

Form K3691

This Book should be carefully  
preserved for reference

# INSTRUCTIONS

FOR USING AND ADJUSTING

## SINGER

# B.U.K. ELECTRIC MOTORS

## WITH FOOT CONTROLLER FOR FAMILY SEWING MACHINES

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Parts or Repairs  
for your Machine



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## THE SINGER MANUFACTURING CO.

1931

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ELECTRIC MOTORS



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We prepare a specially  
compounded lubricant  
for use with our motors  
**SINGER LUBRICANT**  
is supplied in small tubes



TO AVOID TROUBLE  
USE SINGER MOTOR  
LUBRICANT ONLY



## The Singer B.U.K. Sewing Motor.

**T**HIS efficient motor has been specially designed for the operation of Singer Family Sewing Machines, its speed being at all times under the perfect control of the operator.

### Instructions for Attaching the Motor.

First remove the machine belt, then fix the motor, by its supporting bracket, to the back of the machine arm.

To fit the bracket, remove the japan from the edges of the tongue (A, Fig. 1) on the machine arm, over which the slot in the motor bracket will fit.

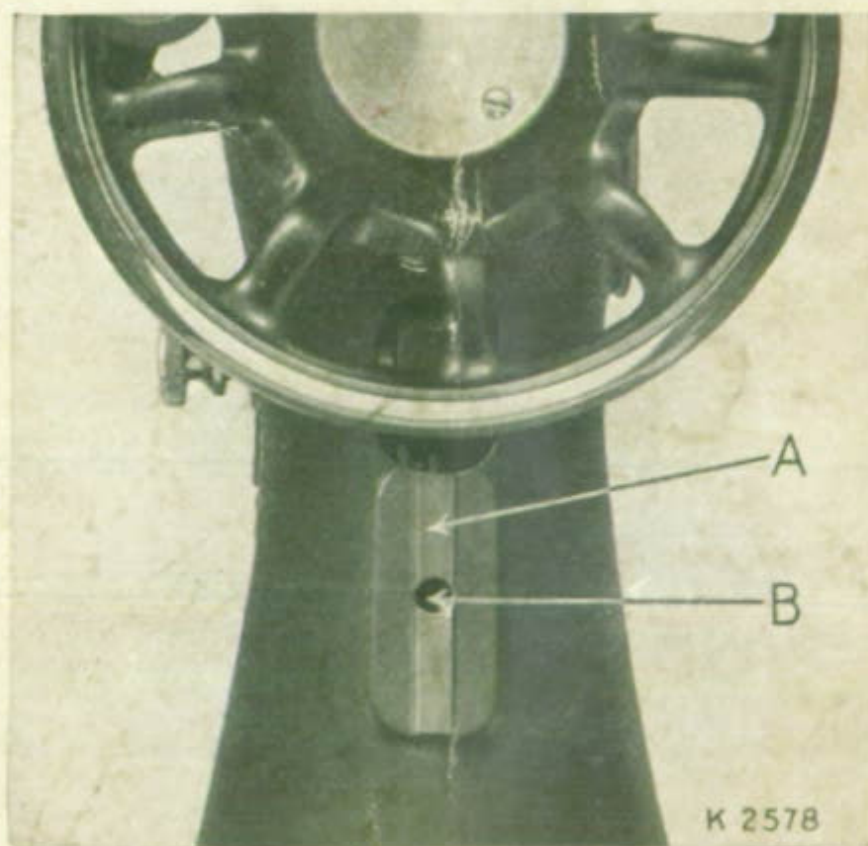


Fig. 1. Removing Japan from Tongue.

This is necessary so that the bracket will slide up and down freely.

Place the motor bracket on the tongue, as shown in Fig. 2, so that the hole (B, Fig. 1) in the centre of the tongue can be seen through the slot (C, Fig. 2) in the motor bracket; then insert the screw (D, Fig. 2) and, after moving the motor upwards as far as it will go, tighten the screw.

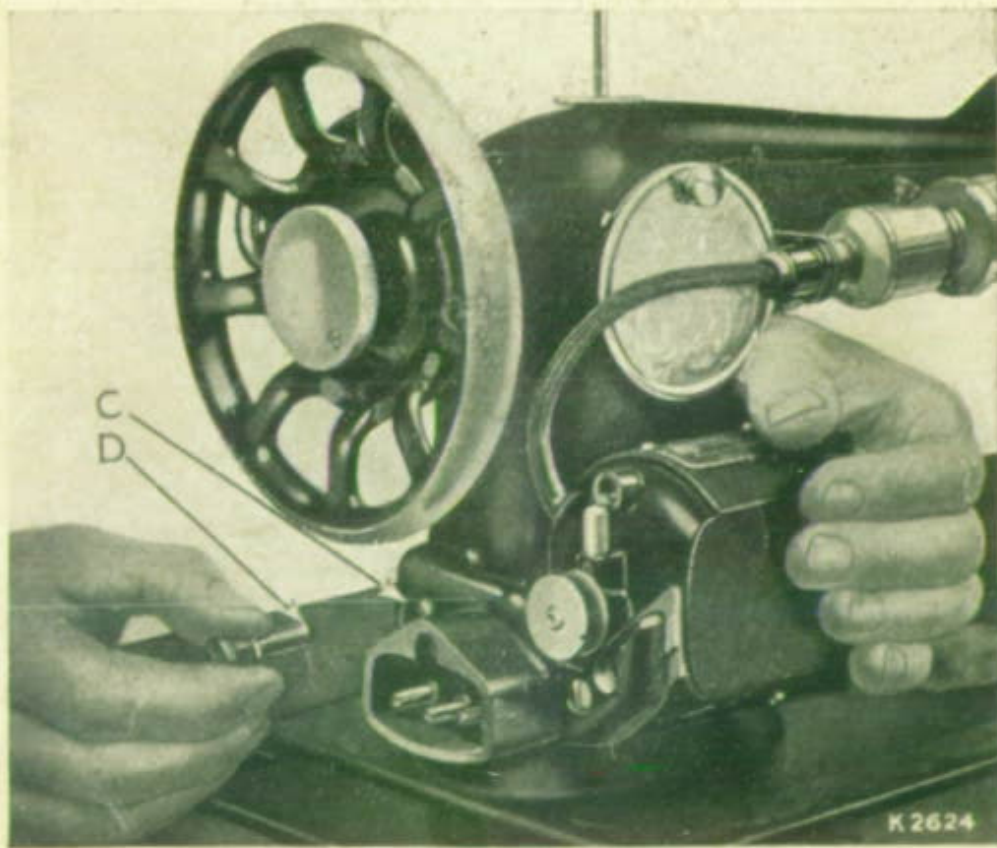


Fig 2. Placing the Motor in position.



### Putting on Fabric Belt.

Place the fabric belt over the top of the balance wheel into the groove at its back, as shown in Fig. 3, and then force it into the groove in the motor pulley,

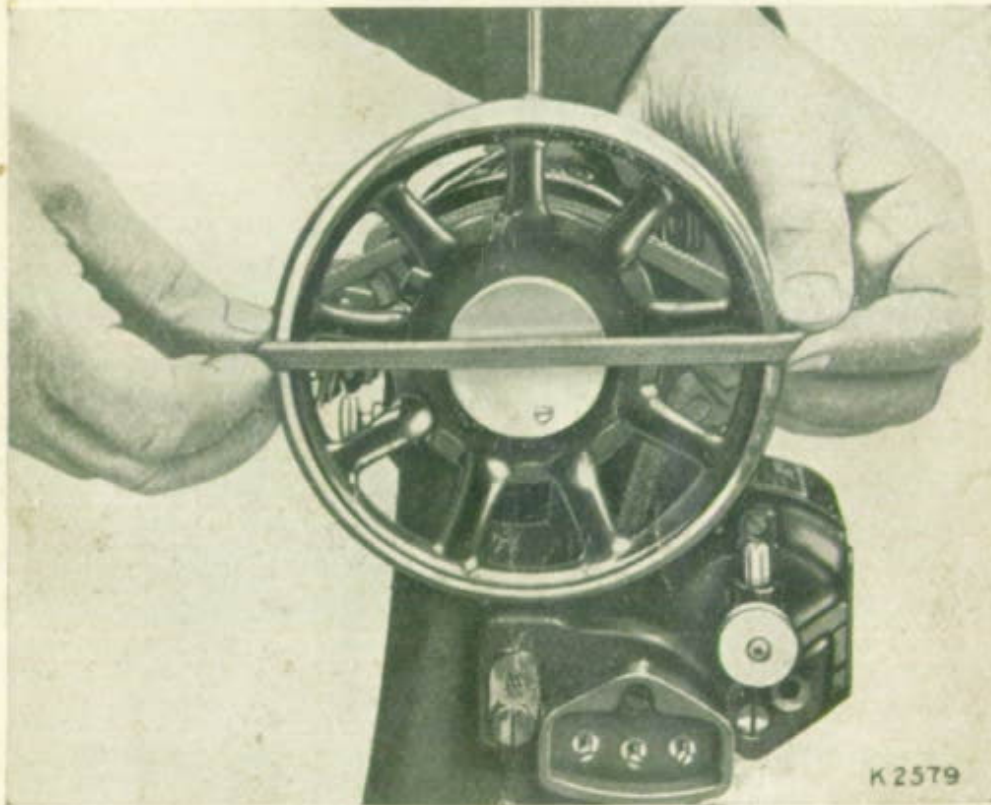


Fig 3. Putting on Fabric Belt.

in the manner shown in Fig. 4. The latter is easily accomplished by placing the belt half over the motor pulley (E, Fig. 4) and holding it firmly in position with the thumb and forefinger of the right hand; a slight turn of the balance wheel will then cause it to spring into position



Fig. 4. Springing Belt into Position.

### Regulating the Belt Tension.

To adjust the belt tension, loosen the screw (D, Fig. 5); this will allow the motor to drop downward. Now firmly retighten the screw, and the belt will be found to have the correct tension.

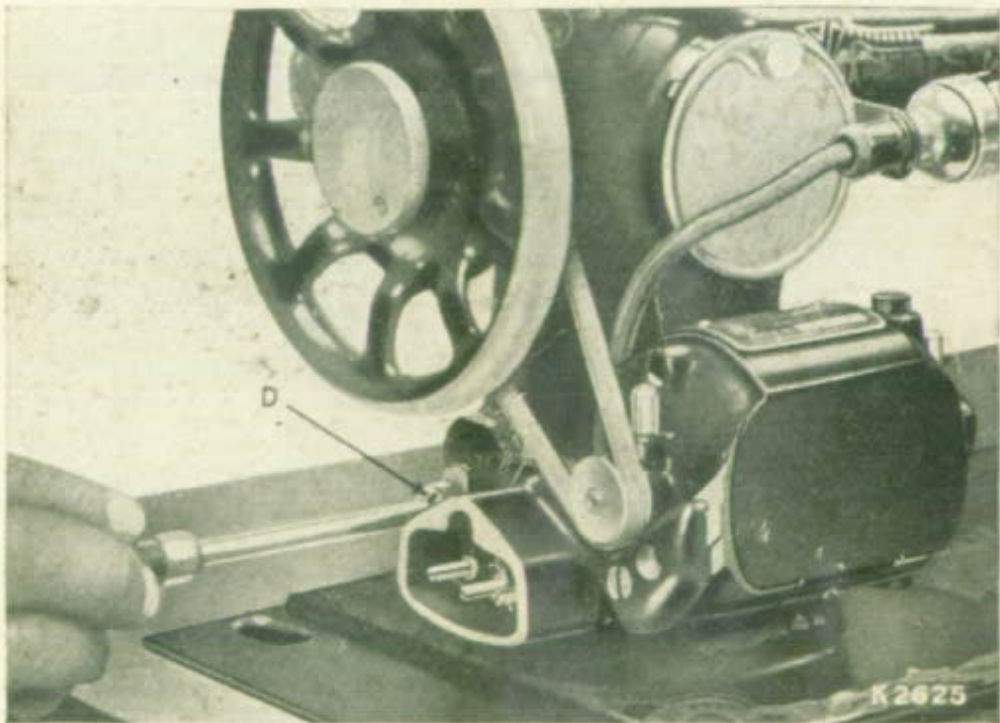


Fig. 5. Regulating the Belt Tension.



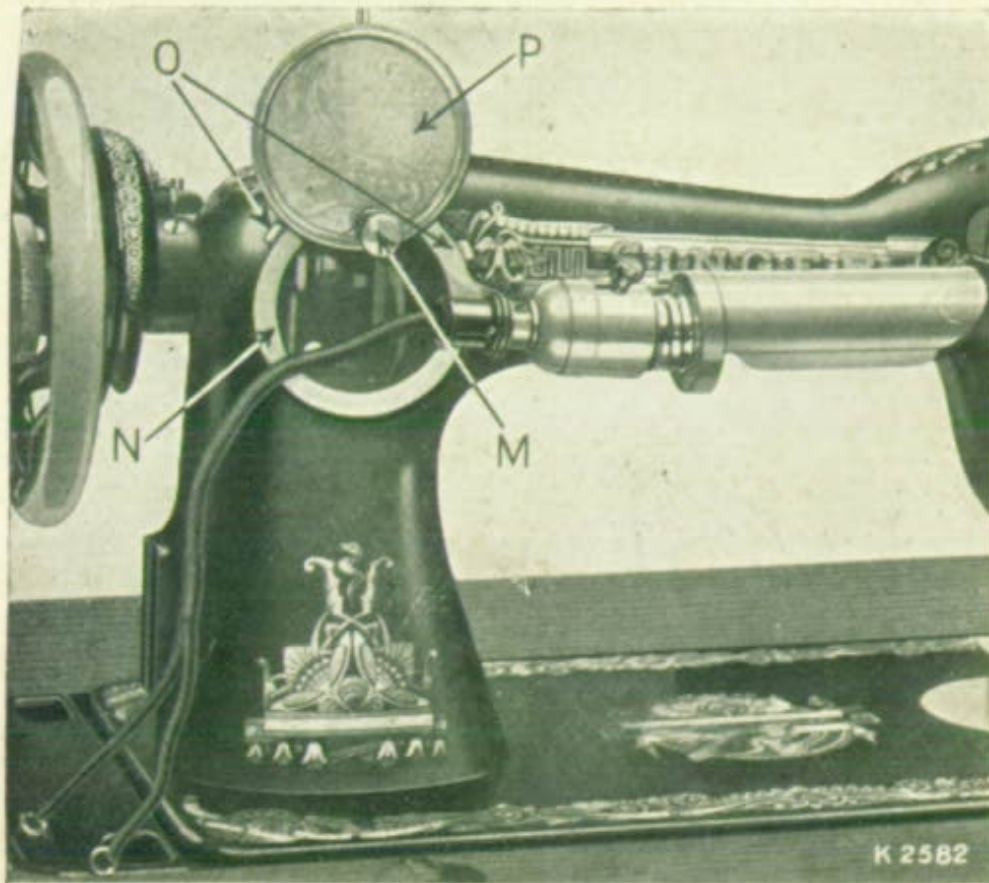


Fig. 6. Applying the Singerlight.

### Applying the Singerlight.

(See Fig. 6)

Remove the screw (M, Fig. 6) which holds the cover plate (P, Fig. 6) in position, and place the ring bracket (N, Fig. 6) over the opening, having the two small lugs (O, Fig. 6) in the position shown. These lugs are intended to maintain the Singerlight in the horizontal position. Place the cover plate (P) over the ring bracket and insert the screw (M) through the holes in both and into the hole in the arm of the machine. Turn the cover plate down to its normal position, and retighten the screw.



## Electrical Connections.

The motor, controller, and Singerlight are supplied fitted with flexible cords for making the necessary electrical connections.

These connections are made as follows:—

Remove the terminal block (R, Fig. 7) by taking out the screw (S, Fig. 7). Then remove the three

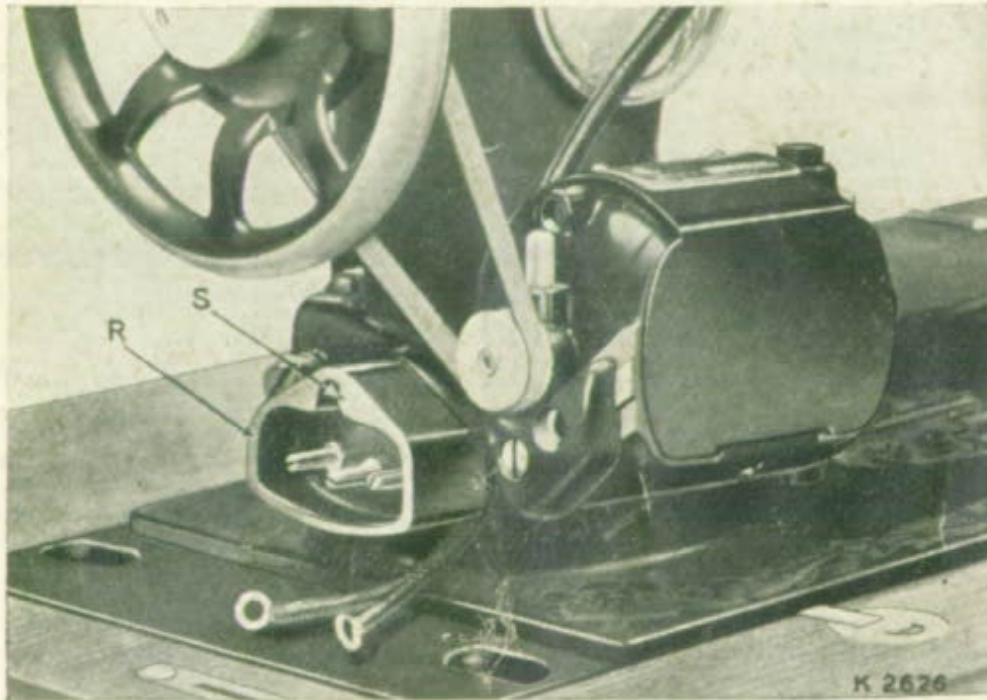


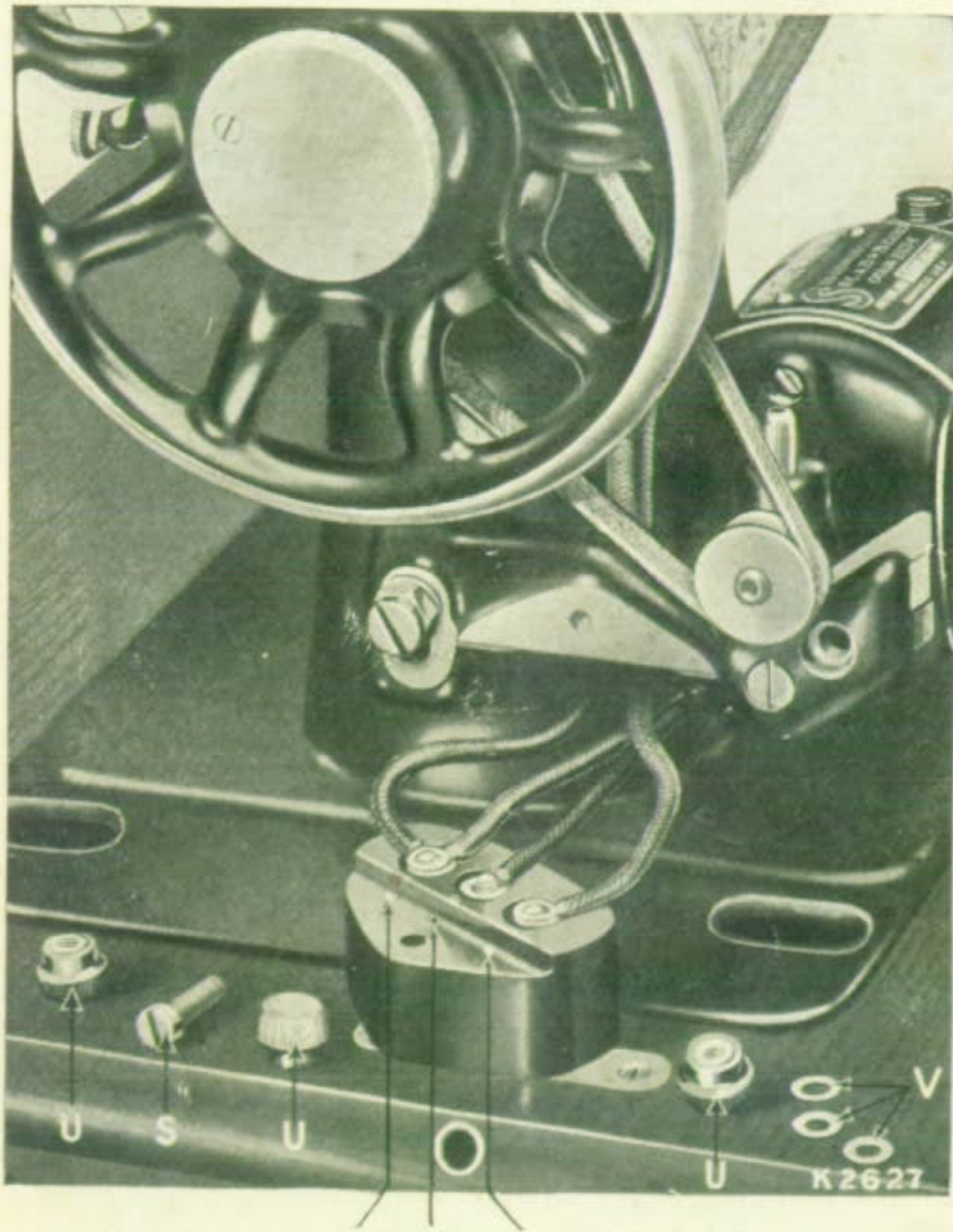
Fig. 7.

insulated thumb nuts (U, Fig. 8). It will be noticed that the terminal block has three screw posts, and that those to the outside have distinctive coloured spots against them.

The leads for the motor are coloured red and black. The eyelet of the red lead should be placed on the post nearest the red spot, and the eyelet of the black lead on the centre post.

Place the eyelet at the red end of the Singerlight lead on the post nearest the red spot and the eyelet of the yellow end on the post nearest the yellow spot.

Replace the three thumb nuts (U), tightening the latter securely ; then, with the screw (S), fasten the terminal block to the motor bracket, as shown in Fig. 7.



Red Black Yellow

Fig. 8. Attaching the leads.



The wire lead for plugging into the supply, as also the lead for the foot controller, are attached to the socket plug, as shown in Fig. 9.

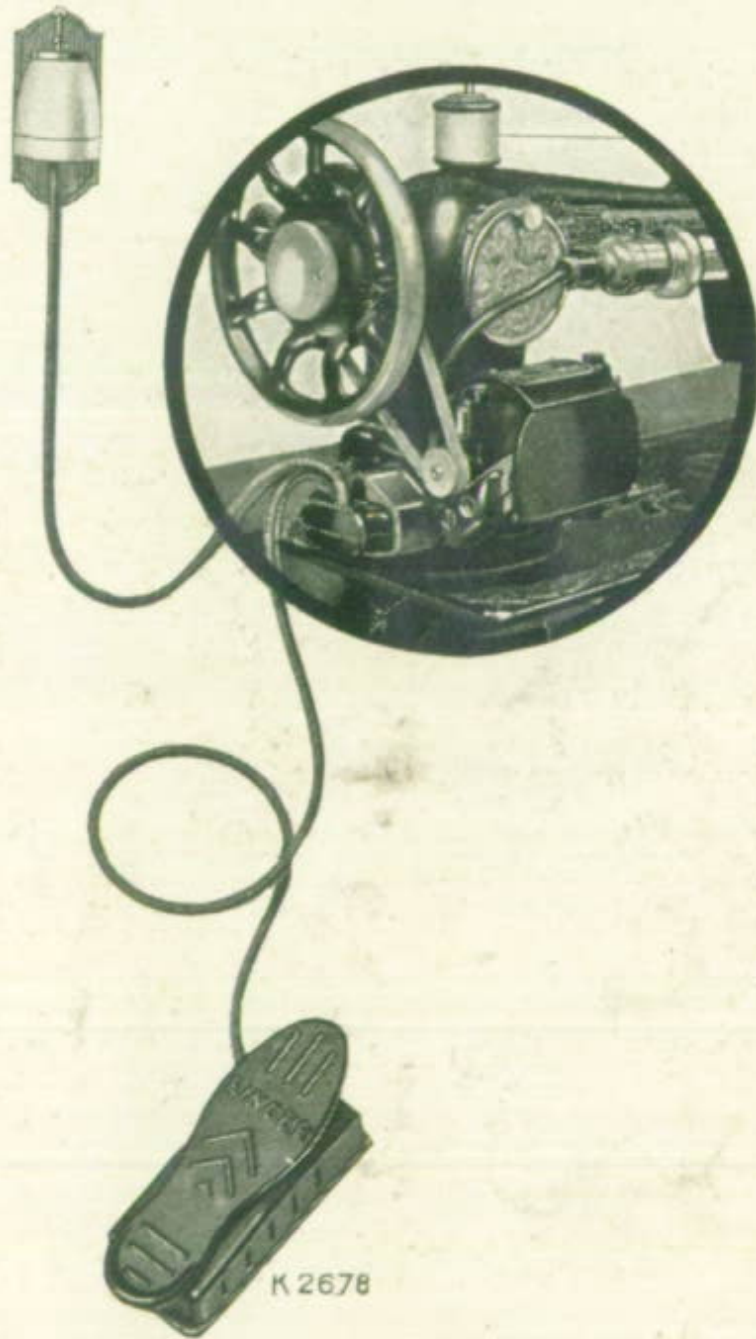


Fig 9.

### **Foot Controller.**

The foot controller should be placed on the floor in a convenient position for the user's right foot.

### **Speed.**

The speed of the machine is at all times under perfect control. Pressure of the foot on the lever of the foot control will set the machine in motion, the speed being regulated by the amount of pressure applied to the lever.

Speeds varying from bare movement up to 1000 stitches per minute can be obtained, as required by the work in hand. Immediately the pressure on the lever is withdrawn, the machine will stop. It is not necessary to touch the balance wheel as the machine will always start in the right direction.



## Embroidery and Darning.

For embroidery and darning, the machine requires to be operated at a low speed. Light pressure of the foot on the foot control lever will set the machine in motion at a low speed suitable for the convenient handling of materials being darned or embroidered.

To prepare the machine for this work, remove the presser foot and raise the presser bar. Then adjust the stitch-regulating screw, so that the feed will be inoperative.

It is advisable that the throat plate be covered with the supplementary plate made for the purpose, and it is essential that an embroidery hoop be used for clamping the material. The purpose of the latter is to keep the work taut and to permit of it being conveniently moved backward and forward and from side to side by hand between the stitches.

Feed cover plates and wooden hoops can be obtained at any Singer Shop or of any Singer salesman at small cost.

Darning by machine, when well done, is almost imperceptible. It is far stronger and better than hand work, and is much more quickly executed.

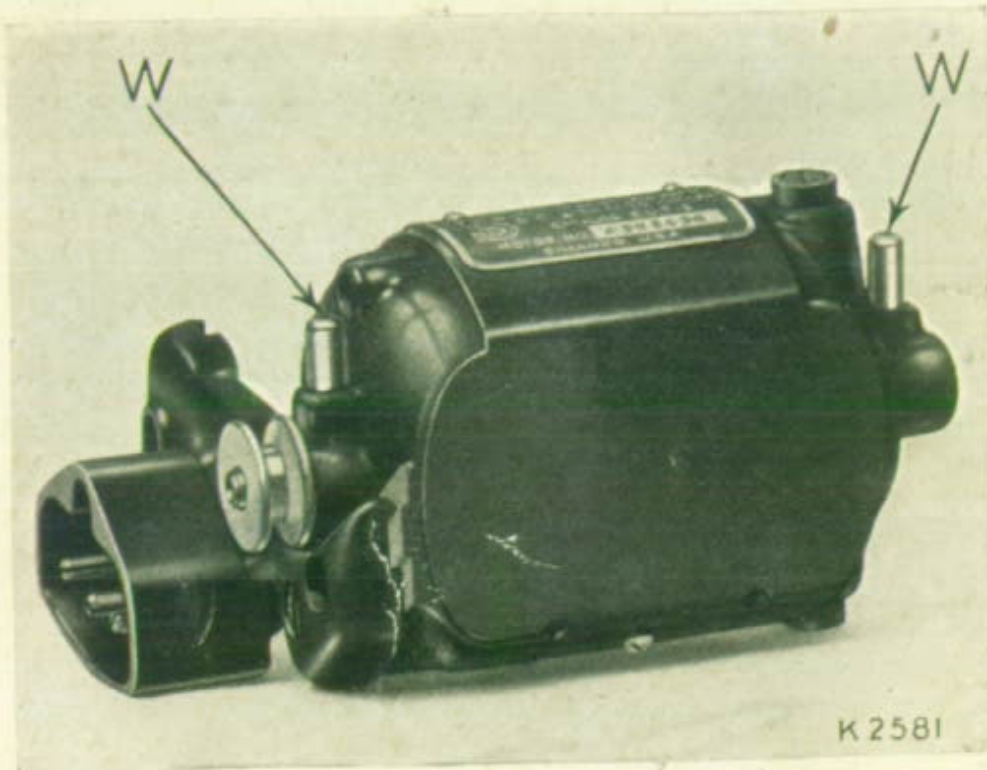


Fig. 10.

### To Lubricate the Motor.

When sent from the factory the motor is lubricated sufficiently for approximately six months' use.

A tube of Singer Motor Lubricant is furnished with each outfit. This tube has a tip which will fit into the two lubricating holes (W.W., Fig. 10) leading to the motor bearings.

**Never under any circumstances apply oil to any part of the motor.** Singer Lubricant, which is specially compounded for use with Singer motors, will remain just where it is wanted in the motor bearings, while oil would work its way into the commutator and brushes, giving rise to considerable trouble and vexation, such as difficulty in starting, over-heating, smoking, etc.



### To Remove the Bulb.

To remove the bulb, hold the Singerlight socket tightly with one hand, and with the other turn the shade half-way round until the pin in the socket is opposite the slot in the shade collar. Then gently pull the shade forward and allow it to hang free, as shown in Fig. 11.

Switch Button	Socket Pin	Bulb Pin
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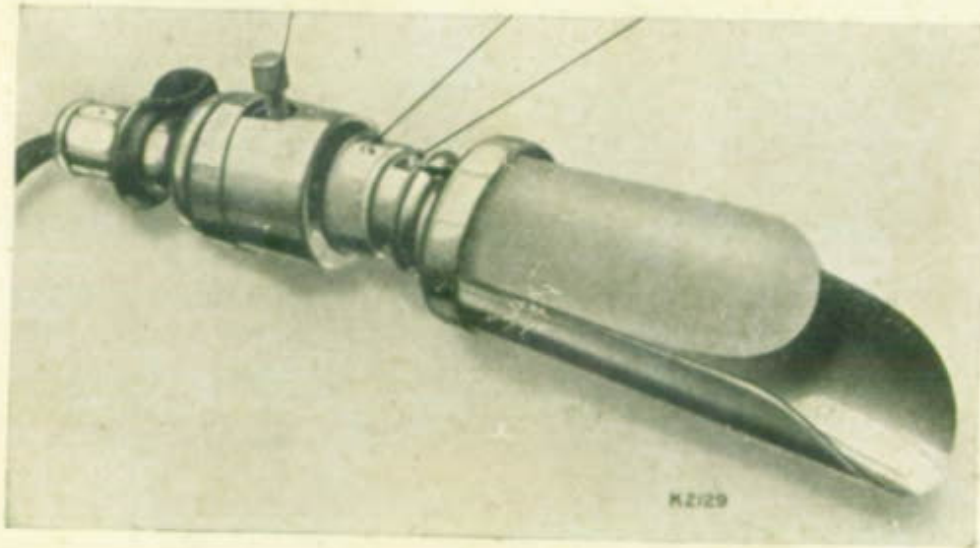


Fig. 11.

Press the bulb into the socket, and, at the same time, turn it away from the machine until the bulb-pin is out of the notch. Then withdraw the bulb and shade.

### To Replace the Bulb.

Pass the metal end of the bulb through the collar of the shade, with the slot in the shade collar upward. Hold the socket tightly with one hand, and with the other hand press the bulb into it, with the bulb-pin in the slot of the socket. Next, turn it towards the machine until this pin is in the notch; then slip the shade over the socket, with the socket-pin in the slot of the shade collar. See that the shade is pressed well home, so that the pin is opposite the ridge in the shade collar. Then turn the shade until it is at the top.

### To Light the Lamp.

To obtain light, push the small knob on the top of the lamp over towards the lamp shade.





*Form K3691*



THE IMPORTANCE OF USING  
SINGER NEEDLES FOR YOUR  
SEWING MACHINE

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You will obtain the best stitching results from your sewing machine if it is fitted with a Singer Needle.

✠

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is on the Arm of every  
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