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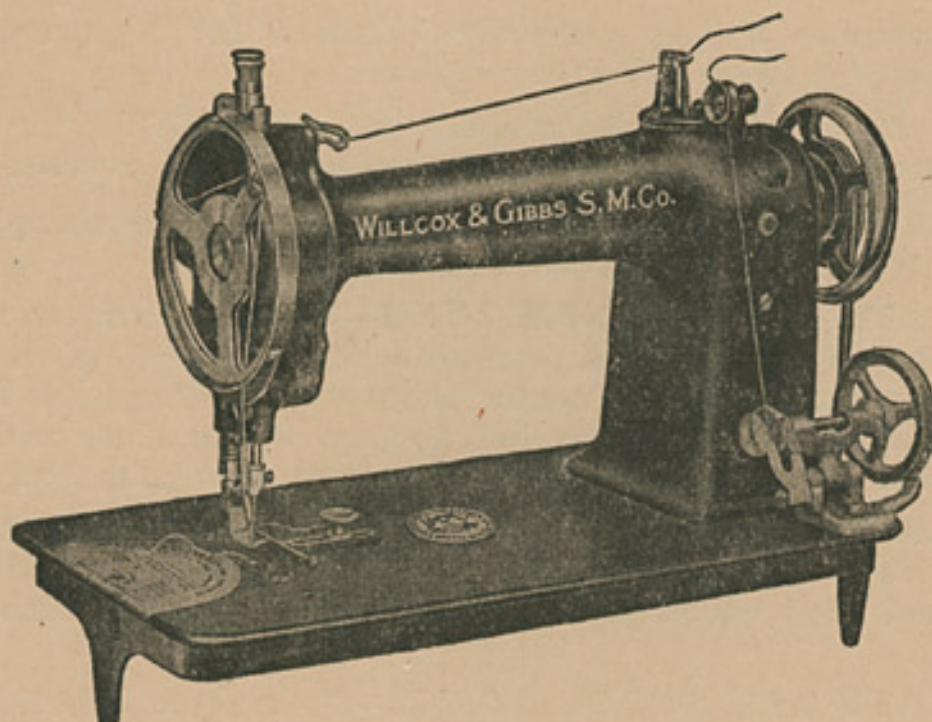


BUSINESS ESTABLISHED
IN 1859.

Instructions

for operating the

WILLCOX & GIBBS



High-Speed Lockstitch Machine

3500 to 4000 perfect stitches per minute where factory conditions permit

It does more and better work at less cost.

WILLCOX & GIBBS SEWING MACHINE CO.

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Arts and Industries

WILLCOX & GIBBS HIGH-SPEED LOCKSTITCH MACHINE

To Unpack and Install Machine

NOTE.—These Machines are sent out carefully packed in strong boxes, and are in perfect sewing condition, every Machine having been thoroughly tested before shipment.

TO UNPACK THE MACHINE—Each box is marked on its cover, "Open from Bottom," and after bottom has been removed, the Machine is free and may be lifted out.

TO SET THE MACHINE FOR USE—Cut an opening in the table that will receive and closely fit around the rib on under side of Machine bed. When in the correct position, the center of Machine will be $6\frac{3}{4}$ inches from the front edge of the table.

These Machines are so perfectly balanced for high speed that no clamping or holding-down device is required.

After the Machine has been properly placed, mark for the two Hinge-Rests, let them into the table-top and fasten with wood screws.

When the Machine is to be used for Tucking, Raising Blocks are provided, and no opening in the table is necessary.

TO LOCATE THE TRANSMITTER—The Transmitter must be fastened to under side of table, in a position to line up properly with the pulley on Machine above, and with its center about 8 inches from the front edge of table. This will cause the driving belt to pass through the table at a point most convenient for operating the Bobbin-Winder on the bed of Machine.

TO LOCATE KNEE-LIFT BRACKETS—Fasten these to the under side of table so that the end of hooked lever will be directly under the Knee-Lift Crank Rod which passes through the bed of Machine back of the Arm-Base.

TO LOCATE THE SPOOL STAND—Fasten the Spool Stand on the table top so that the upright Thread Guides will keep the Needle and Bobbin-Winder threads separated in their course to the Machine. Secure it with wood screws.

To Operate the Machine

SETTING THE NEEDLE—In order to enter the Needle in the end of Needle-Bar it is necessary to lower the Needle-Bar a little from its highest point, so that the Needle Finger will move back out of the way of the Needle. Then, by keeping the long groove of the Needle to the left, it will easily enter the Needle-Bar. Then press it to the highest point and tighten up Needle Screw.

THREADING THE MACHINE—(Observe carefully how the Machine is Threaded when received.)

Place the spool of thread on the Spool Stand Base and lay the thread through the upright Thread Guide directly over it. Then

1. Pass the thread endwise through right-hand side of Pull-Off Guide, through Pull-Off Eye, then through left-hand side of Guide.

2. Lay the thread in Guide Hook near top of Needle-Bar Head, then through grooves and under the flat spring in Check Tension Bar.

3. Pass or wind the thread over and around Tension Wheel twice, and then endwise through Thread Tube in flange on Machine Head.

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4. Turn the Hand Wheel until Needle-Bar is at its highest point, which will be when Arrow Head on rim of Take-Up points to the small opening in Take-Up Guard. Lay the thread between the upper edges of the two Take-Up Plates, then draw it into the opening in Take-Up Guard.

5. Pass thread endwise through eye in Needle-Bar Head, and then through eye of Needle from left to right.

TO WIND THE BOBBIN—Place the Bobbin on Bobbin-Winder Spindle. From a spool at right-hand of Spool Stand lay the thread through the upright Thread Guide directly over it. Pass it endwise through small Staple on top of Arm-Base, over and between the two small Tension Washers, then down and around the Bobbin on Bobbin-Winder. Press the Throw-Out Latch into position, and the Bobbin will wind itself until filled, while the Machine is being operated for sewing.

To wind a Bobbin when the Machine is not being operated for sewing, be sure that the Upper Thread is out of the Needle and Take-Up, and Bobbin-Case out of Machine.

TO THREAD THE BOBBIN-CASE—Hold the Bobbin-Case in left hand and with the right hand place the Bobbin in the Case. Lead thread through small slot in rim of Case, pass it under end of Tension Spring, then endwise through small hole at top of Bobbin-Case.

TO PLACE THE BOBBIN AND BOBBIN-CASE IN POSITION—Uncover the opening in bed of Machine by turning the half-circular Swivel Plate on its center.

The Bobbin-Case Hinge cannot be opened unless the Hand Wheel has first been turned so that Arrow Head on Take-Up rim points to the small opening in Take-Up Guard.

With the thumb and finger of left hand press the small Latch in the side of Bobbin-Case Hinge to release and throw the Hinge back. Lay the Bobbin-Case on the Bobbin-Case Hinge, with its open side toward the right, and the end of thread upward. Then press the Bobbin-Case Hinge upward and latch it into position. **Be sure** the Bobbin-Case Hinge is locked after the Bobbin-Case has been placed in Position. Failure to do this will lead to damage of Bobbin-Case or Hook or both.

TO CHANGE THE STITCH—Turn Hand Wheel and press Button until it snaps in. Then for a shorter stitch (higher number) turn top of Hand Wheel toward you; for a longer stitch (lower number) turn it from you until in either case the stitch number desired is shown in recess above. Then release Button.

TENSION—This Machine does not require as much Tension on either Upper or Lower Thread as other Machines, and seldom requires any change. The Upper Tension is regulated by a small nut on end of Tension Stud, and the Lower Tension by the small slotted screw through spring on Bobbin-Case.

FOOT BAR ADJUSTMENT—To secure more or less pressure on Foot-Bar, the screw just above Head of Machine, having the words "Oil-Hole" on its top, must be turned to right or left.

TIMING THE HOOK—Turn the top of Hand Wheel from you until the two parallel lines on Stitch Cam appear in the Stitch Recess on the upright part of the Arm, then turn the Hook so that its point comes just past the needle; repeat six times to find the slowest set of holes in the Belt, and then tighten the Hook at that point, being careful not to have the Shaft bind endwise.

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HOOK SHAFT BELT—If necessary to replace a Belt, remove Hand-Wheel 92, Main Shaft Removable Bearing 127 and Hook Shaft Belt Guard 106 A.

Put Belt down through hole in Arm over end of Main Shaft 124, then under Hook Shaft Pin Pulley 107 with Set Screw towards you; then replace Hook Shaft Belt Guard 106 A.

Turn the machine until the two Hook-Setting Lines show at Stitch Indicator hole in Arm, and run Belt on to Main Shaft Pin Pulley 129 by taking hold of Take-Up 169-179. If correctly done, this always brings the Hook in time with the Needle after it has once been set.

Then replace the parts, taking care that the oil holes of 127 are above the shaft.

If not timed correctly by this method, do not remove the Belt, but adjust Hook 97 in its proper position to the Needle, being sure to seat the Hook Set Screw 100 firmly.

Do not allow oil to get on the Hook Shaft Belt. To prevent this put oil only in the small oil hole to the left of the slot in Pull-Off Stand 159. Do not put oil in the slot. Oil injures the Belt.

OILING—The proper oiling and care of a Machine is essential, in order to get the best results and longest service, with the least trouble and expense. It is not the quantity of oil put on at once, but the frequent oiling that keeps the Machine in best condition.

Each point of oiling is indicated by an Oil-Hole (3 double holes and 6 single holes), all above the bed of the Machine. The Oil-Hole at the top of the Head, just back of the Needle- and Foot-Bars, with the words "Oil with Needle-Bar up," is a very important point of oiling, and the Machine must be oiled frequently at this point. By "Needle-Bar up" we mean fully up, as when threading the needle; this allows the oil to reach the bearings properly.

Use only first quality machine oil, free from grit, and without liability to gum.

FACTORY OIL NO. 6—This oil has been thoroughly tested by us and has been used by large manufacturers for many years; we earnestly recommend it as the best lubricant for fine machinery yet brought to our notice. It is a highly refined and filtrated mineral oil, and does not gum the Machine.

SPECIAL CAUTIONS

- A. See that the Machine is kept clean and thoroughly oiled.
- B. See that the Machine is correctly threaded.
- C. See that the Thread passes freely from Spool to Machine.
- D. See that the Needle is sharp, straight and properly set.
- E. See that the Bobbin is properly wound, correctly placed and turns freely in its Case.
- F. See that the Retainer (the small circular spring in center of Bobbin-Case) keeps the Bobbin properly in its Case.
- G. The best results are secured by avoiding the use of very poor thread. Careful attention to these Cautions will save trouble and loss of time. Illustrated Price List of Lockstitch Parts is furnished with Machines.