needle bar reaches its highest point. Loosen set screw in needle clamp at bottom end of needle bar and push needle up into bar as far as it will go. Long groove in needle must face toward the left and the eye must be in line with the arm of the machine. Tighten needle set screw securely.

To Commence Sewing

Turn the balance wheel toward you with the right hand until the needle moves down and up again to its highest point, thus catching the lower (bobbin) thread. Now pull the end of the upper thread you are holding and the bobbin thread will be brought up with it through the needle hole in the needle plate, as shown in (Fig. 6). Place both ends of thread back under the presser foot. Place the fabric to be sewn beneath the presser foot, lower the foot upon it and then start the machine.

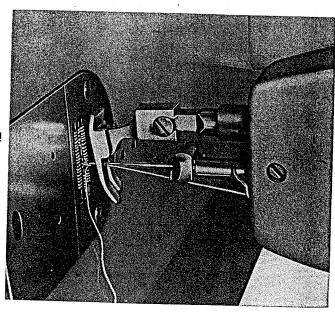


Fig. 6

To Remove the Work

Raise the needle bar to its highest point, lift the presser foot and draw the fabric back and to the left. Cut the ends of the threads a few inches long from the needle.

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Threading and Inserting the Bobbin Case

Hold the bobbin between the thumb and forefinger of your right hand and pull out a length of two or three bobbin into it. inches of thread. Holding the bobbin case in your left hand, turn the open side up and place the threaded

front of the bobbin case open. turned with the open side down, always keep the hinged latch at the In order to keep the bobbin from dropping out of the case when it is Then pull the thread to the left, under the tension spring and into the delivery eye. With the right hand guide the thread into the slot in the edge of the bobbin case.

Take the threaded bobbin case by the latch and place it on the center stud A (Fig. 5) of the bobbin case holder. Release latch and press bobbin case onto center stud until the latch catches the undercut thereon with a click that can be heard. Permit two to three inches of bobbin thread to hang down freely. Be sure to push slide plate to the right before starting to sew.

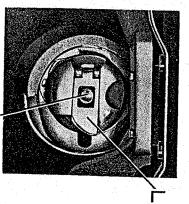


Fig. 5

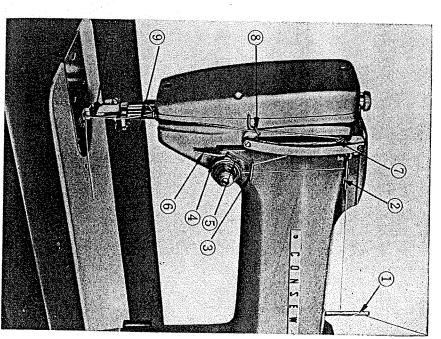
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Threading the machine

Turn handwheel toward you until needle (10) reaches its highest point and take-up lever (7) is near the end of its upward travel, as shown on Fig. 4. Lead thread from hole of spool pin (1) through three holes in thread guide (2), then downward through guard (3) and between and around tension discs (4) from right to left. Upward into thread take-up spring (5) and down under slack thread regulator (6), up and through guard (3) into eye of take-up lever (7) from right to left, down through thread guides (8 and 9) into thread guide (10) and from left to right through the eye of the needle. Pull two to three inches of thread through the eye of the needle.

Removal of bobbin case

Turn handweel toward you until needle reaches its highest point. Open slide plate by pulling it to the left. Pass left hand under table into opening on oil pan. With left thumb and index finger open the hinged latch (L)(Fig. 5) at the front of the bobbin case. Grasp latch and pull bobbin case and bobbin from rotary hook. While the latch is held open, the bobbin will be retained in the bobbin case. Release of the latch and turning of the open side of the bobbin case downward will cause the bobbin to drop out.



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and replace it. net from the rim of the oil pump, wipe it clean oil pump "0" any accumulation of lint or other foreign matter, at the same time lift the mag-Also, remove from oil screen "S" at bottom of not, check flow and adjustment of needle valve. of oil should become visible on the paper. If very brief period of operation a slight trace under the hook and operate machine. After a operating conditions may require either an inhook, hold a piece of tissue or similar paper To determine the amount of oil supplied to the crease or a decrease in the oil flow to the hook. factory to feed the correct amount of lubricant, valve "V" at the underside of the machine bed controlled through adjustment of the needle The oil supply for the rotating hook can be While this valve is adjusted at the

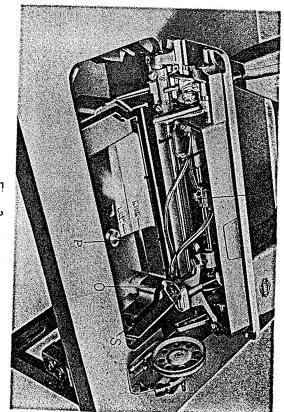


Fig. 3

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The Lubrication System

To remove accumulated impurities from the lubricating oil, a magnet has been included with the maback. Total oil capacity is approximately 1½ pints (24 fl. ounces.) below the "low" mark inside the oil pan. Oil is filled directly into the oil pan when the head is tilted Check oil level daily and never allow it to fall bellow the lower red line of the oil level indicator or or stainless type, of a grade similar to SAE10 to the level indicated by the word "High" inside the cation and cooling. pan at the bottom of the machine head and is circulated from there to all parts which require lubri-Oiling of the operating parts of Model 220 machine is entirely automatic. The upper red line of the oil level indicator (2), (Fig. 1) shows the corresponding oil level The oil pan should be filled with good quality sewing machine oil, either ordinary Oil is contained in the oil

NOTE: Before operating a new machine or one which has been standing idle for a period of several system will do the lubricating. oil wicks now exposed and replace cover. weeks, remove the arm cover plate right next to the pressure regulator (7). After a few minutes of operation the automatic oiling Soak with oil the four

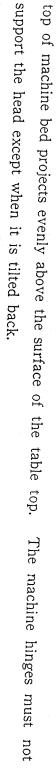
oil pump (see Fig. 3). cleaning as a result.

Remove it from the accessory box and place it along the circular flat rim at the bottom of the

At this location, the largest flow of oil passes the magnet with most efficient

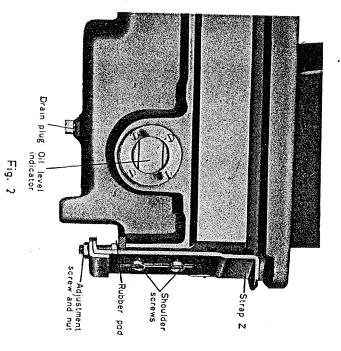
The oil pan fits into standard size table cut-outs (19" × 714") and is supported at the four corners without screws or bolts. The weight of the head alone suffices for accurate seating. Note that the oil pan must settle down easily into the cut-out without use of force. If necessary rasp the edges of the cut-out and those of the corner supports.

No felt pads are required on top of these corner supports. They should be removed, if the machine is to be installed into an old table. To level the oil pan within the table cut-out, put machine head in place, having inserted the hinge hooks into the bed beforehand. With the machine head resting on the neoprene rubber oil pan gasket, turn adjustment screws (Fig. 2) until top of machine bed projects evenly above the surface of the surface



on the lifter parts and without tendency to lift the entire head. component parts at the front of the oil pan. Adjust stops of knee lifter mechanism so that there is only Insert plunger "P" into its seat inside the oil pan (Fig. 3) and assemble knee lifter lever and pad little play before it starts to lift the presser foot and that it is raised all the way without any strain

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CHARACTERISTICS

- The CONSEW Model 220 machine for sewing light, medium, and heavy-weight material is all-gear driven bearings are diamond bored sleeve types, except for needle bearings at the thread take-up. and automatically lubricated at every bearing with separately adjustable oil feed for the rotary hook. All
- ? Drop Feed design with a maximum stitch length 6 to the inch.
- ယ The belt groove in the machine handwheel has an effective diameter of $2\%_6$ " when using 3%" wide "V" belting. For $\frac{5}{16}$ " dia round belting the effective diameter is $2\frac{3}{8}$ ".
- Maximum presser Foot lift is 3/8".
- Needle style 16×257 (all sizes)

IMPORTANT NOTE:

oiled according to instructions on page 5. Do not operate machine for any reason whatsoever unless oil reservoir has been filled and machine has been

Maxmum operating speed is 50,00 stitches per minute

How to set up

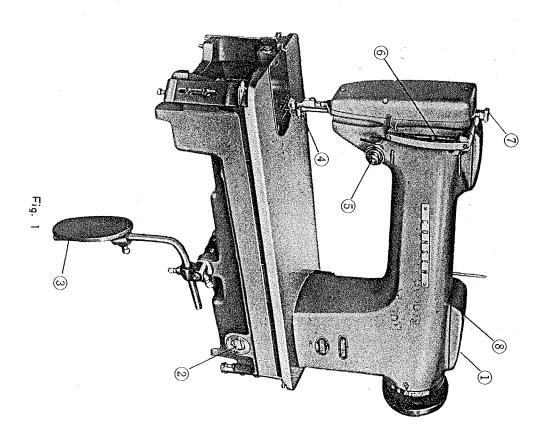
screws at bottom of straps until there is clearance between screw heads and rubber pads at underside of oil pan. (Fig. 2) Attach to oil pan corners the four Z-shaped straps using two shoulder screws each. prevent loss of any assembly part and to prevent the entry of foreign matter into the head and the oil pan. For purposes of shipment the machine and its oil pan are separated. Unpack machine with great care to Loosen adjustment



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Description:

- Stitch Regulator
- Oil level Indicator
 Knee Lifter Lever
- Needle Clamp
- Tension Regulator (upper thread)
- Thread Take-up lever
- Pressure Regulator
- Oil Feed Window



NEEDLE AND THREAD CHART

21	. 19	18	16 & 17	14	Sizes of Needles
Bags, Coarse Cloths & Heavy Goods	Heavy Woolens, Tickings, Bags, Heavy Coats, Trousers and Heavy Clothing generally	Tickings, Upholstery, Woolen Goods, Trousers, Boys' Clothing, Cloaks, etc.	All kinds of Heavy Calicoes, Light Woolen Goods, Heavy Silk, Seaming, Stitching etc.	Shirtings, Sheetings, Calicoes, Muslins, Silks, Dress Goods and all classes of general work	Classes of Work
16 to 20 Cotton 40 to 60 Linen	24 to 30 Cotton E Silk 60 to 80 Linen	30 to 40 Cotton D Silk	40 to 60 Cotton C Silk	60 or 80 Cotton A and B Silk	Sizes of Cotton, Linen or Silk