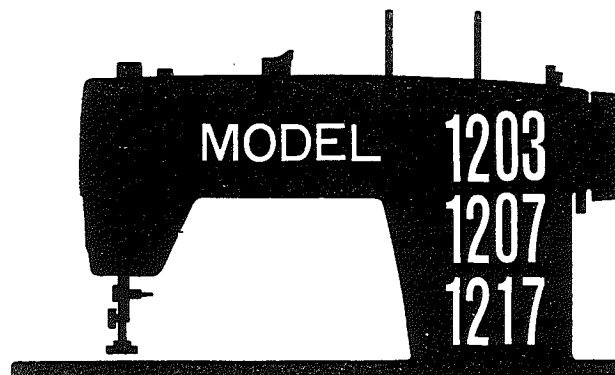


Kenmore

I N S T R U C T I O N S

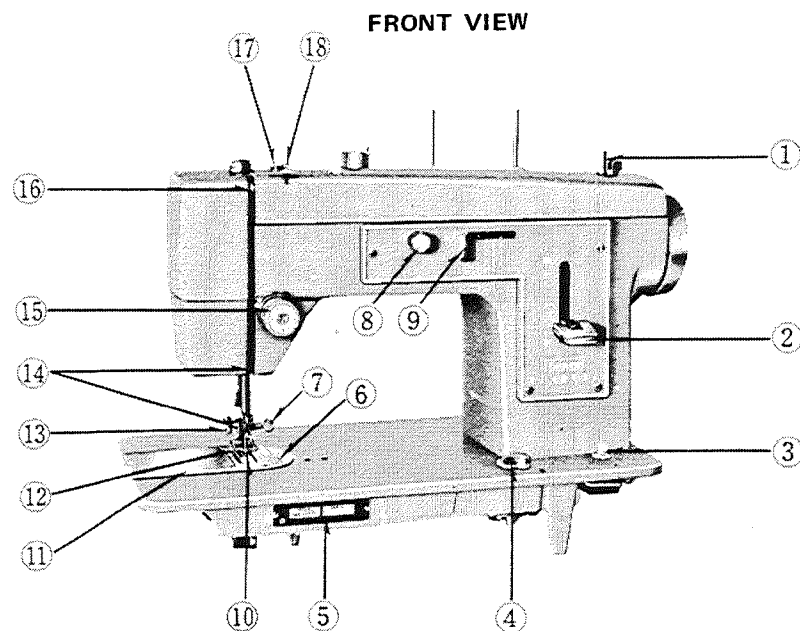


ZIG-ZAG SEWING MACHINE

P/N 52882

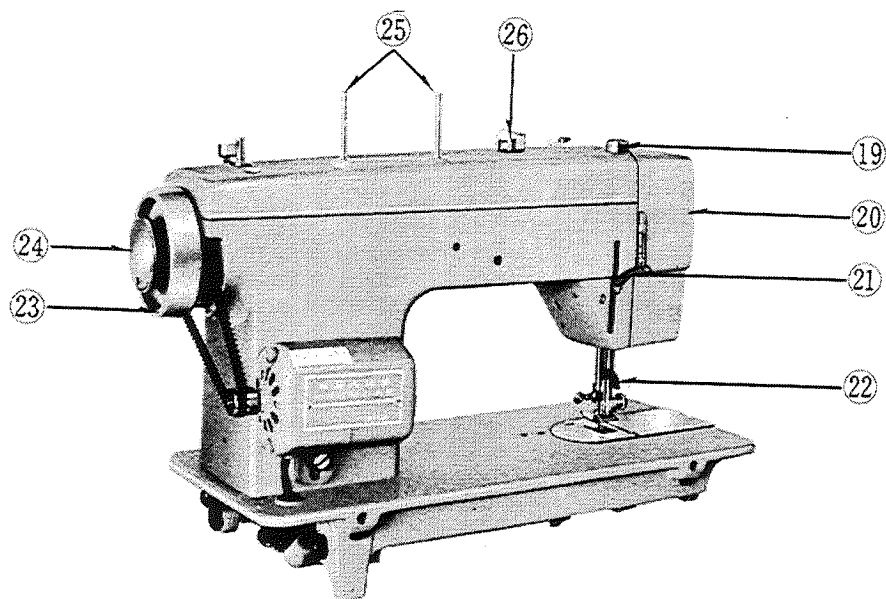
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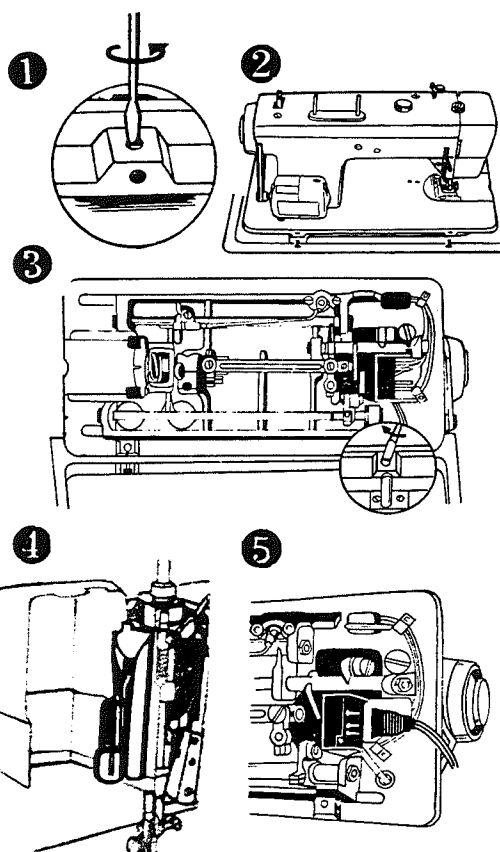
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| 2. Stitch Length Control | 8. Stitch Width Lock | 14. Thread Guides |
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| 4. Feed Dog Control | 10. Feed Dog | 16. Thread Take-up Lever |
| 5. Nomenclature Plate | 11. Hand Hole Cover Plate | 17. Bobbin Winder Thread Guide |
| 6. Needle Plate | 12. Presser Foot | 18. Upper Thread Guide |

BACK VIEW



- 19. Presser Foot Pressure Regulator
- 20. Face Plate
- 21. Presser Foot Lever
- 22. Thread Cutter

- 23. Hand Wheel
- 24. Clutch Knob
- 25. Thread Spool Pins
- 26. Blind Stitch Knob
(Models 1207, 1217 only)



INSTALLING MACHINE HEAD IN PORTABLE AND CABINET

Loosen the two hinge screws under holes in the rear edge of the machine bed (1).

Raise hinge pins in the cabinet cutout (2).

Slip machine head onto the pins and tighten hinge screws securely (3).

Lower machine head to front flap.

Screw spool pins in place. Lay the plastic discs over the spool pins. Discs and pins are packed in the accessory box.

SEWING LIGHT

The sewing light is located inside the face plate as shown. It may be turned on or off by pushing the light switch. To remove the bulb, disconnect the sewing machine and swing open the face plate. Push bulb in slightly, turn it counterclockwise and remove. To replace, push new bulb in and turn clockwise. See illustration 4.

CONNECTING MACHINE

Push foot or knee control connector onto three-prong connector under the machine bedplate. See illustration 5. Push the two prong plug of the control into any 110-120 V. wall outlet.

NEEDLE AND THREAD TABLE

THREAD SIZE	NEEDLE SIZE	FABRIC
Cotton 60-100 Synthetic Silk A	11	Sheer cottons, silks, and synthetics Fine Laces
Cotton 60-80 Mercerized 50 Synthetic Silk A	14	Medium weight cottons Medium weight silks Medium weight synthetics Light weight woolens
Cotton 40-60 Mercerized 50 Mercerized heavy duty	16	Heavy weight cottons Medium to heavy weight woolens Heavy drapery fabrics
Cotton 30-50 Mercerized heavy duty	18	Heaviest cottons as for men's work clothes Heaviest woolen coating

NEEDLE SIZE

Use KENMORE needles. The size of the needle should conform to the size of the thread and both should be suitable to the material. The same size thread should be used in the bobbin as on the upper part of the machine for ordinary sewing.

Never use a bent needle nor one with a blunt point.



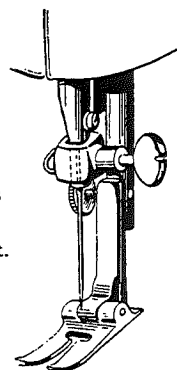
This is the exact length of the needle to be used in your machine. Comparison with this illustration will determine whether the needle you have is the correct one for your machine.

PLACEMENT OF NEEDLE

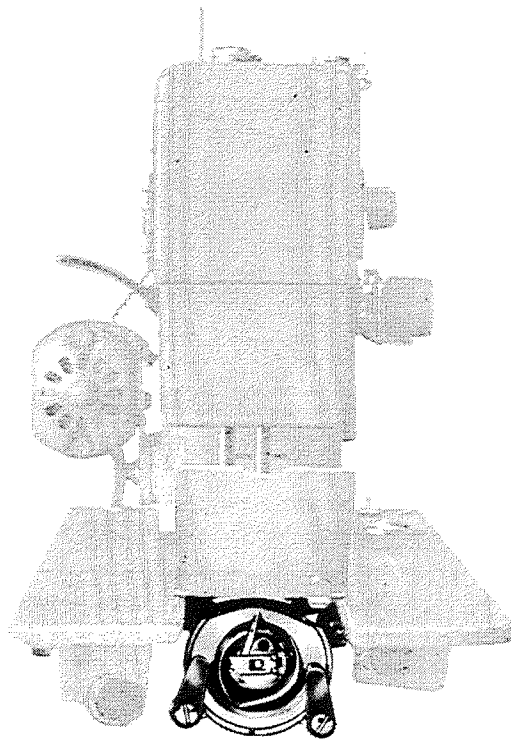
Raise take-up lever to its highest position by turning hand wheel toward you. Loosen needle clamp screw.

Hold needle so that the flat side is to your right, slip blunt end of needle as far as it will go into needle clamp. Tighten needle into place with clamp screw.

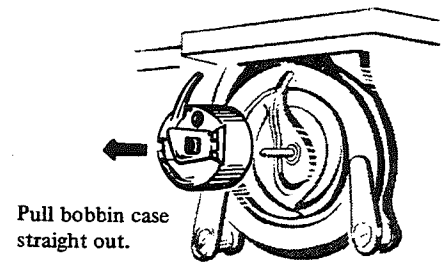
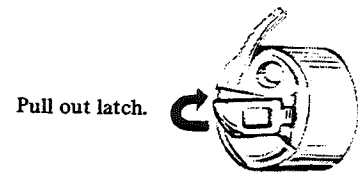
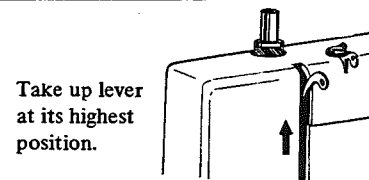
Flat
side
faces
to
right.



REMOVING BOBBIN CASE FROM SHUTTLE



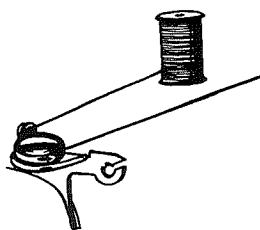
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WINDING THE BOBBIN

①

Place thread on spool post. Draw thread as shown.



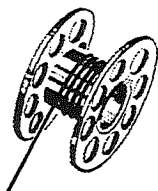
④

Release clutch by turning clutch knob toward you. Start machine.



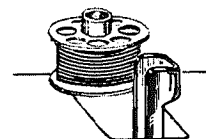
②

Wind thread around bobbin a few times, front to back.



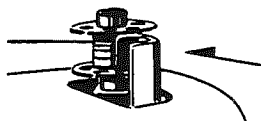
⑤

When bobbin is full, winding mechanism stops.



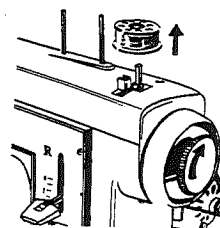
③

Place bobbin onto bobbin winder shaft. Push bobbin winder latch until it clicks.



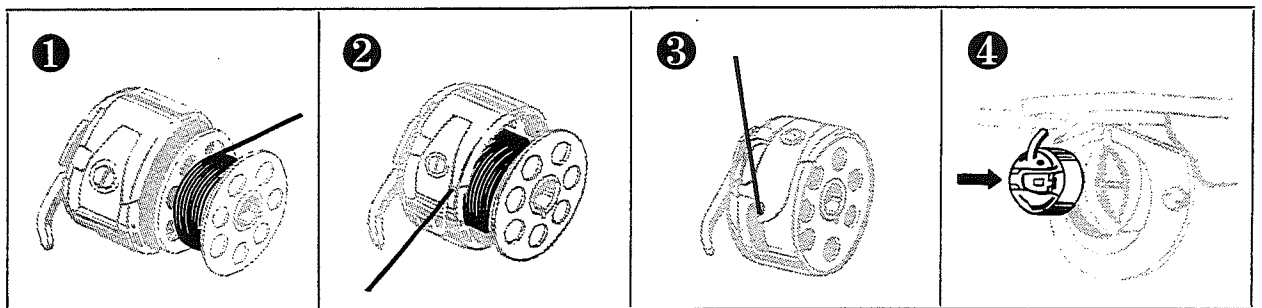
⑥

Tighten clutch knob and remove bobbin.

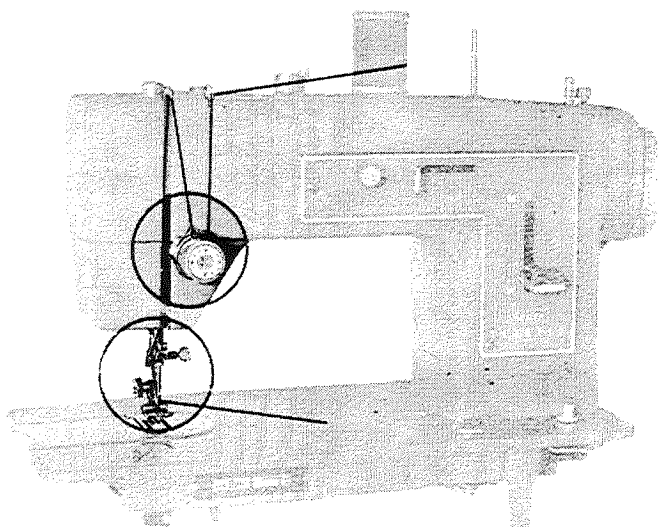


INSERTING BOBBIN INTO BOBBIN CASE... CASE INTO SHUTTLE

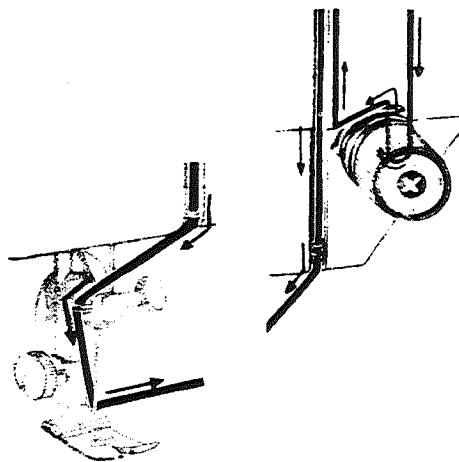
- (1) Guide bobbin onto center pin of bobbin case.
- (2) Pull thread through slot.
- (3) Pull thread under tension spring.
- (4) Holding latch, position case into shuttle, then release latch.



THREADING UPPER MACHINE



Place thread as illustrated between discs of the Thread Tension Control. Prevent the spool of thread turning and by holding the end of the thread pull spring wire loop clockwise past the top hook, then, pull thread to left so that the thread can slip into the hook. When thread tension is released, the spring wire loop will return to position as shown with the thread in proper place. Release spool of thread and continue to thread machines as illustrated.



PICKING UP BOBBIN THREAD

Raise presser foot lever.

Hold needle thread loosely in left hand and rotate hand wheel toward you one complete turn. Bring bobbin thread up by pulling upper thread (See illustration).

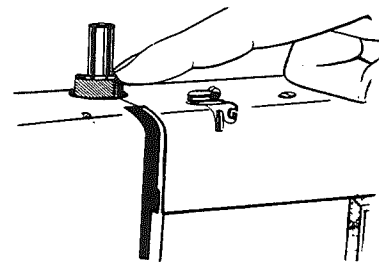
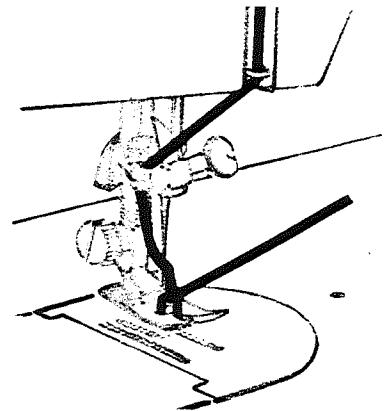
Place threads back under presser foot.

ADJUSTING THE PRESSURE OF THE PRESSER FOOT

Push down outer ring of presser foot pressure regulator (See illustration). This will release pressure of presser foot. To increase pressure, push down inner pin until suitable pressure is obtained.

For ordinary sewing, the inner pin should be about half way down. When sewing multiple thickness or heavy material, reduce the pressure. Increase it when sewing sheer fabrics.

Insufficient pressure may cause skipped stitches or difficulty in guiding the fabrics. If feed dog or presser foot marks appear on the fabric, reduce the pressure.



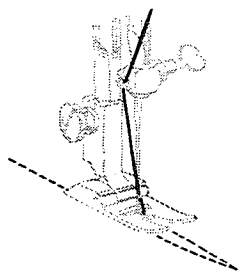
SETTING STITCH LENGTH

Loosen knob and move stitch length control lever to the desired position between 0 and 4. The 4 setting is the longest stitch. The size of stitch you select will depend on the fabric you want to sew. Select stitch length and tighten knob so that forward and reverse stitches will be approximately the same size. The blind stitch knob must be on the "OFF" position for all operations except blind stitching. For straight stitching the stitch width control must be set at 0.

REVERSE STITCHING

Raise lever for reverse stitching. Lower lever for forward stitching.

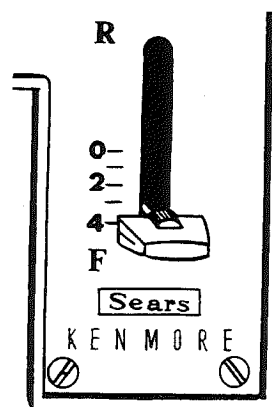
It is best to begin and end most seams with reverse stitching often called back tacking.



FASTENING A SEAM

Be sure both threads are drawn back under the presser foot. Lower needle into fabric about $\frac{1}{2}$ inch from beginning of seam. Raise stitch length control lever up for reverse stitching. Stitch in reverse until needle reaches beginning of seam.

Move stitch length control lever down for forward stitching and complete seam. When you reach the end, raise the stitch length control lever and sew back over $\frac{1}{2}$ inch of completed seam.



1

ADJUSTING TENSIONS



Fig. 1

A perfect stitch will have threads locked between the two layers of fabric with no loops on top or bottom.

PROBLEM		REMEDY	
<p>2 Upper thread too tight</p> <p>Fig. 2</p>		<p>Decrease Tension</p>	
<p>3 Upper thread too loose</p> <p>Fig. 3</p>		<p>Increase Tension</p>	

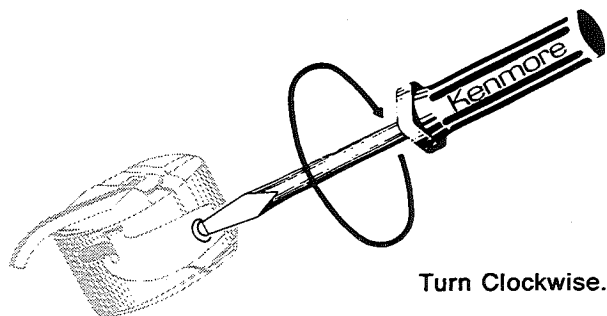
NOTE: Never adjust more than one number at a time.

When stitching is unsatisfactory as in figures 2 and 3, adjust the upper thread tension. Lower thread tension requires adjustment less frequently than the upper thread tension.

When stitch is satisfactory, as in figure 1 and seam is badly puckered, the cause may be tight tensions and both upper and lower may be adjusted. (See page 26)

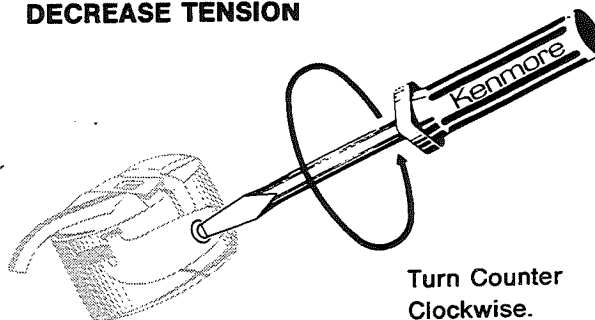
When adjusting the tension on the bobbin case, make slight adjustments with a screwdriver. (See page 26)

INCREASE TENSION



Turn Clockwise.

DECREASE TENSION



Turn Counter
Clockwise.

INSERTING AND REMOVING THE MATERIAL

For all kinds of sewing, consult chart page 5. Before placing the material on the machine see that:

- The presser foot and needle clamp screws are both tight.
- The sizes of needle and thread suit the kind of work to be done.
- The needle and the thread take-up lever are at their highest position.
- The ends of threads have been drawn about 4 inches to the rear of the machine.
- The feed dogs are up.
- Stitch length and width controls are set at desired settings.

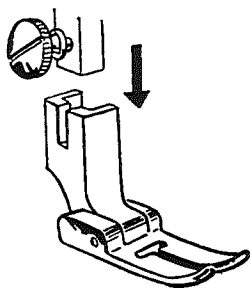
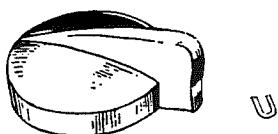
Experiment by sewing on the fabric to be used to determine tension adjustments and correct stitch settings.

Place material under the presser foot, insert the needle into the material by turning the hand wheel toward you, lower presser foot and start sewing.

To facilitate placement of heavy fabrics under the presser foot, the presser foot lever can be raised beyond the normal "up" position.

To remove the work, first turn the hand wheel toward you until the needle is at its highest position, then raise the presser foot, draw material to the rear and cut off excess thread with the thread cutter located on the presser bar.

IMPORTANT: Always turn the hand wheel toward you! When the machine is not being used, place a piece of material over the feed dog and lower the presser foot. Always have fabric under the presser foot when operating the machine. Operating threaded machine without fabric will cause it to jam by forcing lint into the shuttle.



TURNING A CORNER

Stop your sewing machine and make sure needle is in fabric. Raise presser foot. Turn fabric to desired direction. Lower presser foot and go on with your stitching.

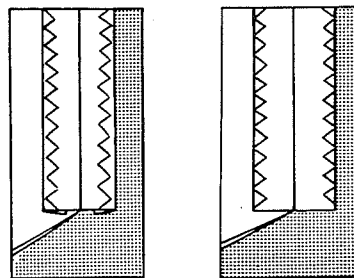
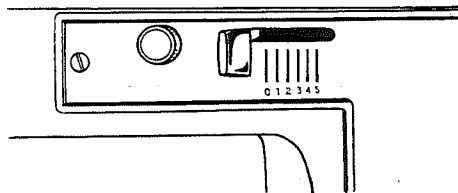
FEED DOG CONTROL

This knob is situated on right front of machine bed. When knob is turned to the left, feed dog does not move material. This allows the operator freedom of movement of material. For regular sewing, turn knob to the right, "U" (Feed dog up).

CHANGING THE PRESSER FEET

The various presser feet available for certain kinds of work are to be fastened to the presser bar.

To attach the foot, raise the presser bar to its highest position by raising the presser foot lever. Loosen the presser foot thumb screw, choose the proper foot, insert from the front. Tighten the screw using the large screwdriver and make sure that the foot is secure.



ZIGZAG CONTROL

SETTING STITCH WIDTH

Move stitch width control lever to the desired position between 0 and 5 on the stitch width indicator plate. Zigzag stitch width increases from 0 to 5. Straight stitching is possible only with control on 0.

LOCKING STITCH WIDTH

Loosen the stitch width lock knob. Move the stitch width control lever to the desired position and tighten lock knob firmly.

OVERCASTING

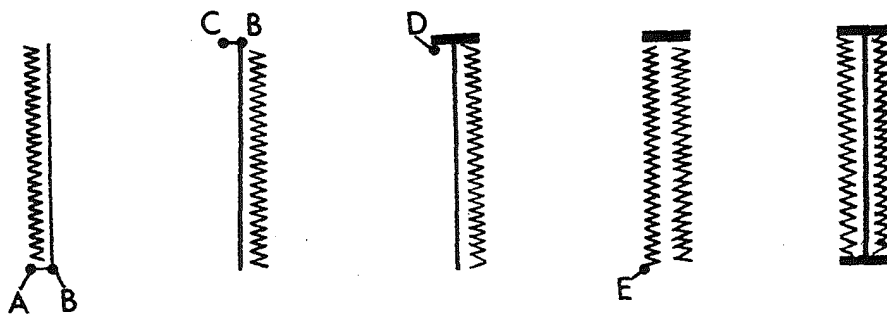
Set stitch width to 5. Set stitch length at 4. Zigzag stitch around raw edge of fabric to completely cover the edge.

BUTTONHOLES

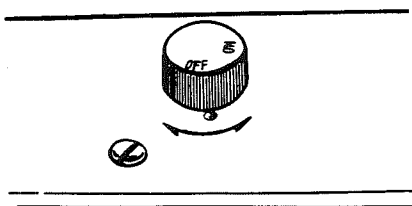
Stitch length about $\frac{1}{2}$
Stitch width about 2
Feed dog control to right

1. Stitch forward until desired length for buttonhole is obtained. Stop with needle on the left side of stitching (A). Drop feed dog, set stitch width control on $2\frac{1}{2}$ and take one stitch to the right (B).
2. Raise presser foot and turn material with needle in material. Lower presser foot and take one stitch to the left (C).
3. Push stitch width control lever to 5 and sew 4 stitches. This method of fastening the ends of buttonholes is called bartacking. Bartacking should be completed with needle on the left side (D).
4. Set stitch width back to 2. Raise feed dogs and sew back to other end of buttonhole. Stop with needle on the left (E).
5. Push stitch width control lever to 5. Drop feed dog and bartack. Raise feed dog.

It is recommended that tailor's chalk be used to determine length of buttonhole before sewing. For a firm buttonhole, the stitching can be repeated over the same area, then cut buttonhole opening. For a professional look to your buttonhole use an interfacing between the layers of fabric.

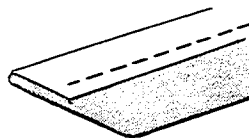


BLIND STITCHING
(Models 1207, 1217 only)



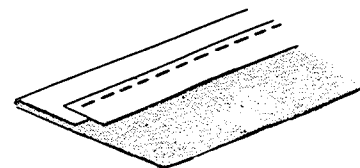
The Blind Stitch Knob must be on the "OFF" position for all operations except blind stitching.

①



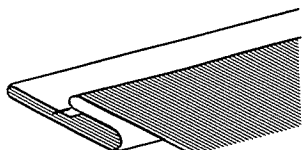
1. Prepare the hem with a turned and edgestitched finish, or

②

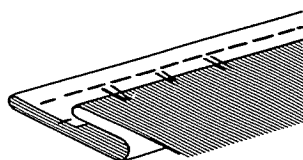


2. Apply seam tape along the raw edge with either straight or zig zag stitching, then fold hem as shown.

3



4



5



3. Make second fold as shown.

4. Turn blind stitch knob to set its "ON" mark at the dot. Set stitch width at 0 and stitch length 2-3 (as desired). Then, blind stitch along fold until hem is completed.

5. Unfold, exposing right side of material with completed blind stitching. Press hem.

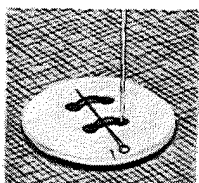
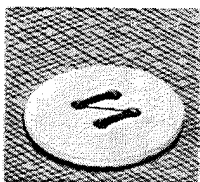
DARNING

WITH PRESSER FOOT :

1. Turn feed dog control to left.
2. Press down outer ring of presser foot pressure regulator, see page 10. With regulator in this position mending, monogram work, etc. may be done.
3. Stretch fabric tightly between two spring embroidery hoops and place under needle. The presser bar can be raised to accommodate the embroidery hoop by pulling up on the presser foot lever.
4. Lower presser bar so thread will have some tension. When you start to darn, move fabric back and forth to cover darning area. Then turn fabric and continue sewing at right-angles to the previous stitching. Always use medium machine speed. You can make any length stitches desired. Slow movement of fabric will make short darning stitches. Fast movement will make long stitches.
5. When you finish darning, raise presser foot and remove fabric. Increase pressure of presser foot for general sewing by pressing center pin of presser foot pressure regulator. Turn feed dog control to right.

WITHOUT PRESSER FOOT :

1. Turn feed dog control to left.
2. Remove presser foot.
Proceed as directed under steps 3 and 4 above.
3. When you finish darning, raise the presser bar and remove fabric. Replace presser foot.
Turn feed dog control to right.



SEWING ON BUTTONS

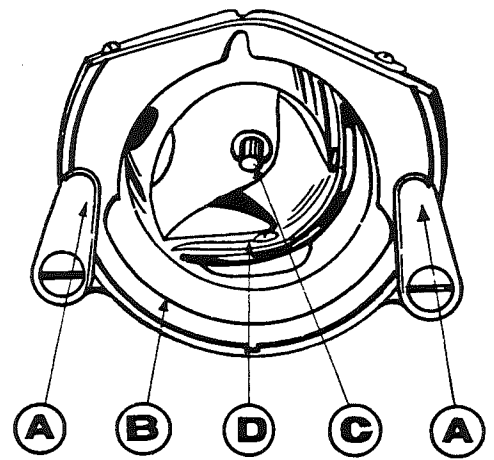
1. Turn feed dog control to left. Place needle into left hole of button, align holes with slot of presser foot and lower presser foot.
2. Set stitch width control lever at width between holes of button. Test width by turning handwheel slowly. Take several zigzag stitches to sew on button, ending with needle on left side.
3. Set stitch width control lever at 0. Take a few stitches in left hole of button to lock threads.

Pull threads to wrong side.

NOTE: To make a small thread shank when sewing on a flat button, place a straight pin or needle between the holes of the button.

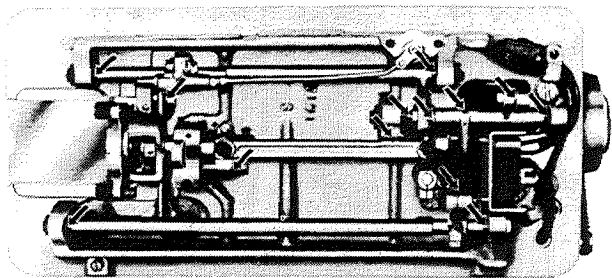
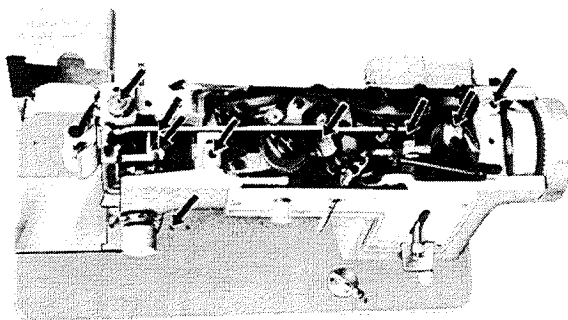
REMOVING LINT

1. Turn hand wheel toward you until needle is at its highest position. Remove bobbin and bobbin case.
2. Push levers (A) sideways.
3. Remove shuttle race cover (B). Then pull out shuttle (C) by grasping axle.
4. Remove accumulated lint and thread from all parts of shuttle race.
5. Replace shuttle in race body, with axle facing out, forming a perfect circle with driver (D).
6. Replace shuttle race cover (B), snap levers (A) into position, then insert bobbin and bobbin case.
7. Do not attempt to force any of the above operation.
8. Occasionally remove the needle plate and clean feed dog with a soft brush.



OILING MACHINE

Keep the moving parts free from dust and thread for quiet and efficient operation. Cleaning should be done with a small brush. When machine runs hard or makes excessive noise, place a drop of KENMORE sewing machine oil at the points indicated.



Tilt machine head back to oil points indicated on underside of machine head.

WHAT TO DO

PROBLEM	PROBABLE CAUSE	CORRECTION
Irregular Stitches	Incorrect size needle. Improper threading. Loose upper thread tension. Pulling fabric. Light pressure on presser foot. Loose presser foot. Unevenly wound bobbin.	Choose correct size needle for thread and fabric (page 5). Rethread machine (page 9). Tighten upper thread tension (page 12). Do not pull fabric; guide it gently. Increase pressure on presser foot (page 10). Reset presser foot. Rewind bobbin (page 7).
Breaking Needle	Pulling fabric. Incorrect size needle. Incorrect setting of needle. Loose presser foot.	Do not pull fabric; guide it gently. Choose correct size needle for thread and fabric (page 5). Reset needle (page 5). Reset presser foot .
Bunching of Thread	Upper and lower threads not drawn back under presser foot. Feed dog down.	Draw both threads back under presser foot (page 10). Raise feed dog .
Puckering	Incorrect thread tension(s). Light pressure on presser foot. Using two different sizes or kinds of thread. Bent or blunt needle. Loose presser foot. Fabric too sheer or too soft.	Reset thread tension(s) (pages 12, 13). Increase pressure on presser foot (page 10). Upper thread and bobbin thread should be same size and kind. Insert new needle (page 5) Reset presser foot. Use underlay of tissue paper or tarleton when stitching.

WHAT TO DO

PROBLEM	PROBABLE CAUSE	CORRECTION
Skipping Stitches	Incorrect size needle. Bent or blunt needle. Incorrect setting of needle. Tight upper thread tension. Light pressure on presser foot.	Choose correct size needle for thread and fabric (page 5). Insert new needle (page 5). Reset needle (page 5). Loosen upper thread tension (page 12). Increase pressure on presser foot (page 10).
Breaking Upper Thread	Starting to stitch too fast. Improper threading. Tight upper thread tension. Incorrect size needle. Sharp eye in needle.	Start to stitch at a medium speed. Rethread machine (page 9). Loosen upper thread tension (page 12). Choose correct size needle for thread and fabric (page 5). Insert new needle (page 5).
Breaking Bobbin Thread	Improper bobbin case threading. Tight bobbin thread tension. Lint in bobbin case or shuttle.	Check bobbin case threading (page 8). Loosen bobbin thread tension (page 13). Clean bobbin case and shuttle (page 22).
Fabric not Moving	Feed dog down. Light pressure on presser foot. Threads knotted under fabric.	* Raise feed dog. Increase pressure on presser foot (page 10). Place both threads back under presser foot before beginning to stitch.
Machine Jamming (Knocking Noise)	Thread caught in shuttle.	Disassemble and clean shuttle (page 22).

ADJUSTING YOUR SEWING MACHINE FOR GOOD STITCHES

When your sewing machine does not sew a properly locked stitch, check the following:

1. Insert a new needle of the correct size for the thread and fabric you are using.
Consult chart on page 5 for needle size.
2. The upper and bobbin thread should be the same thread.
3. Check threading carefully. See page 8–9.
4. Check the thread tension balance. Use mercerized thread and a correct size needle for the fabric you are using.
Do not try test with synthetic thread as it will not break. Begin with a full bobbin, properly threaded into the case. Set the stitch length at about 12 stitches per inch. Fold a 6 inch square of your fabric in half diagonally, forming a triangle. Make a line of stitching $\frac{1}{2}$ " from fold.
 - a. If seam is puckered—both tensions are too tight.
 - b. If bottom thread is looped—tighten upper thread tension, and repeat test.
 - c. If top thread lays in top of fabric—loosen upper thread tension, and repeat test.Grasp the stitching and pull evenly and firmly until one or both threads break.
 - a. If both threads break—tentions are balanced.
 - b. If neither thread breaks—both tensions are too loose.
 - c. If upper thread breaks—loosen upper tension.
 - d. If lower thread breaks—tighten upper tension.

Both threads do not have to break at the same place, but they should break on the same snap.

Bobbin tensions may also be reset by this procedure. Start with a loose bobbin thread tension.

Tighten the spring screw gradually until bobbin case and full bobbin can be gently lifted from your hand by the end of the bobbin thread.

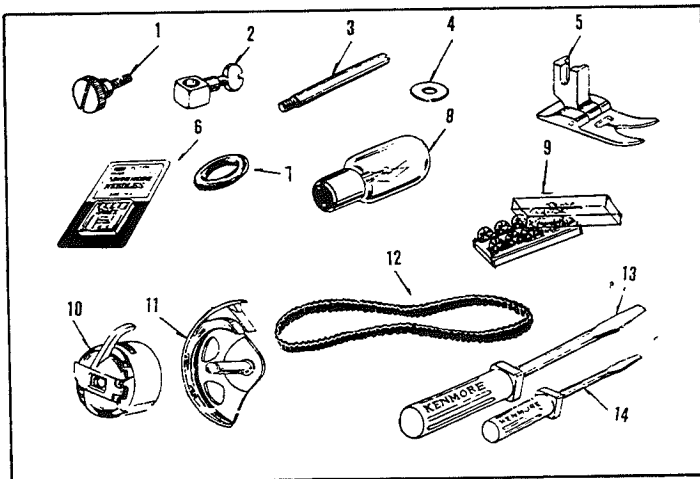
PARTS LIST

All parts listed here may be ordered through your nearest Sears or Simpson-Sears retail store, catalog sales office or mail order house.

When ordering these parts, please be sure to mention the following references:

1. Model & serial numbers of machine shown on the nomenclature plate. See page 2.
2. Parts number(s) and description(s) here.

When ordering by mail, prices will be furnished on request, or parts will be shipped at prevailing prices and you will be billed accordingly.



* These parts are not furnished with the machine, but may be ordered. (See above ordering information).

Ref. No.	Parts No.	Description
1	135	Presser foot thumb screw
2	201201	Needle clamp
3	8286	Thread spool pin
4	2273	Nylon disc
5	200618	Presser foot
6	*6740	Pack of #9 needles (Orange pack)
	*6741	Pack of #11 needles (Yellow pack)
	*6742	Pack of #14 needles (Red pack)
	*6743	Pack of #16 needles (Green pack)
	*6744	Pack of #18 needles (Blue pack)
7	1939	Bobbin winder rubber ring
8	6797	Light bulb
9	*6862	Pack of bobbin (10 pcs)
10	6510	Bobbin case
11	47	Shuttle hook
12	6915	Sewing machine belt
13	3015	Large screwdriver
14	3016	Small screwdriver

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SEWING MACHINE

Now that you have purchased your Sewing Machine, should a need ever exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. or Simpsons-Sears Limited Stores. Be sure to provide all pertinent facts when your call or visit.

The model number of your Sewing Machine will be shown on your nomenclature plate on the front side of bedplate of your Sewing Machine. See page 2 for location.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

*MODEL NUMBER *NAME OF ITEM *PART DESCRIPTION

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

**SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A. and
SIMPSONS-SEARS LIMITED, Toronto, Ontario, Canada**

Part No. 52882 (91)