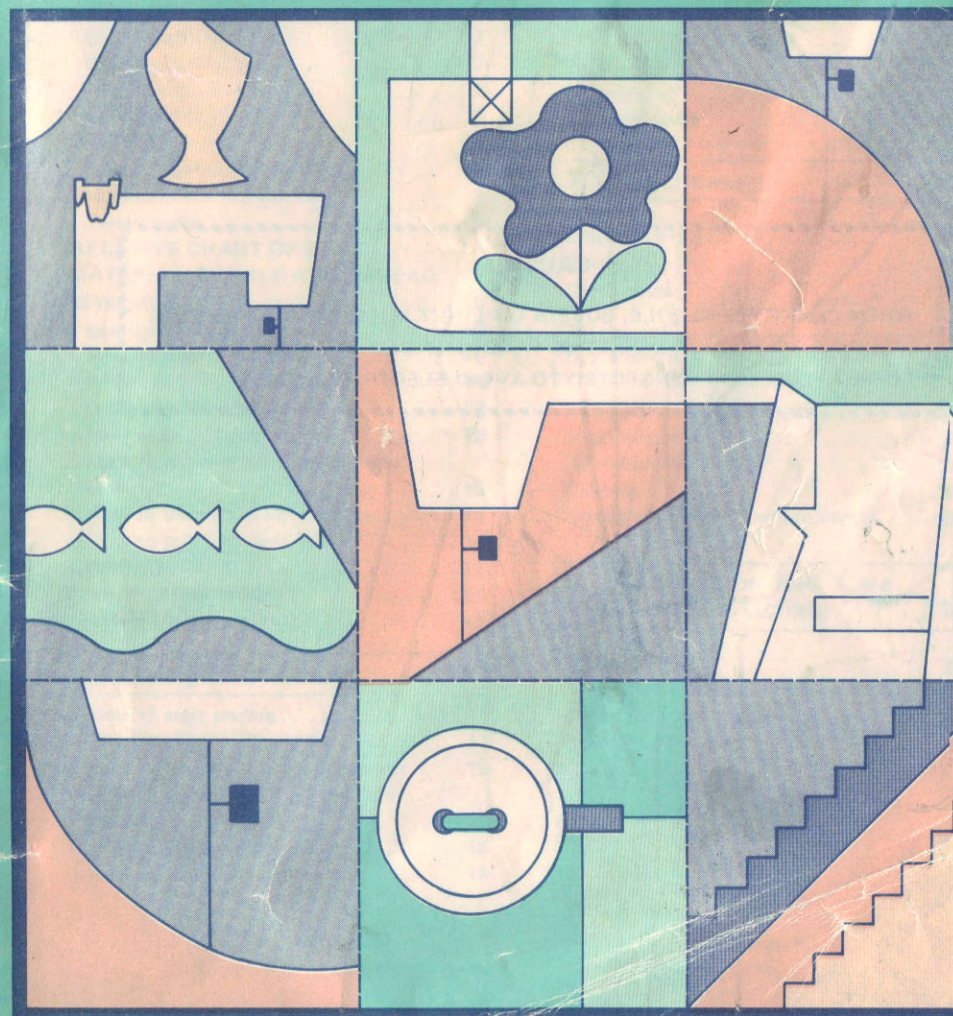


how to use and enjoy your

Sewing Machine



MODEL VX641
ENGLISH

191641-0-11

PRINTED IN TAIWAN

CAUTION

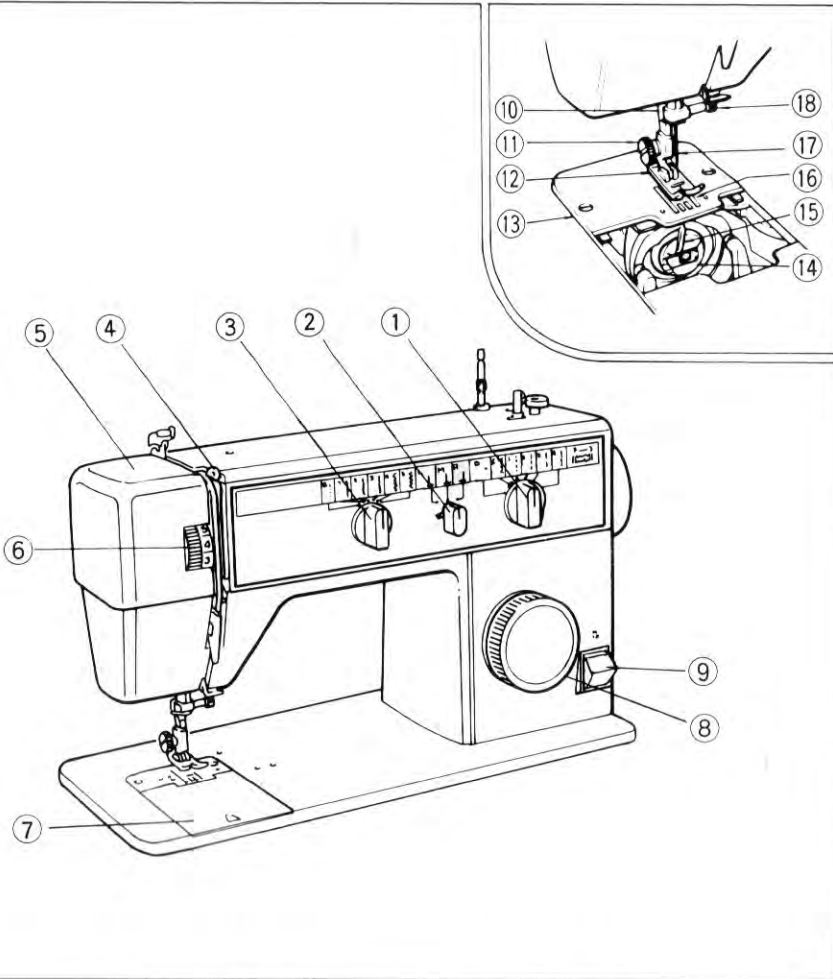
WHEN CHANGING NEEDLE, BOBBIN OR LIGHT BULB, OR WHEN SEWING MACHINE IS NOT IN USE, IT IS RECOMMENDED THAT ELECTRICAL SUPPLY PLUG IS DISCONNECTED TO AVOID ELECTRICAL HAZARDS.

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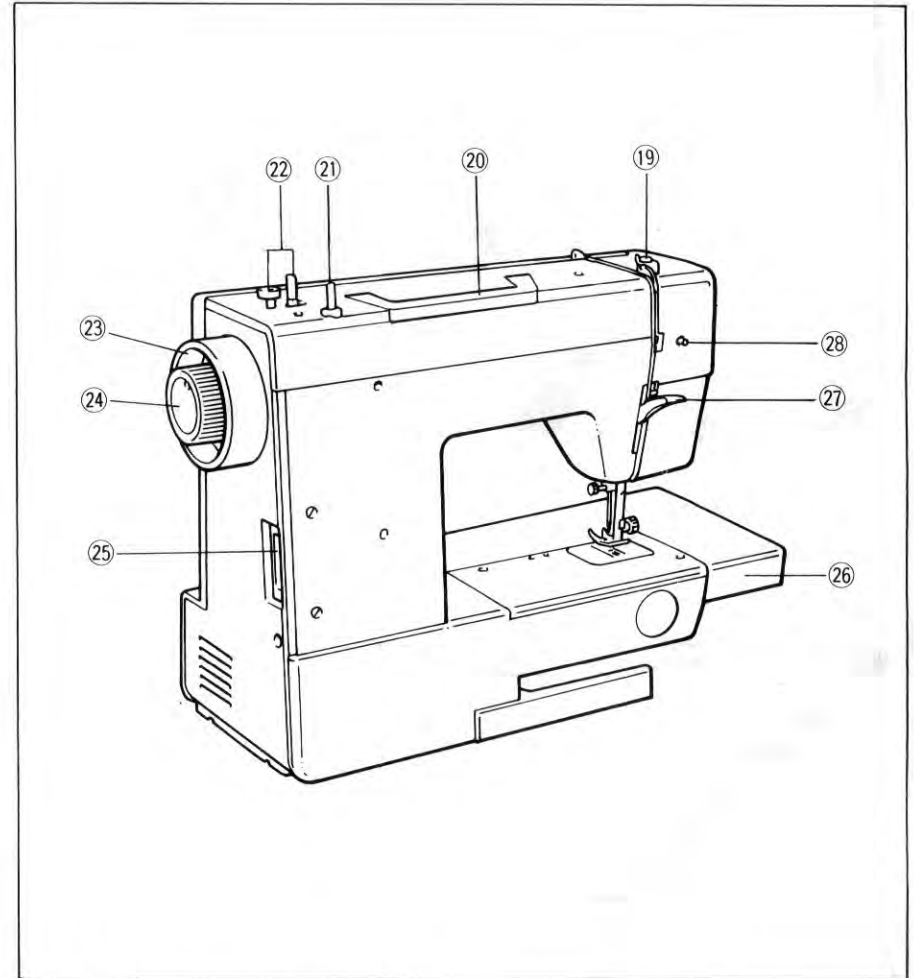
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Knowing Your Sewing Machine

Principal Parts



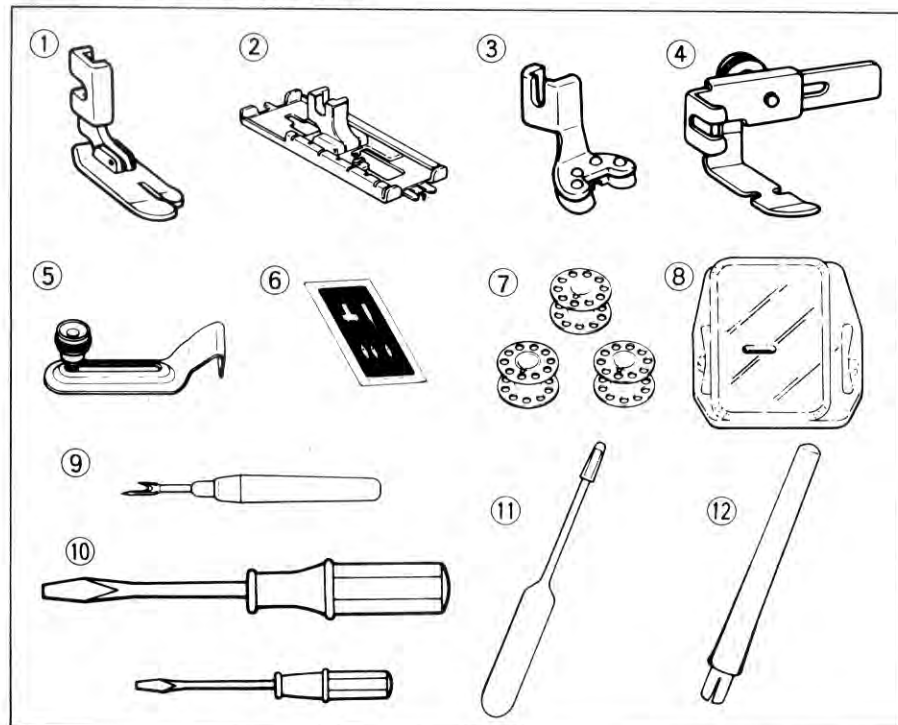
- | | |
|------------------------------|---------------------------|
| 1. Stitch Length Dial | 10. Thread Cutter |
| 2. Needle Position Selector | 11. Presser Foot Screw |
| 3. Stitch Width Dial | 12. Presser Foot (Zigzag) |
| 4. Thread Take-up Lever | 13. Needle Plate (Zigzag) |
| 5. Face Plate | 14. Shuttle Hook |
| 6. Upper Thread Tension Dial | 15. Bobbin Case |
| 7. Slide Plate | 16. Feed Dog |
| 8. Pattern Dial | 17. Needle |
| 9. Reverse Sewing Button | 18. Needle Clamp Screw |



- | | |
|---|-----------------------------|
| 19. Thread Guide and Bobbin Winder Disc | 24. Stop Motion Knob |
| 20. Carrying Handle | 25. 3-prong Soker |
| 21. Spool Pin | 26. Extension Table |
| 22. Bobbin Winder Device | 27. Presser Foot Lifter |
| 23. Balance Wheel | 28. Sew-light Switch Button |

Accessories

The following accessories are provided with your sewing machine and they are contained into accessory box. They are designed to help you do many kinds of sewing easily and perfectly. For more details, see each page listed.

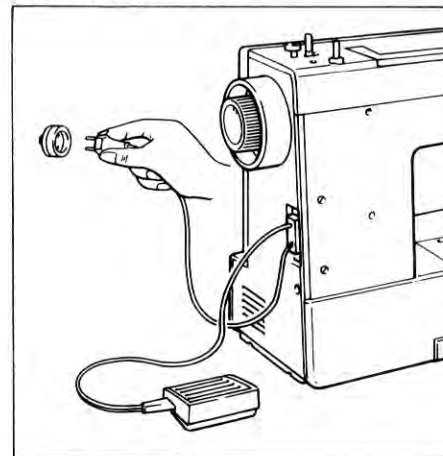


		See Page
1.	Straight Stitch Foot	1 pce. 17
2.	Buttonhole	1 pce. 23
3.	Button Sewing Foot	1 pce. 25
4.	Zipper Foot	1 pce. 26
5.	Cloth Guide with Screw	1 set 27
6.	Needle Pack	
	(Regular Single Needle No. 14 3 pcs.)	8 & 9
	(Twin Needle 1 pce.)	
7.	Bobbins	3 pcs. 13
8.	Darning Plate	1 pce. 25 & 27
9.	Seam Ripper	1 pce. 24
10.	Screw Driver (Large & Small)	2 pcs.
11.	Oiler	1 pce. 32
12.	Extra Spool Pin	1 pce. 9

The above illustrated accessories are provided with this machine.

Operating Your Sewing Machine

CONNECTING PLUGS

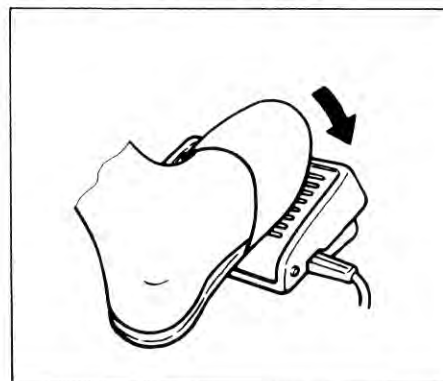


1. First connect the three-prong plug into the machine.
2. Then connect the electric supply plug into a wall outlet.

Caution

When changing needle, bobbin or light bulb, or when sewing machine is not in use, it is recommended that electrical supply plug is disconnected to avoid electrical hazards.

CONTROLLING SEWING SPEED



Place foot on foot control as shown in illustration.

When foot control is pushed down lightly, machine will run at a low speed.

When pressure on foot control is increased, machine will pick up speed.

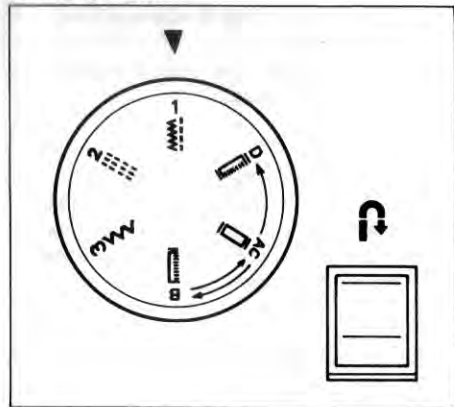
When foot control is released, machine will stop.

NOTE:

1. Care should be taken that nothing is placed on foot controller when machine is not in use.
2. A new sewing machine or one that has not been in use for a long period of time should be oiled as per instruction on pages 32 & 33. After oiling be sure to wipe up any excess oil.

Various Controls

PATTERN DIAL



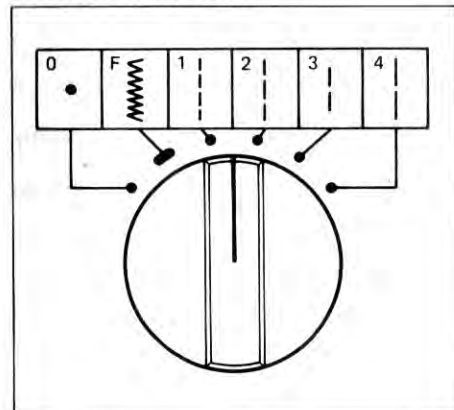
Your built-in pattern sewing machine enables you to obtain perfect buttonholes, triple stretch stitch and blind stitch by simply selecting the pattern on this dial.

1. Raise needle to its highest position.
2. Simply turn the dial and set the pattern you desire at the setting point.

NUMBERS AND STITCHES OF PATTERN

1. General Zigzag Stitch and Straight Stitch
 2. Triple Stretch Stitch
 3. Blind Stitch
- A. B. C. D. Automatic Buttonhole

STITCH LENGTH DIAL



The stitch length is regulated by turning the stitch length dial.

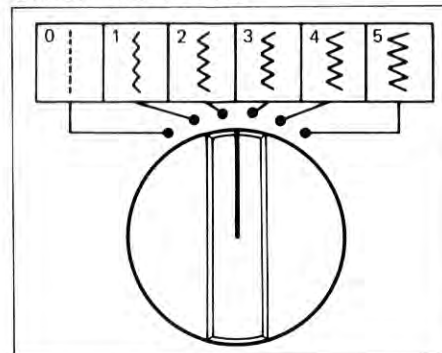
Numerals above the dial represent the stitch length. THE HIGHER THE NUMBER, THE LONGER THE STITCH.

The "0" means that the material is not fed.

The "F" area is used for making a SATIN STITCH (a close zigzag stitch) and this stitch is used for making decorative patterns.

The dial position needed to obtain the satin stitch is varied according to the material and thread being used. To determine exact dial position, you must observe the feeding of the material.

STITCH WIDTH DIAL



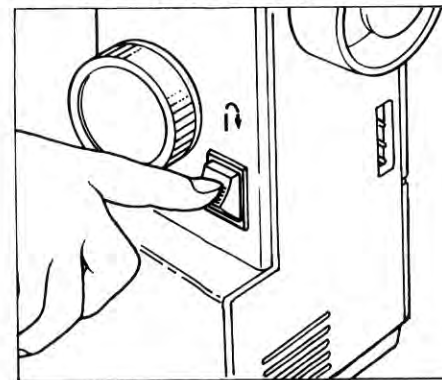
The zigzag width is regulated by operating the stitch width dial.

Numerals above the dial represent the width of stitch. THE HIGHER THE NUMBER, THE WIDER THE STITCH.

The "0" means straight stitch only.

- NOTE:
1. Do not move the dial while the needle is in the material.
 2. When using twin needle, dial should always be set at under "3".

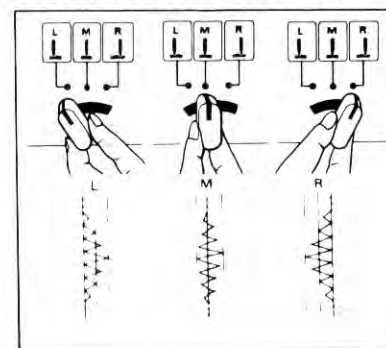
REVERSE SEWING BUTTON



To sew in reverse, depress sewing button as far as it will allow. Hold button in this position until you wish to sew forward. When button is released it will spring back in position and you will sew in forward direction.

Reverse sewing is used for back-tacking and reinforcement.

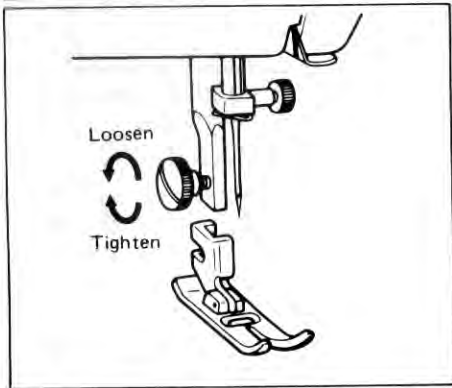
NEEDLE POSITION SELECTOR



By shifting the needle position selector to L (left), M (middle) or R (right), you will be able to sew straight and zigzag stitches as the base line that you select L, M or R.

- NOTE:
1. Do not move the selector while needle is in the material.
 2. Set the selector always at M when you sew built-in patterns and when using twin needle.

Presser Foot



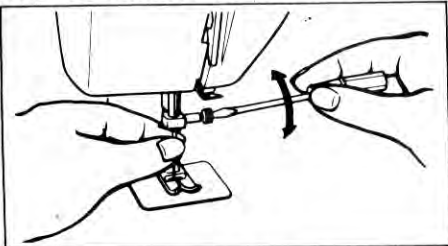
You will find various kinds of presser feet for special use in the accessory box. According to your sewing needs, it may be necessary to change presser foot.

TO CHANGE THE PRESSER FOOT

1. Raise needle to its highest position.
2. Raise presser foot.
3. Loosen presser foot thumb screw and remove presser foot.
4. Place grooved side of the new presser foot against the flat of the presser bar.
5. Tighten thumb screw.

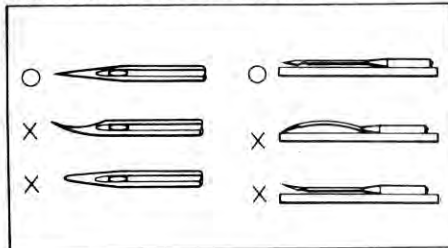
Needle

HOW TO CHANGE THE NEEDLE



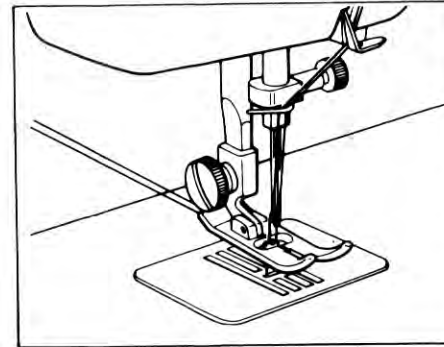
1. Raise needle to its highest position.
2. Loosen needle clamp screw and remove old needle.
3. Insert new needle up into needle clamp hole as far as it will go against the needle stop. Make sure the flat side of the needle faces toward the back and the long groove toward you.
4. Tighten needle clamp screw securely.

HOW TO CHECK THE NEEDLE



1. The sewing needle must always be straight and sharp for smooth sewing.
2. To check if needle is bent, place flat side of needle down as shown in illustration at left.

Twin Needle



Your sewing machine is specially constructed for optional twin needle sewing by setting extra spool pin into hole on the top of machine. You can use either one or two colors of upper thread.

Make sure that two threads used to thread twin needle are of the same weight. If thread is not of the same weight, stitching will be faulty.

INSERTING TWIN NEEDLE

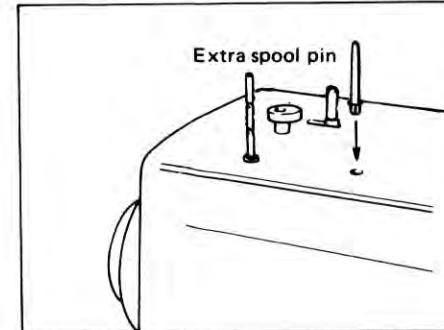
Insert in same manner as single needle. Flat side of needle should face toward back and long groove should face you.

THREADING TWIN NEEDLE

Follow instructions for single needle threading (see page 11), but thread each needle separately. The groove should face you.

NOTE FOR TWIN NEEDLE SEWING

1. Use ZIGZAG PRESSER FOOT.
2. Use stitch width dial at under "3".



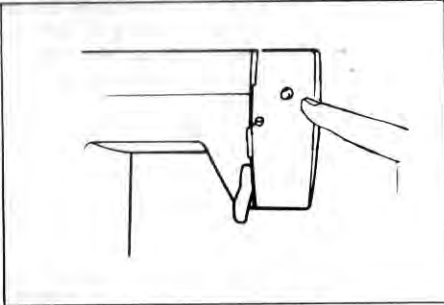
Relative Chart of Sewing Material, Needle and Thread

SEWING MATERIALS		NEEDLE SIZES	THREAD SIZES
VERY THIN	Fine tricot, Fine lace, Thin linen, Silk, Tulle, Chiffon	9	Cotton: 80-120 Synthetic Fine Mercerized Cotton
LIGHTWEIGHT	Organdy, Jersey, Voile, Taffeta, Synthetics, Silk, Batiste	11	Cotton: 60-80 Silk: "A" Synthetic Mercerized 50
MEDIUM	Cotton, Gingham, Poplin, Percale, Pique, Satin, Velvet, Lightweightwool, Fine corduroy, Suitings	14	Cotton: 50-60 Silk: "A" Synthetic Mercerized 50-60
HEAVY	Denim, Gabardine, Tweed, Corduroy	16	Cotton: 40-50 Mercerized Heavy Duty
VERY HEAVY	Canvas, Overcoating, Upholstery	18	Cotton: 30-40 Mercerized Heavy Duty

- NOTE: 1. Select correct size of needle and thread from above chart.
2. Use the same size thread for upper and lower threads.

Sew-Light

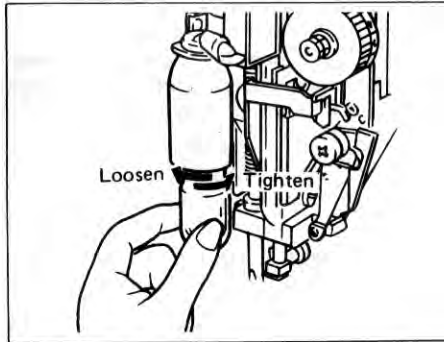
SEW-LIGHT SWITCH BUTTON



Sew-light switch is located in the rear of face plate.

Push this button to switch light on and off. (220/240 V AREA)

HOW TO CHANGE THE BULB



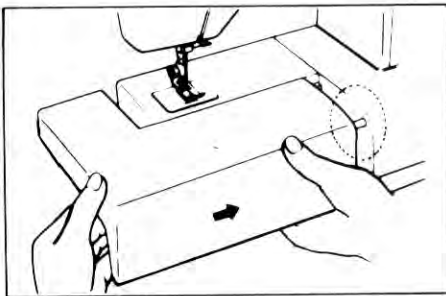
1. Take out face plate by loosening a screw.
2. Remove bulb by turning counterclockwise.
3. Replace bulb and fix face plate.

NOTE: 1) Disconnect electric plug from wall outlet before removing bulb.

- 2) Always use CORRECT SPARE BULB.

MAXIMUM INPUT OF LAMP
 12 W 110/115 V AREA
 15 W 220/240 V AREA

Extension Table

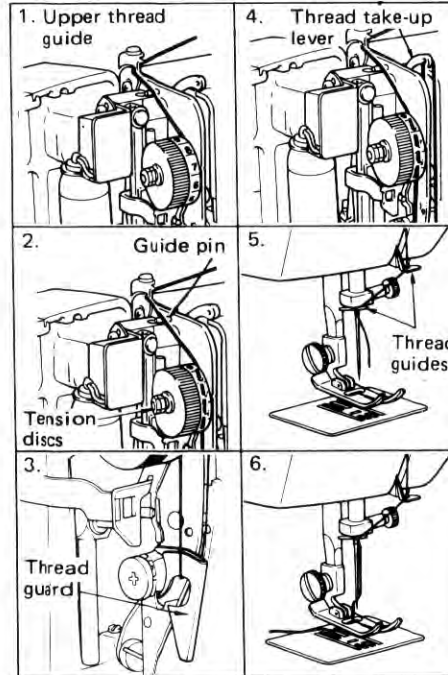
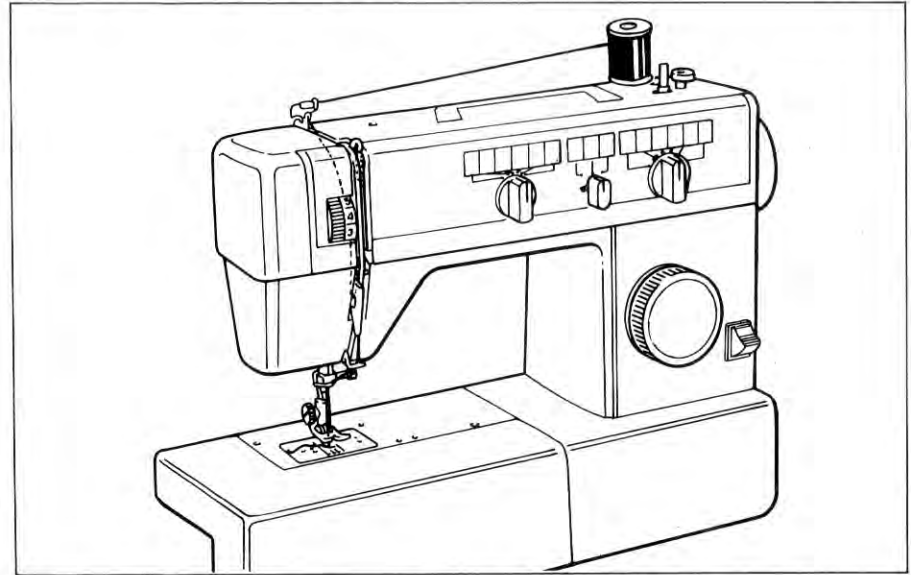


This sewing machine has an extension table which converts it into a flat-bed machine.

How to insert the extension table:

1. Slide the extension table to the right as shown in illustration.
2. To remove extension table, just pull it to the left.

Upper (Needle) Thread



Before threading, raise presser foot and take-up lever to the highest position.

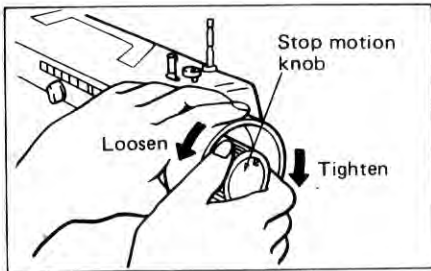
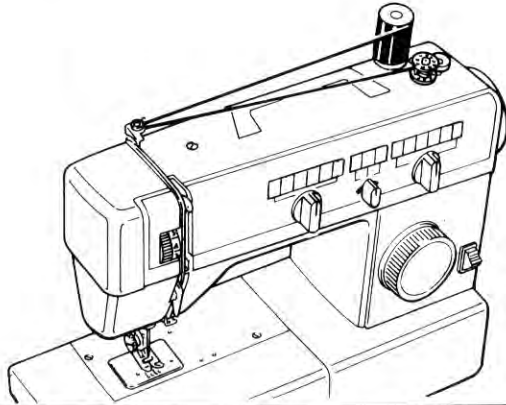
Then place spool of thread on the spool pin.

1. Pass thread through the eye of upper thread guide.
2. Pass thread between upper thread tension discs from the upper side of guide pin.
3. Bring thread down and up through thread guard from left to right so that thread picks up the thread check spring.
4. Pass thread into the eyelet of the thread take-up lever from left to right.
5. Bring down again and pass thread through the thread guides.
6. Thread needle from front to back and draw the thread out about 2 inches (5 cm).

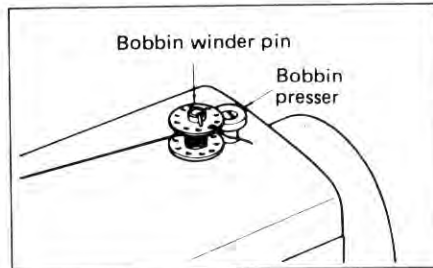
NOTE:
 IF THE THREADING ORDER IS NOT CORRECT, THREAD BREAKAGE, STITCH SKIPPING, WRINKLING OF FABRIC WILL OCCUR.

Lower (Bobbin) Thread

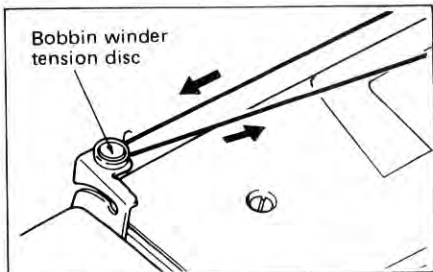
HOW TO WIND BOBBIN



1. Loosen stop motion knob by turning it toward you.



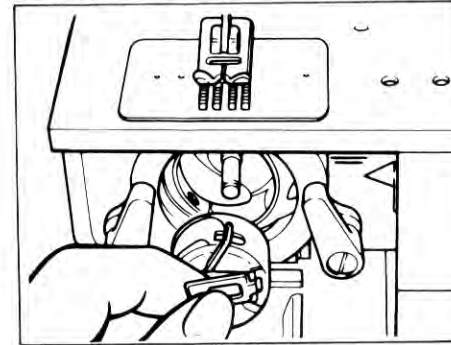
2. Place an empty bobbin on the bobbin window pin.



3. Place thread spool on the spool pin and take thread through bobbin winder tension disc.

4. Wind the thread a few times around the bobbin clockwise and push the bobbin toward bobbin presser. Start the machine gently.
5. Bobbin stops winding when full.
6. Push the bobbin to the left and remove it. Tighten stop motion knob securely.

HOW TO REMOVE AND INSERT BOBBIN CASE



TO REMOVE BOBBIN CASE

1. Raise needle to its highest position.
2. Open the shuttle cover by turning it down.
3. Pull and open the latch of bobbin case.
4. Pull out bobbin case from the shuttle.

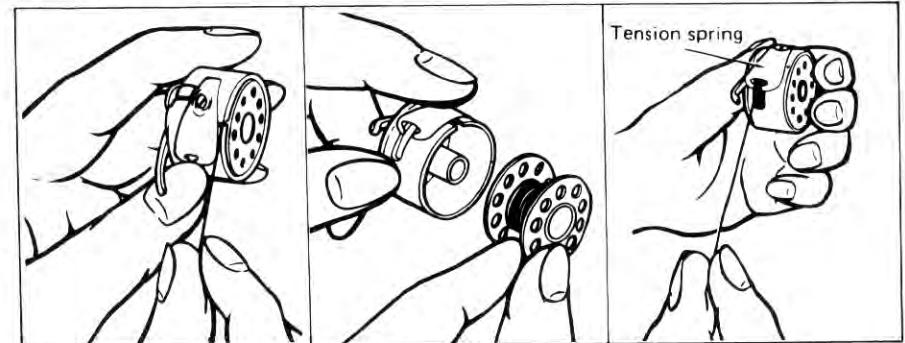
TO INSERT BOBBIN CASE

1. Raise needle to its highest position.
2. Holding bobbin case latch with metal finger of case pointing up, fit it into the notch at the top of shuttle race.
3. Push case back fully making sure the case is in the proper position and release the latch.

NOTE:

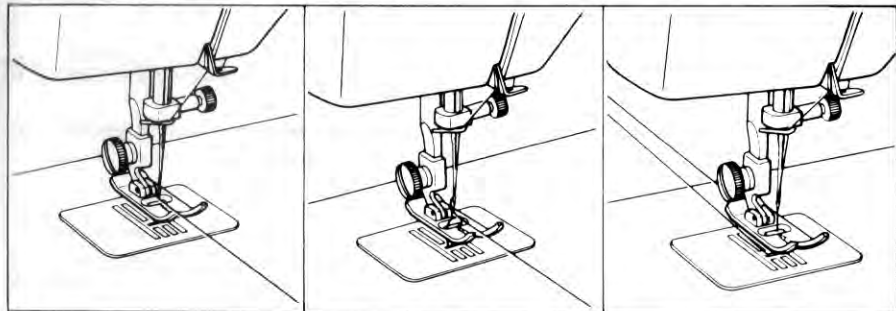
- (A) Four inches (10 cm) of thread should be drawn out and left out of case.
- (B) Latch of bobbin case should be open fully to prevent bobbin coming out of case.
- (C) If bobbin case is not placed back in machine properly it will come out from the shuttle immediately after starting to sew.

HOW TO THREAD BOBBIN CASE



1. Unwind about 4 inches (10 cm) of thread from the bobbin. Insert wound bobbin into bobbin case.
2. Pull trailing thread into the slot of case.
3. Pull thread to the left under tension spring until thread enters into delivery eye.

HOW TO PULL UP LOWER THREAD



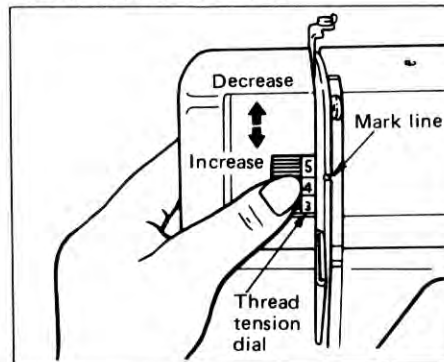
1. Raise needle and presser foot to the highest position. With left hand, hold the end of upper thread and with right hand, turn balance wheel toward you until the needle moves down and up again to its highest position.
2. Now upper thread catches the lower thread in a loop. Pull thread toward you so that lower thread will come up in a large loop from the presser foot.
3. Pull both threads under the toes of presser foot and place them to the rear leaving about 4 inches (10 cm).

Thread Tension

It is important that tension of upper and lower threads be equal to prevent puckering of material or other problems.

It is recommended that a test sample be made before starting to sew.

UPPER THREAD TENSION



To regulate thread tension, merely turn thread tension dial with left thumb after lowering the presser foot.

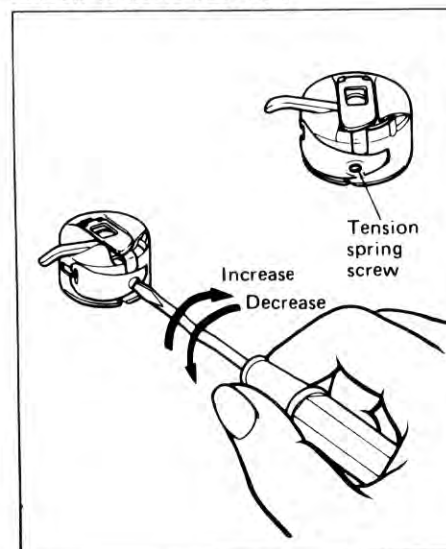
THE HIGHER THE NUMBER, THE TIGHTER THE TENSION.

To increase tension: Turn dial downward to larger number.

To decrease tension: Turn dial upward to smaller number.

NOTE: The zigzag stitch requires less upper thread tension than straight stitch.

LOWER THREAD TENSION



Although lower thread tension has already been adjusted at the factory, when sewing very thin or heavy material it may have to be readjusted.

To regulate the lower thread tension, turn small screw on the tension spring of the bobbin case with the small screw driver.

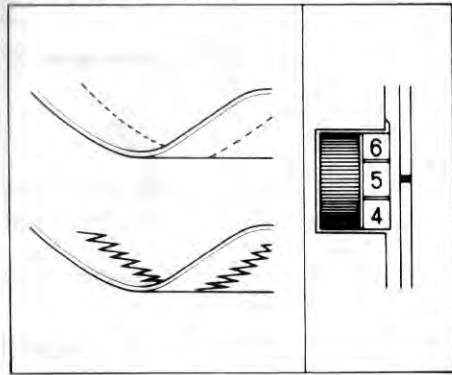
To increase tension: Turn the small screw clockwise very slightly.

To decrease tension: Turn the screw counter-clockwise very slightly.

2

Straight Stitching

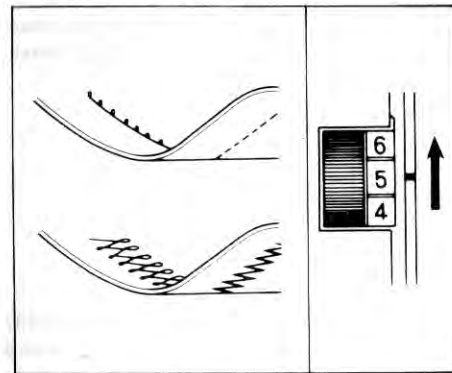
PERFECT STITCHING



Tension of upper and lower threads should be equal, just sufficiently strong to lock both threads in material.

Perfect stitching appears flat with no puckering of material.

INCORRECT STITCH (A)



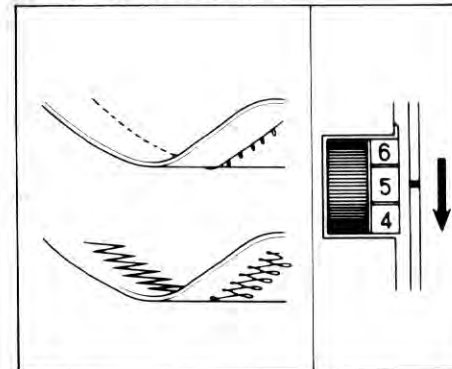
The upper thread lies on the surface of the material by pulling the lower thread up as shown.

This is caused by tight tension on the upper thread or loose tension on the lower thread.

To correct this, turn the upper thread tension dial to a lower number.

When perfect stitch cannot be obtained by only upper thread tension dial, adjust the bobbin tension accordingly.

INCORRECT STITCH (B)



The lower thread lies on the under surface of the material by pulling upper thread down as shown.

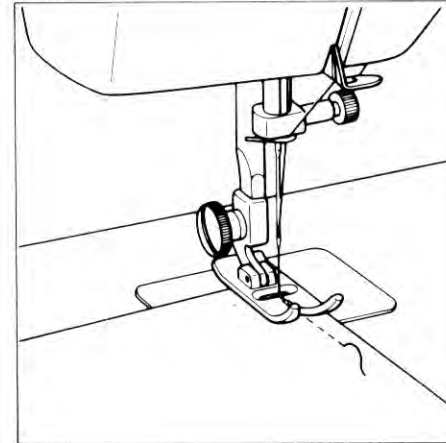
This is caused by loose tension on the upper thread or tight tension on the lower thread.

To correct this, turn the upper thread tension dial to a higher number.

If perfect stitching cannot be obtained by changing upper thread tension, adjust the bobbin tension.

NOTE: It is recommended that test samples are made before starting to sew.

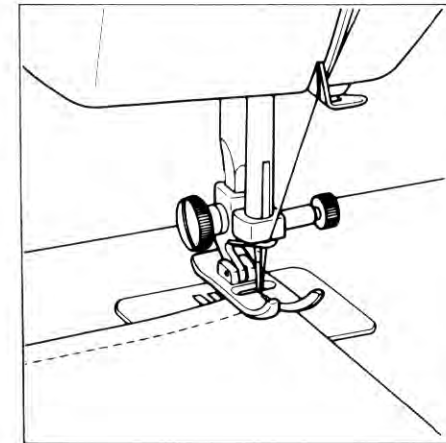
PATTERN DIAL	:	1
STITCH LENGTH DIAL	:	1~4
STITCH WIDTH DIAL	:	0
NEEDLE POSITION SELECTOR	:	M
PRESSER FOOT	:	Straight or Zigzag
NEEDLE	:	Single



NOTE: Use straight stitch foot when sewing light or elastic type materials with straight stitch.

HOW TO START SEWING

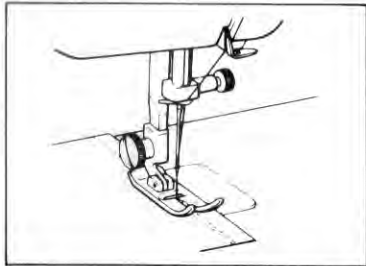
1. Raise needle to its highest position and lift presser foot.
2. Place material under presser foot and position needle 3/8 inch (10 mm) from material edge.
3. Lower presser foot.
4. Pull up lower thread by turning the balance wheel toward you and place both upper and lower thread to the left.
5. For reverse sewing depress Reverse Sewing Button as far as it will allow. Reverse sewing is used where reinforcement is needed.
6. Release Reverse Sewing Button and start sewing in forward direction.



HOW TO CHANGE SEWING DIRECTION

1. Stop machine at the turning point while the needle is in the material.
2. Raise the presser foot and turn the material to the new direction while the needle acts as the axis.
3. Lower the presser foot and start sewing in new direction.

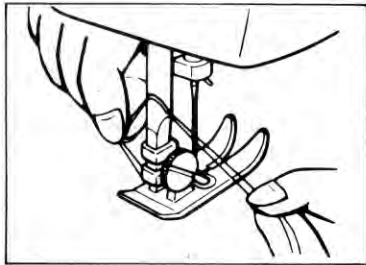
NOTE: In case of twin needle sewing, raise the needle at the turning point.



HOW TO FINISH YOUR SEWING PROJECT (REVERSE STITCHING)

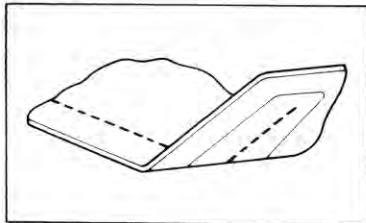
Reverse stitching is used to reinforce stitches near the edge of material or wherever reinforcement is needed.

1. This is done by stitching to the edge of material then stopping.
2. Depress Reverse Sewing Button and stitch backwards for 3/8 inch (10 mm) from material edge.



HOW TO REMOVE FINAL SEWING FROM MACHINE

1. Stop the machine.
2. Raise needle to its highest position and make sure that the thread take-up lever is also in the highest position.
3. Lift presser foot and pull out the material gently to the left side diagonally.
4. Cut both threads on the thread cutter.
5. Leave about 4 inches (10 cm) of threads between toes of the presser foot to the rear while the thread take-up lever is at the highest position, and you are ready to sew again without any chance of thread pulling out of the needle.



HOW TO SEW VERY THIN MATERIAL

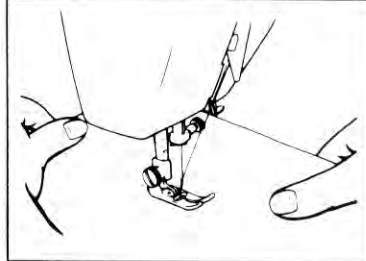
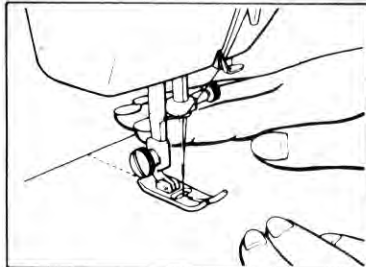
An underlay of thin paper will help to eliminate skipped stitches and puckering on very thin material.

HOW TO GUIDE YOUR MATERIAL

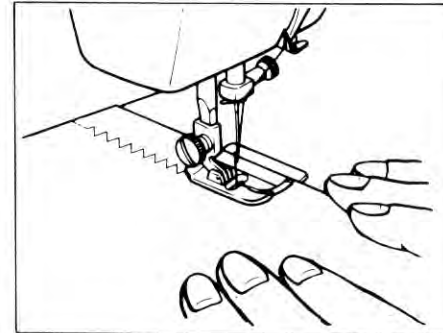
Do not pull the material. Let the machine do the work. Merely guide the material with your fingers in front of the presser foot as shown in the illustration.

If you pull the material, your needle might either bend or break.

However, in the case of special materials, such as tricot, crepes, knits, etc., we recommend that you support the material both in front and back of the presser foot with gentle tension as shown in the lower illustration.



PATTERN DIAL	: 1
STITCH LENGTH DIAL	: 1~4(For SATIN STITCH dial is set at F)
STITCH WIDTH DIAL	: 1~5(Twin Needle sewing, always set at 3)
NEEDLE POSITION SELECTOR	: M
PRESSER FOOT	: Zigzag
NEEDLE	: Single or Twin Needle

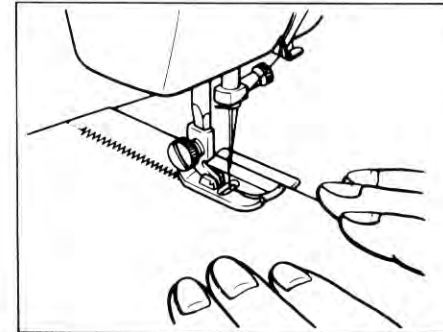


SIMPLE ZIGZAG STITCH

Set Stitch Length Dial between 1-4 for simple zigzag stitch.

1. With Stitch Length Dial at "F" position sew 5-6 straight stitches for reinforcement.
2. Set Stitch Width Dial to your desired width and commence sewing.
3. Reset Stitch Width Dial to "O" and set Stitch Length Dial at "F" position to again reinforce stitches before removing work from machine.

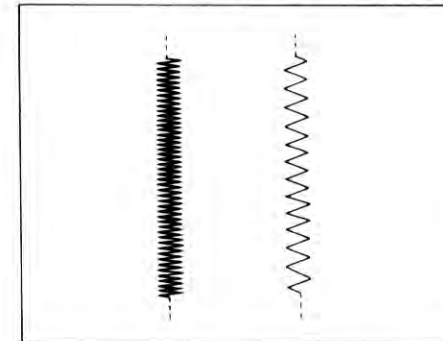
NOTE: Zigzag stitching requires less upper thread tension than straight stitching.



SATIN STITCH

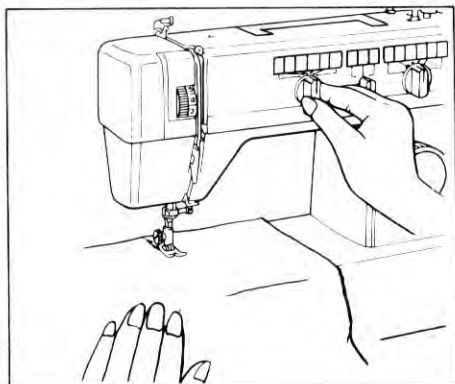
When Stitch Length Dial is set at "F" it produces the "SATIN STITCH" which is used for making decorative stitches.

NOTE: It is recommended that a test sample be made before starting to sew.



4 Decorative Stitches

- PATTERN DIAL : 1
 STITCH LENGTH DIAL : For SATIN STITCH set dial at F
 STITCH WIDTH DIAL : See Instruction Below
 NEEDLE POSITION SELECTOR : L. M. R.
 PRESSER FOOT : Zigzag
 NEEDLE : Single or Twin Needle



By using the "SATIN STITCH" as in the following instructions various decorative stitches can be obtained.

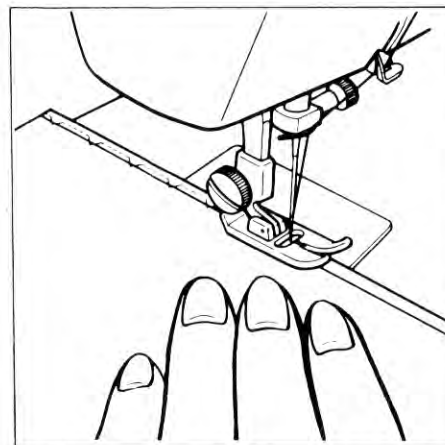
Needle	Needle position	Patterns to be sewn	How to move dial
Single needle	L M R		At even speed from 0 to 5 (3) and from 5 (3) to 0. Repeat this.
Twin needle	M		
Single needle	L M R		Almost the same manner as above but make round patterns.
Twin needle	M		
Single needle	L M R		Slowly from 0 to 5 (3) and quickly back to 0. Repeat the movement.
Twin needle	M		

* NOTE: The number in the bracket represents the twin needle sewing.

5 Built-in Stitches

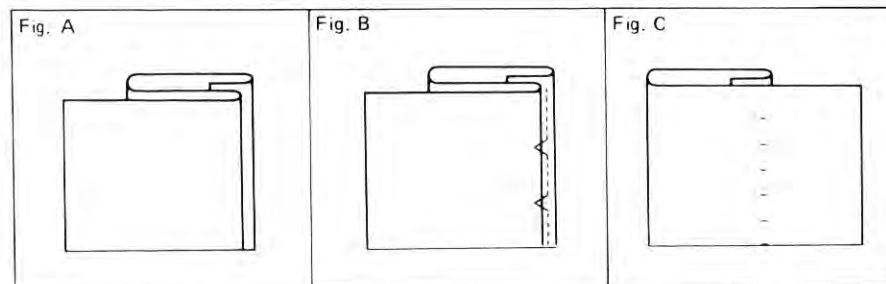
Blind Stitch

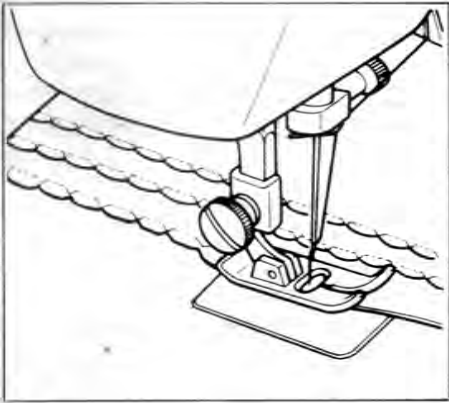
- PATTERN DIAL : 3 (Blind Stitch)
 STITCH LENGTH DIAL : 1 ~ 2
 STITCH WIDTH DIAL : 3 ~ 5
 NEEDLE POSITION SELECTOR : M
 PRESSER FOOT : Zigzag
 NEEDLE : Single



BLIND STITCH

1. Thread used should be the same color as material used.
2. Fold material to size of hem desired and then fold back as shown in Figure A leaving 1/5 inch (5 mm) overlap at edge.
3. Sew on fold as in Figure B.
4. When material is unfolded you will have a blind stitched hem as in Figure C.



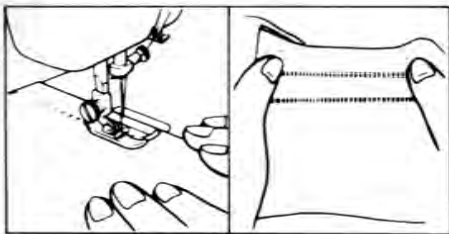
**SHELL STITCH**

This stitch can be used for sewing a picoted edge on a light material.

1. Set machine at blind stitch with Stitch Width Dial set at "5".
2. Sew material on bias, placing material under the presser foot so that straight stitches are sewn on seam line and zigzag stitches are sewn slightly over seam edge.
3. This work requires a little tighter upper thread tension than normal.
4. Sew at slow speed.
5. Edge of material will be picoted.

Triple Stretch Stitch

- PATTERN DIAL** : 2 (Triple Stretch Stitch)
STITCH LENGTH DIAL : 4
STITCH WIDTH DIAL : 0
NEEDLE POSITION SELECTOR : M
PRESSER FOOT : Zigzag or Straight
NEEDLE : Single (See Note)



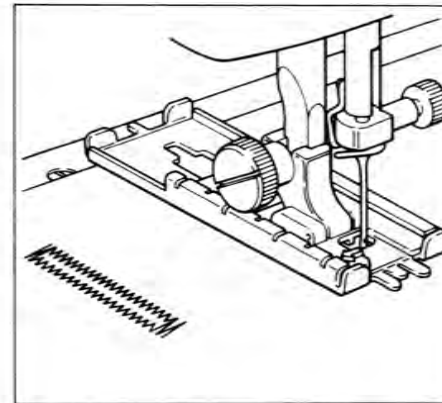
The "Triple Stretch Stitch" is used for any stretch material such as knitted fabric, tricot, etc.

This stitch is three times the strength of a regular stitch and gives elasticity to seams which prevents thread breakage.

NOTE: When sewing extremely light or elastic material use straight stitch presser foot.

Buttonholes

- PATTERN DIAL** : A, B, C, D.
STITCH LENGTH DIAL : F (Fine) ~ 3 (Coarse)
STITCH WIDTH DIAL : See Instruction Below
NEEDLE POSITION SELECTOR : M
PRESSER FOOT : Buttonhole Foot
NEEDLE : Single

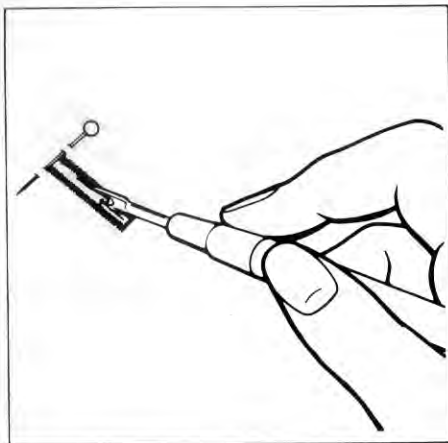
**PREPARATION FOR MAKING BUTTONHOLE**

1. Use buttonhole foot with sliding portion.
2. Choose the best stitch width (width of bar tack) between 3 to 5 to suit your work.
3. Using tailor's chalk, mark the length of buttonhole you require on the material.
4. Attach the buttonhole foot and push the sliding portion toward rear until it stops.
5. Place the material under the presser foot so that front end of bar tack can be sewn first.

NOTE: We suggest you make a test sample before actual sewing.

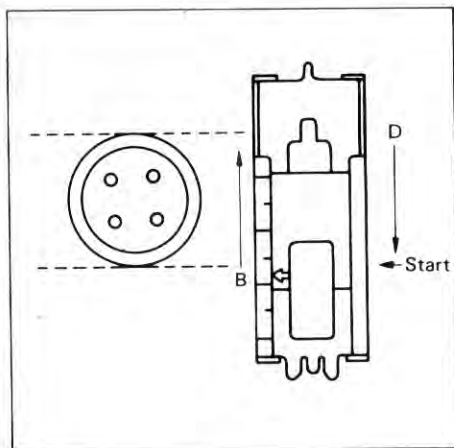
PROCEDURE FOR MAKING BUTTONHOLE

Step	Sewing portion	Position of pattern dial	How to sew
Step A (Front end of bar tack)			<ol style="list-style-type: none"> 1. Set pattern dial at A. 2. Lower presser foot and sew 5 to 6 stitches. 3. Stop machine and raise needle from the material.
Step B (Left side row)			<ol style="list-style-type: none"> 1. Turn the dial to the left and set at B. 2. Sew predetermined length. 3. Stop machine and raise the needle.
Step C (Back end of bar tack)			<ol style="list-style-type: none"> 1. Turn the dial to the right and set at C (same position as A). 2. Sew 5 to 6 stitches. 3. Stop machine and raise the needle.
Step D (Right side row)			<ol style="list-style-type: none"> 1. Set the dial at D. 2. Sew the right side row until the needle reaches position D.



HOW TO SECURE STITCHING AND CUT MATERIAL FOR BUTTONHOLE.

1. To secure stitching, turn the material 90 degrees counter-clockwise and sew 5-6 straight stitches.
2. Remove from machine. Cut opening in buttonhole with seam ripper tool, taking care not to cut through any stitching.
3. It is recommended that pins are placed across both ends of buttonhole as protection against cutting bar tack stitching.

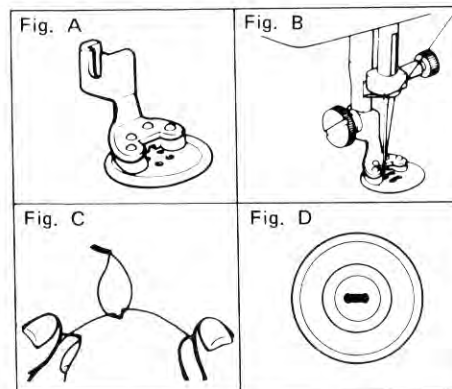


MAKING SEVERAL BUTTONHOLES OF THE EXACT SAME SIZE

1. Set the sliding portion of the buttonhole foot according to the size of the button and sew Step A.
2. Sew Step B until the sliding portion no longer moves.
3. Sew Step C.
4. Sew Step D until the sliding portion returns to Step A.
5. Repeat 1 through 4 for each additional buttonhole of the same size, using the same starting point.

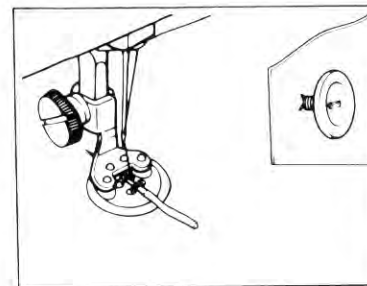
Button Sewing

PATTERN DIAL	: 1
STITCH LENGTH DIAL	: Set at any position.
STITCH WIDTH DIAL	: This dial is used to control distance between holes in button.
NEEDLE POSITION SELECTOR	: L or R
PRESSER FOOT	: Button Sewing Foot
NEEDLE	: Single
OTHERS	: Darning Plate



1. Place button between the presser foot and the material, making sure that holes of button fall in line with the base line of button sewing foot.
2. Set stitch width control to regulate distance of stitch between the holes in the button. Lower presser foot and check to see that needle enters holes in button properly.
3. At slow speed sew approximately 10 stitches.
4. Remove from machine. Cut upper and lower threads and with normal sewing needle sew threads through to back of button and tie.

BUTTON FITTING WITH THREAD SHANK

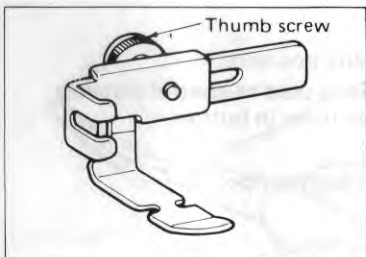


For heavier material use the following method to sew on buttons:

1. Place a needle on the button as shown in illustration and then sew on button as you would regularly (see above).
2. When removing work from machine leave a long upper thread to be used to form a thread shank.
3. Pull the upper thread through hole of button, between button and material, to form thread shank. Wind this thread around stitching which will make button very secure.
4. With normal sewing needle sew in thread ends.

7 Attachments

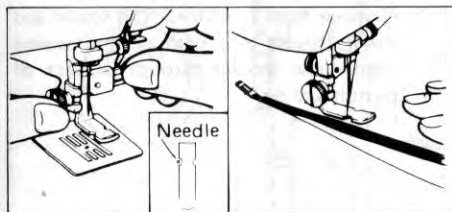
Zipper Insertion



Zipper foot is used to sew various types of zippers and can easily be positioned to right or left side of needle. When zipper is being sewn at right side of needle, position zipper foot by loosening thumb screw and sliding zipper foot to the left.

When the zipper is being sewn at left side of needle, position zipper foot by loosening thumb screw and sliding zipper foot to the right.

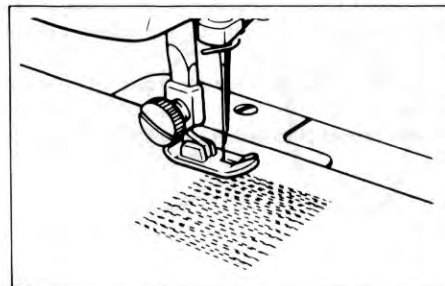
- PATTERN DIAL : 1
- STITCH LENGTH DIAL : 2-3
- STITCH WIDTH DIAL : 0
- NEEDLE POSITION SELECTOR : M
- PRESSER FOOT : Zipper Foot
- NEEDLE : Single



1. Lower needle into side notch located on presser foot (right or left).
2. Tighten thumb screw to lock presser foot into position.
3. Fold edge of material 3/4 inch (2 cm.) and place zipper under folded portion.
4. By guiding zipper foot along the zipper teeth you will stitch close to edge of zipper in correct position.
5. To sew opposite side of zipper loosen thumb screw and position zipper foot (right or left).

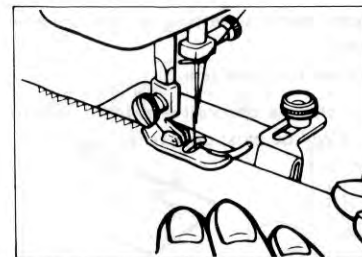
Darning

- PATTERN DIAL : 1
- STITCH LENGTH DIAL : Set at any position
- STITCH WIDTH DIAL : 0
- NEEDLE POSITION SELECTOR : M
- PRESSER FOOT : Straight
- NEEDLE : Single
- OTHERS : Darning Plate



1. Place darning plate on needle plate.
2. Place portion to be darned under the presser foot together with underlay.
3. Lower presser foot.
4. Sew alternately drawing the work gently away from you and pulling it toward you.
5. Repeat this motion until the portion to be darned is filled with parallel lines of stitching.

Cloth Guide



Using cloth guide will help to sew parallel and straight at edge of material.

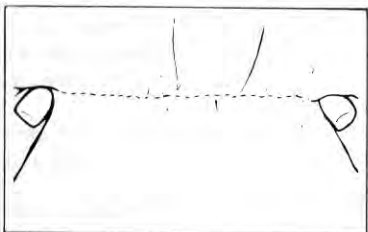
Attach cloth guide by placing it over the two holes on the right side of needle plate in sewing machine bed.

Put thumb screw through guide slot, adjust to desired distance and secure by turning thumb screw.

Various Other Stitches

Gathering

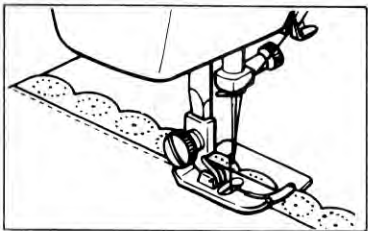
PATTERN DIAL	: 1
STITCH LENGTH DIAL	: 4
STITCH WIDTH DIAL	: 0
NEEDLE POSITION SELECTOR	: M
PRESSER FOOT	: Straight
NEEDLE	: Single



1. Loosen upper thread tension (set dial at about '2') so that lower thread lies on the under side of material.
2. Sew a single row or multiple rows of straight stitching.
3. Pull lower thread(s) to gather up material.

Attaching Lace

PATTERN DIAL	: 1
STITCH LENGTH DIAL	: 2-4
STITCH WIDTH DIAL	: 0
NEEDLE POSITION SELECTOR	: M
PRESSER FOOT	: Zigzag
NEEDLE	: Single

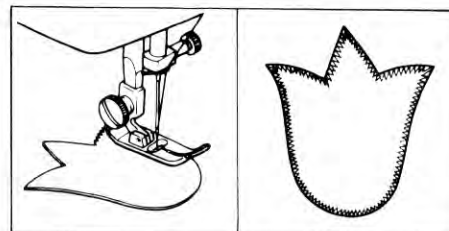


1. Place lace under material letting it overlap edge 1/4 inch (5 mm).
2. Place under presser foot and sew.

NOTE: If satin stitch or a decorative stitch is used to sew lace, it will be most decorative.

Appliqueing

PATTERN DIAL	: 1
STITCH LENGTH DIAL	: F-2
STITCH WIDTH DIAL	: 1-3
NEEDLE POSITION SELECTOR	: M
PRESSER FOOT	: Zigzag
NEEDLE	: Single

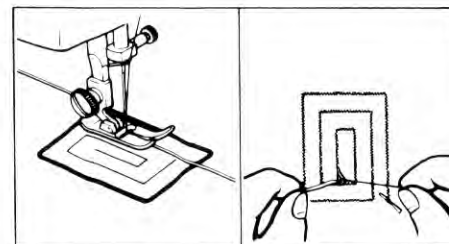


1. Baste cut design to the material.
2. Sew carefully following design.
3. Cut away surplus material outside of stitching.
4. Remove basting.

NOTE: Make reinforcement straight stitch at initial and final sewings.

Cording

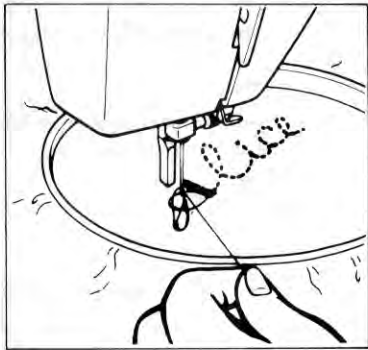
PATTERN DIAL	: 1
STITCH LENGTH DIAL	: F-2
STITCH WIDTH DIAL	: In accordance with thickness of cord being used, set stitch width.
NEEDLE POSITION SELECTOR	: M
PRESSER FOOT	: Zigzag
NEEDLE	: Single



1. Set Stitch Width Dial.
2. Place cord on fabric to be sewn.
3. Lower presser foot making sure cord is centered and sew using zigzag stitch. Guide cord by hand to where you desire it.

Monogramming and Embroidering, Using Embroidery Hoop

PATTERN DIAL	: 1
STITCH LENGTH DIAL	: Set at any position.
STITCH WIDTH DIAL	: 0-5
NEEDLE POSITION SELECTOR	: M
PRESSER FOOT	: Removed
NEEDLE	: Single
OTHERS	: Darning Plate



PREPARATION FOR MONOGRAMMING AND EMBROIDERING

1. Place darning plate on needle plate.
2. Set your sewing machine as per above instructions.
3. Draw lettering (for monogramming) or design (for embroidering) on the right side of the material.
4. Stretch work between embroidering hoops as firmly as possible.
5. Place the work under the needle and lower presser bar.
6. Pull lower thread up through the work at starting position by turning balance wheel and make a few holding stitches.
7. Hold the hoop with thumb and forefingers of both hands while pressing the material with middle and third fingers and supporting the outside of hoop with smaller finger.



MONOGRAMMING

1. Sew, moving hoop slowly along the lettering at an even rate of speed.
2. Secure with a few straight stitches.

(NOTE: These instructions also apply to embroidering)

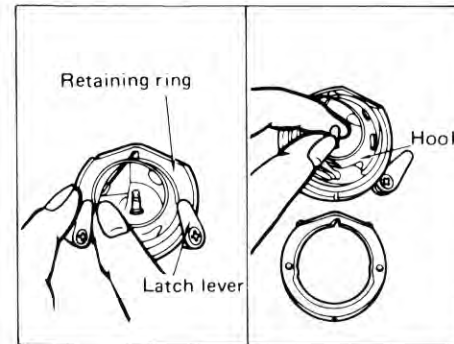
EMBROIDERING

1. Stitch outline of design by moving embroidery hoop accordingly.
2. Fill in design stitch from outline of design to inside and from inside to edge of outline alternately until design is completely filled in. Keep stitching close together.

NOTE: A long stitch is made by moving embroidery hoop rapidly and a short stitch is made by moving it slowly.

Cleaning

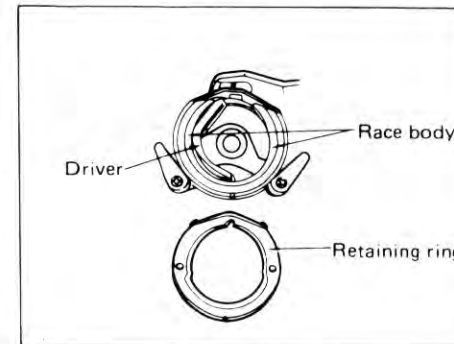
The sliding parts of the shuttle race should be cleaned regularly so that lint does not accumulate.



HOW TO REMOVE THE SHUTTLE HOOK

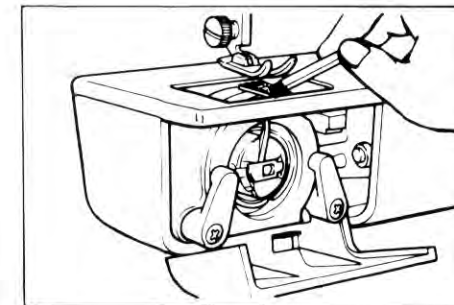
1. Raise needle to its highest position.
2. Open shuttle cover.
3. Take out bobbin case.
4. Push latch levers outside and remove retaining ring.
5. Remove hook by grasping center post of hook.

NOTE: When needle is lowered shuttle hook cannot be removed.



CLEANING SHUTTLE RACE

1. Remove accumulated lint and thread from the retaining ring, hook, driver and race body with brush.
2. A cloth dampened with machine oil should be used to wipe shuttle race clean.
3. Clean shuttle hook in same manner as above.
4. Reassemble.



CLEANING FEED DOG

1. Take out needle plate.
2. Clean upper part of feed dog and shuttle race body with brush.

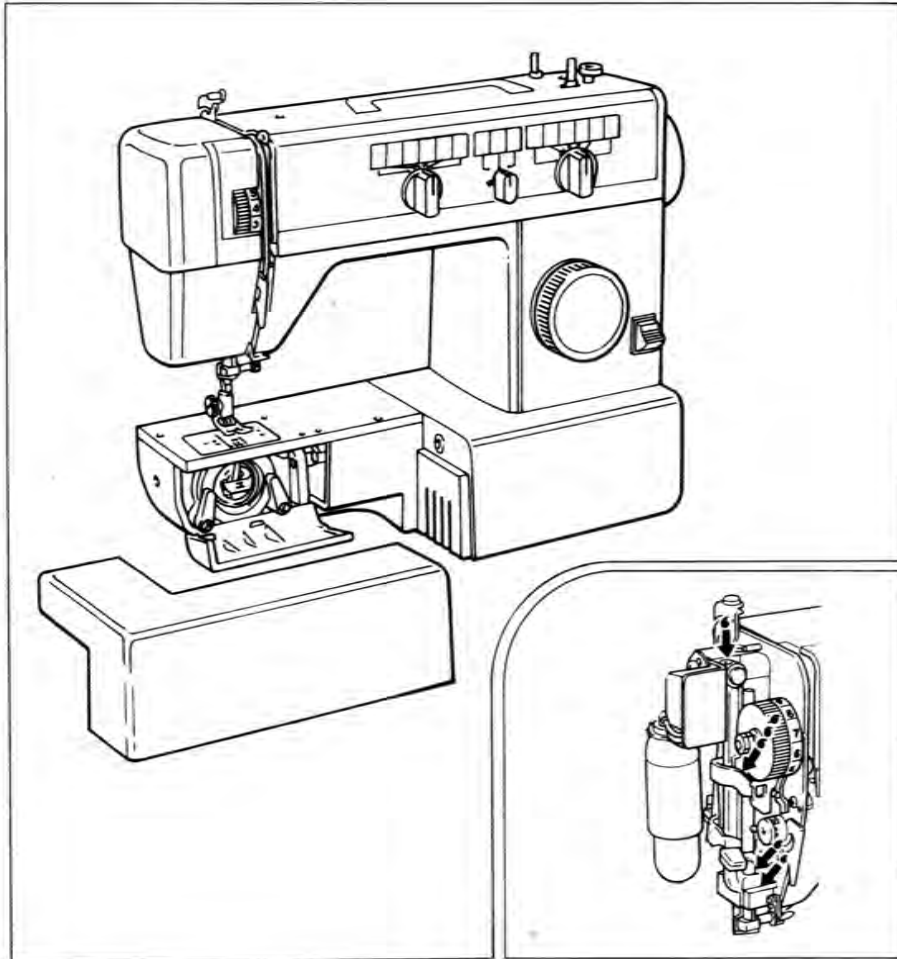
How to Oil Sewing Machine

For smooth and silent operation the moving parts of the machine should be oiled periodically. (See diagram below.)

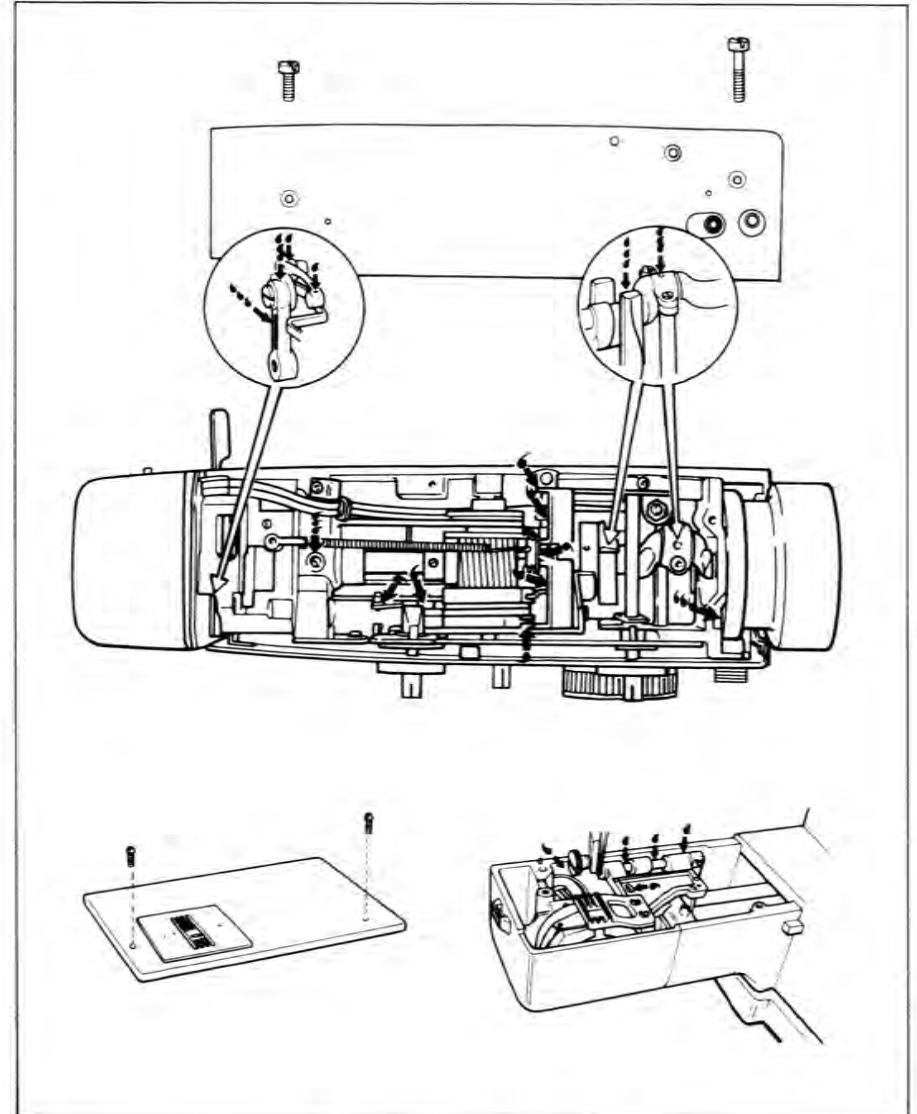
OIL 1 to 2 DROPS TO THE POINTS MARKED ● →
OIL 3 to 4 DROPS TO THE POINTS MARKED ●●● →

OIL ONCE A WEEK IF MACHINE IS USED MORE THAN ONE HOUR PER DAY. IF MACHINE IS USED MORE OFTEN OIL EVERY DAY.

After the machine has been oiled, remove thread and with presser foot up, run machine fast. Then wipe up any excess oil.



Occasionally, remove the top cover by loosening two screws on it and apply machine oil to oiling points as illustrated. Also, apply machine oil to inner parts of free-arm as illustrated by loosening two screws.



NOTE: If machine has not been used for a long period of time, oil tends to coagulate and operation of machine will not be smooth. Apply a few drops of oil to oiling points, and with presser foot up run machine for a few minutes. Then wipe up any excess oil.

Check List for Better Sewing

Check this list if you are having the following problems:

IF MATERIAL IS NOT FED

1. Feed dog is down.
2. Needle plate is out of position.
3. Stop motion knob is loose.
4. Stitch length regulator is at 0.

IF NEEDLE BREAKS

1. Needle is inserted incorrectly.
2. Needle clamp screw is loose.
3. Bent needle is used.
4. Upper threading is not correct.
5. Upper thread tension is too tight.
6. Wrong needle and thread for cloth being sewn are used.
7. Material pulled excessively.

IF LOOPS FORM ON FABRIC

1. Tension of upper or lower thread is wrong.

IF MATERIAL SHOULD PUCKER

1. Thread tension is too tight.
2. Threading is not correct.
3. Thread is caught by something.
4. Lower thread is unevenly wound on bobbin.

IF UPPER THREAD BREAKS

1. Upper threading is not correct.
2. Needle eye is not sharp.
3. Upper thread is too large for needle eye.
4. Upper thread tension is too tight.
5. Needle is inserted incorrectly.

IF LOWER THREAD BREAKS

1. Lower thread is entangled in shuttle.
2. Lower thread tension is too tight.
3. Lower threading is not correct.

IF MACHINE SKIPS STITCHES

1. Needle is not sharp and straight.
2. Needle is inserted incorrectly.
3. Wrong needle and thread for cloth being sewn are used.
4. Upper threading is not correct.
5. Lint is clinging to under-side of needle plate.

IF MACHINE RUNS HEAVY OR NOISY

1. Machine is out of oil.
2. Lints is accumulated on shuttle and teeth of feed dog.

Repacking the Machine

Keep this carton and packing material for future use in the event it becomes necessary to reship the sewing machine.

(Improper packaging or improper packing material could result in damage during shipping.) Instructions for repacking the machine are illustrated below.

